UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU

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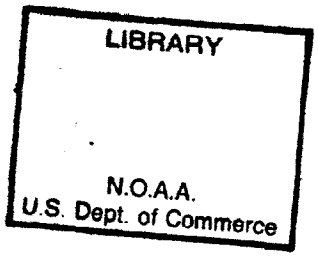

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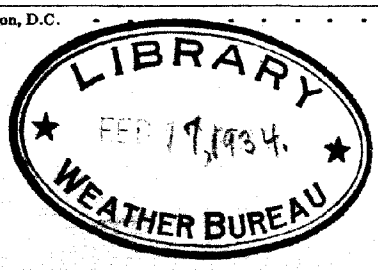

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LETTER OF TRANSMITTAL

UNITED STATES DEPARTMENT OF AGRICULTURE,
WEATHER BUREAU,
Washington, D.C., September 21, 1933.

SIR: I submit herewith a report of the work of the Weather Bureau during the fiscal year ended June 30, 1933.

Respectfully,

C. F. MARVIN,
Chief of Bureau.

Hon. HENRY A. WALLACE,
Secretary of Agriculture.

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Part I.—ADMINISTRATIVE REPORT

Drastic economies, retrenchments, and suspensions of public service have characterized the program of Weather Bureau work from the beginning of the fiscal year 1932 to the present time.

During this period not only have large reductions been made in the annual appropriations but also the appropriations made have been expended with great economy, resulting in large unobligated balances which augmented the reductions and increased the savings. In the early portion of the period changes were made that would entail the least harm to the general public service, but the program for the fiscal year ending June 1934 has necessitated the saving of over $800,000 from the appropriation as passed by Congress. This has resulted in the closing of more than a score of primary first-order stations, and large numbers of substations of all classes, and has involved the dismissal of nearly 500 employees.

It is believed that a rigid investigation of the administration of activities of the Weather Bureau will show conclusively that its affairs have been carried on with marked economy and efficiency over many years of operation.

The normal functions of the Weather Bureau cover a wide range and are not duplicated to any appreciable extent by any other Government agency. Accordingly, further economies than have already been accomplished in the cost of the Weather Bureau service to the Nation as a whole can be effected only by reductions and curtailments in long-established service to the general detriment of agriculture, commerce, and navigation.

The newest activity of the Weather Bureau, namely, its service in aid of air navigation, has come so much to the attention of certain of the public engaged in this particular field that the impression prevails that the service rendered this new industry has now become the major activity of the Weather Bureau. This is grossly erroneous and must continue to be so indefinitely if the Bureau effectively performs all of the duties assigned to it by organic law.

WEATHER BUREAU ACTIVITIES

Following is a list of the principal activities of the Bureau, which indicates the relative part of the whole comprised in the meteorological aids to air navigation:

1. *Primary network of stations.*—The Bureau has charge of the establishment, equipment, and maintenance by trained personnel of a primary network of about 200 first-order stations overspreading the continental United States and its possessions, except the Philippines. Twice-daily telegraphic reports and other observations, reports, and automatic records from these stations, including numerous radio reports from ships at sea, also the twice-daily exchange of numerous observations between nearly all the great nations of the Northern Hemisphere constitute the foundation of all classes of the public service of the Bureau, including aids to air navigation.

2. *Twice-daily public forecasts of all kinds.*—General weather forecasts are issued twice daily, Sundays and holidays included, throughout the year for all States, parts of States, and the larger cities. These include radio broadcasts from more than 300 radio stations of numerous weather bulletins for the benefit of all classes of the public, press notices, bulletins, etc., and also Navy broadcasts from Arlington and San Francisco of the coded and other weather reports for use by the shipping interests, the military branches of the Government, students, and specialists.

3. *River gaging and flood warnings.*—The daily gaging and reporting of stages of all the principal rivers of the continent are made by the Bureau. This service includes the indispensable flood-warning service at all times of heavy rains and the flood seasons of the year.

4. *Hurricane warnings and storms on the Great Lakes.*—This is a special service from June to November, comprising invaluable hurricane warnings for the benefit of all shipping plying the adjacent oceans, the Gulf of Mexico, and Caribbean Sea. This includes, of course, the property savings and other benefits to the commerce and industries of all the coastal States visited by hurricanes, especially the protection of the lives of many residents and citizens.

5. *Secondary network of stations.*—The Bureau maintains over 1,200 secondary stations (not including any airway stations), which furnish simple reports of rainfall, river, weather, and crop conditions, and receive a small compensation ranging from $10 to $25 per month.

6. *Network of climatic stations.*—The Bureau also has a vast network of cooperative observers. These are public-spirited citizens, residing mostly in rural districts, who, because of their personal interest in the weather, make daily records of the maximum and minimum temperature, the rainfall, and state of weather, including notes on special meteorological phenomena. The instruments and forms for reports are supplied by the Government, but the service is performed without any monetary compensation whatsoever. There are now about 5,000 such observers. The Nation owes a great debt of gratitude to these faithful observers. Their observations for more than half a century give an invaluable index of every important feature of the climate of almost every county in the whole Government domain, except the Philippines, in which the meteorological work is in the hands of the local government.

7. *Weekly bulletins of crop-weather conditions.*—Incidental to the daily and weekly reports from the 200 first-order and the 300 secondary stations, the Bureau issues a weekly bulletin of weather and crop conditions. In the winter season this includes details of snow and ice conditions. During the growing season of the year these weekly bulletins furnish authoritative facts on drought and current weather conditions and suppress or refute wild rumors and misinformation which would otherwise arise and which would seriously affect the orderly farm management, harvesting, and marketing of all the great agricultural crops.

8. *Frost warnings for horticulture.*—The Bureau maintains a thoroughly organized frost and cold-wave service for the benefit of citrus growers and orchardists located in Florida, Mississippi, Texas, California, Oregon, and Washington.

9. *Shippers' forecasts, cattle and stock-raising service.*—Warnings of temperature and cold waves are issued for the shipment of perishable products and livestock, and for the care and protection of livestock on the range in winter and at shearing time in the spring.

10. *Solar-radiation investigations.*—The Bureau investigates and measures the intensity of solar radiation at the surface of the earth. It is well known that solar radiation is the ultimate source of all terrestrial weather and life.

All the foregoing items of activity cover the services of the Weather Bureau to the general public, to agriculture, commerce, and navigation other than air navigation. The whole program is the growth and development of 62 years of experience.

11. *Aid to air navigation.*—The Air Commerce Act of 1926 specifically directs the Weather Bureau:

> To furnish such weather reports, forecasts, warnings, and advices as may be required to promote the safety and efficiency of air navigation in the United States and above the high seas, particularly upon civil airways designated by the Secretary of Commerce under authority of law as routes suitable for air commerce, and for such purposes to observe, measure, and investigate atmospheric phenomena, and establish meteorological offices and stations.

Table 1 shows the actual amounts of appropriations and savings that have been effected practically since January 1, 1932, to the present time.

TABLE 1.—*Appropriations for the Weather Bureau and savings effected, 1932–34*

Fiscal year	Appropriation	Legislative and all voluntary savings				
		Cut in appropriations	Cuts in all public service	Pay and wage cuts	Vacancies unfilled	Total savings
1932	$4,497,720	----------	[1] $332,966	----------	$32,743	$365,709
1933	4,164,038	$333,682	246,847	$277,318	115,284	639,449
1934	3,731,235	[2] 2,909,884	382,760	[3] 444,481	193,352	825,351

[1] Fully two thirds of this saving was effected in 1932 by the suspension or partial inauguration only of extensions in aids to navigation of the air for which appropriations had just been made. In other words, the work was not inaugurated and has been in a state of partial development since that time.

[2] Cash withdrawal authorized June 22. The set-up under this limitation of expenditures could not be made effective until about Aug. 1, 1933. Of course, all the items of savings for 1934 are merely close estimates and may probably be exceeded by the amount of a small unexpended balance at the close of the year.

[3] Gross savings on an annual basis resulting from the 15-percent cut in pay and wages of all Weather Bureau employees, including also about $50,000 which must be absorbed by administrative furloughs of all commissioned employees. The amount of the gross saving will be reduced by any change in the 15-percent cut made prior to June 30, 1934.

Under the law the responsibilities imposed upon the Weather Bureau are unique and exacting. No other agency of the Government is in any way specifically directed to engage in and conduct meteorological work, except possibly the nucleus of meteorological activities organized in the military branches for purely military needs. Through the nearly 200 fully equipped stations of the Bureau, the contact of the personnel with the industries and the public is very close, and all those making up the personnel are keenly alert to their respective responsibilities, especially during times of extreme weather conditions such as severe cold waves, floods, hurricanes and the like. For example, it is difficult for the public to realize the intense activity at a

Weather Bureau station during the prevalence of a hurricane. The ordinary legal hours of duty and considerations of Sundays and holidays have no meaning. No more loyal and faithful body of Federal employees can be found than at Weather Bureau stations. On many occasions the men remain on duty during long hours, often throughout the entire night, snatching such moments for food, rest, and sleep as may be possible. The number of personnel has always been limited and the average compensation relatively low in the Federal service.

If the gross appropriation for 1932 is compared with the cash-withdrawal authorization available for 1934, it is seen that the total saving in conducting the work of the Weather Bureau amounts to $1,587,836. Comparisons of the items also indicate that the savings resulting from unfilled vacancies, compulsory and involuntary retirements, and cuts in pay and wages of all classes of personnel have in the aggregate exceeded the actual savings effected by cuts in all classes of public service. In a few words, by dismissals, pay cuts, furloughs, and increased work due to reduced force and unfilled vacancies, the personnel of the Weather Bureau is now bearing the brunt of more than half the economies effected in the maintenance of the service as planned for the fiscal year 1934.

REDUCTIONS IN PUBLIC SERVICE

To effect the economies outlined it was first necessary to close a number of so-called "first-order" stations of the Weather Bureau or to reduce the duties and responsibilities in a material way. The following is a list of these stations, the new status being indicated in parentheses:

Apalachicola, Fla. (second order).
Concord, N.H. (second order).
Dayton, Ohio (river and cooperative).
Fort Worth, Tex. (reduced in personnel and service).
Grand Haven, Mich. (cooperative and storm warning).
Greenville, S.C. (cotton region and cooperative).
Hannibal, Mo. (river and cooperative).
Hartford, Conn. (reduced in personnel and service).
Houghton, Mich. (storm warning and cooperative).
Lewiston, Idaho (river and cooperative).
Lexington, Ky. (second order).
Ludington, Mich. (second order).
Lynchburg, Va. (second order).
Pierre, S.Dak. (river and cooperative).
Port Angeles, Wash. (storm warning and cooperative).
Port Huron, Mich. (storm warning and cooperative).
St. Paul, Minn. (river).
San Jose, Calif. (cooperative).
Tacoma, Wash. (storm warning).
Taylor, Tex. (cotton region and cooperative).
Thomasville, Ga. (second order).
Wausau, Wis. (river and cooperative).
Yankton, S.Dak. (river and cooperative).

In addition, a program of curtailment of service along airways is now being worked out. The stations are all secondary ones devoted exclusively to airway work, and a list cannot be given at this time.

In addition to closing some stations and reducing the status and activities of others, savings have been effected by closing 30 storm-warning, 11 second-order, 5 tobacco, 46 cattle-region 97 crop-weather, 84 river and rainfall, and 7 snowfall stations, and reducing the pay status in many others. The number of places to which daily forecasts are telegraphed has been reduced by more than 125, and a heavy reduction has been made in the distribution of forenoon and afternoon coded telegraphic reports. In other cases the issuing of weather maps has been suspended or changed to card bulletins. Telegraph expenses have been drastically curtailed. Corresponding economies will be applied to flood and storm warnings, fruit-frost, fruit-spray, and all other projects.

The closing days of the fiscal year were occupied in hastily projecting the extensive program of reduced service for the fiscal year 1934 which, as already stated, became substantially effective as of July 31, 1933. While very substantial savings were effected in the expenditures for 1933, nevertheless the general program of work was not harmfully affected. Practically all lines of activity were carried forward in nearly normal fashion except that important researches in solar radiation and climatology were abruptly suspended by the retirement of the leaders of these projects.

Notwithstanding the economies mentioned in the foregoing it became possible to inaugurate, at small cost, an important plan for increasing the number of ships' reports during the prevalence of tropical hurricanes. This is briefly described below:

Beginning June 1, 1933, the Weather Bureau put into operation a supplemental plan for securing weather observations by radio from ships at sea in connection with hurricanes. Arrangements

were made with certain radio companies whereby direct requests are made for weather reports at designated hours from ships known to be in areas in which a tropical disturbance is in progress.

All warnings of hurricanes are issued from Washington. When conditions warrant, the forecaster on duty indicates the ocean areas in which a tropical disturbance is known or suspected to be in progress and from which observations are desired. This information is at once telegraphed to officials in charge of designated Weather Bureau offices who have contact with the operators of the radio stations involved. The operators are advised of the hours at which the observations are needed and the ocean zones from which they are desired. All ships, regardless of nationality, in these zones are requested by special message to take weather observations at the designated hours and transmit them by radio in a coded message to "Observer, Washington."

This arrangement was designed with a view to assuring the receipt of weather reports when they are urgently needed from ships with which it is impracticable to make arrangements in advance. Hurricane activities in the Caribbean Sea and Gulf of Mexico began unusually early in the 1933 season. The new method has already demonstrated its practicability and success as a supplement to that in operation in previous years.

In the operation of its hurricane-warning service, the Weather Bureau has, for a number of years, secured daily weather observations from continental and island stations and from ships at sea. When a tropical storm is in progress over the water at a distance from island and coastal stations, dependence must be placed almost wholly on ships' weather reports by radio. For this purpose the cooperative services of the masters of about 300 merchant ships have been enlisted to transmit, during the hurricane season, twice daily, radiograms containing standard weather information. The ships are selected so as to afford as nearly as possible a representative daily collection from all areas in which West Indian hurricanes are likely to occur.

A representative collection is not realized every day during the hurricane season, because the number of ships in hurricane areas varies greatly from day to day and some areas are rarely traveled. Another difficulty is that when a storm is in progress, the fact is known to mariners through the daily weather bulletins and advices broadcast by the Bureau and shipmasters naturally avoid the storm area as far as possible. Therefore, it frequently happens that few or none of the ships with which arrangements for daily observations have been made are close enough to the storm center to enable the forecaster to form an accurate judgment as to its future behavior. By the new plan if there are any ships in the storm zone, reports therefrom are likely to be obtained.

For several years it has been the practice of the Weather Bureau to broadcast appeals by radio to shipmasters for weather reports when tropical storms are in progress. While this has yielded valuable results, it is inadequate because the appeals may not reach ships on which the complete weather broadcasts are not copied. Moreover, many ships do not have regular schedules and are routed into hurricane areas at intervals of several months. Yet such ships form a very considerable proportion of the traffic in the hurricane belt, and no regular reporting program for them can be arranged in advance.

A marked advantage of the new plan is that it utilizes radio operators' knowledge of the location of ships at sea so as to secure direct contact with the masters of all ships that are located within the storm area, from many of whom no reports otherwise would be obtained. The response to direct calls sent to ships of all national registers has been gratifying, but this was fully expected because of the very hearty cooperation the Weather Bureau has always received from shipmasters.

OCEAN METEOROLOGY

During the year, the 3-year project of recomputation of all meteorological data for the Central American Waters Pilot Chart was brought to completion. A discussion of the relation between sea surface and air temperatures in that area was prepared and published.

Investigation into the sources of temperature variations in the Gulf Stream at one of its principal origins (the Florida Straits) was substantially advanced, and conclusions are about ready for publication.

Atmospheric variation is found by these studies to play a primary role in the causation of the seasonal and irregular fluctuations in the average temperature of waters at the origins of the Gulf Stream.

The daily synoptic weather maps of the Northern Hemisphere have been improved in respect to the entry of observations from the oceans. A campaign of improvement has been pursued in two directions: (1) Special efforts have been successful in securing additional reports from ships sailing into sea areas which were poorly represented in the reports previously available; and (2) the cooperation of ships' officers and operators has been diligently sought with the object of improving the quality of ships' meteorological instruments and the accuracy of observation. Material results are being obtained; many inferior barometers and thermometers have been

replaced with instruments of satisfactory quality by the ships' operators without expense to the Bureau.

The Marine Division is assisting in the international polar-year program, by transcription of over 100,000 regular ships' weather-observation records for use of the Polar Year Commission.

Improvement in shipboard meteorological equipment has been obtained without issue of Bureau-owned instruments, through successful enlistment of the cooperation of ships' officers and operators.

Some economies have been effected by a change in the style of record book used at vessel-reporting stations.

RIVER AND FLOOD SERVICE

Observations have been made of river stages, rainfall, and mountain snowfall. River stages are being published in volume XXX of Daily River Stages, now at the Government Printing Office. Rainfall and mountain-snowfall observations have been published in the monthly statements of climatic data, issued by the several climatic section centers of the country. The data appearing in these publications are used to a great extent in the flood-control work of the Federal Government, the States, and of the numerous drainage districts that have been organized in various parts of the country. They are also employed and are considered indispensable by water users of all kinds throughout the United States.

The daily river forecasts made for the principal rivers have been used, as in the past, by navigation interests, hydraulic engineers, and the vast number of people interested in an advance knowledge of river stages.

Flood warnings have been successfully made and issued for all of the major streams in which floods have occurred in the last year. The floods of the greatest importance were in the Ohio River, the Yazoo River of Mississippi, and the Columbia River. Timely warnings of all of these floods were issued, and the public appreciation of their value is attested by the numerous commendatory letters and newspaper articles that have been received in the central office.

There have been demands for an expansion of the flood-warning service, but it has been impossible to meet them, on account of the lack of funds available for the river work. In fact, in June 1933 it became necessary to reduce the expenditures for this work by $12,562, which represents a reduction of almost 20 percent under the amount authorized for 1933, and the Bureau enters the fiscal year 1934 with a greatly changed organization for river work. In effecting the necessary reductions an effort has been made to trim the work where the least harm to the public interests will follow.

SERVICE IN AID OF AIR NAVIGATION

The Bureau now maintains quite adequate service over about 25,000 miles of civil airways, including the maintenance of 500 cooperative and paid secondary stations on the airways. On 13,000 miles the service is continuous night and day as required by various schedules of flying during the 24 hours. The service over the remaining 12,000 miles is part time and is adjusted most effectively to the flying schedules, mostly those in the daytime.

From the very nature of this service, more than half of which is continuous throughout the 24 hours, thereby involving at least three shifts of trained meteorologists, the cost is necessarily relatively more expensive to maintain than are the varied and comprehensive services to the public, agriculture, and industries. It is perfectly certain that safe navigation of the air is more or less impossible without a well-organized meteorological service. On the other hand, it is erroneous to belittle the benefits which the general public, agriculture, and the national industries realize from the old organized work of the Bureau and to subordinate the importance of a full continuance of this service under the mistaken impression that the new and somewhat spectacular service in aid of aviation dominates all other services in importance.

AIRPLANES DISPLACE KITES IN UPPER-AIR INVESTIGATIONS

The use of kites as a means of upper-air exploration was first begun as a regular program by meteorological services during the last decade of the nineteenth century. In this work the Weather Bureau was one of the early pioneers. As the value of the data thus secured became more and more apparent, the work was extended and for some years the Bureau had six stations in operation. This method, although it yielded results of genuine importance, nevertheless had decided defects since it was dependent on the wind conditions. That is to say, kite flights were not possible if the wind was very light or very strong. While using the kites, therefore, the Weather Bureau, in common with meteorological services of other countries, was constantly seeking some more satisfactory method.

The advent of the airplane provided this and in addition was a compelling cause for the abandonment of kite flying, owing to the hazards that the latter offered to aerial navigation. Accordingly, 2 years ago the Weather Bureau changed from kites to airplanes, although one of the kite stations was retained for a while in order to be certain that, before that method was finally given up, the newer method would prove a success. This was amply demonstrated during the 2 years just completed, and, accordingly, the last kite station has now been discontinued and this phase of meteorological observation and investigation passes into history.

The record of the last 2 years with airplanes has shown that daily observations, almost without interruption, even during seasons of the worst weather, can be made up to a height of 15,000 feet. The data thus secured are of great value, both in the forecasting work of the Bureau and also for studies of the characteristics of the upper atmosphere. Studies of this type already made have provided aids in forecasting, and it is certain that very much more of value along this line will be realized by further studies of the data, particularly if a more complete network of stations can be established.

The chief lines along which economies have been effected are:

1. Discontinuing substations at points along the airways.
2. Cutting down the number of observations at certain places.
3. The old program of 3-hourly observations was changed to a 4-hourly basis, thus making possible a considerable saving both in personnel and in the cost of telegraphing.
4. At certain selected stations, a program has been put into effect, whereby observations that are regularly taken are not telegraphed when weather conditions are favorable. The determining factors as to whether or not the weather is favorable are not left to the judgment of the observer but are rigidly set forth in instructions that have been issued to all stations.
5. Finally, by cooperation with the Department of Commerce, the personnel of that Department has been utilized at certain points where practicable in making surface weather observations, thereby dispensing with an airways observer otherwise paid by the Weather Bureau.

INSTRUMENTAL EXPOSURES

One of the serious problems confronting the Weather Bureau has long been the matter of securing good exposures for its instrumental equipment, particularly at stations in large cities. In such cases the offices must be located in the heart of the business activities in close touch with telegraph and newspaper offices, as well as the leaders of the major industries, boards of trade, commodity exchanges, etc. Finally, the extension of the public-building programs involves the saving of rent by the occupation of quarters in Federal buildings wherever possible. These often afford inferior or unsatisfactory conditions of exposure. In some of these cases instruments have been exposed on rented roof spaces on adjoining commercial buildings. This procedure has been gone into rather reluctantly because it is recognized that the observer should be in close attendance upon his instruments and should have ready access to them at all times. However, the widespread Federal building program together with the great need for economy has left no alternative but to work out the best possible arrangements for occupancy of these Federal buildings.

Notwithstanding these difficulties observations at city stations are carefully checked against certain observations at cooperative stations maintained under rural conditions, and it is believed that in the main the records from city stations are as accurate as practicable.

Wind velocities alone are probably the most seriously affected. In fact, the velocity of wind is such a complicated function of the irregularities of the local topography and the height of the instruments above the ground or the roofs of buildings in the vicinity that the observation itself must be interpreted with reference to the actual environment.

INTERNATIONAL POLAR YEAR

One of the notable features of the year beginning August 1, 1932, and ended August 31, 1933, is the international program for making certain meteorological and other scientific observations by all the meteorological services of the world comprising observations from the entire globe but particularly from stations in the Northern Hemisphere and as near the polar regions as possible. A brief report of this project follows:

An undertaking of genuine significance in the history of meteorology was the organization of an international program of observations, covering the period August 1882 to August 1883, inclusive. The data secured from a wide network of stations, including some within the Arctic Circle, formed the basis of many valuable researches.

As a fitting tribute to the memory of those who organized this first international polar year, it was decided at an international meeting of meteorologists some 4 or 5 years ago, to organize

a so-called "Jubilee International Polar Year", this second program to be carried out exactly 50 years after the first, or in other words, during the period August 1932 to August 1933, inclusive. Through international conferences and correspondence, the proposed program was very carefully and completely planned and in spite of the unfavorable world-wide economic conditions has been carried out with only a small amount of modification.

This second polar year is naturally much more complete than the first one and has been organized on somewhat different lines. The primary purpose of the first effort was to secure statistical data. Although this is one of the purposes of the second program now completed, the chief goal in this one has been securing observations which would make possible the preparation of detailed weather maps on a world-wide scale from the study of which it is hoped valuable aids to forecasting may be developed. Naturally, the vastly improved methods in communication, including particularly the radio, have greatly assisted in this feature of the project and have also greatly simplified the organization of the work itself, since it has thus been possible to keep in close touch with all observing parties.

The Weather Bureau has taken an active part in this program. A special observing station was established at Point Barrow, Alaska, which is the point farthest north, under the control of the United States. At this station a very complete set of surface records has been secured, and upper air soundings have been made with pilot balloons two or more times daily throughout the year. In addition, numerous photographs have been made of the aurora and a complete record kept of the occurrence of this phenomenon, including in some cases measurements of its altitude. Moreover, additional observations, as requested by the International Polar Year Commission, have been made at selected stations throughout the United States and its possessions. The observations included not only data of surface conditions but also of clouds and aurora and other phenomena. The upper-air part of the program consists of pilot balloon observations two to four times daily at about 70 stations; airplane observations, reaching a height of about 5 kilometers, as a rule, daily at 5 stations in the United States proper, from August 1932 to June 1933, inclusive, and at 4 stations during July and August, 1933; airplane observations on selected days of each month only, at Fairbanks, Alaska; and sounding balloon observations, reaching heights of 8 to 15 miles in general, on specified days of each month, at 3 stations in the United States. In addition a few high soundings by means of a special radio device have been made at Fairbanks.

Plans are being worked out for the compilation and analysis of the data that have thus been secured throughout the world. Already much of the work of compilation has been completed, but there remains the more important work of publishing the material in such form as to be readily available for study by qualified investigators. It is not yet certain whether publication will be by an international bureau or by the individual countries, in a form that may be prescribed by the International Polar Year Commission. In either case, the Weather Bureau expects to assume its full share in this part of the program as in that already completed, namely, the actual securing of the data.

RESEARCH WORK

The Weather Bureau is not organized for research activities in the same sense that research constitutes the major features of activities of many other branches of the Department of Agriculture. By far the greater part of the appropriations for the maintenance of the Weather Bureau are expended to provide a Nation-wide service to the public, agriculture, and the industries. Demands for the expansion of this service in almost every community are difficult to resist and absorb practically all the appropriations available. Nevertheless, members of the staff of the Weather Bureau include in their various activities certain particular investigations of the relations of weather to crop development, the inception and generation of storms, investigations of solar radiation, climatology, and the conditions and characteristics of the upper air as revealed by the observations in the free air procured by modern methods that have become available. As already mentioned, some of this research has been interrupted and suspended because of the retirement of the leading officials, and under the provisions of the Economy Act these vacancies have not been filled. Nevertheless, every effort has been made to preserve the nucleus of the research activities of the Bureau, the pursuit of which will be resumed and intensified at the earliest practicable opportunity.

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PART II.—GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES DURING THE YEAR 1932

REVIEW OF THE WEATHER CONDITIONS DURING 1932

The year 1932 averaged slightly warmer than normal although it was considerably cooler than the preceding year. All States east of the Rocky Mountains except Texas were above normal in temperature; New Jersey, with a plus departure of 2.1°, was the relatively warmest State. Texas and the States west of the Rockies had annual averages somewhat below normal, but the departures were less than 1° except in Colorado, Utah, and Idaho.

March, October, and December were the months averaging below normal. Of these, March had the greatest negative departure and was below normal in nearly every district east of the one hundred and tenth meridian. January was the month with the greatest temperature variation, the departures ranging from +12.6° in the Middle Atlantic and lower Lake districts to −5.2° in the middle Plateau. Only May and August were warmer than the corresponding months of the preceding year, and in these instances the departures were less than 1°. The northern Plateau district averaged nearest the normal in temperature; the South Atlantic the warmest, and the southern slope and middle Plateau were the only districts below the annual average.

Precipitation in 1932 was above normal in all States east of the Rockies except Kansas, Minnesota, Missouri, Nebraska, Ohio, Wisconsin, and South Dakota, while Florida was exactly normal. West of the Rockies, Idaho, New Mexico, Oregon, Utah, and Washington were above normal. A marked contrast was shown in the Pacific area where Washington received 120 percent of the normal precipitation and California (the relatively driest State) only 67 percent. The relatively wettest States were Mississippi, with 127 percent of the normal, and Alabama, Tennessee, and Washington, each with 120 percent. Falls were abundant in the east Gulf, Florida Peninsula, and southern slope during the year. The east Gulf excess was nearly 10 inches, the wettest months, compared with normal, being January, September, October, and December. In contrast, the central part of the country, notably the upper Lakes, Plains States, and upper Mississippi and Missouri Valleys, was dry. The greatest deficiency for the year, however, occurred in the middle Pacific district, where the total was 10 inches below the average annual fall.

For the United States as a whole, January, June, August, October, and December were the months wetter than normal, but in no instance did the excess average more than 0.7 inch. The driest months, compared with normal, were April and July. In April nearly all districts were below normal and the departures were small; in July the Atlantic coast, south of New England, and the east and west Gulf Coasts had rather large negative departures, while other sections were near or somewhat above the monthly average.

JANUARY

In the eastern half of the country temperatures were mild, but most of the western half had readings below normal. Precipitation was mostly plentiful.

Mild weather prevailed during the first few days in most sections east of the Rockies, with abnormally high temperatures in the north-central portion. In the Pacific States and northern Plateau and Mountain areas, the latter part of the first decade was milder, while warmth continued over most of the eastern half. The middle decade brought surprisingly high temperatures generally close to or east of the Mississippi River, but cold weather was again the rule in most of the West. The first of the last decade was remarkably cold in most of the Plateau area, but much warmer than normal in practically all of the eastern half of North Dakota and Montana. Toward the close of the month a cold spell spread almost everywhere—except the extreme South—the temperature falling quite low in north-central districts. The greatest departures were in the Middle Atlantic States, the upper Ohio Valley, and nearly all the Lake region and New England where the excesses were about 11° to 14° a day. Both

here and in the South Atlantic States it was almost the warmest January of record. Just previous to the middle of the month, the highest January temperatures of record were noted in the East. January was warmer than normal westward to well beyond the Mississippi River. In sections of the Plains, and almost throughout the Rocky Mountain States and far West, it was colder than normal, averaging 5°, or more, deficient in Utah, Arizona, and parts of adjacent States, where it was almost the coldest January ever known.

Precipitation was rather well distributed through the month, although the Atlantic and Gulf States received a great part of their monthly totals during the opening fortnight, the central valleys about the middle of the month, and the interior portions of the West and Southeast during the final week. Rainfall was remarkably heavy in the lower Mississippi Valley and westward to eastern Oklahoma and Texas. Precipitation, chiefly snow, was considerably above normal from Kansas across eastern Nebraska and Iowa to northern Wisconsin. Totals were moderately above normal in the lower Ohio Valley, many parts of the Northeast, and near Chesapeake Bay, also in northeastern Wyoming, the western parts of the Dakotas, and in northern and eastern Nevada. West of the Rocky Mountain crest there was less than normal, the shortage being marked in western Arizona. The Florida Peninsula and a strip to northward along the Atlantic coast to Cape Hatteras were below normal. There was little or no snowfall from central and southern Missouri and northern Arkansas eastward over the Ohio Valley and the southern Lake region to the Middle Atlantic States and southern New England. To the northward from the vicinity of Lake Michigan to Maine there was usually less than normal. Above-normal falls occurred in most of the southern Rocky Mountain region and the central Plateau, especially from western Kansas to southern Minnesota and western Wisconsin.

FEBRUARY

In most States east of the Rockies February was mild, but cold weather continued in the Pacific and central-northern Plateau States till near the end of the month. Most of the South had more precipitation than normal, but deficiencies occurred in the Atlantic area, middle latitudes, and the Northwest. In the extreme Northeast the first half of the month was rather mild, but the second half was below normal, especially in Maine. Otherwise, mild weather was almost unbroken east of the Mississippi River, and in the middle and southern areas between that river and the Rockies. There were several cold spells in the Missouri and upper Mississippi Valleys, but the closing week was excessively warm. West of the Divide, except to east of the Colorado River, cold weather prevailed until the last week. At many stations in the Ohio Valley, Missouri, and southeastern Kansas, and thence southward to the Gulf coast it was the warmest February of record. Elsewhere, east of the Continental Divide, temperatures ranged from practically normal to considerably above. West of the Divide the month was warmer than normal near the California coast, the Mexican border, and to southeast of the Colorado River. Other parts of the far West were below normal, notably northern Nevada and adjacent districts.

From the Rio Grande Valley to the lower Mississippi Valley the third week brought a very large part of the total precipitation, while in Arizona and southern California both the second and third weeks were wet. The Pacific Northwest had liberal amounts during the last week. From the upper Mississippi Valley eastward the first half of the month had much more rain than the second half. Only about one third of the States received normal precipitation. The shortage was marked in most of Florida and generally along the Atlantic seaboard. Parts of the Ohio Valley, Lake region, central Missouri, and the Great Plains, the northern half of the Rocky Mountain region, northern California, and southwestern Oregon usually were below normal.

Precipitation was generally above normal in the southern Appalachian region, Arkansas, Texas, parts of Louisiana, Oklahoma, New Mexico, California, Arizona, the far Northwest, Wisconsin, Minnesota, and Michigan. In the East snowfall was below normal, except near Lake Superior; in the Plateau States and the mountainous parts of western Washington and southern California it was heavy.

MARCH

The central and eastern portions of the country had a cold March, but temperatures in the Pacific States were mostly above normal. Precipitation was irregularly distributed; the Atlantic States and the extreme Northwest usually had ample moisture, but deficiencies prevailed in the central valleys and the Southwest. The first few days were mild from the Plains to the Atlantic coast; then decidedly cold weather set in over the northern Plains and spread southward and eastward. In central and southeastern sections the 10-day period, 6 to 15, was the coldest, or nearly so, ever recorded in March. Meanwhile, California had above-normal temperatures, as

did most other parts of the far West about the middle of the month. The second half of the month brought moderate variations in temperature, though the far Southwest remained mostly above normal. The western half and the Southeast were warm from the 16th to the 22d, and most of the East and Northwest had mild weather the last few days. March was somewhat warmer than normal in California, most of Nevada, western Arizona, and much of the extreme Northwest; otherwise it was colder, especially between the Rocky and Appalachian Mountains, where large areas were from 6° to 8° below normal. In many sections east of the Mississippi River, March had the lowest temperatures of the cold season. In the Southeast unusually low readings were noted about the 10th, many stations setting new March records.

The second week of the month brought the heaviest rains to California, and the first and third weeks to the far Northwest. In the East and Central South precipitation was greatest during the first week and the last decade, while in the Ohio Valley the heaviest rains occurred between the 16th and 22d. Amounts were much above normal in most of the Middle Atlantic States and the Columbia River Basin, and somewhat above in other parts of the Northwest, the Northeast, much of Florida, most of the southern drainage area of the Ohio River, northern Iowa and adjacent districts, and much of Wyoming and Colorado. Most of California and the southern half of the Plateau region had below normal, and there was a marked shortage in Gulf coast districts from northwestern Florida westward, in the southern and central Great Plains, most of Missouri, central Illinois, northern and eastern Wisconsin, and northern Minnesota and Michigan. Snowfall usually exceeded the normal in the central and northern Rocky Mountain and Plains regions, and the upper Mississippi Valley; decidedly so in much of the Lake region and the Northeast. Amounts were small, however, in the central valleys, the Ozarks, and in the middle and southern Plateau areas.

APRIL

April was the first month, since the preceding summer, when every State had an average temperature within 4° of normal. Precipitation was mostly less than normal.

The first decade was generally warm, especially in central sections to north of the Gulf States. Marked warmth set in over the far Southwest about the end of the first week, continuing until the 19th or 20th. In general, the middle decade was warm west of the Mississippi River, but cool east of it, especially so in the upper Ohio Valley and lower Lake region. The last decade was mostly warm east of the Mississippi, but about normal or cooler to westward. In the Great Plains, Montana, and parts of the lower Mississippi Valley, the month was 2° to 4° warmer than normal, and it was slightly above in the far Northwest, most of the middle and southern Plateau and Mountain regions, the upper Mississippi and lower Ohio Valleys, and from Texas to the Carolinas. It was slightly cooler than normal in most of the Northeast, northern and central California and Nevada, and parts of Arizona and Oregon.

April precipitation in Central-Northern States fell mostly during the first week, and in the Northeast the first 2 weeks. In the far Northwest good rains occurred from the 13th to the 22d. The closing decade brought the heaviest precipitation to the Dakotas, northern and middle Rocky Mountain States, the area from Texas to the southern Appalachians, and the middle Ohio Valley. Rainfall was deficient over about three fourths of the country, but above normal along the central and northern Pacific coast, in parts of the Great Plains and Rocky Mountain regions, west Gulf districts, portions of the lower Ohio Valley, and in localities of the Northeast.

Moisture was also deficient in parts of the central and southern Great Plains, locally in the lower Mississippi Valley, in the vicinity of Lake Michigan, most of Illinois, and the upper Ohio Valley and nearby sections, in practically all of the South Atlantic States, especially on lowlands, and in central and southern California and thence eastward to the Rio Grande, with large areas in the Southwest having a rainless month. Snowfall was not remarkable to the east of central Nebraska and the Dakotas, though at Canton, N.Y., the heaviest snow in 35 years occurred. Totals were normal at places near the Canadian boundary from western Maine to Minnesota, but generally exceeded the normal in the far Northwest, except near the Canadian border and in large parts of the Pacific States.

MAY

Except in the immediate South and in the far West, abnormal warmth was the rule until the final week, when abnormally cool weather prevailed. Precipitation was mostly above or near normal from the southern Middle Atlantic to the middle Gulf States, in the upper Lake region, and the northern Plateau, but was below over much more than half the country, especially in the Ohio Valley, most of the Mississippi Valley, and parts of the Great Plains and Rocky Mountain region. In central areas and the near Northwest, warmth prevailed most of the month, and in Atlantic and Pacific Coast States, except in more southern sections, it was warm until about the 15th. The closing week was below normal in the Northwest, the Plains, and

the Ohio and central Valleys, but was mostly slightly above in the Northeast and far Southwest. May was somewhat above normal in the Plains States, the middle and upper Mississippi Valley, and the eastern parts of Colorado, Wyoming, and Montana. Most of the Pacific and southern Plateau areas, and the Rio Grande Valley, were slightly below; the greatest deficiencies occurred from the middle Gulf region to the Carolinas. In every State there were temperatures as high as 90°, and in the Southwest some stations had maxima exceeding 100°. The hottest weather occurred about the 11th to 15th, except in the eastern third.

Most of the important precipitation occurred the last 2 weeks, except from the Dakotas to the eastern Lakes and in the Middle Atlantic States, where heavy rains occurred from the 4th to the 14th. Moisture was not well distributed nor was it ample, for about two thirds of the States had less than normal. The shortage was marked over the Ohio River drainage basin and to west as far as the middle and southern Rocky Mountain slope, with several States averaging less than half the normal. Rainfall was mostly deficient in the Northeast, in the southern Appalachians, the interior sections of most Gulf States, eastern Texas, southern Montana, central and southern Wyoming, the Colorado River Basin, southern California, and near Puget Sound. Generally there was above-normal precipitation in northern Nevada and adjacent areas, central and southern New Mexico, western Texas, over the Black Hills, parts of North Dakota and Minnesota, southeastern Michigan, from Pennsylvania and southern New Jersey to the coast sections of the Carolinas, in the Florida Peninsula, and along the east and central Gulf coasts. Some elevated western districts and localities near Lake Superior had snowfall the first two decades, while about the 26th many parts of Wyoming and the Dakotas had falls comparatively heavy for the time of year. The most brilliant aurora widely seen in this country during very recent years was visible the night of the 29th–30th, as far south as Baltimore, Knoxville, Grand Junction, and Winnemucca.

JUNE

June was, as a whole, warmer than normal, especially in the north-central portion; rainfall was generally sufficient and was excessive in much of the southern Plains and South Atlantic areas. From the Missouri Valley eastward the first week was abnormally warm, but it was cool in the Rocky Mountain States and to westward. The second week was below normal in the Rockies and to east of the Mississippi River, with damaging frosts in parts of New York and adjoining States. From the middle to the end of the month temperatures were usually above normal, and the far West had especially high readings most of the last decade; however, the Lake region and New England experienced a cool spell about the 22d to the 26th. In the Dakotas most of the Mississippi Valley, and the western Lake region June averaged 3° to 5° above normal; elsewhere it was generally a little above. The month was slightly below normal in parts of California, Texas, Oklahoma, New York, New England, locally from Maryland and the Virginias to northern Florida, and in most of the Plateau and southern Rocky Mountain regions. The highest readings, 120°, occurred in California and Arizona, while in nearly all States temperatures reached 100°, except from Wisconsin, Ohio, and West Virginia eastward. The maxima occurred from the 20th to the 24th. East of the Rockies minima were above 32° except in the northern Appalachian area, Michigan, and Wisconsin. In the far West several States reported minima below 26°; the lowest was 13° at Seneca, Oreg., on the 6th.

There were heavy rains the first week in parts of Florida, the Plains, and the upper Mississippi Valley, while much of the middle and upper Missouri Valley had noteworthy falls about the 9th. Many parts of the Southeast had most of their rainfall in the middle decade, while the last week was rainy from Texas and the southern Rocky Mountains northeastward to the Ohio Valley and the Great Lakes. More than half the country had decidedly above-normal rainfall, though it was deficient in localities from Minnesota eastward and southeastward, from the middle Gulf area westward, and in the Pacific States, northwestern Idaho, and extreme western Montana. Totals for Nevada and Oklahoma were more than twice the normal, while marked excesses were reported in Utah, northwestern Texas, eastern Florida, and southern Georgia. Jacksonville, Fla., measured 23.32 inches, a new monthly record and the greatest rainfall reported during the month anywhere in the country.

JULY

July was mostly warmer than normal, except in the extreme Northwest; rainfall, on the whole, was below normal, though not seriously so. The first decade was about normal in termperature except in the South to west of the Rocky Mountains, and there were many northern districts where abnormally cool weather continued into the first of the middle decade, which, with the first half of the last decade, was marked by hot weather generally, except in the far Southwest. The last few days of the month were usually below normal west of the Rockies and from the

Missouri River eastward. The month was considerably above normal in the Mississippi Valley and northern and central Great Plains. In the Southeast, Florida had the warmest month of record, and several stations northeast as far as North Carolina had the highest July temperatures ever recorded. In most other districts temperatures were slightly above normal, except in parts of the Lake region and from the upper Ohio Valley northeastward and in the States to the west of the Continental Divide. The highest temperatures were generally within the previous July limits, though new marks were set at a few Gulf coast stations. The maxima usually occurred during the period 14th to 22d except in the far Southwest. The highest for the country, as a whole, was 121° in southeastern California. In most States the minima occurred the first 5 days.

From the Great Plains eastward the first and last weeks of the month generally had the most rain, except in large portions of the Lake region, New England, and the central Appalachians. In several sections near or west of the Rockies the second and third weeks brought good rains. In more than half the States the average rainfall did not reach normal. Florida had the driest July of record; the Carolinas were between 2 and 3 inches below normal; nearly every coast district from Massachusetts to the Rio Grande had deficiencies. The Great Plains and adjoining States also were below, the most marked deficiency being centered in eastern South Dakota. The Plateau States, especially western Washington, and large portions of the Ohio and lower Mississippi Valleys, the Lake region, central and northern New York, and New England averaged wetter than normal. Uvalde, Tex., with 21.01 inches, received the most rain during July, and east of the Mississippi River the greatest fall, 15.56 inches, was at Clay, W.Va.

AUGUST

August was somewhat warmer than normal nearly everywhere; precipitation averaged about normal, but was irregularly distributed. In general, the first decade was warmer than normal, especially in the far West and Northeast. From the 11th to the close of the month there were several cool periods in the far West, especially during the middle and latter parts, but the Rocky Mountain and Plains States were usually warmer than normal, except the last 2 days. In the Southeast the last 3 weeks had temperatures near normal, but there were several days of coolness around the 20th, and the Northeast had a brief cool spell about the 18th to the 20th, and a markedly hot period during the last week. In Utah, Arizona, the Rocky Mountain States, and to eastward August was somewhat warmer than normal, the departures being largest from Michigan to the Dakotas and thence southward to Kansas and eastern Colorado. The Pacific States, Idaho, and Nevada averaged slightly below. Maxima and minima were near the previous August records; they were 123° at Greenland Ranch, Calif., on the 5th, and 15° at two Wyoming stations on the 31st.

Much of the Lake region and Northeast received good rains from the 1st to the 11th, while many parts of the South Atlantic States had considerable between the 15th and 23d. Near the Mississippi River and in most portions of South Dakota and Texas the heaviest rains occurred from the 7th to 19th, inclusive, while in Utah, New Mexico, and many adjacent areas the last week of August had the most rain. Totals were decidedly above normal in most of Iowa, Illinois, and Missouri, and were near or above in South Dakota, Michigan, and parts of New York and New England. As a rule, amounts exceeded the normal in Kentucky, Alabama, southern Georgia, Florida, southwestern and most of far western Texas, New Mexico, Utah, northeastern Arizona, Nevada, Montana, western Washington, and near the Gulf coast. In Arkansas, North Carolina, and adjacent areas rainfall was subnormal and there were marked shortages in eastern Wisconsin, central and northwestern Ohio, northern Indiana, and large portions of the Middle Atlantic States. In many parts of the Middle Atlantic area and important sections of the Carolinas and Wisconsin, where July ended with the soil seriously dry, the August shortages were serious. The largest monthly amount reported locally was 20.15 inches at Panama City, Fla., while no station near or to the westward of the Rocky Mountains reported as much as 8 inches.

SEPTEMBER

September was warmer than normal in much of the far West; otherwise about normal temperature prevailed, with a tendency to coolness in the central part. Rainfall was deficient in large portions of the country but above normal in others.

The first few days were decidedly hot in the East and in the interior of California, the heat continuing through the first decade in the latter and extending over adjacent districts. In the far West temperatures were above normal, except along the immediate Pacific coast and in the far Northwest. In most of California, Oregon, Nevada, and western Arizona the month averaged 2° to more than 5° warmer than normal, and was somewhat warmer west of the Continental Divide, in Colorado, Wyoming, northern Montana, the Dakotas, and from Ohio and the Vir-

ginias northeastward. Elsewhere it averaged near or slightly below normal. The highest temperature, 121° occurred in southeastern California on the 7th. Most States reported readings above 100°; in Virginia and adjoining sections maxima were from 106° to 108°, about equal to the previous September record. However, 100° was not experienced in the middle Rocky Mountain region and the middle and upper Mississippi Valley. High readings occurred during the first 5 days east of the Mississippi River, and about the 7th from the Great Plains to the Pacific coast. In the eastern half of the country minima occurred the final week, but in the western half at various dates; the lowest minimum, 12°, occurred in Oregon.

The first week brought decidedly heavy rains to Texas, especially the central part, and also to a strip from Mississippi and western Alabama to Indiana and lower Michigan. The second week was marked by torrential rains in parts of Florida. About the 16th much rain fell in eastern New England, and about the 19th in parts of the lower Mississippi Valley. Precipitation was moderately heavy about the 12th and the 21st in parts of the central Great Plains, and during the last decade in parts of Texas. Totals were above normal in most of Texas, except the eastern part, and in New Mexico, except the northwestern part. Rainfall was heavy also near the lower Mississippi River and over a strip 200 miles to eastward, in Indiana and adjoining districts, eastern New England, and in southeast coast sections from the Carolinas southward, including most of Florida. Amounts were below normal in about three fourths of the country; marked shortages occurred in the Middle Atlantic States, where Pittsburgh, Pa., had the least of record for 92 Septembers. In central and eastern Oklahoma, western Arkansas, most of Missouri, and portions of the upper Mississippi Valley and northern Plains there was a considerable shortage; also in the central Rockies, the Plateau area, and the extreme Northwest. Large totals at individual stations were Carrabelle, Fla., 24.99 inches, Mexia, Tex., 17.20, and Kingston, R.I., 12.66 inches.

OCTOBER

October had near-normal warmth over most of the country; temperatures were considerably above normal in the eastern Lake region, New England, the Middle Atlantic coast and east Gulf States, and the far Northwest, but in the central sections they were below normal. Precipitation was abundant in the Atlantic and east Gulf regions; in the western half, except for limited areas in southern California and Arizona, falls were subnormal. With the exception of northern California and the higher mountain regions of the Northwest, parts of the second and third decades brought subnormal temperatures west of the Rockies. From the Rockies to the Appalachians cooler weather was general the first and last weeks. To the east, except in east Gulf and South Atlantic States, subnormal temperatures prevailed from the 7th to the 15th. Mean temperatures averaged from 2° to 4° above normal in parts of the East and in many localities west of the Rockies.

The country west of the Mississippi River was mostly dry, except in local areas. Fairly heavy falls occurred the first week in localities from the Missouri Valley southward as well as in southern Florida, locally in the Lake region, the Ohio Valley, and the Atlantic States. Rain fell the second week in nearly all sections east of the Mississippi, being especially heavy in Middle and North Atlantic States. Moderately heavy falls occurred in the Ohio Valley and Lake region, and on the 8th to 10th in southern California and Arizona. Yuma, Ariz., reported 3.39 inches, which nearly doubled the previous October record.

The latter part of the third week unusually heavy rains fell in the Southeast and Middle Atlantic States. Elsewhere, except in the Pacific Northwest, there was but little rain. During the last week moderate to heavy rains were general east of the Mississippi River; they were especially heavy in parts of Florida, South Carolina, and New England. Miami, Fla., had 8.68 inches the 29th and 30th. West of the Mississippi fairly heavy rains were reported in Arkansas and the far Northwest. Parts of Texas reported the driest October of record, while, on the other hand, Washington, D.C., had the wettest October since 1885, and new records for wetness were set at points in New England, South Carolina, and Mississippi. Snowfall was above normal from Utah to upper Michigan; one of the heaviest falls of record occurred in the Black Hills. A number of stations in the Central Plains reported the earliest measurable falls of record.

NOVEMBER

Weather throughout November was variable, with marked contrasts in both temperature and precipitation. Temperatures the first week were generally above normal except locally in the mountain regions and along the Pacific coast. During the second week a reaction to colder weather set in. Freezing weather reached nearly to the east Gulf coast and zero or below was reported in Central-Northern States. Temperatures averaged below normal in the South Atlantic and Gulf States, the Ohio Valley, Tennessee, most of the Lake region, all of the upper

Mississippi and Missouri Valleys, and nearly all of the mountain regions. Only the Pacific Coast States, and places locally adjacent thereto, had above normal temperatures. The third week was considerably warmer than the second, especially in the mountain regions and Pacific Coast and South Atlantic States, but cold continued in the Gulf States and the interior. The last week was generally below normal east of the Mississippi River, some stations reporting record minima. Temperatures were decidedly above normal in the Missouri Valley, mountain regions, and Pacific Coast States, with some stations reporting the highest of record for so late in the season.

Precipitation the first week was mostly confined to the Atlantic States, parts of the Gulf States and the far Northwest where some stations had totals of nearly 5 inches. The second week had moderate to heavy falls in the Middle and North Atlantic States, most of the Lake region, the upper Mississippi Valley, and the far Northwest. Although locally excessive rains occurred in Florida, precipitation was generally scanty in the Gulf States, many Texas stations being rainless; likewise, the Ohio Valley, Tennessee, and most of the country west of the Mississippi had less than normal. The third week was characterized by a continuation of heavy rains in eastern sections, while the West remained mostly dry, many stations having no measurable amounts. The fourth period brought rather heavy rains to the Gulf States and portions of Washington and California; elsewhere there was but little precipitation. Washington, D.C., and Jacksonville, Fla., had the wettest November in many years, but at Oklahoma City, Okla., and Grand Junction, Colo., it was almost the driest November of record. Snowfall was above normal in several districts. About the 7th–9th heavy falls occurred in much of the Missouri Valley, Minnesota, and Iowa; the 12th–13th brought heavy falls to parts of the lower Lake region and parts of Montana and North Dakota. The most important November storm occurred about the 15th–17th from western Missouri and the lower Ohio Valley northeastward to Lake Erie. The total at Buffalo, N.Y., was nearly three times the normal, and new records were set at a few other stations.

DECEMBER

December had marked variations in both temperature and precipitation. Wide variations in rainfall occurred over short distances, some stations receiving less than 12 percent of normal, while others, nearby, had two or three times the monthly average. The first few days were abnormally warm practically everywhere, although colder weather set in before the end of the week. The cold wave moved southward and eastward on the 7th–8th, with 24-hour temperature drops in the interior of as much as 40°. Readings of 0° or below were reported in the West, and in Illinois, Missouri, and northwestern Texas. Temperatures were generally far below normal throughout the second week, except along the Atlantic and east Gulf coasts, and locally elsewhere. There was a brief reaction to warmer in the Northwest at the beginning of the third week, followed by another widespread temperature drop. Temperatures remained above only in the extreme Southeast; elsewhere they ranged from 8° to 20° below normal. Minima of 0° or below occurred in the Northeast, the Lake region, and the middle Mississippi Valley. Abnormally cold weather obtaining the second and third weeks was followed by a return to decidedly warmer from the Great Plains eastward. The fourth week averaged above normal except in the Rocky Mountain region and the Pacific coast; some parts of Utah and Arizona were nearly 10° subnormal. East of the Mississippi, and in the middle and upper Mississippi and Missouri Valleys, the last few days were above normal. Temperatures continued low in parts of the mountain regions and the Southwest.

Precipitation was unevenly distributed. The first week was generally dry, although a few local areas had more than normal. The second week more abundant rains fell; Birmingham, Ala., reported an excess of more than 5 inches. The third week's precipitation was moderate, except along the Pacific coast, in the Southwest, and in Gulf and South and Middle Atlantic States. The heaviest falls occurred in the Northwest, and along the Atlantic coast from Virginia to Alabama. Precipitation during the fourth week was heavy in parts of the Gulf States, Lake region, Mississippi Valley, and along most of the Pacific coast. Bentonville, Ark., had a total of 6.6 inches. The last few days had heavy rainfall in parts of the Gulf States and the Mississippi and Ohio Valleys; it was light to moderate in the Lake region and along the Atlantic coast; elsewhere, except in the far Northwest, rainfall was scanty. In California, snowfall exceeded the normal generally, with the greatest excesses in the southern mountains, and in Louisiana and Virginia amounts were three times the normal; West Virginia also had an excess. At Washington, D.C., the 12-inch fall on the 17th set a new 24-hour December record, and the snowstorm of the 12th–13th, at Yuma, Ariz., was the first since the beginning of records. Atlantic City, N.J., reported the heaviest December snowfall in 28 years.

TORNADOES, 1932

As customary in these reports from 1916 onward, the tornadoes of the year are individually described. A tabular style of presentation is used and the grouping by States again followed with the several tornadoes of each State arranged chronologically. The information has been furnished chiefly by the section directors of the bureau, and descriptions of many of the tornadoes have already been printed in the monthly section reports or in the Monthly Weather Review, while almost all of them were listed in the Review's table, Severe Local Storms. Owing to the receipt of additional information, some differences in details from the Review's description will be found in the table now printed; also a few additional tornadoes have been reported and some storms formerly classified as tornadoes are now thought to have been nontornadic and are omitted from the accompanying compilation. They are included, however, in the small table following to the extent of losses of life and property they caused.

GENERAL SYNOPSIS

During 1932 there were reported 152 tornadoes in 28 States; none occurred in Alaska, Hawaii, Puerto Rico, or the Virgin Islands. The number is considerably larger than in 1931 and has been exceeded in the last 10 years only by 1927, 1930, 1929, and 1928 in the order named.

During March, 46 tornadoes occurred; many more than for any other month. None was reported in November. The number for the other 10 months were: January, 3; April, 11; July, 22; August, 4; September, 7; October, 4; and December, 2. On March 21, 29 tornadoes occurred, and on March 27, 8.

The total loss of life through the 1932 tornadoes was 394; this is 10 times greater than the 1931 figure and has been exceeded only twice in the last 10 years—in 1927, when 540 fatalities were reported, and in 1925 when 794 deaths were attributed to tornadoes. Over 87 percent of the 1932 fatalities occurred in March, and 2 months, January and March, accounted for 94 percent of the total loss of life. From the March tornadoes 344 deaths resulted; the other deaths due to tornadoes were, by months: January, 25; April, 13; May, 3; July, 8; and October, 1.

Property losses that were reported from the tornadoes (crop losses included) were probably much less than the true losses, for it is seldom feasible to secure estimates for all parts of a long track and often no trustworthy reports can be obtained. Estimated losses amount to $8,988,525. This is nearly 3 times the figure reported in 1931 but it has been exceeded 6 times in the last 10 years and is only one fifth as great as the loss reported in 1927. Alabama reported tornado losses of more than $5,000,000, a decidedly greater total than for any other State. Very nearly all of this loss was due to the tornadoes on the evening of March 21, at least two of which continued into adjoining States and caused further damage. Minnesota, Kansas, and Tennessee each had losses exceeding $500,000, while Indiana, Georgia, Iowa, and South Dakota each experienced losses of more than $200,000.

SYNOPSIS BY STATES

The list of States in which 1932 tornadoes occurred with fatal consequences is as follows: Alabama, Florida, Georgia, Kansas, Minnesota, Mississippi, South Carolina, Tennessee, and Texas, or nine States. Tornadoes occurred without loss of life in 19 other States, namely: Arkansas, Colorado, Illinois, Indiana, Iowa, Louisiana, Massachusetts, Michigan, Missouri, Montana, Nebraska, New Mexico, New York, North Dakota, Ohio, Oklahoma, Pennsylvania, South Dakota, and Wisconsin.

In two States there were intense local storms, considered by some to have been tornadoes, yet not so classified when all the information available was studied. These States, with the counties and dates, were: North Carolina, Northampton, October 5–6; and Virginia, Essex, March 28; and Southampton, October 6.

In certain of the 28 States reporting tornadoes there were other storms of puzzling nature, but deemed not tornadoes when the information was scanned: Kansas, Pottawatomie to Jackson County on July 31, and Osborn County, September 11; Ohio, Radnor and Hamilton on March 21–22, and Charleston Center on July 1, and Wisconsin, Horeb (near) on May 6. The storm in Worcester County, Mass., on May 15 is considered by some to have been nontornadic, but it has been classed as a tornado because of the narrow path.

There thus remain 20 States in which no tornadoes occurred in 1932: Arizona, California, Connecticut, Delaware, Idaho, Kentucky, Maine, Maryland, Nevada, New Hampshire, New Jersey, North Carolina, Florida, Rhode Island, Utah, Vermont, Virginia, Washington, West Virginia, and Wyoming.

Summarized geographically, the list of States lacking tornadoes during 1932 include all seven situated wholly west of the Continental Divide; Wyoming, traversed by that Divide; 3

inland States east of the Mississippi River (Vermont, Virginia, and Kentucky); and 9 States of the Atlantic coast (Maine, New Hampshire, Rhode Island, Connecticut, New Jersey, Delaware, Maryland, Virginia, and North Carolina).

BOUNDARY-CROSSING TORNADOES

Six 1932 tornadoes crossed State boundaries and thus appear twice each in the table, where the count would appear to be 158 instead of the actual 152. Under the State names the length of path, deaths, and property losses are entered only for the portions within the respective States; but for convenience there are entered here the total lengths, deaths, and losses when such data are available. The Alabama-Tennessee tornado of March 21 covered 105 miles, caused two deaths, and losses of more than $15,000. The length of the Georgia-Tennessee tornado of the same date is not definitely known. It began in Murray County, Ga., and ended in Polk County, Tenn., immediately across the State line. This tornado caused 15 deaths and losses of $37,000. The Alabama-Georgia tornado of March 27 covered a 95-mile path and caused no fatalities, but resulted in damage of approximately $35,000. The Tennessee-Arkansas tornado of April 25 traversed a path 15 miles long, caused no deaths, but did property damage of $37,000. The Kansas-Nebraska tornado of May 25 traveled 4 miles, resulted in the death of 2 persons, and caused damage exceeding $10,000, while the Kansas-Nebraska tornado of July 4 covered a path 36 miles long, resulted in 7 deaths, and did damage to the amount of $514,000.

SPEED OF ADVANCE

Other than in Alabama, there were hardly any instances when the time of the passing of a tornado was so accurately reported from two or more places that the velocity of advance could be estimated satisfactorily. A speed of 46 miles per hour is indicated for Alabama no. 7, and 40 miles an hour for no. 8, while that of Alabama no. 12 is estimated to have been 55 miles per hour.

ITEMS OF TABLE

Where two county names appear, the word "and" between them indicates that the tornado path began in the first named and was confined to those counties, unless it was one of the few tornadoes that crossed a State boundary, in which case merely the portion within the single State is indicated. The word "to" between names implies that three or more counties were in the path.

The direction of advance is entered usually to the nearest of eight chief compass points. If the tornado changed direction, the average direction is shown.

The length of path for a "not continuous" storm is not the length devastated but the entire distance from first havoc to last. The width of path, in case more than one width was reported, is the average as well as it can be computed.

When no deaths occurred, but it is known that injuries resulted, a reference and footnote are employed. The number of injuries is frequently known only indefinitely, as "several" or "some" (for either of which "several" is used) or "a few." In case there is a definite number of 2 to 4, reference to "a few" is entered, while 5 to 9 are shown as "several."

Therefore "0" deaths without a reference indicates that not even injuries were reported.

Tornadoes of 1932, arranged by States

State, no., and date	Hour	County	Direction of advance	Length of path	Width of path	Deaths	Property losses	Remarks
ALABAMA				*Miles*	*Yards*	*Number*	*Dollars*	
1. Jan. 12	5:15 p.m.	Hale	NE.	6	440	[1] 9	56,000	
2. Do.	6 p.m.	Marengo	NE.	([2])	250	[1] 1	9,000	
3. Do.	8 p.m.	Elmore	NE.	[3] 5	550	[4] 0	12,000	
4. Jan. 29	5 to 6 p.m.	Cullman	SE.	([5])	50	0	200	
5. Feb. 21	10 p.m.	Houston	NE.	5	250	[4] 0	5,000	
6. Mar. 21	3:15 p.m.	Marengo	NE.	17	125	[4] 3		Total deaths 268; injured 1,834; buildings destroyed 2,154, damaged 2,572; property loss $5,000,000. No. 13 continued into Tennessee. No. 15—distinct tornado in Tennessee somewhat later.
7. Do.	3:30 p.m.	Marengo to Chilton	NE.	93	225			
8. Do.	4 p.m.	Tuscaloosa	NNE.	18	150	[1] 37		
9. Do.	4:50 p.m.	Cullman and Marshall	NE.	36	600			
10. Do.	5 p.m.	Shelby and Talladega	NE.	44	350	[1] 14		
11. Do.	5:30 p.m.	Marengo to Shelby	NE.	36	500			
12. Do.	6 p.m.	Perry to Randolph	NE.	110	600	[1] 23		
13. Do.	6:30 to 8:30 p.m.	Cullman and Jackson	NE.	[6] 100	500			
14. Do.	7 p.m.	Hale	NE.	15	350	0		
15. Do.		Lauderdale						

[1] Injuries to 10 or more persons.
[2] Less than a mile.
[3] Path not continuous.
[4] Several persons injured.
[5] Not definitely known; believed to have been short.
[6] Within this State.

Tornadoes of 1932, arranged by States—Continued

State, no., and date	Hour	County	Direction of advance	Length of path	Width of path	Deaths	Property losses	Remarks
				Miles	*Yards*	*Number*	*Dollars*	
ALABAMA—contd.								
16. Mar. 27	Noon	Morgan	NE.		125	[7] 0		
17. Do.	1:45 p.m.	Bibb and Chilton	ENE.	20	80	[7] 7	10,000	
18. Do.	do.	Elmore to Chambers	NE.	[3] [6] 80	350	[4] 0	10,000	Continued into Georgia.
19. Do.	Afternoon	Elmore	ENE.	5	65	[7] 0	2,000	
20. Do.	4 p.m.	Cleburne	E.	6	500	1	500	
21. Mar. 31	4 a.m.	Coffee	E.	4	200	0	2,000	
22. Sept. 1	8 a.m.	Pike	NW.	6	40	0	2,500	
23. Oct. 31	11:30 a.m.	Houston	NE.	4	350	[7] 1	32,000	
ARKANSAS								
1. Mar. 16	8:30 p.m.	Fulton	NE.			0	1,500	
2. Do.	9:30 p.m.	Pulaski	E.	2	100	[4] 0	57,000	
3. Apr. 25	9 a.m.	Mississippi	NE.	5	(9)	0	35,000	May have continued into Tennessee.
4. Oct. 4	2:30 a.m.	Jefferson	NE.		880	0	3,000	
5. Dec. 24	12:30 a.m.	Jefferson and Lonoke	NE.	11	(9)	[7] 0	40,000	
COLORADO								
1. Apr. 20	Afternoon	Denver		(4)	50	0	500	
2. May 25	1:30 p.m.	Washington			55	0	(11)	
3. June 10	1:45 p.m.	El Paso	SSE.	(4)	(9)	[7] 0	50,000	
4. July 19	1:10 p.m.	Denver		(4)	25	0	2,500	
FLORIDA								
1. May 19	10:48 a.m.	Escambia				[4] 1	(5)	
2. Oct. 31	7:50 p.m.	Liberty	NE.	(4)	100	0	(5)	
GEORGIA								
1. Mar. 21	7:15 p.m.	Whitfield			440	0	6,000	
2. Do.	7:30 p.m.	Bartow	NE.		300	9	38,000	
3. Do.	do.	do.	NE.		200	3	30,000	
4. Do.	7:45 p.m.	Bartow and Pickens	NE.		440	3	16,000	
5. Do.	do.	Floyd			440	1	12,000	
6. Do.	8 p.m.	Murray	NE.		440	8	17,000	Continued into Tennessee.
7. Do.	do.	Cherokee	NE.		200	1	15,000	
8. Do.	do.	Baldwin	NE.		(9)	1	25,000	
9. Do.	Night	Rabun			(9)	2	15,000	
10. Mar. 22	1:45 a.m.	Clark and Madison	NE.		175	12	60,000	
11. Mar. 27	6 p.m.	Haralson				1	25,000	
12. Do.	6:15 p.m.	Heard and Coweta	NE.	[3] [6] 15		[7] 0	25,000	Continuation of Alabama no. 18.
13. Apr. 26		Berrien	NE.			5	2,000	Tornado character doubtful.
14. Apr. 30	3 p.m.	Sumter	NE.			0	3,000	Do.
15. Oct. 31	do.	Grady	NE.		100	[7] 0	20,000	
ILLINOIS								
1. Mar. 21	do.	Saline	NE.	[3] 6	15	0	10,000	
2. Do.	5 p.m.	Jasper	NE.	7	100	[10] 0	1,500	
3. Do.	5:30 p.m.	Crawford	NE.	1	25	0	6,000	
4. May 6	6:35 p.m.	Marshall	NE.	2	440	[10] 0	10,000	
INDIANA								
1. Mar. 21	6:15 p.m.	Vanderburg	NE.			0	200,000	
2. Apr. 25	Afternoon	Boone				0	300	
3. July 7	9:30 a.m.	Miami	SE.	4	35	0	2,500	
4. Do.	12:30 p.m.	Greene	SE.	5	880	0		
5. Do.	do.	Jennings	ESE.	2	235	[10] 0	184,000	
IOWA								
1. May 25	5 p.m.	Page	NE.	4	100	0	1,000	
2. Do.	10 p.m.	Crawford and Ida	NE.	9	66	0	15,000	
3. Do.	10 to 10:30 p.m.	Crawford and Sac	NE.	15	50	0	25,000	
4. June 2	5:30 p.m.	Page	NE.	2	100	0	3,000	
5. June 8	3:10 a.m.	Mills	NE.	2	880	0	2,000	
6. June 13	3 p.m.	Buena Vista	NE.	1	33	0	500	
7. Do.	Afternoon	Worth	E.	18		0	5,000	
8. June 17	7 p.m.	Black Hawk	S.	9	233	0	4,000	
9. Do.	7:30 p.m.	Madison	E.	(2)	(9)	0	75	
10. Do.	9 p.m.	Muscatine	NE.	6	133	0	6,000	
11. June 29	7 p.m.	Clayton	E.			0	500	
12. July 6	4 p.m.	Ida	E.	(2)	(9)	0	5,000	
13. July 9	7 p.m.	Lyon and Osceola	E.	36		0	55,000	Distinct tornado in Minnesota on this day.
14. Do.	8 p.m.	Emmet	NE.	2		0	10,000	
15. Sept. 12	Afternoon	Brenner	NE.	1	25	0	3,000	
16. Do.	5:15 p.m.	Jones	NE.	5	440	0	75,000	
KANSAS								
1. Mar. 29	5 p.m.	Scott	SW.			0	(11)	
2. Mar. 31	10 a.m.	Elk	NE.			0	(11)	
3. May 8	6:30 to 7:30 p.m.	Wabaunsee	E.	10	50	0	2,500	

[1] Injuries to 10 or more persons.
[2] Less than a mile.
[3] Path not continuous.
[4] Several persons injured.
[5] Not definitely known; believed to have been short.
[6] Within this State.
[7] A few persons injured.
[8] Considerable.
[9] Narrow.
[10] One person injured.
[11] Negligible.

Tornadoes of 1932, arranged by States—Continued

State, no., and date	Hour	County	Direction of advance	Length of path	Width of path	Deaths	Property losses	Remarks
KANSAS—contd.				*Miles*	*Yards*	*Number*	*Dollars*	
4. May 15	4:30 p.m.	Wabaunsee	E	[7]	440	0	3,000	
5. May 25	3:30 p.m.	Rawlins	E	[8] 2	110	2	10,000	Continuation of Nebraska no. 1.
6. June 1	4:30 p.m.	Sheridan	E	6	100	0	10,000	
7. Do	5:30 p.m.	Rawlins	NE	3	55	0	1,000	
8. June 2	do	Saline	ESE	8	[9]	0	[11]	
9. Do	do	do	E	7	[9]	0	[11]	
10. June 4	4 p.m.	Morton and Stanton	NE	50	800	0	35,000	
11. June 17	6 to 6:30 p.m.	Nemaha and Brown	SE	[3] 18	880	0	25,000	
12. June 19	4:20 p.m.	Osage		1	300	0	100	
13. Do	11:45 p.m.	Montgomery	E	1	[9]	0	1,500	
14. July 4	4:15 to 5:15 p.m.	Washington	SE	[6] 28	880	5	500,000	Continuation of Nebraska no. 4.
15. Do	5 p.m.	Barton	SE	[5]	800	0	[11]	
16. July 6	7:15 p.m.	Phillips	SE	4	220	0	2,500	
17. July 23	1:30 p.m.	Saline		1	200	0	250	
18. Aug. 6	5 p.m.	McPherson	SE	8	2,640	0	2,000	
19. Sept. 21	2:15 p.m.	Dickinson	SSE	1	167	0	1,000	
LOUISIANA								
1. June 25	3:30 p.m.	Caddo	NE	3	25	0	1,000	
2. Sept. 19	1:15 p.m.	West Baton Rouge	SE	8		0	[5]	
MASSACHUSETTS								
1. May 15	3 p.m.	Worcester	NE	[3]	33	0	500	Tornado character somewhat doubtful.
2. June 27		Norfolk				0	7,000	
MICHIGAN								
1. Feb. 11	5 p.m.	Shiawassee	ENE	2	100	0	5,000	
2. June 26		Branch				0	[11]	
3. Sept. 19	5:10 p.m.	Menominee			40	0	300	
MINNESOTA								
1. July 9	6:50 p.m.	Brown and Watonwan	SE	[3] 15		[4] 0	500,000	
2. July 27	6:20 p.m.	Meeker and Wright	SSE	[3] 16	200	[1] 1	200,000	
MISSISSIPPI								
1. Jan. 12	4:30 p.m.	Monroe				[1] 3	25,000	
2. Mar. 21		do				0	[12]	
3. Do		Tallahatchie				0	[12]	
4. Do		Holmes				0	[12]	
5. Mar. 27	9:40 a.m.	Claiborne		2	25	[7] 0	[12]	Do.
6. Apr. 25	6 a.m.	Simpson			100	0		
7. Apr. 29	10:20 a.m.	Pike			100	0		
8. Do	4 to 5 p.m.	Prentiss			100	2		
MISSOURI								
1. June 9	3 p.m.	Buchanan				0	[11]	
2. June 13	8 to 8:30 p.m.	do	NE	[3] 7		0	8,000	
MONTANA								
1. Aug. 23	12:20 p.m.	Fergus	N		660	0	5,000	
NEBRASKA								
1. May 25	3 to 3:30 p.m.	Hitchcock	E	[6] 2	110	0	[11]	Continued into Kansas.
2. Do	8 p.m.	Madison	E	[3] 2	33	0	1,500	
3. June 9	4 p.m.	Garden	NE	[1]	16	[10] 0	[11]	
4. July 4	4:15 to 5:15 p.m.	Thayer	SE	[6] 8	880	[7] 2	14,000	Do.
NEW MEXICO								
1. June 10	6:35 p.m.	Curry	SE	[2]	150	0	15,000	
2. July 10	6:30 p.m.	Quay	NE	[4]	[2]	0	1,200	
NEW YORK								
1. July 1	12:27 p.m.	Monroe	E	18	440	[1] 0	100,000	
NORTH DAKOTA								
1. June 30	Evening	McKenzie		[2]	[2]	0	5,000	
OHIO								
1. Jan. 26	10:30 p.m.	Franklin	NE	[3]	20	[10] 0	3,500	Tornado character somewhat doubtful.
2. July 10	3 p.m.	Summit					60,000	
3. Do	3:30 p.m.	Pike					[11]	
4. Aug. 29	Afternoon	Muskingum	E		880		[12]	

[1] Injuries to 10 or more persons.
[2] Less than a mile.
[3] Path not continuous.
[4] Several persons injured.
[5] Not definitely known; believed to have been short.
[6] Within this State.
[7] A few persons injured.
[8] Considerable.
[9] Narrow.
[10] One person injured.
[11] Negligible.
[12] Damage occurred—no estimate secured.

Tornadoes of 1932, arranged by States—Continued

State, no., and date	Hour	County	Direction of advance	Length of path	Width of path	Deaths	Property losses	Remarks
OKLAHOMA				*Miles*	*Yards*	*Number*	*Dollars*	
1. May 7		Kay		[5]	[9]	0	[11]	May not have dipped to ground.
2. May 31	6 p.m.	Custer	N	2	440	0		
PENNSYLVANIA								
1. Apr. 26	Afternoon	Monroe		[3]	[9]	0	[11]	Tornado character doubtful.
2. July 2	6 p.m.	Luzerne	SE	6	10	0	10,000	
SOUTH CAROLINA								
1. Mar. 22	A.m.	Laurens to Cherokee	NNE	[3] 15	350	[1] 4	100,000	
2. June 7	6:15 p.m.	Chester	NE	[2]	500	0	3,500	
3. June 10	9:10 p.m.	Abbeville	SE	[2]	25	0	500	
SOUTH DAKOTA								
1. June 7	3 p.m.	Harding	NE			0	1,500	
2. Do	6 p.m.	do	NNE	5	880	0	1,800	
3. June 16	do	Shannon	E		70	0	50,000	
4. July 9	5:50 p.m.	Lincoln	ESE		220	0	75,000	
5. Do	6:20 p.m.	Minnehaha	E			0	150,000	
6. July 26	Afternoon	Lyman		[5]	[9]	0	[11]	
TENNESSEE								
1. Jan. 14	5:30 p.m.	Gibson	NE	8		[1] 10	75,000	
2. Mar. 21	5 to 6:30 p.m.	Louis to Trousdale	NE	90	350	[1] 3	60,000	
3. Do	5:30 to 7 p.m.	Lawrence to Scott	NE	[3] 180	270	[1] 9	120,000	Assumed that Scott County tornado was a continuation.
4. Do	7:22 p.m.	Polk	NE		660	[1] 7	60,000	Continuation of Georgia no. 6.
5. Do	8:50 p.m.	Bradley	NE	[3] 25	100	[1] 1	60,000	
6. Do	Night	Marion	NE	[6] 5		2	15,000	Continuation of Alabama no. 13.
7. April 25	9:30 a.m.	Lauderdale	NE	10	25	[4] 0	2,000	Probably a continuation of Arkansas no. 3.
8. Do	9:30 to 10:10 a.m.	Shelby	ENE	16	200	[1] 6	100,000	
9. Do	1:30 p.m.	Davidson	ENE	10	100	[7] 0	18,000	
TEXAS								
1. Jan. 11	2:30 p.m.	Colorado	NE	2	50	[4] 2	2,000	
2. Do	3:30 p.m.	Harris	NE			[4] 0	30,000	
3. Mar. 3	4:15 a.m.	do	SE		300	[1] 0		
4. Mar. 27	A.m.	Red River				[1] 1		
5. Do	5 a.m.	Rusk	E	3	100	[1] 0	75,000	
6. May 7	10 a.m.	Kaufman	NE	3	880	0	8,000	
7. May 26	4 p.m.	McCullough	NE	[3]	100	0	300	
8. July 17	6:30 p.m.	Chambers	SW	6	880	0	31,000	
9. Aug. 4	4:30 p.m.	Shelby	SE	[3]	500	[10] 0	2,000	
10. Dec. 23	8 p.m.	Hardin	W	1	440	0	25,000	
WISCONSIN								
1. September 19	7 p.m.	Manitowoc	NE		440	0	2,000	

[1] Injuries to 10 or more persons.
[2] Less than a mile.
[3] Path not continuous.
[4] Several persons injured.
[5] Not definitely known; believed to have been short.
[6] Within this State.
[7] A few persons injured.
[8] Considerable.
[9] Narrow.
[10] One person injured.
[11] Negligible.
[12] Damage occurred—no estimate secured.

HAIL, 1932

Information about damaging hail has once more been collected, but no charts to indicate occurrence during 1932 are included in this report. The regular and cooperative stations of the Bureau have furnished the greater part of this information, which was assembled first by the officials in charge at the section centers.

January, February, and November were the months of 1932 in which no hail was reported. Three months had one storm each: On March 21 a hailstorm began in Kentucky and moved into Indiana where damage amounted to $102,000. The stones were unusually large in Evansville, Ind., where most of the losses occurred. One hailstorm, which caused only slight damage, was reported in California, in October. The only hail reported in December caused damage estimated at $1,000 at Salem, Ark.

No damaging hail was reported in New Jersey or Nevada and in most States losses were considerably below $100,000. Alaska had heavy hail in May at Cordova, and at Petersburg in May and June, but no serious damage resulted. The island Territories of Puerto Rico, Virgin Islands, and Hawaii reported no hail. Kentucky, North Dakota, Oregon, Pennsylvania, Washington, and West Virginia suffered hail damage, though estimates were not available. Considerable damage occurred to crops in Sheridan County, Wyo., in June, though no estimate of loss was secured. Damage by hail in Wisconsin during 1932 was comparatively small; none occurred in Maryland and Delaware.

In Iowa the canvass by assessors indicated an aggregate hail loss of $2,077,001. This amount is nearly 51 percent greater than in 1932. The official in charge of the Iowa section reports that, as compared with the damage of a few years ago, that from 1932 would take high rank, for crop values are much less than they were some years ago. Losses in Nebraska are estimated to have exceeded $1,500,000, while damage in New England and Oklahoma is placed at more than $500,000 each. The sum of estimates for damaging hailstorms in Kansas was slightly more than $700,000, and in Montana the hail losses paid by insurance agencies amounted to more than $300,000.

No hailstorm of 1932 compares in length of path with the Kansas storm of May 4, 1931 (100 miles), or the Montana storm of August 7, 1931 (250 miles). Likewise, no single storm of 1932 compares in damage with the Kansas storm of May 4, 1931, or the Connecticut storm of July 22–23, 1931, each of which resulted in damage estimated at $1,500,000. The Kansas storm of September 11, 1932, caused damage of $25,000 over a path 3 miles wide and 50 miles long. The Kansas-Nebraska storm of August 6, 1932, affected a path from 1 to 6 miles wide and about 62 miles long; hail damage in Kansas from this storm was estimated at $350,000, and in Nebraska at $150,000.

LOSSES FROM WINDSTORMS, 1932

For the seventeenth consecutive year statistics have been collected, chiefly through the field-service officials of the Bureau, of the losses of property and life resulting from all classes of severe winds except those that were considered to have been tornadoes. The accompanying table shows the results; the amounts presented are merely estimates, and frequently it was not feasible to make even a rough estimate, so that a reference is substituted. In nearly all instances where such references appear they stand for comparatively small losses.

Losses from windstorms, other than tornadoes, by months and sections, 1932

[Figures, except in last column, indicate dollars]

Section	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Number of lives lost
Alabama	[1] 2,600	15,000	(2)	[1] 1,800			150		[1] [3] 135,000				[1] 154,550	2
Alaska														
Arizona			(2)				[1] 500	[1] 2,500	(2)	(2)			[1] 3,000	1
Arkansas		3,000	17,575	300	6,000				500			11,000	38,375	
California			(2)	(2)					(2)		(2)	(2)	(2)	
Colorado	1,000	[1] 500		(2)	1,000	(2)	(2)	(2)					[1] 2,500	3
Florida			[1] 13,500					[1] 101,000	[1] 2,000	30,000	(2)		[1] 146,500	1
Georgia	(2)		18,000			(2)							[1] 18,000	1
Hawaii														
Idaho					(2)		(2)						(2)	1
Illinois	[1] 34,000	[1] 35,000	21,200		(2)	[1] 67,000	[1] 14,200	500	[1] 2,700				[1] 174,600	
Indiana	12,600	3,500	95,500	300		(2)	[1] 500	(2)				[1] 100	[1] 112,500	
Iowa			2,100		30,815	132,450	135,000	15,000	15,000				330,365	
Kansas	(2)		(2)	(2)		115,000	4,500	[1] 60,000	[1] 21,000	200			[1] 200,700	1
Kentucky	(2)		50,000	[1] 40,000	5,000								[1] 95,000	2
Louisiana					3,000		620	100					3,720	
Maryland-Delaware			[1] 13,000		(2)		(2)				[1] 10,000		[1] 23,000	
Michigan					4,000	5,000							9,000	7
Minnesota						(2)							(2)	
Mississippi	(2)									(2)			(2)	
Missouri			(2)			[1] 5,000	[1] 7,500		[1] 2,600				[1] 15,100	1
Montana	90,000			200	1,000	(2)	50,000	5,000	1,000		500		[1] 147,700	
Nebraska				100	6,500								6,600	
Nevada														
New England			[1] 50,000		50,000	1,000	15,000		1,000,000		115,000		[1] 1,231,000	4
New Jersey			(2)								[1] 350,000		[1] 350,000	
New Mexico		(2)	10,000	(2)		(2)							[1] 10,000	
New York	(2)			[1] 4,000	(2)					70,000	(2)		[1] 74,000	1
North Carolina		5,000	750,000		5,000		15,000			35,000	50,000		860,000	1
North Dakota					(2)	(2)							(2)	
Ohio	[1] 1,350	[1] 50,000	[1] 85,000	(2)			[1] 256,000	(2)				(2)	[1] 392,350	4
Oklahoma		20,200			1,200	29,400	750		17,500				69,050	
Oregon														
Pennsylvania			(2)				(2)				(2)		(2)	4
Puerto Rico									30,000,000				30,000,000	225
South Carolina			100,000		46,000		10,000						156,000	
South Dakota							(2)	(2)					(2)	
Tennessee	(2)		60,000		3,000		[1] 6,000						[1] 69,000	
Texas	100	(2)			900	34,000	1,200	7,500,000				250	7,536,450	41
Utah				(2)			(2)						(2)	
Virginia			127,500				16,000		1,500				145,000	3
Virgin Islands									10,000				10,000	
Washington	15,000		6,000				(2)				(2)	100,000	121,000	2
West Virginia			4,000			3,000							7,000	
Wisconsin		3,000			9,000	35,000	83,200			15,000		100	145,300	1
Wyoming						(2)							(2)	
Total													[2] 57,360	306

[1] Losses not readily estimated in addition to amount stated. [2] Losses occurred; no estimate secured. [3] Aug. 31–Sept. 1.

Deaths and fire losses caused by lightning, also havoc and loss of life caused by floods of streams, are omitted from the table, even though high winds were a feature of the electrical storm or the storm that caused the downpour. When hail or beating rain or both accompany the strong wind, or, in the colder months, sleet, glaze, or heavy snow, to aid in causing damage, an effort is made to estimate what share of the total loss was due to wind.

The number of deaths attributed to windstorms other than tornadoes in 1932 was 306, as compared with 17 in 1931. The total losses caused by these storms in 1931 was less than $8,000,000—that of 1932 was considerably over $42,000,000, with Puerto Rico reporting nearly three fourths of the entire total. Losses in Texas from the August hurricane amounted to over $7,000,000.

August and September were the months of greatest loss of life and property damage; six tropical disturbances were charted during these 2 months.[1] The tropical storm of August 12–14, in the Gulf of Mexico, moved inland over Brazoria County, Tex., on the night of the 13th, attended by winds of hurricane force. Property losses in Texas from this storm were placed at $7,500,000 and at least 40 deaths resulted, mostly in Brazoria County. The "San Ciprian" (in Puerto Rico the disturbances are named for the saint's day on which they occur) hurricane of September 26–27, 1932, caused 225 deaths, mostly from collapse of buildings, and a property loss of $30,000,000.

In New England winds of gale force caused damage estimated at $1,000,000 on September 8–9 along the Massachusetts and Rhode Island coasts. A storm in Florida on November 26–30 caused considerable property loss along the east coast in the vicinity of Jacksonville; damage by wind in this storm was comparatively light, most of the destruction being caused by high tides.

SUMMARY OF STATIONS IN OPERATION DURING THE YEAR 1932

Taking two observations daily:	
All elements	173
Temperature, rain, wind, and weather	40
Taking one observation daily:	
All elements	30
Temperature, rain, wind, and weather	28
Climatological and cotton	1
Meteorological and river	1
Meteorological and storm warning	4
Cotton	114
Cotton and cattle	11
Sugar and rice	5
Cotton and river	28
Cotton and rainfall	55
Cotton, sugar and rice, and river	2
Cotton, fruit, and cattle	2
Cotton, rainfall, and cattle	5
River	635
Rainfall	302
River, rice, and fruit	1
Sugar and rice and river	1
River and rice	1
River and airway	1
Corn and wheat	157
Taking one observation daily—Continued.	
Corn and wheat and river	14
Corn and wheat and rainfall	38
Corn and wheat and airway	1
Corn and wheat and fruit	1
Cranberry	11
Fruit	17
Fruit and cotton	4
Cattle	37
Cattle and snowfall	8
Tobacco	6
Alfalfa and cattle	1
Snowfall	104
Snowfall and evaporation	3
Airway	368
Airway and snowfall	1
Storm warning	125
Storm warning and airway	2
Airways and second-order	7
Total paid stations	2,337
Cooperative stations (about)	[2] 5,000
Grand total	7,337

[1] See pp. 177–179, M.W.R., 1932.

[2] 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.

SUNSHINE, 1932

The following table gives for 163 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 1 hour after sunrise and for about 1 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 3.

Sunshine, 1932

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.	88	30	135	44	206	56	238	59	351	77	311	68
Alpena, Mich.	62	22	133	44	166	45	288	71	282	61	365	78
Amarillo, Tex.	195	62	195	61	267	72	293	75	344	79	338	78
Apalachicola, Fla.	179	55	184	57	238	64	270	70	334	79	280	66
Asheville, N.C.	142	46	169	53	214	58	256	65	284	65	319	73
Atlanta, Ga.	178	56	187	59	264	71	266	68	283	65	272	63
Atlantic City, N.J.	102	33	166	53	186	50	250	63	270	61	267	60
Augusta, Ga.	217	68	180	56	274	74	294	75	328	76	262	61
Austin, Tex.	137	42	143	44	243	65	256	66	292	69	303	72
Baker, Oreg.	80	28	151	50	142	38	222	55	270	59	360	77
Baltimore, Md.	121	40	169	54	243	66	273	69	302	68	276	62
Binghamton, N.Y.	75	25	99	32	95	26	144	36	196	43	178	39
Birmingham, Ala.	139	44	160	50	223	60	289	74	314	73	334	77
Bismarck, N.Dak.	170	61	206	69	201	54	192	47	263	56	337	71
Block Island, R.I.	78	26	157	51	203	55	225	56	282	63	262	58
Boise, Idaho	128	44	164	54	183	50	286	71	345	75	401	87
Boston, Mass.	96	32	137	44	223	60	257	64	338	75	291	64
Brownsville, Tex.	98	30	158	48	192	52	196	51	270	65	296	72
Buffalo, N.Y.	71	24	161	53	170	46	220	55	295	65	352	77
Burlington, Vt.	64	22	138	45	211	57	179	44	289	63	266	58
Canton, N.Y.	81	28	123	41	221	60	172	42	265	57	266	57
Cape Henry, Va.	136	44	182	58	226	61	270	68	241	55	308	70
Charles City, Iowa	109	37	172	56	182	49	208	52	286	63	271	59
Charleston, S.C.	201	63	182	57	259	70	327	84	330	77	272	63
Charlotte, N.C.	184	59	206	65	277	74	306	78	347	80	331	76
Chattanooga, Tenn.	116	37	170	54	200	54	254	65	328	75	320	74
Cheyenne, Wyo.	208	70	244	79	276	75	268	67	278	62	317	70
Chicago University, Ill.	93	31	159	52	184	50	262	65	279	62	300	66
Cincinnati, Ohio	138	45	181	58	187	50	240	60	336	76	287	64
Cleveland, Ohio	80	27	109	36	142	38	237	59	327	72	344	76
Columbia, Mo.	128	42	177	57	223	60	261	66	345	78	324	73
Columbus, Ohio	98	33	138	44	138	37	216	54	312	70	296	66
Concordia, Kans.	156	51	168	54	237	64	239	60	342	77	322	71
Dallas, Tex.	178	56	157	49	271	73	262	67	287	67	325	76
Dayton, Ohio	102	34	148	48	157	42	246	62	331	74	319	71
Del Rio, Tex.	179	55	135	41	231	62	205	53	242	57	274	65
Denver, Colo.	203	68	248	80	246	66	234	59	287	64	317	71
Des Moines, Iowa	121	41	184	60	205	55	228	57	315	70	296	65
Detroit, Mich.	40	14	105	34	125	34	235	59	277	61	289	64
Devils Lake, N.Dak.	162	59	178	60	221	60	218	53	308	65	352	74
Dodge City, Kans.	172	56	208	66	271	73	282	71	376	85	315	71
Dubuque, Iowa	70	24	158	51	188	51	239	60	297	66	299	66
Eastport, Maine	120	42	173	57	194	52	219	54	302	65	258	55
Elkins, W.Va.	116	38	142	45	129	35	219	55	270	61	280	63
Ellendale, N.Dak.	154	54	199	66	251	68	216	53	287	62	374	79
El Paso, Tex.	219	69	166	52	304	82	350	90	372	87	364	85
Erie, Pa.	48	16	92	30	112	30	205	51	247	55	285	63
Escanaba, Mich.	86	30	143	47	171	46	238	58	230	50	319	68
Eureka, Calif.	151	51	214	69	202	55	223	56	251	56	323	71
Evansville, Ind.	118	39	171	55	217	59	232	58	334	76	313	71
Fairbanks, Alaska	57	35	146	59	258	71	372	81	357	61	360	56
Fort Smith, Ark.	151	48	150	47	181	49	253	64	290	67	262	60
Fort Wayne, Ind.	97	33	141	45	160	43	244	61	309	69	340	75
Fresno, Calif.	192	62	214	68	332	89	357	90	397	91	439	100
Galveston, Tex.	158	48	170	52	240	64	272	70	307	73	324	77

Sunshine, 1932—Continued

Stations	July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Albany, N.Y.	367	79	338	79	274	73	145	42	130	44	122	43	2,705	58
Alpena, Mich.	369	78	320	74	263	70	120	35	106	37	94	34	2,568	54
Amarillo, Tex.	397	90	369	89	276	74	304	87	258	83	186	61	3,422	76
Apalachicola, Fla.	301	70	203	50	198	54	233	66	192	60	138	43	2,750	61
Asheville, N.C.	320	72	265	63	215	58	196	56	182	59	95	32	2,657	58
Atlanta, Ga.	284	65	204	49	220	59	219	62	171	55	84	27	2,632	58
Atlantic City, N.J.	278	61	272	64	213	57	183	53	132	44	165	56	2,484	55
Augusta, Ga.	341	78	262	63	214	58	228	65	186	59	100	32	2,886	64
Austin, Tex.	346	81	271	66	216	58	282	79	242	76	104	33	2,835	63
Baker, Oreg.	398	84	351	81	348	93	232	68	102	35	166	60	2,822	61
Baltimore, Md.	324	72	336	79	282	76	188	54	194	64	150	51	2,858	63
Binghamton, N.Y.	224	49	239	56	186	50	100	29	92	31	87	31	1,715	37
Birmingham, Ala.	328	75	326	79	262	70	228	65	192	62	74	24	2,869	63
Bismarck, N.Dak.	377	79	268	61	260	69	148	44	122	44	157	59	2,701	60
Block Island, R.I.	341	74	332	78	255	68	201	59	132	45	124	43	2,592	56
Boise, Idaho	429	92	402	93	365	97	259	76	104	36	138	50	3,204	69
Boston, Mass.	343	74	339	79	268	72	174	51	165	56	150	53	2,781	60
Brownsville, Tex.	332	79	308	76	213	58	242	68	250	77	93	29	2,648	59
Buffalo, N.Y.	299	64	323	75	273	73	154	45	117	40	102	36	2,537	54
Burlington, Vt.	260	55	277	64	216	58	99	29	90	31	65	23	2,154	46
Canton, N.Y.	266	56	304	70	243	65	127	37	140	49	77	28	2,285	49
Cape Henry, Va.	388	87	334	80	286	77	245	70	190	62	165	55	2,971	66
Charles City, Iowa	368	79	266	62	311	83	132	39	136	47	153	54	2,594	57
Charleston, S.C.	350	80	280	68	253	68	259	74	207	66	185	59	3,105	69
Charlotte, N.C.	358	81	311	75	214	58	256	73	215	69	118	38	3,123	69
Chattanooga, Tenn.	342	77	330	79	269	72	215	61	199	64	72	24	2,815	61
Cheyenne, Wyo.	328	72	330	77	320	86	240	70	190	64	194	67	3,193	72
Chicago University, Ill.	343	74	292	68	265	71	140	41	124	42	140	49	2,581	56
Cincinnati, Ohio	359	79	326	77	246	66	191	55	159	53	126	43	2,776	60
Cleveland, Ohio	313	68	319	74	279	74	145	42	113	38	106	37	2,514	53
Columbia, Mo.	365	81	329	78	279	75	225	65	176	58	136	46	2,968	65
Columbus, Ohio	322	71	315	74	252	68	168	49	126	42	86	30	2,467	53
Concordia, Kans.	353	77	311	73	270	72	239	69	201	67	168	58	3,006	66
Dallas, Tex.	353	81	294	71	222	60	261	74	253	81	145	47	3,008	67
Dayton, Ohio	360	79	319	75	249	67	164	47	123	41	97	33	2,615	56
Del Rio, Tex.	306	72	236	58	142	38	230	65	230	72	128	40	2,538	56
Denver, Colo.	307	68	293	69	309	83	238	69	192	64	183	63	3,057	69
Des Moines, Iowa	353	76	261	61	303	81	169	49	167	57	166	58	2,768	61
Detroit, Mich.	283	61	245	57	242	65	119	35	97	33	105	37	2,162	46
Devils Lake, N.Dak.	357	74	333	75	272	72	144	43	112	40	163	62	2,820	61
Dodge City, Kans.	388	86	340	81	286	77	292	84	248	82	205	69	3,383	75
Dubuque, Iowa	374	81	277	65	301	80	107	31	135	46	144	51	2,589	56
Eastport, Maine	246	52	257	59	214	57	168	49	108	38	155	57	2,414	53
Elkins, W.Va.	282	62	277	65	230	62	170	49	159	53	120	41	2,394	52
Ellendale, N.Dak.	396	83	320	73	287	76	159	47	173	61	192	71	3,008	66
El Paso, Tex.	291	67	297	72	282	76	257	73	287	91	234	75	3,423	77
Erie, Pa.	247	54	274	64	191	51	121	35	98	33	58	20	1,978	42
Escanaba, Mich.	321	68	287	66	277	74	92	27	95	33	137	51	2,396	52
Eureka, Calif.	293	64	274	64	206	55	185	54	107	36	132	46	2,561	56
Evansville, Ind.	344	76	304	72	220	59	221	64	147	48	114	38	2,735	60
Fairbanks, Alaska	349	56	119	23	161	41	86	29	102	54	50	41	2,417	51
Fort Smith, Ark.	308	70	328	79	230	62	240	69	179	58	140	46	2,712	60
Fort Wayne, Ind.	359	78	311	73	251	67	161	47	119	40	112	39	2,604	56
Fresno, Calif.	447	100	420	100	360	97	339	97	274	90	155	52	3,926	86
Galveston, Tex.	341	80	309	76	241	65	292	82	247	77	106	33	3,007	66

Sunshine, 1932—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	38	13	90	29	104	28	246	61	239	53	362	79
Grand Junction, Colo	135	45	195	63	224	60	253	64	362	82	368	83
Grand Rapids, Mich	40	14	131	43	154	42	250	62	254	56	347	76
Green Bay, Wis	77	27	148	49	194	52	256	63	225	49	348	75
Greensboro, N.C	123	40	156	49	206	56	271	69	295	68	295	68
Greenville, S. C	170	54	198	62	273	73	274	70	317	73	262	60
Harrisburg, Pa	99	33	166	53	209	56	273	68	312	70	305	68
Havre, Mont	153	56	179	60	231	63	250	61	350	74	318	66
Helena, Mont	128	46	182	61	186	50	218	53	298	64	290	61
Honolulu, Hawaii	212	62	150	45	216	58	201	53	214	53	250	62
Houston, Tex	126	39	129	40	210	56	221	57	260	61	236	56
Huron, S.Dak	180	62	178	58	176	48	210	52	297	65	342	74
Indianapolis, Ind	126	42	167	54	173	47	247	62	329	74	341	76
Ithaca, N.Y	47	16	84	27	113	30	167	42	247	55	286	63
Jacksonville, Fla	196	61	175	54	238	64	280	72	318	75	232	55
Juneau, Alaska	68	30	61	22	126	35	257	60	144	28	97	18
Kalispell, Mont	77	28	76	25	102	28	176	43	262	56	306	64
Kansas City, Mo	156	51	195	63	253	68	258	65	349	79	322	72
Keokuk, Iowa	120	40	188	60	234	63	262	66	366	82	349	78
Key West, Fla	222	66	278	85	258	69	300	78	286	69	256	62
Knoxville, Tenn	154	49	182	57	237	64	285	72	324	74	284	65
La Crosse, Wis	75	26	151	50	174	47	236	58	257	56	292	63
Lander, Wyo	201	69	237	77	259	70	226	56	251	55	294	64
Lansing, Mich	50	17	139	45	163	44	254	63	295	65	341	74
Lexington, Ky	104	34	167	53	164	44	208	53	318	72	264	60
Little Rock, Ark	150	48	178	56	236	63	284	72	334	77	337	78
Los Angeles, Calif	248	79	193	60	304	82	339	87	270	62	302	70
Louisville, Ky	107	35	144	46	122	33	177	45	272	62	227	51
Ludington, Mich	40	14	113	37	115	31	253	63	272	59	388	84
Lynchburg, Va	117	38	166	53	194	52	252	64	290	66	293	67
Macon, Ga	203	64	180	56	293	79	339	87	342	80	317	74
Madison, Wis	68	23	155	51	172	46	223	55	262	58	326	71
Marquette, Mich	58	21	86	29	109	29	223	54	132	28	257	54
Memphis, Tenn	145	46	206	65	237	64	293	75	345	79	338	78
Meridian, Miss	148	46	159	49	223	60	278	71	283	66	336	79
Miami, Fla	202	61	247	75	240	64	284	74	232	56	248	60
Miles City, Mont	164	58	210	70	173	47	187	46	295	63	302	64
Milwaukee, Wis	87	30	160	52	207	56	271	67	264	58	343	75
Minneapolis, Minn	91	32	158	52	192	52	245	61	256	56	366	78
Mobile, Ala	139	43	131	41	206	55	236	61	284	67	345	81
Modena, Utah	210	69	212	68	292	79	295	74	338	77	350	79
New Haven, Conn	104	35	177	57	248	67	258	65	310	69	280	62
New Orleans, La	137	42	166	51	234	63	296	76	272	64	338	80
New York, N.Y	119	40	174	56	238	64	261	65	310	69	288	64
Norfolk, Va	177	57	199	63	260	70	284	72	260	59	290	66
North Head, Wash	30	11	72	24	62	17	132	32	197	43	192	41
North Platte, Nebr	187	63	213	69	292	79	250	63	347	77	325	72
Oklahoma City, Okla	164	52	164	52	250	67	261	66	339	78	301	69
Omaha, Nebr	121	40	186	60	230	62	235	59	329	73	330	73
Oswego, N.Y	33	11	86	28	142	38	186	46	267	59	293	64
Parkersburg, W.Va	133	44	183	59	185	50	225	57	276	62	252	57
Pensacola, Fla	118	36	163	50	217	58	268	69	265	63	327	78
Peoria, Ill	106	36	172	56	210	57	248	62	334	74	332	73
Philadelphia, Pa	105	35	154	49	198	53	269	67	311	70	293	65
Phoenix, Ariz	256	81	192	60	327	88	335	86	405	94	390	91

Sunshine, 1932—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
Grand Haven, Mich	361	78	301	70	254	68	89	26	113	39	60	22	2, 257	47
Grand Junction, Colo	320	71	338	80	325	87	271	78	201	67	153	52	3, 145	69
Grand Rapids, Mich	356	77	327	76	252	67	106	31	106	36	70	25	2, 393	50
Green Bay, Wis	330	70	273	63	292	78	106	31	123	43	145	53	2, 517	54
Greensboro, N.C	319	72	268	64	217	58	214	61	164	53	122	40	2, 650	58
Greenville, S.C	313	71	255	61	206	56	225	64	197	64	100	33	2, 790	62
Harrisburg, Pa	360	79	351	83	272	73	138	40	151	51	94	32	2, 730	59
Havre, Mont	373	76	340	76	283	75	144	43	146	53	135	53	2, 902	63
Helena, Mont	370	77	360	82	337	89	187	55	147	52	123	46	2, 826	61
Honolulu, Hawaii	248	60	275	69	266	72	242	67	153	46	215	64	2, 642	59
Houston, Tex	264	61	246	60	242	65	274	77	235	74	94	30	2, 537	56
Huron, S.Dak	381	81	303	70	282	75	167	49	137	47	196	71	2, 849	63
Indianapolis, Ind	373	82	320	75	263	71	200	58	139	46	106	36	2, 784	60
Ithaca, N.Y	279	61	307	72	220	59	113	33	91	31	108	38	2, 062	44
Jacksonville, Fla	333	77	273	67	226	61	238	67	170	53	175	55	2, 854	63
Juneau, Alaska	74	14	147	31	24	6	55	17	44	19	47	23	1, 144	25
Kalispell, Mont	384	80	323	73	294	78	113	34	70	25	72	27	2, 255	47
Kansas City, Mo	359	79	322	76	266	71	218	63	210	70	185	63	3, 093	68
Keokuk, Iowa	361	79	295	69	305	82	202	59	190	64	159	55	3, 031	66
Key West, Fla	315	75	264	65	283	77	248	69	202	62	216	66	3, 128	70
Knoxville, Tenn	331	75	275	66	247	66	202	58	174	57	95	31	2, 790	61
La Crosse, Wis	376	80	263	61	293	78	110	32	111	38	142	51	2, 480	53
Lander, Wyo	339	73	334	77	295	79	198	58	125	43	147	52	2, 906	64
Lansing, Mich	356	77	308	72	233	62	102	30	121	41	92	33	2, 454	52
Lexington, Ky	327	73	290	69	233	62	202	58	157	52	118	40	2, 552	56
Little Rock, Ark	334	76	362	87	255	69	245	70	181	58	119	39	3, 015	66
Los Angeles, Calif	324	74	313	75	237	64	248	71	271	87	226	73	3, 275	74
Louisville, Ky	339	75	270	64	202	54	189	55	124	41	84	28	2, 257	49
Ludington, Mich	382	81	324	75	306	82	118	35	112	39	79	28	2, 502	52
Lynchburg, Va	344	77	328	78	245	66	213	61	154	50	116	39	2, 712	59
Macon, Ga	364	83	288	70	273	74	241	68	187	60	100	32	3, 127	69
Madison, Wis	385	83	284	66	295	79	112	33	102	35	132	47	2, 516	54
Marquette, Mich	243	51	222	51	229	61	58	17	54	19	116	43	1, 787	38
Memphis, Tenn	342	77	347	83	224	60	207	59	175	56	113	37	2, 972	65
Meridian, Miss	303	70	272	66	221	60	214	61	210	67	72	23	2, 719	60
Miami, Fla	352	84	254	63	264	71	254	71	228	70	227	70	3, 032	68
Miles City, Mont	388	82	348	79	277	74	158	47	126	44	150	56	2, 778	61
Milwaukee, Wis	384	83	290	67	282	75	132	38	116	40	146	52	2, 682	58
Minneapolis, Minn	399	85	315	72	297	79	120	35	126	44	160	58	2, 725	59
Mobile, Ala	337	78	278	68	245	66	253	72	204	64	85	27	2, 743	60
Modena, Utah	339	75	369	88	298	80	305	88	272	90	215	72	3, 495	78
New Haven, Conn	338	74	302	71	234	63	178	52	170	57	155	54	2, 754	60
New Orleans, La	320	75	265	65	246	66	241	68	198	62	75	24	2, 788	61
New York, N.Y	356	78	324	76	238	64	182	53	178	60	158	55	2, 826	62
Norfolk, Va	333	74	280	67	259	69	228	66	169	55	119	40	2, 858	63
North Head, Wash	170	36	145	33	210	56	84	25	74	26	94	35	1, 462	32
North Platte, Nebr	322	70	341	80	299	80	240	70	190	64	144	50	3, 150	70
Oklahoma City, Okla	381	86	324	78	248	67	257	73	252	81	187	61	3, 128	69
Omaha, Nebr	344	75	302	71	291	78	211	61	195	66	175	61	2, 949	65
Oswego, N.Y	288	62	312	73	236	63	105	31	82	28	73	26	2, 103	44
Parkersburg, W.Va	279	62	296	70	246	66	149	43	119	39	68	23	2, 411	53
Pensacola, Fla	289	67	229	56	186	50	210	59	168	53	69	22	2, 509	55
Peoria, Ill	356	78	302	71	286	76	198	57	174	59	159	55	2, 877	63
Philadelphia, Pa	329	72	316	74	258	69	168	49	177	59	140	48	2, 718	59
Phoenix, Ariz	366	84	347	84	340	92	296	84	285	91	214	69	3, 753	84

Sunshine, 1932—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	113	38	153	49	186	50	265	66	335	75	324	72
Pocatello, Idaho	93	32	170	55	160	43	282	70	318	70	326	71
Port Arthur, Tex	125	38	124	38	242	65	273	70	337	80	350	83
Port Huron, Mich	49	17	135	44	127	34	215	53	273	60	344	75
Portland, Maine	103	36	154	51	207	56	228	56	306	67	273	59
Portland, Oreg	61	22	96	32	104	28	197	48	218	47	341	72
Providence, R.I	130	44	162	53	234	63	252	63	364	80	372	82
Pueblo, Colo	189	62	229	73	277	75	272	69	317	72	328	74
Raleigh, N.C	129	42	160	51	221	59	262	67	266	61	245	56
Rapid City, S.Dak	163	56	242	79	249	67	261	65	290	63	348	75
Reading, Pa	83	28	155	50	178	48	255	64	296	66	278	62
Richmond, Va	120	39	145	46	219	59	299	75	320	72	317	72
Rochester, N.Y	58	20	130	42	145	39	193	48	260	57	312	68
Roseburg, Oreg	56	19	111	36	110	30	192	48	260	57	343	75
Roswell, N.Mex	220	69	228	71	260	70	346	89	334	78	372	87
Sacramento, Calif	166	55	226	72	287	77	280	70	383	86	433	97
St. Joseph, Mo	128	43	185	60	248	67	255	64	355	80	319	71
St. Louis, Mo	125	41	174	56	219	59	265	67	341	77	296	66
St. Paul, Minn	90	32	169	56	184	50	242	60	233	51	330	71
Salt Lake City, Utah	98	33	148	48	141	38	232	58	307	68	355	79
San Antonio, Tex	139	42	153	47	253	68	258	67	312	74	336	80
San Diego, Calif	235	74	179	56	263	71	265	68	266	62	268	63
Sandy Hook, N.J	94	31	155	50	217	58	261	66	303	68	295	66
San Francisco, Calif	190	62	225	72	250	67	296	75	279	63	338	76
San Jose, Calif	182	59	190	60	256	69	266	67	294	67	370	84
San Juan, P.R	231	67	281	84	286	77	244	65	207	51	212	53
Santa Fe, N.Mex	215	69	204	64	260	70	309	78	341	78	351	80
Sault Ste. Marie, Mich	66	23	122	41	164	44	265	65	264	57	382	81
Savannah, Ga	182	57	151	47	243	65	250	64	273	64	233	55
Scranton, Pa	115	38	175	56	186	50	240	60	279	62	274	61
Seattle, Wash	78	28	116	39	93	25	197	48	259	55	278	58
Sheridan, Wyo	188	66	251	83	214	58	238	59	323	70	334	72
Sioux City, Iowa	140	47	206	67	239	64	247	62	313	69	332	73
Spokane, Wash	67	24	149	50	181	49	279	68	320	68	367	77
Springfield, Ill	93	31	156	50	185	50	232	58	336	75	339	76
Springfield, Mo	153	50	190	60	218	59	282	71	345	78	302	69
Tacoma, Wash	42	15	90	30	78	21	136	33	213	46	285	60
Tampa, Fla	223	68	263	81	246	66	312	81	325	77	254	61
Terre Haute, Ind	123	40	184	59	211	57	240	60	322	72	322	72
Toledo, Ohio	79	27	128	42	106	28	219	55	277	61	316	70
Trenton, N.J	93	31	149	48	196	53	248	62	310	69	297	66
Vicksburg, Miss	133	41	139	43	216	58	270	69	266	62	339	80
Walla Walla, Wash	64	23	82	27	114	31	257	63	292	63	387	82
Washington, D.C	105	35	143	46	201	54	249	63	287	65	286	64
Wausau, Wis	50	17	144	47	214	58	266	66	245	53	363	78
Wichita, Kans	146	48	161	51	218	59	233	59	328	74	291	66
Williston, N.Dak	160	58	181	61	204	55	216	53	324	69	318	66
Wilmington, N.C	208	66	187	59	252	68	305	78	302	70	299	69
Winnemucca, Nev	126	42	217	70	190	51	238	60	296	66	348	77
Wytheville, Va	128	41	172	55	183	49	232	59	239	55	263	60
Yakima, Wash	107	38	170	57	195	53	271	66	323	69	412	87
Yankton, S.Dak	104	35	161	53	184	50	196	49	267	59	320	70
Yuma, Ariz	298	94	237	74	357	96	370	95	426	99	416	97

Sunshine, 1932—Continued

Stations	July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Pittsburgh, Pa	336	73	331	78	262	70	126	37	148	50	92	32	2,671	58
Pocatello, Idaho	367	79	363	84	324	86	233	68	140	48	134	48	2,910	66
Port Arthur, Tex	347	81	313	76	261	71	273	77	214	67	103	32	2,962	65
Port Huron, Mich	319	69	306	71	250	67	151	44	107	37	106	38	2,382	51
Portland, Maine	311	66	329	76	249	67	159	47	152	53	143	52	2,614	57
Portland, Oreg	330	69	272	62	302	80	116	34	51	18	100	37	2,188	46
Providence, R.I	401	87	374	87	244	65	191	56	165	56	158	55	3,047	66
Pueblo, Colo	329	73	333	79	300	80	270	78	213	70	202	68	3,259	73
Raleigh, N.C	328	74	215	59	211	57	196	56	173	56	122	40	2,558	56
Rapid City, S.Dak	366	78	343	79	318	85	204	60	146	51	178	64	3,108	68
Reading, Pa	313	69	315	74	243	65	126	36	144	48	122	42	2,508	54
Richmond, Va	338	75	285	68	271	73	200	58	180	59	124	42	2,818	62
Rochester, N.Y	288	62	303	70	257	69	116	34	97	33	82	29	2,241	48
Roseburg, Oreg	351	76	314	73	343	91	180	53	61	21	78	28	2,399	51
Roswell, N.Mex	371	85	323	78	242	65	265	75	283	90	196	63	3,440	77
Sacramento, Calif	444	98	421	99	372	100	334	97	248	82	187	64	3,781	83
St. Joseph, Mo	354	78	308	72	295	79	215	62	198	66	160	55	3,020	66
St. Louis, Mo	342	76	291	69	245	66	227	66	157	52	116	39	2,798	61
St. Paul, Minn	376	80	288	66	286	76	123	36	144	50	152	55	2,617	57
Salt Lake City, Utah	352	77	345	81	336	90	292	85	193	65	176	61	2,975	65
San Antonio, Tex	347	81	296	72	235	64	287	81	253	79	100	31	2,969	66
San Diego, Calif	259	59	254	61	208	56	211	60	246	78	227	73	2,881	65
Sandy Hook, N.J	336	74	315	74	250	67	173	50	149	50	138	47	2,686	58
San Francisco, Calif	340	76	332	79	275	74	268	77	227	75	202	68	3,222	72
San Jose, Calif	391	87	385	92	308	83	267	77	220	72	191	64	3,320	73
San Juan, P.R	241	59	248	63	224	61	211	58	173	51	218	64	2,776	63
Santa Fe, N.Mex	322	72	311	74	283	76	266	76	275	89	190	63	3,327	74
Sault Ste. Marie, Mich	348	73	302	69	298	79	141	42	68	24	71	26	2,491	52
Savannah, Ga	295	68	220	53	174	47	209	59	169	54	146	46	2,545	57
Scranton, Pa	328	72	308	72	228	61	120	35	145	49	90	31	2,488	54
Seattle, Wash	253	52	235	53	247	65	106	31	41	15	91	35	1,994	42
Sheridan, Wyo	396	84	366	84	295	78	172	51	111	39	148	54	3,036	66
Sioux City, Iowa	341	74	308	72	297	79	184	54	159	54	160	56	2,926	64
Spokane, Wash	393	81	355	80	315	83	168	50	75	27	92	35	2,761	58
Springfield, Ill	377	83	330	78	283	76	198	57	171	57	148	51	2,848	62
Springfield, Mo	346	77	367	87	279	75	240	69	186	61	142	47	3,050	67
Tacoma, Wash	246	51	232	53	252	67	100	30	48	17	87	33	1,809	38
Tampa, Fla	326	77	263	65	234	63	258	72	218	68	285	88	3,207	72
Terre Haute, Ind	379	84	312	74	258	69	213	61	168	56	122	42	2,854	62
Toledo, Ohio	334	72	324	76	265	71	139	40	120	41	123	43	2,430	52
Trenton, N.J	352	77	335	79	281	75	190	55	177	59	159	55	2,787	61
Vicksburg, Miss	320	74	337	82	248	67	244	69	220	70	60	19	2,792	61
Walla Walla, Wash	380	80	338	77	302	80	184	54	76	27	107	40	2,583	54
Washington, D.C	347	77	322	76	272	73	172	50	165	55	108	37	2,657	58
Wausau, Wis	365	77	289	66	279	74	87	26	96	33	125	46	2,523	53
Wichita, Kans	361	80	319	76	257	69	239	69	244	80	171	58	2,968	66
Williston, N.Dak	397	82	302	68	284	75	143	42	126	45	164	63	2,819	61
Wilmington, N.C	353	80	312	75	246	66	249	71	196	63	141	46	3,050	68
Winnemucca, Nev	416	91	387	91	345	92	288	84	200	67	158	55	3,209	70
Wytheville, Va	284	64	237	56	210	56	188	54	158	52	115	39	2,409	53
Yakima, Wash	403	84	373	85	348	92	187	55	109	39	157	59	3,055	65
Yankton, S.Dak	323	69	265	61	279	74	218	64	126	43	139	50	2,582	56
Yuma, Ariz	411	94	394	95	367	99	325	92	287	92	255	82	4,143	92

MONTHLY AND ANNUAL EVAPORATION, 1932

The monthly and annual amounts of evaporation during the year 1932 appear below. 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 appeared in the Monthly Weather Review of December 1916, pages 674 to 677.

Monthly and annual evaporation at class A stations (in inches and hundredths) for 1932

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
ALASKA													
Fairbanks					4.01	3.89	3.75	1.53	0.86				
Matanuska								1.69	2.49				
ALABAMA													
Silverhill													
ARIZONA													
Lees Ferry	1.92	2.16	6.89	9.58	11.85	13.08	14.11	12.66	9.60	5.89	3.69	1.74	93.17
Mesa	2.60		5.54	6.56	9.08	9.98	10.38	9.29	7.73	5.12	4.10		
Roosevelt	1.56	2.27	5.20	6.54	9.87	11.41	11.45	9.22	7.66	4.28	2.42	1.71	73.61
Willcox		4.48	6.82	8.86	10.83	12.19	8.40	7.84	7.88	5.87	5.99	3.53	
Yuma (citrus)	4.43	4.54	9.30	11.35	14.73	15.27	16.54	15.81	13.08	8.04	5.98	3.32	122.38
Yuma Valley	4.92	4.57	9.31	10.43	14.24	13.58	14.81	13.44	10.05	6.82	4.74	2.95	109.83
CALIFORNIA													
Alvarado (near)	1.66	2.16	3.79	5.28	6.23	7.43	7.62	7.09	5.15	3.77	2.22	1.25	53.65
Chula Vista	2.86	3.04	5.06	6.45	7.03	7.19	7.17	6.97	5.28	4.40	4.05	2.76	62.26
Fall River Mills		.74	2.75	4.53	7.48	9.98	12.14	11.38	8.72	4.43	1.72		
Oakdale (near)	.98	1.60	3.24	5.21	8.92	12.51	14.42	12.09	8.91	6.49	3.71	1.07	79.13
Tahoe (land pan)					3.46	4.05	5.75	5.69	3.88	2.17			
Lodi	1.21	1.86	4.41	5.77	8.64	10.87	11.84	10.30	7.70	6.00	3.31	1.30	73.21
HAWAII													
Hoaeae (upper)	3.84	3.46	5.37	5.92	6.45	7.44	7.23	6.16	5.82	7.27	4.09	3.83	66.90
Pahala	4.54	4.02	4.79	6.45	6.47				5.00	5.48	4.55	4.30	
IDAHO													
Arrow Rock					5.12	6.82	9.12	8.51	5.62				
Milner Dam				4.55	6.07	6.76	9.48	7.57	5.01	2.65	1.60		
KANSAS													
Tribune				8.97	11.88		14.84	12.94	9.19				
MISSOURI													
Lakeside [1]	1.35	2.15		5.29	7.62	6.31	8.32	7.57	5.48	4.58	2.00		
MONTANA													
Agricultural College					6.30	6.25	9.32	9.10	4.78	2.01			
Malta				4.69	8.25	6.45	8.92	7.84	4.73				
Valier					7.55	5.20	6.97	7.36	3.50	3.22			
NEBRASKA													
Lincoln				6.34	9.03	8.35	12.58	9.63	7.91	5.77			
NEVADA													
Lahontan			3.93		6.03	7.16							
Lamoille				4.28	5.14	6.10	8.93	8.71	5.81	3.68			
NEW MEXICO													
Agricultural College	2.99	4.00	7.63	11.20	13.36	14.22	13.40	12.26	9.42	5.66	4.18	2.50	100.83
Elephant Butte Dam [2]	2.24	4.68	6.20	9.61	11.20	11.86	9.72	8.99	7.87	4.71	3.64	2.23	82.95
Santa Fe	1.83	[3] 2.55	[3] 3.44	7.06	8.81	9.99	9.15	5.59	4.69	2.44			
NEW YORK													
Ithaca [4]					5.24	5.26	5.35	5.67	4.39	2.54			
Albany					5.82	5.40	6.89	5.37	4.31	2.33			
NORTH CAROLINA													
Chapel Hill	1.40	2.07	3.49	4.98	5.22	6.24	6.96	6.06	4.46	2.71	1.64	1.26	46.49
OHIO													
Ohio State University					5.15	5.66	6.11	5.50	3.75	1.91			
Wooster				3.36	4.73	5.47	6.43	5.40	4.23	2.54			
OREGON													
Corvallis				2.45	3.56	5.62	6.42	5.96	4.59				
Fish Lake [5]						5.61	6.73	6.81	5.29				
Warm Springs				5.13	8.38	10.31	14.56	12.32	8.62				

[1] Opened November 1931.
[2] Station affected by trees and shrubs.
[3] Values estimated.
[4] Station reopened May 1932.
[5] Observations resumed after lapse since 1927.

NOTE.—Discrepancies in sums due to disposition of last decimal place.

Monthly and annual evaporation at class A stations (in inches and hundredths) for 1932—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
PUERTO RICO													
San Juan	4.70	5.79	6.56	7.31	5.72	5.79	6.49	6.75	5.36	5.23	4.67	5.62	70.01
TEXAS													
Dilley	2.89	3.34	5.83	6.86	8.44	9.84	10.24	9.89	5.45	4.57	3.52	2.03	72.91
Austin	2.46	2.88	4.89	6.36	6.91	8.36	9.43	7.63	5.03	5.11	3.59	1.40	64.05
UTAH													
Myton					5.18	8.17	8.58	7.23	5.94				
Piute Dam						10.45	10.65	10.40	7.28	3.62			
Salt Lake Airport				6.14	9.62	10.17	13.30	12.67	8.19	4.90			
Sevier Bridge Dam					10.56	12.18		13.80					
Utah Lake				5.65	9.05	8.64	10.58	10.76	6.92	4.12	1.58		
VIRGIN ISLANDS													
St. Croix	5.08	5.45	6.78	6.61	6.69	6.69	6.71	6.80	6.00	5.93	4.58	4.63	71.96
WASHINGTON													
Lake Kachess					3.26	5.60	5.02	4.18	2.28				
Walla Walla			1.78	4.25	5.52	8.23	10.62	9.34	6.35	2.93			
WEST VIRGINIA													
Clarksburg					5.74	6.57	7.33	6.12	4.98	2.64			

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PART III.—ANNUAL METEOROLOGICAL SUMMARIES FOR TWO HUNDRED AND FOUR STATIONS DURING 1932

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 monthly comparative readings are made on the two instruments for purpose of check upon the deterioration of either instrument.

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

(1) Correction for scale error, 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. (However, at a very few stations the elevation of 1900, or the original elevation of a station opened since 1900, has been replaced as the "station elevation" by an actual elevation since established.)

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.

In the pressure columns of this part the values presented are those at the station elevations of the barometer cisterns, which are at various heights above the ground level, but usually less than 100 feet. On the other hand, daily weather maps and most other pressure data issued by the bureau indicate sea-level pressures.

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 and at Honolulu the mean is printed uncorrected. The extremes are determined, wherever possible, from the barograph trace.

Temperature.—The temperature of the air at 8 a.m. and 8 p.m., seventy-fifth meridian time, and at noon, local time, is obtained by the use of the whirled dry-bulb thermometer. The latter is a part of the whirled psychrometer and is mounted in the thermometer shelter adopted in 1885. The means of these observations are given in the columns headed 8 a.m., 8 p.m., and noon, 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 temperatures by 2.

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

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

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

The snow caught and retained in the gage is melted and measured as water. No correction is applied for snow that is lost out of the gage by the eddying action of the wind; consequently in some cases the record is less than would be given if the observer had measured cylinders of snow cut from the spots representing the average snowfall on the ground. When it is known that the catch of the snow gage is markedly at fault, an independent ground measurement is made and used as the official record. The loss of both rain and snow,

caused by high winds, from gages located on the roofs of tall buildings in which some of the regular stations of the Weather Bureau are located is undoubtedly larger than is the case at the cooperative stations, where the gages are located in the open country and near the ground, but this loss does not appear to be sufficient to make the monthly sums derived from these two classes of stations wholly inconsistent with each other.

By the maximum precipitation in 24 hours is meant the greatest measurement for any 24 consecutive hours; it does not refer to the rate of rainfall for 24 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. No record is made of deposits of dew.

The total snowfall column presents the depth as unmelted snow. The month in this instance runs from the last observation of the preceding month to the last of the month itself.

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered by clouds is estimated by the observer at 8 a.m., 8 p.m., and noon, on a scale of 0–10. These observations cannot 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 5-minute periods.

Beginning with January 1, 1932, the Weather Bureau began the practice of applying corrections to all records of wind velocity obtained from rotating cup anemometers. Correction tables for both 3-cup and 4-cup anemometers have been made available to stations and hence values furnished to the public are on a comparable basis, regardless of the particular instrument employed.

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

The number of days with dense fog includes all of those on which fog was dense enough to obscure objects 1,000 feet distant. Fog of less density is recorded as light.

Time.—8 a.m. and 8 p.m., in this part, indicate seventy-fifth meridian time, except in a few instances, where footnotes specify otherwise.

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 almost all stations where a change has been made in the elevation of the barometer since January 1, 1900, a corresponding correction has been applied to the observed reading, thereby reducing all values to the "station, or adopted elevation." The actual elevation and the station, or adopted elevation are identical, except at stations where the barometer has been moved since January 1, 1900; h_t=height of thermometer above ground; h_r=height of rain gage above ground; h_a=height of anemometer above ground.

ANNUAL METEOROLOGICAL SUMMARIES, 1932

Annual meteorological summaries for the year ending December 31, 1932

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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.24	28.77	27.66	38.3	50.8	48.2	55.5	35.1	45.3	75	25	32	33	34	79	55	61	0.193	0.201	0.202	1.68	0.72	T	5.3	5.3	5.0	5.5
February	28.19	28.65	27.79	47.8	62.1	59.2	66.8	45.2	55.9	86	28	40	40	41	77	52	56	.266	.270	.268	3.12	1.80	0.0	6.5	6.5	6.1	6.3
March	28.18	28.72	27.46	42.0	58.6	57.2	64.9	39.0	52.0	88	20	28	27	26	58	33	33	.160	.160	.152	.10	.06	T	4.4	4.1	2.6	4.0
April	28.10	28.52	27.75	56.9	75.5	74.1	80.6	55.4	68.0	93	39	43	43	41	64	35	35	.315	.308	.294	2.67	1.11	.0	4.6	3.5	4.2	4.0
May	28.17	28.42	27.80	62.7	77.1	76.3	81.5	60.4	71.0	90	47	58	57	57	84	52	55	.480	.476	.482	10.99	4.84	.0	4.4	5.5	3.8	4.8
June	28.07	28.28	27.88	71.0	85.3	80.6	90.2	68.9	79.6	99	62	65	65	64	81	52	49	.615	.622	.603	4.13	1.62	.0	5.1	4.7	3.1	4.4
July	28.16	28.40	27.80	73.5	89.5	90.0	93.8	72.2	83.0	100	66	66	66	63	77	48	43	.635	.640	.599	4.49	3.80	.0	3.2	3.3	1.7	2.6
August	28.12	28.30	27.91	73.0	86.9	85.4	91.7	71.8	81.8	105	64	66	65	64	78	51	52	.634	.625	.605	4.05	*4.34	.0	5.5	6.5	5.1	5.6
September	28.23	28.48	27.93	64.5	76.5	73.7	79.6	63.3	71.4	95	58	61	62	63	90	63	71	.547	.556	.586	10.53	5.13	.0	6.3	6.1	5.8	5.9
October	28.21	28.59	27.85	52.6	71.1	66.1	75.2	50.1	62.6	90	36	45	46	47	76	43	51	.313	.336	.338	.34	.13	.0	4.1	3.6	3.3	3.7
November	28.34	28.70	27.85	41.0	60.5	54.6	64.8	38.1	51.4	81	19	29	30	30	62	33	39	.170	.183	.177	.01	.01	T	2.6	2.8	2.1	2.8
December	28.27	28.85	27.92	35.0	47.6	43.3	51.9	31.4	41.6	77	15	30	31	31	82	57	63	.183	.186	.178	4.32	2.67	.3	4.6	5.1	4.7	4.8
Year	28.18	28.85	27.46	54.9	70.1	67.9	74.7	52.6	63.6	105	15	47	47	47	76	48	51	.377	.380	.373	46.43	5.13	.3	4.7	4.7	4.0	4.5

ALBANY, N.Y.

[ϕ= 42°39′ N.; λ=73°45′ W.]

January	30.02	30.53	29.34	33.9	37.7	36.4	42.5	29.4	36.0	-71	16	28	29	29	78	70	74	0.162	0.165	0.166	2.83	0.96	5.3	7.5	7.7	6.1	7.9
February	29.90	30.48	29.42	25.4	30.9	30.7	36.6	21.6	29.1	55	9	20	22	21	78	69	66	.113	.126	.121	1.80	.65	10.5	6.6	5.8	4.6	6.1
March	29.69	30.25	28.61	28.3	34.2	32.3	38.5	24.7	31.6	53	8	20	22	22	71	61	64	.113	.124	.125	2.73	1.73	17.2	5.9	5.1	4.2	5.1
April	29.83	30.35	29.19	41.1	48.7	46.7	54.1	36.0	45.0	77	26	30	31	32	66	54	60	.173	.183	.192	2.05	1.14	T	5.3	5.9	5.1	5.4
May	29.92	30.34	29.35	55.5	66.2	63.9	71.5	49.6	60.6	91	38	43	42	44	63	43	50	.292	.281	.301	1.69	.88	.0	4.1	4.2	4.0	4.0
June	29.78	30.20	29.39	63.7	72.5	69.7	77.1	57.8	67.4	88	41	53	53	55	70	52	62	.424	.426	.456	2.24	.85	.0	3.8	4.5	4.5	4.6
July	29.72	30.00	29.22	67.2	75.8	72.6	80.8	60.9	70.8	91	52	57	55	56	70	51	59	.470	.447	.465	4.66	1.57	.0	4.1	4.8	4.0	4.7
August	29.87	30.23	29.62	66.9	77.6	74.3	81.8	62.1	72.0	92	53	59	59	60	77	53	62	.508	.502	.523	3.30	1.16	.0	3.2	4.2	3.3	3.7
September	29.96	30.42	29.44	58.5	69.9	65.9	74.3	53.8	64.0	91	34	53	52	53	83	54	65	.427	.415	.437	1.73	.59	.0	3.7	4.2	4.3	4.0
October	29.91	30.36	29.46	50.4	58.3	55.5	62.8	47.1	55.0	80	31	45	44	46	83	61	70	.316	.314	.325	4.79	2.89	T	6.9	6.8	5.9	6.5
November	30.11	30.81	29.38	34.0	40.9	39.5	45.7	29.9	37.8	58	9	29	29	29	82	64	65	.175	.178	.172	5.41	1.63	T	5.7	5.9	5.7	5.8
December	30.05	30.59	29.21	28.5	34.6	33.4	39.7	23.9	31.8	63	-7	24	24	26	84	66	75	.147	.145	.158	1.01	.34	6.0	6.1	6.5	5.8	6.6
Year	29.90	30.81	28.61	46.1	53.9	51.7	58.8	41.4	50.1	92	-7	38	38	39	75	58	64	.277	.276	.287	34.24	2.89	39.0	5.2	5.5	4.8	5.4

ALBUQUERQUE, N.MEX.

[ϕ=35°05′ N.; λ=106°38′ W.]

January	25.03	25.50	24.55	21.5	34.5	34.7	40.8	17.9	29.4	56	5	15	17	18	73	47	51	0.084	0.092	0.100	0.45	0.21	4.4	3.7	4.2	3.8	4.4
February	25.03	25.42	24.68	33.3	50.4	52.4	57.0	30.8	43.9	69	15	25	24	24	71	36	35	.138	.133	.133	.40	.30	2.4	4.1	4.4	5.1	4.6
March	24.98	25.35	24.39	32.3	50.8	53.8	57.3	30.4	43.8	74	19	23	23	21	68	37	31	.123	.124	.113	.27	.15	2.4	3.6	4.4	4.2	4.3
April	24.98	25.33	24.59	41.1	64.0	67.5	70.9	39.3	55.1	80	31	25	26	22	53	26	19	.136	.142	.117	.34	.26	.5	3.2	3.5	4.1	3.7
May	25.02	25.25	24.75	50.6	71.8	73.7	77.8	49.0	63.4	87	35	37	30	27	61	24	22	.225	.175	.159	1.41	1.21	.0	1.9	3.0	5.3	3.4
June	24.98	25.18	24.76	58.8	80.5	84.6	87.2	56.1	71.6	95	48	38	35	31	47	21	16	.242	.216	.184	.09	.07	.0	2.2	2.8	4.3	3.2
July	25.10	25.32	24.76	65.2	83.9	82.9	90.0	63.4	76.7	98	58	55	51	50	71	34	37	.442	.375	.378	2.01	.58	.0	4.2	3.1	6.4	4.5
August	25.06	25.28	24.86	63.9	81.7	84.2	88.6	63.0	75.8	96	55	55	52	49	74	38	34	.443	.397	.362	2.20	.94	.0	3.3	3.1	5.1	3.8
September	25.12	25.32	24.91	53.5	74.6	77.5	81.4	51.7	66.6	91	45	42	40	38	66	32	28	.271	.255	.232	.78	.44	.0	2.7	2.6	3.3	2.9
October	25.08	25.39	24.68	42.8	61.6	62.5	68.0	39.9	54.0	80	29	35	34	33	74	37	37	.207	.202	.198	1.46	.78	.4	3.4	4.2	3.0	3.6
November	25.17	25.47	24.86	31.1	53.5	53.9	60.2	28.5	44.4	71	21	20	19	19	62	26	24	.109	.103	.103	.00	.00	.0	1.8	1.9	1.9	2.0
December	25.04	25.52	24.65	23.6	37.3	36.7	42.6	20.5	31.6	59	8	16	17	19	71	44	49	.089	.096	.104	.37	.24	2.0	3.3	4.3	3.5	3.8
Year	25.05	25.52	24.39	43.1	62.0	63.7	68.5	40.9	54.7	98	5	32	31	29	66	34	32	.209	.192	.182	9.78	1.21	12.1	3.1	3.5	4.2	3.7

ALPENA, MICH.

[ϕ=45°05′ N.; λ=83°30′ W.]

January	29.33	29.92	28.61	30.7	33.3	31.5	36.5	26.8	31.6	52	9	27	27	26	85	76	78	0.151	0.148	0.142	2.67	0.74	10.8	9.2	9.0	8.9	8.9
February	29.26	29.93	28.28	23.3	28.0	26.9	32.1	18.1	25.1	57	6	19	19	20	84	66	74	.108	.108	.115	1.73	.78	8.2	7.3	6.4	7.7	7.3
March	29.21	29.61	28.71	22.8	28.7	25.8	31.6	17.7	24.6	62	4	18	18	17	79	64	68	.100	.105	.095	.95	.20	9.3	7.8	8.6	6.4	7.7
April	29.36	29.87	28.90	35.1	42.1	39.1	45.5	29.6	37.6	69	12	28	25	27	69	54	63	.143	.141	.151	2.11	.77	7.8	5.3	4.7	5.1	5.1
May	29.37	29.77	28.99	50.1	54.0	52.1	60.4	42.4	51.4	90	30	42	40	42	76	63	71	.275	.257	.272	4.07	1.64	.0	4.9	6.0	5.3	5.6
June	29.26	29.59	28.76	61.4	66.8	64.4	71.3	53.5	62.4	84	43	54	52	53	77	62	69	.426	.400	.415	1.19	.46	.0	4.4	3.9	3.8	4.4
July	29.29	29.58	28.60	64.5	71.8	68.3	77.1	56.5	66.8	93	45	57	56	54	76	60	64	.470	.467	.436	1.87	.46	.0	4.5	4.8	3.5	4.6
August	29.31	29.66	29.05	64.2	74.4	69.5	78.2	57.0	67.6	96	46	58	59	59	80	61	70	.484	.505	.511	2.45	.71	.0	4.1	5.2	4.4	4.7
September	29.42	29.77	29.06	54.6	65.5	59.3	68.6	47.1	57.8	89	36	49	49	49	83	57	69	.360	.362	.355	1.94	1.02	.0	3.6	4.7	2.6	4.0
October	29.27	29.72	28.81	44.7	51.0	47.8	54.8	39.7	47.2	76	31	41	40	41	87	69	78	.268	.260	.266	5.31	1.45	.1	7.4	7.0	7.5	7.3
November	29.47	30.14	28.84	30.7	36.5	33.8	39.0	27.6	33.3	56	10	26	27	28	82	69	77	.147	.155	.156	.86	.55	2.0	6.8	7.0	7.1	7.2
December	29.34	29.92	28.67	23.8	29.6	26.6	33.4	19.4	26.4	55	-2	22	22	22	90	72	83	.124	.124	.127	1.96	.58	10.0	7.0	7.0	6.1	7.0
Year	29.32	30.14	28.28	42.2	48.5	45.4	52.4	36.3	44.3	96	-2	37	36	36	81	64	72	.255	.253	.253	27.11	1.64	48.2	6.0	6.2	5.6	6.2

*Aug. 31 and Sept. 1.

Annual meteorological summaries for the year ending December 31, 1932—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.0	S.	28	S.	0	9	6	0	8	18	6	8	7	0	12	7	12	7	6	1	0	0	2	0	0	0	12	2	0
February	9.4	S.	34	W.	1	10	5	0	0	17	9	5	3	0	8	7	14	10	8	0	0	0	1	0	0	0	1	2	0
March	11.5	S.	32	NW.	1	11	8	4	3	19	5	7	4	1	15	8	8	2	2	2	0	0	0	0	1	0	11	1	0
April	12.6	S.	32	W.	1	5	1	4	6	23	11	2	5	1	16	6	8	7	6	0	0	0	2	0	0	0	3	0	0
May	9.3	S.	38	SE.	2	4	6	15	8	27	6	1	0	1	14	8	9	10	10	0	0	0	2	0	0	0	1	0	12
June	10.7	S.	32	N.	1	3	1	4	15	32	1	2	2	0	12	10	8	10	10	0	0	0	2	0	0	0	18	0	11
July	8.9	S.	30	N.	0	1	0	3	13	43	2	0	0	0	21	6	4	5	4	0	0	0	0	0	0	0	26	0	4
August	8.8	S.	22	S.	0	8	3	3	11	32	2	1	2	0	10	9	12	9	9	0	0	0	0	0	0	0	20	0	7
September	8.7	S.	21	SW.	0	14	6	6	6	22	2	1	3	0	11	2	17	8	8	0	0	0	0	0	0	0	3	0	4
October	9.4	S.	27	N.	0	11	7	2	6	25	5	3	2	1	17	8	6	5	3	0	0	0	0	0	0	0	1	0	2
November	9.5	S.	26	SW.	0	10	5	2	5	23	4	4	4	3	20	5	5	1	0	1	0	0	0	0	0	0	8	0	0
December	9.0	S.	30	SW.	0	8	11	2	4	15	6	5	11	0	10	4	11	5	5	4	2	0	3	0	5	0	16	2	0
Year	9.6	S.	38	SE.	6	94	59	45	96	296	53	39	43	7	172	80	114	79	71	8	2	6	6	0	6	72	48	54	0

ALBANY, N.Y.

[H_b=97 ft.; h_t=107 ft.; h_r=100 ft.; h_a=115 ft.]

January	6.4	S.	27	SE.	0	13	3	1	2	21	7	6	9	0	2	10	19	14	13	14	6	0	6	0	4	0	22	0	0
February	8.1	S.	25	SE.	0	11	3	1	2	19	1	10	11	0	10	7	12	11	7	18	9	0	4	0	10	0	26	0	0
March	10.0	N.	30	N.	0	15	0	4	0	11	4	16	12	0	14	7	10	11	6	17	6	0	1	0	7	0	27	0	0
April	8.2	W.	26	SE.	0	10	2	1	0	17	4	15	11	0	12	7	11	10	6	7	2	0	2	0	0	0	9	0	0
May	8.2	S.	22	N.	0	8	1	2	3	29	3	11	5	0	15	13	3	6	6	0	0	0	1	0	0	0	1	0	0
June	7.5	S.	22	N.	0	7	3	3	0	30	2	15	0	0	14	10	6	12	8	0	0	0	1	0	0	0	4	0	0
July	6.9	S.	26	N.	0	10	2	1	1	22	6	13	7	0	7	20	4	11	9	0	0	0	0	0	0	0	2	0	0
August	7.4	S.	21	S.	0	8	2	2	2	28	1	12	7	0	14	13	4	12	10	0	0	0	6	0	0	0	1	0	6
September	6.9	S.	22	SE.	0	13	4	2	2	22	3	6	8	0	13	14	3	7	6	0	0	0	14	5	0	1	0	2	7
October	7.5	S.	24	N.	0	11	1	1	2	33	3	9	2	0	5	11	15	10	7	1	0	0	9	0	0	0	1	0	2
November	8.3	S.	30	SW.	0	20	2	0	1	19	6	6	6	0	10	6	14	10	8	2	0	0	6	1	2	0	18	0	0
December	8.1	S.	23	S.	0	11	2	2	0	32	1	8	6	0	7	9	15	11	6	10	7	0	13	2	10	0	23	0	1
Year	7.8	S.	30	N.	0	137	25	20	15	283	41	127	84	0	123	127	116	125	92	69	30	2	67	9	33	5	126	19	15

ALBUQUERQUE, N.MEX.

[H_b=4,972 ft.; h_t=51 ft.; h_r=45 ft.; h_a=66 ft.]

January	5.6	NE.	33	SE.	1	13	26	2	6	1	7	4	2	1	16	6	9	5	4	9	5	0	1	0	7	0	31	0	0
February	5.4	NE.	23	W.	0	5	17	4	3	3	13	9	3	1	13	6	10	6	2	3	1	0	0	0	0	0	19	0	0
March	6.2	NE.	36	W.	1	11	14	2	4	4	4	7	13	3	11	15	5	7	3	7	6	0	0	0	1	0	19	0	0
April	6.9	SW.	38	SE.	1	11	11	1	5	4	13	4	8	3	16	9	5	3	2	1	1	0	0	0	0	0	1	1	0
April	6.9	SW.	38	SE.	1	11	13	1	4	4	16	8	2	3	18	9	4	4	3	0	0	0	1	0	0	0	0	4	0
May	6.7	SW.	29	SE.	0	8	17	2	1	4	14	4	5	5	17	10	3	3	1	0	0	0	0	0	0	0	13	0	4
June	6.0	SW.	26	NW.	0	9	18	6	6	5	13	2	3	0	13	12	6	17	8	0	0	0	0	0	0	0	18	0	19
July	5.5	SW.	26	W.	0	9	17	4	5	3	12	6	3	4	17	10	4	8	6	0	0	0	0	0	0	0	12	0	13
August	5.2	SW.	25	E.	0	8	17	4	6	11	4	7	3	3	1	20	4	6	5	3	0	0	0	0	0	0	3	0	1
September	5.2	NE.	20	SE.	0	11	14	4	6	7	9	5	3	3	16	10	5	9	6	2	1	0	0	0	0	0	2	2	0
October	5.3	NE.	26	E.	0	9	15	4	4	6	7	9	5	3	23	4	3	0	0	0	0	0	0	0	0	0	24	0	0
November	4.2	NE.	26	NW.	0	9	14	5	8	13	5	2	1	3	17	5	9	5	3	5	4	0	1	0	2	0	31	0	0
December	5.4	NE.	34	W.	1	18	19	1	3	4	8	4	3	2	17	5	9	5	3	5	4	0	1	0	2	0	31	0	0
Year	5.6	NE.	38	SE.	4	123	195	38	60	55	119	62	51	29	197	100	69	72	41	27	18	1	4	0	10	46	127	44	0

ALPENA, MICH.

[H_b=609 ft.; h_t=13 ft.; h_r=4 ft.; h_a=89 ft.]

January	12.6	SW.	34	SE.	1	3	3	7	6	8	20	7	8	0	0	4	27	18	14	20	12	0	3	1	6	0	26	0	0
February	12.6	NW.	35	NW.	4	5	2	1	3	13	6	15	13	0	2	13	14	14	9	20	10	0	3	4	15	0	28	0	0
February	12.6	NW.	35	NW.	4	5	2	3	3	13	6	15	13	0	2	13	14	14	9	20	10	0	3	4	15	0	28	0	0
March	12.7	NW.	31	SW.	0	3	2	3	5	26	3	13	26	0	9	12	19	15	9	27	14	0	0	0	19	0	31	0	0
March	12.7	NW.	31	SW.	0	3	2	3	5	26	3	13	26	0	9	12	19	15	9	27	14	0	0	0	19	0	31	0	0
April	12.2	NW.	32	SE.	1	6	7	5	8	5	2	1	26	0	12	7	11	10	7	7	7	0	1	0	3	0	18	0	1
April	12.2	NW.	32	SE.	1	6	7	5	8	5	2	1	26	0	12	7	11	10	7	7	7	0	1	0	3	0	18	0	1
May	11.2	SE.	40	SW.	1	2	10	11	8	6	9	5	11	0	10	11	10	15	10	0	0	0	4	3	0	1	1	1	1
May	11.2	SE.	40	SW.	1	2	10	11	8	6	9	5	11	0	10	11	10	15	10	0	0	0	4	3	0	1	1	1	1
June	9.3	NW.	31	NW.	0	4	1	7	17	5	2	4	20	0	13	11	6	10	7	0	0	0	1	0	0	1	0	4	0
June	9.3	NW.	31	NW.	0	4	1	7	17	5	2	4	20	0	13	11	6	10	7	0	0	0	1	0	0	1	0	4	0
July	10.7	NW.	27	NW.	0	3	2	7	6	5	4	8	27	0	10	15	6	9	8	0	0	0	1	0	0	1	0	4	0
July	10.7	NW.	27	NW.	0	3	2	7	6	5	4	8	27	0	10	15	6	9	8	0	0	0	1	0	0	1	0	4	0
August	9.6	NW.	26	NW.	0	2	1	3	9	11	9	7	20	0	11	16	4	14	9	0	0	0	1	2	0	0	4	0	8
August	9.6	NW.	26	NW.	0	2	1	3	9	11	9	7	20	0	11	16	4	14	9	0	0	0	1	2	0	0	4	0	8
September	10.9	NW.	47	SE.	1	2	0	4	5	6	10	12	21	0	13	12	5	10	6	0	0	0	0	0	0	0	0	4	2
September	10.9	NW.	47	SE.	1	2	0	4	5	6	10	12	21	0	13	12	5	10	6	0	0	0	0	0	0	0	0	4	2
October	12.2	NW.	30	SE.	0	3	5	7	4	8	8	9	18	0	4	11	16	14	12	6	1	0	3	1	0	0	4	1	0
October	12.2	NW.	30	SE.	0	3	5	7	4	8	8	9	18	0	4	11	16	14	12	6	1	0	3	1	0	0	4	1	0
November	12.5	NW.	32	SE.	1	2	3	4	1	18	12	6	14	0	4	8	18	13	5	14	7	0	3	1	7	0	20	0	0
November	12.5	NW.	32	SE.	1	2	3	4	1	18	12	6	14	0	4	8	18	13	5	14	7	0	3	1	7	0	20	0	0
December	11.9	SW.	30	NW.	0	4	0	5	3	11	26	7	6	0	5	10	16	14	9	16	9	0	1	1	12	0	27	0	0
Year	11.5	NW.	47	SE.	9	39	36	64	75	103	111	94	210	0	84	130	152	156	105	110	60	0	23	18	62	6	155	22	6

Annual meteorological summaries for the year ending December 31, 1932—Continued

AMARILLO, TEX.

[ϕ=35°13′ N.; λ=101°50′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	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.*	*In.*				
January	26.24	26.79	25.49	27.9	38.8	37.0	45.4	25.1	35.2	62	13	22	28	25	77	68	66	0.117	0.152	0.144	1.60	1.30	15.9	2.8	4.9	4.0	4.7
February	26.23	26.60	25.78	39.9	55.0	53.6	61.4	36.8	49.1	80	22	28	34	31	64	50	46	.157	.204	.184	.41	.20	.7	4.7	6.1	5.4	5.9
March	26.21	26.72	25.53	32.6	50.4	50.4	58.2	29.7	44.0	82	10	20	25	23	60	41	39	.112	.138	.124	.42	.16	5.0	4.6	4.8	3.9	4.4
April	26.18	26.56	25.70	47.3	67.7	66.1	73.0	45.1	59.0	86	32	35	34	33	64	35	36	.217	.207	.204	2.21	1.40	.0	3.1	5.1	4.6	4.6
May	26.26	26.52	25.90	55.9	74.5	74.3	79.9	54.7	67.3	90	45	46	46	44	71	39	38	.320	.316	.305	1.02	.83	.0	3.4	4.1	4.1	4.0
June	26.20	26.43	25.97	66.6	79.4	78.7	83.9	61.3	72.6	96	53	56	57	57	79	50	53	.461	.480	.484	9.24	2.44	.0	4.1	3.4	5.4	4.5
July	26.28	26.52	25.92	69.6	87.7	87.4	92.1	68.2	80.2	100	63	59	60	58	71	40	39	.508	.512	.492	1.22	.76	.0	3.0	2.3	2.7	2.6
August	26.26	26.45	26.05	67.3	84.8	84.2	89.7	66.2	78.0	99	56	59	58	56	75	42	41	.498	.486	.455	.70	.40	.0	4.1	4.2	4.5	4.0
September	26.35	26.61	26.00	58.8	74.9	74.1	80.1	57.7	68.9	97	48	52	50	52	81	48	51	.396	.367	.386	2.79	.98	.0	5.2	4.5	4.6	4.6
October	26.28	26.74	25.90	46.6	66.2	61.6	72.0	44.6	58.3	86	32	38	36	36	73	36	42	.245	.228	.226	.64	.40	T	3.4	2.7	3.6	3.2
November	26.36	26.75	25.93	35.4	55.9	50.4	61.3	32.9	47.1	80	18	21	25	24	52	32	36	.115	.137	.130	.02	.02	T	2.4	2.7	3.0	3.0
December	26.26	26.74	25.86	24.3	36.2	32.2	40.4	21.0	30.7	72	0	12	18	18	58	48	56	.079	.098	.100	.87	.50	10.9	4.8	4.8	3.5	4.8
Year	26.26	26.79	25.49	47.4	64.3	62.5	69.8	45.3	57.5	100	0	37	39	38	69	44	45	.262	.277	.270	21.14	2.44	32.5	3.8	4.1	4.1	4.2

APALACHICOLA, FLA.

[ϕ=29°45′ N.; λ=84°58′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	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.*	*In.*				
January	30.13	30.48	29.73	57.2	65.5	62.0	67.8	54.9	61.4	76	38	54	56	56	88	74	81	0.434	0.477	0.470	5.34	2.64	0.0	5.0	4.8	3.6	5.2
February	30.04	30.44	29.73	61.1	69.8	66.5	72.3	59.0	65.6	80	42	58	60	61	90	73	83	.502	.536	.546	1.40	.63	.0	4.4	5.0	3.4	5.3
March	29.97	30.31	29.08	54.2	63.3	59.4	65.9	49.9	57.9	80	28	48	48	50	80	60	72	.379	.373	.395	5.33	1.60	.0	5.5	3.9	3.9	4.4
April	29.97	30.32	29.71	64.4	73.6	68.7	74.6	59.8	67.2	85	50	58	57	58	80	58	71	.497	.489	.507	2.18	1.12	.0	4.8	3.5	3.3	4.2
May	29.96	30.15	29.72	73.3	79.0	76.1	81.0	67.0	74.0	90	58	66	64	64	77	63	70	.642	.617	.613	2.34	1.76	.0	3.2	3.6	2.5	3.1
June	29.91	30.10	29.66	80.0	84.0	80.7	86.1	74.2	80.2	91	67	73	73	73	79	70	77	.811	.815	.802	5.03	1.97	.0	3.4	3.5	5.2	4.5
July	29.96	30.17	29.79	84.2	88.9	84.3	91.2	78.2	84.7	102	70	76	75	75	77	65	74	.901	.874	.871	3.38	1.62	.0	3.3	3.7	5.0	4.4
August	29.92	30.09	29.61	80.0	82.8	81.4	85.8	75.1	80.4	90	72	75	75	74	85	78	80	.867	.862	.854	14.32	2.88	.0	5.1	6.6	6.5	6.1
September	29.92	30.11	29.54	76.9	82.2	79.0	83.9	73.9	78.9	96	69	72	72	72	85	72	79	.782	.786	.786	20.93	11.71	.0	6.2	5.8	5.1	6.0
October	29.95	30.23	29.44	65.9	75.2	70.7	77.4	62.4	69.9	85	48	61	62	63	85	66	78	.560	.584	.597	7.63	2.60	.0	4.6	4.2	3.2	4.3
November	30.08	30.42	29.74	53.4	62.9	58.4	64.6	49.8	57.2	77	34	48	51	51	84	67	77	.372	.406	.409	5.94	3.21	.0	5.3	5.0	3.7	4.6
December	30.12	30.38	29.85	57.0	63.2	59.8	66.0	53.7	59.8	73	40	55	57	56	93	80	89	.448	.478	.475	2.37	1.08	.0	5.8	5.8	5.0	6.5
Year	29.99	30.48	29.08	67.3	74.2	70.5	76.4	63.2	69.8	102	28	62	62	63	84	69	78	.600	.608	.610	76.19	11.71	.0	4.7	4.6	4.2	4.9

ASHEVILLE, N.C.

[ϕ=35°36′ N.; λ=82°32′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	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.*	*In.*				
January	27.80	28.19	27.31	40.8	51.0	47.9	56.3	37.1	46.7	77	24	36	36	38	83	59	70	0.227	0.233	0.259	3.99	1.32	0.0	5.9	5.8	5.7	5.7
February	27.70	28.20	27.31	40.3	52.8	49.5	57.6	37.0	47.3	80	20	35	33	34	82	53	58	.215	.206	.209	2.81	.64	.0	5.4	5.6	5.1	4.9
March	27.56	27.91	26.87	36.0	47.8	43.8	53.1	32.0	42.6	74	10	26	26	28	69	46	56	.159	.157	.172	3.47	.90	.7	6.0	4.9	5.2	4.6
April	27.65	27.96	27.30	48.2	62.6	58.0	66.8	43.8	55.3	80	33	38	37	40	70	42	54	.244	.234	.260	3.48	1.36	.0	5.2	6.0	6.6	4.3
May	27.74	27.94	27.40	57.1	70.2	64.6	74.5	51.8	63.2	86	41	49	46	50	76	45	61	.359	.322	.364	.84	.26	.0	4.8	5.6	6.2	4.2
June	27.67	27.91	27.37	66.6	79.0	73.3	83.6	60.6	72.1	90	51	60	58	60	80	51	66	.522	.493	.531	2.83	1.08	.0	5.3	6.1	6.9	4.3
July	27.70	27.93	27.34	70.0	83.7	77.2	88.3	64.5	76.4	97	50	64	61	64	82	48	65	.604	.550	.599	2.74	.85	.0	4.5	5.4	6.4	5.5
August	27.75	27.97	27.55	67.2	80.9	73.7	84.8	62.8	73.8	98	52	62	60	63	84	50	71	.564	.523	.583	1.60	.33	.0	5.0	5.8	6.3	5.9
September	27.78	28.03	27.56	59.8	74.0	68.1	77.2	55.9	66.6	90	41	55	53	56	85	51	66	.447	.420	.400	2.21	.63	.0	5.7	6.4	5.6	6.2
October	27.71	28.03	27.23	48.7	63.4	57.8	67.6	44.9	56.2	78	30	45	44	48	87	54	72	.313	.310	.350	6.35	2.34	.0	5.3	4.5	4.5	4.9
November	27.79	28.26	27.31	37.6	50.4	44.8	54.8	33.3	44.0	73	16	33	33	34	83	54	66	.204	.205	.209	3.03	1.26	T	5.8	4.4	4.4	4.7
December	27.79	28.14	27.35	39.2	47.8	45.1	53.1	34.9	44.0	67	19	36	40	39	87	78	82	.228	.267	.255	4.84	1.05	4.1	7.3	6.8	6.9	7.2
Year	27.72	28.26	26.87	51.0	63.6	58.6	68.1	46.6	57.4	97	10	45	44	46	81	53	66	.340	.327	.354	38.19	2.34	4.8	5.5	5.6	5.8	5.2

ATLANTA, GA.

[ϕ=33°45′ N.; λ=84°23′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	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.*	*In.*				
January	28.94	29.33	28.44	46.5	54.7	53.2	58.9	43.5	51.2	76	26	42	43	45	86	67	75	0.298	0.305	0.326	4.58	1.65	0.0	6.0	6.4	5.2	6.1
February	28.84	29.32	28.48	47.7	56.7	56.0	61.3	45.1	53.2	76	30	42	42	42	89	61	63	.279	.278	.281	5.52	1.94	.0	6.0	6.8	4.9	6.2
March	28.72	29.05	28.07	42.6	52.9	52.5	58.5	39.1	48.8	80	15	33	35	34	71	53	52	.215	.229	.219	4.53	1.33	.5	5.1	4.9	3.6	4.8
April	28.77	29.07	28.42	55.3	66.8	66.3	71.3	52.5	61.9	82	39	45	48	46	70	54	50	.312	.354	.326	3.17	1.27	.0	5.4	5.4	4.1	5.2
May	28.82	29.02	28.52	62.3	72.5	71.4	76.9	59.1	67.6	85	51	53	54	53	73	54	55	.413	.423	.413	1.80	.75	.0	5.2	5.9	4.3	5.3
June	28.74	28.99	28.44	71.9	81.6	79.2	85.9	67.9	76.9	93	62	66	67	66	81	63	65	.634	.669	.641	5.31	2.47	.0	4.9	6.1	5.5	5.7
July	28.78	28.97	28.55	75.1	85.4	82.5	89.5	71.7	80.6	96	65	69	69	69	81	59	65	.702	.707	.707	2.80	1.32	.0	5.6	5.0	5.1	5.2
August	28.80	29.00	28.60	73.0	82.3	79.3	86.2	70.6	78.4	92	64	68	69	68	84	65	70	.678	.713	.691	2.30	.58	.0	5.0	5.9	4.7	5.3
September	28.83	29.07	28.63	66.3	77.0	74.0	80.0	63.7	71.8	92	53	60	59	60	80	58	64	.528	.525	.531	3.52	1.68	.0	5.6	6.1	4.8	5.8
October	28.80	29.12	28.24	55.4	66.5	63.8	70.2	52.6	61.4	78	39	49	51	50	80	60	64	.363	.394	.386	6.90	4.51	.0	4.7	4.7	3.8	4.5
November	28.91	29.33	28.50	43.4	51.5	49.9	55.8	39.5	47.8	68	28	34	35	36	71	58	61	.221	.234	.238	2.96	1.28	.0	4.9	4.8	3.3	4.7
December	28.93	29.27	28.54	44.9	50.0	48.6	54.7	40.4	47.6	70	23	39	40	40	83	75	76	.265	.274	.265	11.69	2.76	T	8.1	8.2	7.8	8.1
Year	28.82	29.33	28.07	57.0	66.5	64.7	70.7	53.8	62.3	96	15	50	51	51	78	61	63	.409	.425	.419	54.99	4.51	.5	5.5	5.8	4.8	5.6

Annual meteorological summaries for the year ending December 31, 1932—Continued

AMARILLO, TEX.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	9.5	SW.	33	SW.	1	8	2	5	6	14	13	8	6	0	12	11	8	4	3	7	3	0	10	7	4	0	28	0	0
February	8.8	SW.	27	SW.	0	5	2	3	11	4	13	12	8	0	10	6	13	4	3	1	1	0	5	5	0	0	8	0	0
March	9.4	SW.	27	NW.	0	11	4	4	4	8	13	10	8	0	14	8	9	7	5	10	5	0	0	1	5	0	14	0	0
April	9.6	S.	30	SW.	0	7	7	3	9	8	15	4	7	0	13	10	7	8	7	0	0	0	1	2	3	0	1	3	0
May	8.6	SE.	37	SW.	1	2	5	7	23	11	11	1	2	0	13	14	4	3	2	0	0	0	0	0	0	0	1	0	3	0
June	8.2	SE.	30	SW.	0	3	12	4	20	8	7	2	4	0	12	13	5	14	13	0	0	0	1	3	2	0	6	0	17	0
July	9.6	S.	22	NE.	0	0	0	2	27	21	11	0	1	0	23	7	1	4	4	0	0	0	0	0	0	0	25	0	5	0
August	9.8	SE.	25	W.	0	6	3	3	26	12	6	2	4	0	15	12	4	7	5	0	0	0	0	0	0	0	16	0	5	0
September	8.7	SE.	26	SE.	0	4	4	5	19	14	7	1	0	0	15	8	7	8	7	0	0	0	0	4	2	0	7	0	0	0
October	9.1	SW.	25	N.	0	8	1	0	7	16	15	6	9	0	18	8	5	4	4	2	0	0	1	1	0	0	0	0	1	0
November	9.6	S.	28	NW.	0	8	1	4	10	10	12	8	7	0	20	7	3	1	0	1	0	0	0	0	0	0	12	0	0	0
December	9.0	SW.	28	SW.	0	2	5	1	8	10	14	10	12	0	15	4	12	6	4	7	5	0	2	3	9	0	26	0	0	0
Year	9.2	S.	37	SW.	2	64	46	41	170	136	137	64	74	0	180	108	78	70	56	28	14	2	27	24	18	55	89	34	0

APALACHICOLA, FLA.

[H_b=36 ft.; h_t=11 ft.; h_r=3 ft.; h_a=51 ft.]

January	9.5	E.	27	SE.	0	10	11	12	13	6	0	1	9	0	13	5	13	6	5	0	0	0	10	8	0	0	0	2	0
February	8.8	S.	27	E.	0	6	13	4	5	12	6	4	8	0	10	10	9	6	6	0	0	0	10	7	0	0	0	0	0
March	10.0	NW.	32	E.	1	7	8	1	5	11	9	9	12	0	15	8	8	9	9	0	0	0	3	2	0	0	1	1	5
April	9.1	NW.	32	E.	1	8	7	4	5	8	9	11	8	0	15	8	7	3	3	0	0	0	3	0	0	0	0	0	2
May	9.6	SE.	30	E.	0	4	5	4	16	7	6	11	9	0	19	9	3	5	5	0	0	0	0	0	0	0	1	0	4
June	8.1	SW.	22	E.	0	7	6	6	1	6	10	19	5	0	12	13	5	12	8	0	0	0	0	0	0	0	5	0	11
July	7.0	W.	34	NW.	1	8	3	0	0	3	14	21	13	0	12	13	6	9	7	0	0	0	0	0	0	0	20	0	19
August	8.1	SW.	50	E.	1	6	12	6	8	5	9	11	5	0	8	9	14	21	17	0	0	0	0	0	0	0	3	0	22
September	10.4	E.	35	NE.	1	13	12	12	7	4	5	2	5	0	8	9	13	11	9	0	0	0	0	0	0	0	2	0	5
October	9.3	N.	38	SE.	2	15	13	4	8	2	3	8	7	2	15	6	10	8	6	0	0	0	0	0	0	0	0	0	4
November	9.7	NE.	24	NE.	0	19	16	5	0	2	1	3	14	0	13	6	11	10	7	0	0	0	1	0	0	0	0	0	0
December	8.4	SE.	23	N.	0	8	14	8	15	8	2	6	1	0	6	9	16	7	6	0	0	0	14	10	0	0	0	0	0
Year	9.0	SE.	50	E.	7	111	120	66	83	74	74	106	96	2	146	105	115	107	88	0	0	0	41	27	0	31	1	74	0

ASHEVILLE, N.C.

[H_b=2,253 ft.; h_t=89 ft.; h_r=87 ft.; h_a=104 ft.]

January	9.7	NW.	30	S.	0	8	1	3	16	10	1	0	21	2	10	7	14	14	12	0	0	0	1	1	0	0	11	1	0
February	9.2	NW.	31	NW.	0	9	0	0	12	7	0	3	21	6	12	9	8	11	11	0	0	0	2	0	0	0	6	1	0
March	10.4	NW.	34	NW.	1	13	0	0	12	5	3	2	26	1	13	10	8	13	9	9	2	0	0	0	5	0	12	2	0
April	8.8	NW.	30	NW.	0	13	1	4	11	6	2	2	19	2	15	9	6	10	8	0	0	1	1	1	0	0	0	2	0
May	7.5	NW.	27	NW.	0	7	2	1	14	10	2	2	20	4	16	10	5	9	6	0	0	0	5	1	0	0	0	5	0
June	6.1	NW.	24	S.	0	12	0	3	10	11	1	2	17	4	10	10	1	15	12	0	0	0	5	3	0	0	0	8	0
July	5.8	NW.	26	NW.	0	12	1	0	4	7	5	6	26	1	5	21	5	13	11	0	0	0	1	4	0	0	18	0	11
August	6.2	S.	26	NW.	0	7	0	1	18	19	2	0	13	2	9	9	13	9	8	0	0	0	0	8	0	0	5	0	9
September	7.2	SE.	24	SE.	0	9	1	5	17	8	4	1	10	5	7	8	15	10	8	0	0	0	0	10	2	0	1	0	2
October	8.5	NW.	27	E.	0	6	1	8	12	9	1	0	19	6	12	9	10	9	7	0	0	0	4	1	0	0	1	0	0
November	8.9	NW.	25	NW.	0	8	1	2	16	8	0	1	19	5	13	8	9	10	7	1	0	0	1	1	0	0	20	0	0
December	8.7	NW.	29	NW.	0	7	1	4	16	14	3	1	16	0	4	10	17	14	13	2	1	0	8	4	1	0	13	0	0
Year	8.1	NW.	34	NW.	1	111	9	31	158	114	24	20	227	38	126	129	111	137	112	12	3	2	49	14	6	24	63	41	0

ATLANTA, GA.

[H_b=1,173 ft.; h_t=190 ft.; h_r=182 ft.; h_a=198 ft.]

January	10.3	NW.	30	NW.	0	0	0	11	11	8	1	12	18	1	6	12	13	13	10	0	0	0	7	3	0	0	4	0	0
February	10.6	NW.	30	W.	0	1	3	12	4	2	6	13	17	0	4	14	11	13	10	0	0	0	8	1	0	0	1	2	0
March	11.9	NW.	41	SW.	5	0	1	3	4	6	9	15	23	1	12	9	10	11	9	3	1	0	0	0	0	0	0	0	0
April	10.4	W.	36	NW.	1	2	0	11	3	7	10	11	14	2	11	11	8	9	9	0	0	0	0	0	0	1	0	0	0
May	10.1	E.	29	E.	0	1	4	18	8	4	2	9	13	3	11	10	10	9	7	0	0	0	0	0	0	0	0	0	0
June	7.8	W.	30	W.	0	2	4	7	6	3	19	9	6	6	14	10	13	8	6	0	0	0	0	0	0	0	7	0	0
July	8.3	W.	27	SW.	0	2	5	4	2	2	6	24	17	0	10	14	7	10	7	0	0	0	0	1	0	0	0	0	0
August	7.5	E.	21	NE.	0	2	5	23	11	5	3	5	8	0	13	8	10	12	10	0	0	0	0	0	0	0	7	0	0
September	9.0	E.	24	SE.	0	6	4	27	5	4	2	9	16	2	14	6	11	8	7	0	0	0	0	1	0	0	0	0	0
October	10.3	NW.	27	NW.	0	1	4	14	10	4	2	13	12	0	15	2	13	12	8	0	0	0	7	0	0	0	8	0	0
November	11.8	E.	31	NW.	0	0	6	19	8	2	0	13	12	0	4	4	23	19	16	1	0	0	20	12	1	0	9	0	0
December	9.4	E.	32	NW.	1	0	4	18	8	7	3	6	16	0	4	4	23	19	16	1	0	0	20	12	1	0	9	0	0
Year	9.8	NW.	41	SW.	7	17	40	167	80	61	45	140	173	9	114	115	137	139	106	4	1	1	55	20	2	39	32	49	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

ATLANTIC CITY, N.J.

[ϕ=39°22′ N.; λ=74°25′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.08	30.55	29.50	43.8	47.7	45.8	51.1	39.5	45.3	67	22	38	37	37	81	70	72	0.244	0.235	0.233	5.13	1.78	1.8	7.4	7.3	6.9	7.1
February	29.96	30.60	29.33	36.1	42.0	41.0	45.7	32.3	39.0	59	20	28	30	31	72	64	68	.166	.181	.187	2.28	1.47	T	5.7	6.7	5.8	6.3
March	29.77	30.31	28.31	35.5	41.1	38.5	45.2	31.3	38.2	61	16	27	30	30	72	65	70	.164	.177	.173	5.81	2.01	2.1	4.8	6.2	5.2	5.7
April	29.90	30.39	29.29	46.9	52.4	49.5	56.5	41.4	49.0	78	31	37	39	39	71	63	69	.231	.241	.242	4.31	2.09	.0	4.7	5.6	4.6	5.1
May	29.99	30.36	29.62	56.8	59.6	57.4	64.0	51.6	57.8	81	41	50	52	50	81	76	78	.376	.390	.365	4.08	2.03	.0	4.7	5.6	5.5	5.5
June	29.86	30.18	29.42	67.8	71.3	68.1	75.1	61.9	68.5	90	46	60	60	60	79	69	78	.541	.527	.540	3.74	1.42	.0	5.7	6.0	6.8	6.9
July	29.81	30.04	29.32	72.5	76.9	73.4	80.6	66.7	73.6	90	61	64	63	64	75	65	74	.594	.588	.606	4.21	1.25	.0	5.2	4.9	6.0	5.4
August	29.94	30.25	29.70	73.1	77.9	74.6	81.0	68.0	74.5	87	61	65	65	66	77	67	75	.628	.632	.641	2.68	1.73	.0	4.3	5.4	5.9	5.2
September	30.01	30.43	29.45	65.3	72.1	68.7	74.7	61.7	68.2	87	46	59	60	59	81	66	72	.528	.538	.524	1.75	1.15	.0	5.2	5.6	4.9	5.4
October	29.99	30.38	29.56	56.6	62.9	59.3	65.4	52.1	58.8	74	39	50	50	51	80	66	75	.395	.395	.398	4.63	1.93	.0	5.7	5.7	5.0	5.6
November	30.13	30.70	29.44	44.1	50.5	47.4	54.1	38.7	46.4	66	17	38	40	39	78	68	72	.257	.268	.261	3.92	1.78	.0	5.8	6.1	4.8	5.7
December	30.12	30.58	29.46	38.3	44.5	42.4	47.9	34.5	41.2	68	15	33	36	36	81	75	78	.199	.227	.223	4.04	1.37	8.2	6.4	6.2	6.7	6.6
Year	29.96	30.70	28.31	53.1	58.2	55.6	61.8	48.3	55.0	90	15	46	47	47	77	68	73	.360	.367	.366	46.58	2.09	12.1	5.5	5.9	5.6	5.8

AUGUSTA, GA.

[ϕ=33°28′ N.; λ=81° 54′ W.]

January	29.99	30.37	29.50	50.6	61.9	59.5	66.7	48.1	57.4	84	31	47	45	47	89	58	64	0.352	0.339	0.353	4.91	1.61	0.0	5.9	4.4	4.8	5.0
February	29.87	30.43	29.40	49.7	61.7	60.1	66.8	47.2	57.0	81	30	45	47	46	86	63	65	.320	.351	.336	4.88	2.55	.0	6.1	5.8	5.7	6.2
March	29.74	30.14	28.77	45.8	59.9	57.5	65.0	42.8	53.9	81	22	37	33	35	72	38	45	.245	.218	.233	4.74	2.76	1.7	4.2	3.8	3.8	3.9
April	29.78	30.14	29.40	56.9	72.4	69.3	77.5	52.8	65.2	89	42	47	43	45	72	37	45	.341	.299	.324	.74	.24	.0	4.5	5.3	4.3	4.8
May	29.83	30.05	29.46	66.3	78.2	75.9	83.0	61.4	72.2	92	54	58	54	55	75	46	51	.488	.437	.445	2.02	.80	.0	4.8	4.8	2.8	4.4
June	29.74	30.03	29.36	75.3	85.7	81.1	90.3	70.4	80.4	100	64	70	67	68	82	55	67	.725	.667	.684	3.71	.62	.0	5.5	6.3	6.7	6.0
July	29.75	29.96	29.48	79.0	91.3	86.6	95.9	73.9	84.9	104	65	71	68	69	77	47	58	.784	.680	.715	2.27	1.24	.0	4.8	4.3	5.5	4.5
August	29.80	30.00	29.62	75.6	86.8	81.5	90.7	72.0	81.4	98	69	71	69	70	86	56	69	.765	.713	.729	4.91	2.22	.0	5.5	5.9	5.7	5.5
September	29.84	30.10	29.57	69.7	81.8	76.6	85.2	66.9	76.0	97	56	64	61	64	84	54	67	.616	.567	.614	1.31	.54	.0	5.3	5.6	4.8	5.7
October	29.82	30.16	29.31	57.6	73.6	67.4	77.1	54.3	65.7	86	42	54	54	57	90	54	70	.442	.451	.481	6.08	2.99	.0	3.8	4.7	3.6	4.3
November	29.95	30.42	29.48	46.1	58.5	54.1	63.1	43.4	53.2	75	29	40	42	43	81	56	67	.284	.294	.304	2.47	1.05	.0	5.0	4.8	4.3	4.9
December	29.99	30.33	29.60	46.9	56.8	53.8	61.7	44.1	52.9	77	26	44	47	48	91	75	82	.318	.362	.366	4.43	1.33	.0	7.1	8.1	5.9	7.8
Year	29.84	30.43	28.77	60.0	72.4	68.6	76.9	56.4	66.7	104	22	54	52	54	82	59	62	.472	.448	.465	42.47	2.99	1.7	5.2	5.3	4.8	5.2

AUSTIN, TEX.

[ϕ=30°17′ N.; λ=97°44′ W.]

January	29.44	29.87	28.94	46.9	56.5	56.1	62.3	43.5	52.9	75	28	42	44	45	86	65	68	0.298	0.316	0.322	6.00	2.67	0.0	6.3	6.6	5.8	6.4
February	29.37	29.84	29.05	54.3	64.5	64.5	70.1	51.2	60.6	89	32	50	50	51	85	62	65	.379	.374	.389	3.03	2.00	.0	7.7	6.9	6.2	7.0
March	29.37	29.89	28.83	47.2	61.8	61.7	66.9	43.8	55.4	88	23	41	40	39	78	50	48	.287	.286	.275	2.15	1.09	.4	5.5	4.5	4.2	4.7
April	29.29	29.71	28.97	60.0	75.2	70.1	80.3	58.4	69.4	90	39	54	51	51	81	47	45	.442	.406	.408	2.34	1.56	.0	6.6	4.4	3.5	4.8
May	29.32	29.55	29.05	67.1	81.0	80.0	84.7	64.7	74.7	92	56	62	60	60	54	51	53	.563	.531	.537	1.11	.77	.0	5.4	5.6	4.4	5.0
June	29.24	29.44	29.05	74.9	87.6	87.6	92.1	72.9	82.5	97	63	70	67	68	85	51	52	.734	.657	.674	1.88	1.02	.0	6.8	4.5	2.9	4.7
July	29.32	29.55	28.97	77.1	91.4	91.3	96.3	75.2	85.8	103	72	72	67	66	83	46	45	.772	.662	.637	1.54	1.08	.0	3.7	3.6	3.5	3.8
August	29.27	29.46	28.86	76.0	89.2	88.1	94.0	74.5	84.2	102	69	72	69	68	88	52	55	.788	.706	.697	4.97	2.09	.0	5.3	5.8	5.0	5.4
September	29.34	29.53	29.11	69.9	82.5	79.0	85.6	69.0	77.3	94	60	66	65	66	85	58	66	.648	.633	.642	5.36	3.15	.0	5.9	5.5	6.0	5.7
October	29.37	29.71	29.05	57.8	75.9	72.9	80.6	55.2	67.9	90	42	51	50	50	79	42	47	.396	.398	.387	.10	.07	.0	2.7	3.2	1.9	3.0
November	29.53	29.88	29.06	45.5	64.0	60.8	68.6	42.4	55.5	83	28	37	38	37	73	41	44	.241	.263	.247	1.26	.72	.0	2.7	2.6	2.5	2.8
December	29.48	30.03	28.97	43.5	52.8	50.6	57.0	40.0	48.5	76	21	40	41	41	88	68	72	.275	.290	.263	2.72	1.01	T	6.4	6.7	5.6	6.8
Year	29.36	30.03	28.83	60.0	73.5	72.4	78.2	57.6	67.9	103	21	55	54	54	83	53	55	.485	.460	.458	32.46	3.15	.4	5.4	5.0	4.3	5.0

BAKER, OREG.

[ϕ=44°46′ N.; λ=117°50′ W.]

January	26.49	26.98	25.77	17.8	25.6	23.8	28.8	12.6	20.7	45	−4	12	18	17	77	70	74	0.079	0.097	0.096	1.36	0.38	11.8	6.5	7.9	8.0	7.7
February	26.47	26.87	25.86	18.7	28.7	27.8	32.9	13.7	23.3	48	−8	12	19	20	74	64	70	.084	.107	.112	1.48	.64	10.6	6.6	6.2	6.1	6.5
March	26.48	26.81	26.10	31.9	40.2	40.3	43.7	29.1	36.4	63	15	26	26	31	78	61	69	.144	.156	.175	1.74	.37	6.6	7.9	7.7	8.4	7.7
April	26.38	26.76	26.02	36.6	51.8	54.0	56.6	33.5	45.0	71	24	29	33	35	73	51	59	.156	.197	.211	.53	.21	1.2	5.4	7.4	6.8	6.3
May	26.43	26.69	26.16	41.5	59.1	60.0	63.3	39.1	51.2	80	29	35	36	36	78	44	43	.208	.214	.214	1.06	.28	T	5.5	5.2	6.3	5.5
June	26.42	26.60	26.21	47.6	69.5	73.3	74.9	45.8	60.4	91	35	38	41	43	72	37	35	.236	.260	.284	.43	.22	.0	2.7	4.3	4.4	4.0
July	26.43	26.69	26.08	51.2	73.6	78.0	81.0	48.8	64.9	95	39	37	41	41	60	33	29	.226	.251	.265	.18	.13	.0	2.9	3.1	3.7	3.0
August	26.42	26.68	26.14	48.8	74.3	77.4	80.2	46.7	63.4	96	35	35	40	40	61	32	29	.206	.255	.250	.06	.03	.0	2.4	2.6	3.4	2.5
September	26.54	26.77	26.37	42.7	69.3	72.8	75.4	39.8	57.6	90	25	28	36	38	58	31	36	.164	.218	.231	.02	.02	.0	1.9	2.7	2.4	2.4
October	26.54	26.90	26.20	38.7	55.3	54.2	59.6	35.2	47.4	82	25	30	32	33	72	44	48	.168	.185	.193	.52	.25	.3	4.5	5.0	5.3	4.8
November	26.56	26.86	26.06	34.9	44.8	42.4	48.0	30.7	39.4	61	22	27	29	29	74	55	61	.144	.158	.162	.96	.45	3.3	6.1	7.9	7.7	7.5
December	26.51	26.87	26.05	17.7	27.0	23.9	30.3	11.5	20.9	48	−17	12	16	14	75	60	66	.086	.100	.098	1.22	.47	13.5	6.0	5.5	6.2	5.9
Year	26.47	26.98	25.77	35.7	51.6	52.3	56.2	32.2	44.2	96	−17	27	31	31	71	48	50	.158	.184	.191	9.56	.64	47.3	4.9	5.4	5.7	5.3

Annual meteorological summaries for the year ending December 31, 1932—Continued

ATLANTIC CITY, N.J.

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

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	17.7	W.	54	E.	9	4	5	4	5	8	10	18	8	0	5	8	18	11	9	2	2	0	3	6	0	0	2	0	0
February	15.4	NW.	46	NW.	5	4	3	2	4	7	7	15	15	0	5	11	13	8	4	1	0	0	6	2	0	0	14	0	0
March	19.4	W.	62	NE.	14	4	5	1	2	11	6	21	12	0	9	12	10	10	9	6	3	0	2	0	4	0	13	0	0
April	16.8	W.	46	NE.	11	4	7	4	2	8	10	11	14	0	12	10	8	9	6	0	0	0	6	0	0	0	2	1	0
May	16.5	S.	44	NE.	6	3	15	4	5	12	10	5	8	0	10	12	9	10	10	0	0	0	9	3	0	0	0	6	0
June	14.3	SW.	34	W.	3	1	9	4	5	11	17	8	5	0	9	10	11	11	11	0	0	1	4	0	0	0	0	6	0
July	13.9	S.	50	NE.	3	3	3	2	3	4	17	8	15	10	0	9	14	8	9	9	0	0	0	3	2	0	1	0	0
August	12.5	S.	31	S.	0	3	3	2	7	19	10	10	8	0	12	9	10	6	5	0	0	0	2	1	0	0	0	2	0
September	14.2	S.	41	N.	4	8	2	4	7	16	4	10	9	0	11	8	11	8	8	0	0	0	2	1	0	0	0	3	0
October	17.0	W.	49	E.	9	5	1	7	12	5	8	20	4	0	13	4	14	9	6	0	0	0	3	1	0	0	0	0	0
November	17.9	NW.	60	E.	7	8	4	3	4	7	6	14	14	0	10	6	14	8	8	0	0	0	6	1	1	0	6	0	0
December	15.7	W.	40	NE.	5	5	4	1	2	10	8	22	10	0	8	6	17	15	12	4	3	0	4	2	2	0	10	0	0
Year	15.9	W.	62	NE.	76	52	60	39	59	131	104	169	117	0	113	110	143	114	97	13	8	1	50	19	7	1	47	24	0

AUGUSTA, GA.

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

January	5.8	NW.	21	NW.	0	5	2	4	8	8	2	4	13	16	13	8	10	9	7	0	0	0	4	1	0	0	1	0	0
February	5.6	NW.	24	SW.	0	6	4	7	1	8	4	4	10	14	7	10	12	10	8	0	0	0	3	1	0	0	1	1	0
March	7.5	NW.	30	S.	0	1	3	4	2	10	4	5	19	14	16	5	10	11	10	1	1	0	0	0	0	0	5	4	0
April	5.7	NW.	25	NW.	0	3	6	6	7	7	3	7	13	8	10	13	7	8	6	0	0	0	1	0	0	0	0	5	0
May	6.5	NE.	21	SE.	0	8	15	8	9	7	2	1	9	3	14	11	6	9	8	0	0	0	1	0	0	0	1	0	0
June	5.5	S.	24	N.	0	1	8	7	6	14	3	6	8	7	9	6	15	14	13	0	0	0	1	0	0	0	17	0	0
July	5.8	NW.	29	N.	0	4	1	5	4	9	7	12	12	8	11	17	3	7	5	0	0	0	0	0	0	0	25	16	0
August	5.2	SE.	24	SW.	0	3	13	10	15	9	1	1	4	6	8	13	10	10	8	0	0	0	0	0	0	0	17	0	0
September	5.5	NE.	19	NE.	0	8	16	11	9	5	0	0	3	8	10	9	11	8	7	0	0	0	0	0	0	0	17	0	0
October	5.2	NW.	21	S.	0	4	10	1	5	11	2	2	13	14	15	6	10	9	7	0	0	0	3	1	0	0	9	3	0
November	6.6	NE.	25	NE.	0	12	18	1	0	0	0	5	18	6	13	6	11	7	6	0	0	0	7	1	0	0	9	0	0
December	5.6	NW.	22	NW.	0	7	12	1	4	6	3	7	16	6	5	3	23	13	11	0	0	0	8	1	0	0	6	0	0
Year	5.9	NW.	30	S.	0	62	106	65	70	94	31	54	138	110	131	107	128	115	96	1	1	0	31	7	0	71	19	44	0

AUSTIN, TEX.

[H_b=605 ft.; h_t=136 ft.; h_r=129 ft.; h_a=148 ft.]

January	8.3	N.	26	NW.	0	15	7	4	15	6	1	3	11	6	9	6	16	14	10	0	0	0	13	3	0	0	2	4	0
February	8.2	N.	28	S.	0	16	9	1	11	8	1	4	8	0	6	7	16	10	8	0	0	0	12	3	0	0	0	1	0
March	11.0	N.	34	NW.	2	14	7	1	13	10	3	5	9	0	14	6	11	9	5	3	2	1	8	1	1	0	8	5	0
April	10.1	SE.	32	NW.	2	8	4	7	26	8	2	0	8	0	12	10	8	4	2	0	0	0	8	0	0	0	1	0	0
May	8.4	SE.	27	SE.	0	15	7	8	21	4	3	2	2	0	11	8	12	6	5	0	0	0	8	0	0	0	6	0	0
June	9.2	SE.	32	N.	1	3	1	7	33	12	2	0	1	1	12	13	5	9	7	0	0	0	9	0	0	0	21	0	0
July	8.0	SE.	32	SW.	1	1	1	3	37	15	3	0	3	0	14	12	5	5	4	0	0	0	2	0	0	0	29	0	0
August	7.9	SE.	34	S.	1	3	0	11	32	10	3	0	2	0	10	11	10	8	7	0	0	0	3	0	0	0	24	0	0
September	6.5	NE.	19	SE.	0	13	19	9	7	3	1	0	8	2	11	6	13	10	9	0	0	0	4	1	0	0	24	0	0
October	8.1	N.	26	N.	0	15	5	3	16	8	4	0	8	2	18	10	3	3	1	0	0	0	5	2	0	0	1	0	0
November	8.6	N.	30	S.	0	15	6	4	10	10	0	2	13	0	19	5	6	4	4	0	0	0	5	0	0	0	2	0	0
December	8.7	N.	31	NW.	0	22	8	8	8	9	1	0	5	1	7	6	18	16	10	1	0	0	16	3	1	0	8	1	0
Year	8.6	SE.	34	S.	7	137	74	66	229	104	23	16	78	5	143	100	123	98	72	4	2	1	78	13	2	92	20	44	0

BAKER, OREG.

[H_b=3,471 ft.; h_t=48 ft.; h_r=44 ft.; h_a=53 ft.]

January	6.6	SE.	21	SE.	0	2	1	3	36	8	2	9	0	1	4	6	21	17	10	26	16	0	13	2	22	0	31	0	0
February	6.8	SE.	19	SE.	0	5	6	2	25	13	1	3	3	0	6	9	14	12	9	16	11	0	6	3	14	0	27	0	0
March	6.3	SE.	28	SW.	0	3	3	3	21	8	6	14	5	0	3	7	21	16	12	18	10	0	10	3	2	0	21	0	0
April	7.6	SE.	24	SW.	0	9	3	6	24	6	2	4	4	2	4	15	11	8	5	7	3	1	2	0	0	0	13	0	0
May	6.9	SE.	24	SW.	0	14	5	0	21	9	3	2	8	0	9	11	11	12	8	1	0	0	2	0	0	0	3	3	0
June	6.8	SE.	20	NE.	0	10	1	1	23	3	1	9	12	0	13	12	5	5	3	0	0	0	0	0	0	0	4	4	0
July	6.5	N.	21	SW.	0	17	2	0	16	12	3	6	6	0	20	5	6	2	1	0	0	0	0	0	0	0	5	0	0
August	6.1	SE.	20	SW.	0	17	2	0	16	12	3	6	6	0	21	8	2	2	0	0	0	0	0	0	0	0	7	0	0
September	6.6	SE.	17	N.	0	15	6	1	24	6	0	8	6	0	19	10	1	1	0	0	0	0	0	0	0	0	1	2	0
October	6.2	SE.	24	SW.	0	12	6	1	24	6	0	6	4	0	12	8	11	6	4	6	2	1	2	1	0	0	4	0	0
November	6.0	SE.	27	SW.	0	10	1	0	29	8	4	6	4	0	12	8	11	6	4	6	2	0	6	3	0	0	13	0	0
December	6.7	SE.	22	NW.	0	4	6	4	27	13	8	2	2	0	3	7	20	9	6	7	2	0	7	1	0	0	19	0	0
					0	6	2	2	24	16	5	4	3	0	9	7	15	14	9	19	13	0	7	1	16	0	30	0	0
Year	6.6	SE.	28	SW.	0	107	24	23	298	104	39	72	62	3	123	105	138	104	67	100	57	2	48	10	54	14	161	10	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

BALTIMORE, MD.

[ϕ=39°17′ N.; λ=76°37′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.01	30.45	29.40	43.8	49.1	47.8	54.5	40.4	47.4	79	24	36	36	37	75	64	69	0.223	0.232	0.241	5.85	2.50	0.8	7.7	7.6	6.3	7.2
February	29.89	30.58	29.41	37.4	44.2	45.0	50.8	34.7	42.8	74	21	29	30	28	71	58	53	.172	.174	.165	2.08	1.27	T	6.0	6.7	3.9	6.0
March	29.73	30.19	28.55	36.0	43.2	41.4	48.4	32.2	40.3	64	16	27	26	26	68	53	56	.157	.160	.155	6.48	2.60	2.7	5.2	5.3	4.9	5.1
April	29.83	30.40	29.33	48.7	57.2	56.3	62.5	43.1	52.8	81	34	35	35	36	60	46	50	.211	.215	.223	2.15	1.19	.0	4.3	4.9	4.1	4.8
May	29.91	30.28	29.63	60.8	69.0	66.3	73.6	55.1	64.4	90	44	49	49	49	67	51	56	.363	.361	.362	5.51	1.63	.0	4.8	4.8	4.5	4.8
June	29.78	30.10	29.41	70.6	78.2	75.2	82.7	64.5	73.6	93	52	59	57	59	68	52	62	.515	.498	.532	2.91	1.19	.0	5.6	5.9	5.6	5.6
July	29.74	30.02	29.26	75.1	83.2	79.8	87.3	69.3	78.3	96	61	61	60	62	63	47	57	.553	.529	.575	2.42	.82	.0	4.5	4.8	4.7	4.6
August	29.86	30.17	29.60	74.3	83.6	80.3	87.5	69.4	78.4	99	63	62	61	63	67	48	57	.571	.549	.591	3.92	1.42	.0	4.0	4.4	3.7	4.1
September	29.94	30.37	29.49	66.7	76.8	72.3	79.8	62.4	71.1	96	47	56	55	55	70	48	57	.481	.469	.469	1.47	.53	.0	4.4	5.0	4.1	4.3
October	29.91	30.28	29.52	54.6	63.6	60.1	66.5	50.8	58.6	79	39	47	47	50	76	56	70	.343	.345	.381	7.17	3.30	.0	5.6	6.0	4.8	5.9
November	30.06	30.67	29.36	41.6	50.1	46.9	53.7	37.9	45.8	68	19	33	33	36	72	54	66	.209	.212	.230	6.17	1.76	T	5.1	4.9	3.5	5.0
December	30.05	30.53	29.41	37.0	43.5	42.0	48.3	33.5	40.9	70	15	29	31	32	73	64	69	.169	.183	.198	3.45	1.36	14.7	5.1	6.0	6.5	5.9
Year	29.89	30.67	28.55	53.9	61.8	59.4	66.3	49.4	57.9	99	15	44	43	44	69	53	60	.331	.327	.344	49.58	3.30	18.2	5.2	5.5	4.7	5.3

BELLEFONTE, PA.

[ϕ=40°54′ N.; λ=77°43′ W.]

January	28.98	29.42	28.38	36.1	41.5	38.3	45.5	31.5	38.5	70	15	31	31	31	81	68	75	0.177	0.182	0.183	3.06	0.82	2.7	9.0	8.4	7.7	8.4
February	28.86	29.52	28.41	28.0	38.0	34.8	43.0	23.2	33.1	64	11	24	24	24	84	59	65	.133	.138	.137	1.17	.42	1.7	7.8	6.6	6.3	7.2
March	28.72	29.13	27.94	26.9	34.3	31.3	38.8	22.6	30.7	58	4	22	24	24	82	65	74	.124	.134	.135	3.56	1.28	24.0	7.6	7.8	7.2	7.8
April	28.84	29.38	28.35	41.1	52.2	47.3	57.5	32.6	45.0	77	20	31	31	31	68	48	57	.179	.183	.184	1.15	.69	.6	5.9	5.9	6.4	6.2
May	28.93	29.20	28.65	54.3	66.1	59.7	70.9	42.5	56.7	87	28	46	46	46	72	51	62	.314	.327	.321	3.58	1.04	.0	4.3	5.0	6.2	5.3
June	28.82	29.12	28.52	64.3	74.2	68.0	78.3	53.7	66.0	88	31	56	55	55	77	54	67	.476	.459	.466	2.40	.61	.0	5.7	6.2	5.9	6.0
July	28.80	29.08	28.29	67.0	78.3	71.1	81.9	56.4	69.2	92	44	59	58	59	76	51	67	.507	.492	.507	3.64	1.14	.0	5.4	6.5	5.1	5.6
August	28.90	29.20	28.65	65.4	79.8	71.0	83.5	54.9	69.2	94	44	59	59	59	81	51	67	.510	.515	.506	3.85	1.11	.0	2.8	4.5	4.1	4.0
September	28.98	29.33	28.62	57.8	72.0	64.6	76.4	46.9	61.6	96	30	51	50	49	80	49	58	.402	.396	.373	.62	.44	.0	4.5	5.5	3.3	4.9
October	28.91	29.24	28.55	47.2	56.9	52.5	61.0	41.6	51.3	80	25	42	44	43	84	65	73	.288	.302	.297	5.42	2.33	T	7.3	7.3	6.5	7.6
November	29.06	29.64	28.41	31.8	42.4	36.6	46.8	26.1	36.4	59	7	28	29	28	85	61	73	.161	.174	.167	3.45	1.37	.1	6.6	5.9	5.0	6.1
December	29.01	29.44	28.35	25.7	35.5	29.1	40.7	19.0	29.8	64	−1	22	24	24	85	66	80	.125	.139	.133	1.57	.35	5.5	6.0	6.7	5.7	7.1
Year	28.90	29.64	27.94	45.5	55.9	50.4	60.4	37.6	49.0	96	−1	39	40	39	80	57	68	.283	.287	.284	33.47	2.33	34.6	6.1	6.4	5.8	6.4

BIG SPRING, TEX.

[ϕ=32°15′ N.; λ=101°30′ W.]

January				34.9	49.2		55.0	31.5	43.2	73	22	30	33		84	58		0.179	0.199		0.98		T	4.7	5.2		
February				44.1	60.6		65.8	41.1	53.4	84	24	38	40		81	52		.245	.258		3.27		0.0	6.1	6.0		6.3
March				38.1	56.8		63.5	35.4	49.4	80	18	29	30		71	40		.169	.180		.20	0.14	2.5	4.1	3.7		4.0
April		27.74	26.95	53.1	74.4		79.6	50.1	64.8	91	34	43	46		70	39		.301	.326		2.40	1.58	.0	3.8	3.0		3.8
May		27.62	27.03	61.5	75.8		79.6	58.5	69.0	88	49	56	57		83	54		.455	.473		5.27	2.36	.0	4.3	4.5		4.5
June		27.54	27.04	70.0	84.2		88.8	66.9	77.8	102	52	63	64		80	53		.584	.605		3.82	1.01	.0	4.5	3.6		3.8
July	27.36	27.60	27.00	72.9	88.6	87.9	92.1	70.6	81.4	101	67	65	64	62	76	46	45	.614	.606	.564	.90	.49	.0	2.6	4.2	1.9	3.0
August	27.33	27.51	27.13	71.0	85.2	84.3	89.6	69.9	79.8	105	64	64	64	63	79	51	51	.600	.592	.574	4.41	2.98	.0	5.5	5.8	5.0	5.4
September	27.43	27.65	27.11	62.5	73.9	69.9	77.0	61.5	69.2	94	55	60	61	62	92	67	76	.523	.539	.552	4.47	1.42	.0	5.8	6.2	6.1	6.0
October	27.40	27.80	27.05	50.2	68.4	62.1	72.6	48.2	60.4	87	32	44	47	47	81	48	60	.308	.336	.341	.51	.39	.0	4.4	3.9	3.4	4.2
November	27.52	27.88	27.08	37.3	50.8	51.5	64.4	34.7	49.6	82	18	28	33	30	70	38	45	.166	.199	.177	.07	.07	.0	2.2	3.0	2.3	2.9
December	27.44	28.00	27.11	31.0	45.0	40.2	50.0	28.5	39.2	74	14	29	32	31	90	66	72	.163	.194	.175	2.92	1.43	.3	3.8	5.5	4.4	5.0
Year				52.2	68.5		73.2	49.7	61.4	105	14	46	48		80	51		.359	.376		29.22		2.8	4.3	4.6		

BINGHAMTON, N.Y.

[ϕ=42°06′ N.; λ=75°55′ W.]

January	29.14	29.67	28.54	36.1	39.0		43.6	31.1	37.4	69	18	30	33		79	78		0.182	0.200		3.84	0.62	2.7	8.3	9.0		8.7
February	29.04	29.65	28.57	27.0	33.5		38.7	22.0	30.4	59	5	23	26		83	74		.129	.150		1.78	.71	6.6	8.1	7.7		8.2
March	28.86	29.32	27.95	26.7	33.7		36.8	23.1	30.0	55	7	21	25		78	70		.117	.143		4.14	1.55	28.2	8.0	8.2		8.3
April	29.01	29.55	28.45	38.9	46.9		52.4	33.5	43.0	73	24	30	35		72	66		.174	.206		.97	.33	1.1	6.5	8.5		8.0
May	29.13	29.51	28.81	53.1	64.0		68.4	46.4	57.4	90	33	42	40		67	44		.280	.267		3.19	1.07	.0	6.1	7.2		7.0
June	29.00	29.33	28.65	62.1	72.4		76.7	55.7	66.2	86	37	54	53		75	52		.431	.428		2.42	.80	.0	6.2	6.9		7.5
July	28.95	29.22	28.45	64.9	75.7		79.4	57.6	68.5	91	47	57	57		76	54		.471	.479		5.29	1.76	.0	6.2	8.7		7.6
August	29.09	29.42	28.80	62.8	77.4		81.6	57.8	69.7	93	49	58	58		84	52		.475	.483		2.10	1.06	.0	5.0	6.5		5.8
September	29.16	29.58	28.81	54.8	70.1		73.9	49.6	61.8	97	29	50	50		86	62		.389	.467		1.79	.76	.0	5.4	6.2		6.4
October	29.08	29.47	28.67	48.8	58.5		61.8	44.9	53.4	78	28	43	48		81	69		.292	.350		6.79	4.10	T	7.7	8.8		8.6
November	29.25	29.88	28.59	33.1	41.6		45.9	27.9	36.9	60	7	27	32		79	69		.161	.194		3.39	.89	.1	6.9	7.0		7.2
December	29.20	29.64	28.44	28.3	37.0		41.6	22.5	32.0	64	−5	23	27		80	67		.132	.158		1.20	.42	4.7	8.1	8.0		8.2
Year	29.08	29.88	27.95	44.7	54.2		58.4	39.3	48.9	97	−5	38	41		78	63		.269	.294		36.90	4.10	43.4	6.9	7.7		7.6

Annual meteorological summaries for the year ending December 31, 1932—Continued

BALTIMORE, MD.

[H_b=123 ft.; h_t=100 ft.; h_r=90 ft.; h_a=215 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature: 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	11.0	SW.	41	W.	4	6	7	5	7	10	17	1	9	0	5	8	18	10	10	1	1	0	14	2	0	0	1	0	0
February	10.6	SW.	40	SW.	3	7	6	1	3	12	14	3	12	0	7	9	13	9	8	2	1	0	13	2	0	0	10	0	0
March	14.2	NW.	47	SW.	10	5	7	1	1	9	19	4	16	0	14	8	9	10	8	8	4	0	6	0	3	0	12	2	0
April	11.9	SW.	40	NW.	5	5	12	2	3	10	13	3	12	0	14	8	8	7	6	0	0	1	1	0	0	0	0	2	0
May	10.7	SW.	32	NW.	1	5	10	2	7	16	11	1	10	0	12	13	6	11	10	0	0	0	2	1	0	3	0	9	2
June	9.2	SW.	28	NW.	0	2	10	6	2	10	17	6	7	0	11	10	9	10	6	0	0	0	2	1	0	6	0	8	0
July	10.3	SW.	40	NW.	2	1	4	5	1	6	29	5	11	0	14	11	6	10	9	0	0	0	2	0	0	12	0	8	0
August	9.3	S.	36	SW.	1	7	3	3	2	19	12	0	16	0	16	11	4	9	7	0	0	1	0	0	0	8	0	5	0
September	9.9	S.	31	NE.	0	9	8	3	1	17	11	3	8	0	14	9	7	6	5	0	0	0	2	1	0	2	0	4	0
October	11.0	SW.	31	NE.	0	9	12	1	5	10	15	4	6	0	9	10	12	10	7	0	0	0	8	2	0	0	6	0	0
November	11.0	N.	44	NE.	2	12	13	0	2	9	8	0	16	0	13	8	9	11	11	1	0	0	13	1	1	0	6	0	0
December	9.1	SW.	34	NW.	1	12	5	5	4	10	15	1	10	0	10	8	13	12	7	3	2	0	18	5	2	0	12	0	0
Year	10.7	SW.	47	SW.	29	80	97	34	38	138	181	31	133	0	139	113	114	115	94	15	8	2	81	15	6	31	41	38	2

BELLEFONTE, PA.

[H_b=1,050 ft.; h_t=5 ft.; h_r=4 ft.; h_a=42 ft.]

January	----	SW.	37	SE.	1	2	3	2	4	8	17	17	5	4	1	7	23	16	10	13	3	0	10	1	1	0	17	0	0
February	----	W.	34	W.	1	1	2	1	2	5	12	19	8	8	6	5	18	10	7	14	3	0	11	1	2	0	27	0	0
March	----	W.	52	W.	3	1	9	2	2	3	13	24	5	3	3	9	19	13	9	25	10	0	10	1	10	0	25	0	0
April	----	W.	34	SW.	1	0	9	4	6	3	6	21	9	2	9	6	15	9	5	6	2	0	4	0	0	0	16	1	0
May	----	W.	----	----	0	4	9	2	1	5	12	14	6	9	11	9	11	12	10	0	0	0	9	1	0	0	4	6	2
June	----	W.	----	----	0	6	10	1	1	9	11	12	3	7	5	14	11	13	9	0	0	0	9	1	0	0	1	9	0
July	----	SW.	45	SW.	1	3	2	1	1	2	25	17	5	6	11	10	10	12	10	0	0	0	3	1	0	2	0	9	0
August	----	W.	----	----	0	1	2	2	4	5	11	13	6	18	17	8	6	7	6	0	0	0	10	2	0	1	0	6	0
September	----	W.	----	----	0	5	6	1	5	6	7	12	5	13	12	11	7	4	3	0	0	0	9	1	0	1	2	0	0
October	----	SW.	----	----	0	4	4	3	8	7	18	11	2	5	2	12	17	11	8	1	0	0	9	2	0	0	6	0	0
November	----	SW.	----	----	0	3	10	1	0	5	16	7	2	16	8	8	14	9	7	6	1	0	9	2	1	0	24	0	0
December	----	SW.	----	----	0	0	5	1	5	0	19	13	1	18	5	7	19	11	10	11	4	0	8	6	10	0	26	0	0
Year	----	W.	52	W.	7	30	71	21	39	58	167	180	57	109	90	106	170	127	94	76	23	0	102	19	24	4	148	31	2

BIG SPRING, TEX.

[H_b=2,536 ft.; h_t= 5 ft.; h_r=3 ft.; h_a=62 ft.]

January	----	S.	----	----	----	5	5	1	3	13	1	1	2	0	12	14	5	3	2	1	0	1	11	5	1	0	16	1	0
February	----	S.	----	----	----	2	4	2	5	12	3	0	1	0	8	6	15	9	8	0	0	0	10	1	0	0	3	0	0
March	----	S.	----	----	----	5	4	2	6	9	2	0	2	1	15	8	8	2	2	4	2	0	0	0	2	0	11	0	0
April	----	S.	----	----	----	3	4	1	6	11	2	0	2	1	17	5	8	5	4	0	0	1	3	1	0	1	0	6	0
May	----	S.	----	----	----	0	11	2	7	11	0	0	0	0	13	10	8	13	8	0	0	0	5	2	0	0	0	13	0
June	----	SE.	----	----	----	1	3	2	15	7	1	0	1	0	15	10	5	8	7	0	0	1	4	0	0	12	0	11	0
July	----	SE.	----	----	----	0	2	5	37	18	0	0	0	0	19	9	3	3	2	0	0	0	1	0	0	25	0	4	0
August	----	SE.	----	----	----	1	12	5	25	16	2	0	0	1	9	15	7	8	7	0	0	0	1	0	0	11	0	7	0
September	----	SE.	----	----	----	1	21	5	24	6	2	1	0	0	11	1	18	11	9	0	0	1	10	0	0	1	0	3	0
October	----	S.	----	----	----	4	11	4	7	22	10	2	2	0	17	6	8	7	3	0	0	0	7	4	0	0	1	1	0
November	----	S.	----	----	----	5	10	6	8	23	5	2	1	0	18	9	3	1	1	0	0	0	3	1	0	0	11	0	0
December	----	NE.	----	----	----	4	18	3	5	12	11	4	5	0	15	4	12	9	8	6	1	0	12	5	5	0	21	3	0
Year	----	S.	----	----	----	31	105	38	148	160	39	10	16	3	169	97	100	79	61	11	3	4	67	19	8	50	63	49	0

BINGHAMTON, N.Y.

[H_b=871 ft.; h_t=60 ft.; h_r=53 ft.; h_a=68 ft.]

January	7.5	NW.	25	SW.	0	1	1	6	3	2	6	4	7	1	1	4	26	17	13	11	3	0	10	0	1	0	17	0	0
February	7.0	NW.	23	NW.	0	0	4	4	3	4	2	9	0	3	8	18	19	9	19	15	0	0	6	1	7	0	25	2	0
March	8.9	NW.	31	NW.	0	0	6	3	0	1	3	9	9	0	2	7	22	15	10	23	13	0	7	0	12	0	29	1	0
April	7.9	NW.	24	SW.	0	1	4	2	3	3	4	11	0	3	6	21	13	7	9	4	0	0	7	0	0	0	15	1	0
May	6.2	NW.	27	W.	0	0	3	2	3	1	3	4	7	0	7	4	20	15	12	0	0	0	6	3	0	0	0	5	2
June	5.6	NW.	21	W.	0	3	8	2	7	1	7	4	1	1	12	17	12	11	6	0	0	0	9	5	0	0	0	3	0
July	6.0	NW.	22	W.	0	3	6	1	7	0	5	3	9	0	3	9	19	11	10	0	0	4	11	5	0	1	0	8	0
August	6.2	E.	16	SW.	0	1	5	13	1	1	2	7	4	0	9	4	17	8	5	0	0	0	22	10	0	1	1	1	0
September	5.5	NE.	20	SW.	0	4	6	5	1	1	8	2	6	0	1	4	26	12	8	1	0	0	13	1	0	0	1	1	0
October	6.5	NW.	24	SW.	0	2	6	8	1	1	8	2	6	0	5	5	20	12	9	6	1	0	14	4	2	0	21	0	0
November	6.5	NW.	25	NW.	0	4	6	7	3	1	5	2	3	0	4	5	22	13	8	14	8	0	20	2	10	0	24	0	0
December	6.3	E.	22	NW.	0	2	7	8	1	5	2	3	3	0	4	5	22	13	8	14	8	0	20	2	10	0	24	0	0
Year	6.6	NW.	31	NW.	0	19	67	72	20	23	31	57	75	2	48	77	241	155	106	83	44	4	148	40	32	4	133	25	2

Annual meteorological summaries for the year ending December 31, 1932—Continued

BIRMINGHAM, ALA.

[ϕ=33°32′ N.; λ=86°50′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: 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: Precipitation: Total snowfall	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.*	*In.*				
January	29.41	29.86	28.86	47.3	55.6	52.8	60.2	43.6	51.9	78	27	42	43	43	82	64	71	0.300	0.310	0.312	6.20	1.87	0.0	6.1	6.5	5.4	6.5
February	29.31	29.77	28.99	49.9	60.8	59.4	65.8	47.6	56.7	80	29	45	44	45	83	58	62	.319	.304	.320	7.95	2.36	.0	5.6	6.8	4.7	6.1
March	29.23	29.58	28.64	43.9	55.1	52.3	60.9	40.0	50.4	82	16	35	35	34	72	50	51	.237	.238	.229	5.23	3.39	.3	4.9	4.6	4.5	4.7
April	29.24	29.56	28.92	57.3	71.1	67.4	75.8	53.9	64.8	88	38	47	48	47	70	46	52	.346	.351	.350	3.45	2.14	.0	4.2	5.1	4.3	4.6
May	29.28	29.48	29.04	63.9	76.9	71.8	80.2	59.6	69.9	86	49	56	56	54	78	50	57	.465	.455	.437	2.38	1.14	.0	4.2	5.0	5.3	4.8
June	29.20	29.42	28.93	73.4	86.2	79.0	89.7	68.7	79.2	98	63	67	67	66	80	54	67	.668	.663	.649	6.70	2.57	.0	4.1	5.2	5.9	4.8
July	29.25	29.46	29.00	76.7	88.5	82.0	92.3	72.5	82.4	99	67	72	72	72	85	59	73	.783	.784	.780	4.75	1.50	.0	4.4	5.2	6.4	5.1
August	29.25	29.43	29.02	74.2	86.1	79.8	90.0	71.4	80.7	94	66	70	72	71	88	64	76	.746	.788	.769	7.73	2.31	.0	3.7	6.1	5.8	5.2
September	29.27	29.45	29.05	67.1	80.6	74.1	83.2	64.5	73.8	93	52	62	64	63	86	58	71	.579	.598	.595	5.12	1.48	.0	5.1	6.3	5.2	5.6
October	29.26	29.56	28.59	54.9	69.2	63.2	73.4	51.5	62.4	81	37	51	52	52	86	57	69	.386	.407	.410	7.27	3.69	.0	4.2	4.7	3.8	4.5
November	29.40	29.82	28.98	42.7	54.9	50.2	59.1	39.7	49.4	74	27	36	37	36	77	54	61	.229	.242	.236	4.73	2.78	.0	4.7	4.4	3.4	4.4
December	29.40	29.71	28.96	45.2	52.1	49.3	56.7	41.4	49.0	73	20	41	42	42	86	74	79	.277	.294	.292	13.85	3.34	T	7.9	7.8	7.4	7.9
Year	29.29	20.86	28.59	58.0	69.8	65.2	73.9	54.5	64.2	99	16	52	53	52	81	57	66	.445	.453	.448	75.36	3.69	.3	4.9	5.6	5.2	5.4

BISMARCK, N.DAK.

[ϕ=46°48′ N.; λ=100°48′ W.]

January	28.18	28.85	27.14	6.1	13.3	11.5	19.7	−0.2	9.8	43	−22	3	8	7	84	76	80	0.052	0.064	0.062	0.35	0.21	4.7	4.6	5.5	4.9	5.1
February	28.13	28.71	27.40	10.2	20.4	19.2	26.7	4.7	15.7	65	−18	7	14	14	86	75	80	.072	.093	.094	.20	.12	2.2	4.9	5.8	4.4	5.0
March	28.22	28.77	27.58	15.0	23.5	25.3	28.8	12.2	20.5	55	−17	12	16	18	86	72	72	.091	.100	.110	.73	.33	7.8	5.7	6.1	6.0	5.4
April	28.16	28.71	27.79	38.0	52.4	53.7	57.9	35.8	46.8	74	21	35	37	37	89	58	56	.215	.229	.232	2.08	.69	1.2	6.4	6.6	6.9	6.4
May	28.18	28.55	27.76	47.7	63.0	64.0	67.9	45.1	56.5	91	32	43	45	45	84	56	53	.287	.315	.307	3.78	2.08	4.0	5.5	6.6	5.6	5.5
June	28.09	28.33	27.74	61.0	73.9	74.3	77.8	57.2	67.5	86	49	56	58	58	83	55	60	.449	.453	.496	2.57	1.20	.0	4.7	4.4	4.5	4.3
July	28.12	28.44	27.78	62.2	80.2	81.8	85.3	58.7	72.0	99	46	55	56	55	78	46	42	.438	.465	.441	1.38	1.06	.0	2.9	3.6	3.5	3.2
August	28.14	28.54	27.63	59.6	76.6	79.1	82.5	56.9	69.7	96	43	52	51	50	78	44	39	.409	.389	.382	.61	.20	.0	5.2	4.9	3.9	4.5
September	28.24	28.67	27.65	45.8	68.9	66.7	73.0	43.7	58.4	94	30	38	40	37	75	35	35	.234	.251	.230	.33	.15	.0	4.2	4.0	2.7	3.6
October	28.18	28.02	27.79	34.5	45.5	42.6	49.2	31.1	40.2	83	20	30	30	31	82	58	66	.165	.174	.177	2.05	1.52	3.6	6.7	6.0	7.0	6.4
November	28.23	28.78	27.63	23.4	33.6	30.5	39.0	18.7	28.8	58	−5	18	21	21	80	59	68	.104	.115	.119	.16	.07	1.6	5.2	5.8	5.8	5.7
December	28.17	28.75	27.77	11.4	20.6	17.1	25.4	6.0	15.7	54	−17	8	11	10	83	66	74	.069	.079	.077	.17	.06	1.03	5.1	4.9	4.2	4.6
Year	28.17	28.85	27.14	34.6	47.7	47.2	52.8	30.8	41.8	99	−22	30	32	32	82	58	60	.215	.227	.227	14.41	2.08	26.4	5.1	5.4	5.0	5.0

BLOCK ISLAND, R.I.

[ϕ=41°10′ N.; λ=71°36′ W.]

January	30.07	30.58	29.42	40.1	41.6	41.2	45.2	35.5	40.4	59	23	35	37	36	82	83	83	0.215	0.227	0.225	5.70	1.59	1.4	8.0	7.8	6.2	7.7
February	29.93	30.53	29.00	31.5	35.0	35.4	39.1	27.5	33.3	49	15	26	30	30	78	82	81	.147	.175	.177	2.25	1.24	1.6	5.4	5.8	4.9	5.7
March	29.89	30.30	28.17	33.8	37.8	36.5	40.7	29.5	35.1	51	15	27	32	31	76	78	79	.159	.189	.179	4.68	1.96	2.2	5.9	5.4	5.2	5.5
April	29.87	30.34	29.02	42.7	47.7	44.3	50.2	38.5	44.4	67	30	36	40	39	79	75	82	.220	.247	.239	1.96	1.57	T	6.0	6.0	4.9	5.7
May	29.99	30.39	29.66	52.9	57.1	52.5	58.7	48.0	53.4	68	42	48	49	48	83	76	86	.334	.356	.342	2.15	.95	.0	4.7	4.9	4.2	5.2
June	29.86	30.27	29.37	60.9	65.6	61.0	67.9	55.6	61.8	77	46	56	59	58	86	81	89	.464	.512	.481	2.25	.88	.0	4.5	5.6	5.2	6.1
July	29.80	30.05	29.26	67.8	72.6	67.8	75.1	62.6	68.8	82	59	62	64	63	81	76	85	.551	.603	.576	6.71	4.22	.0	2.7	3.5	4.5	3.9
August	29.96	30.30	29.68	69.9	74.2	70.0	76.6	65.3	71.0	83	60	64	66	66	83	77	86	.611	.653	.632	3.37	1.63	.0	3.5	4.5	3.8	4.3
September	30.02	30.46	29.23	62.3	66.5	63.8	68.9	58.8	63.8	80	41	56	59	58	82	77	82	.475	.514	.504	7.34	4.33	.0	4.8	4.3	4.1	4.6
October	30.00	30.42	29.50	55.5	58.8	57.1	61.2	52.0	56.6	70	42	50	52	51	82	79	81	.380	.408	.389	5.51	4.03	.0	5.3	5.2	4.3	5.5
November	30.14	30.75	29.84	43.9	47.6	45.6	51.0	37.7	44.4	62	14	38	41	38	80	78	76	.249	.275	.252	3.78	1.49	.0	5.6	5.8	4.3	5.8
December	30.11	30.62	29.34	38.0	42.1	40.9	44.8	34.3	39.6	58	8	33	36	36	82	80	81	.202	.227	.223	2.47	.66	5.4	6.4	5.7	5.9	5.9
Year	29.95	30.75	28.17	49.9	53.9	51.3	56.6	45.4	51.0	83	8	44	47	46	81	78	83	.334	.366	.352	48.17	4.33	10.6	5.2	5.4	4.8	5.5

BOISE, IDAHO

[ϕ=43°37′ N.; λ=116°13′ W.

January	27.26	27.77	26.45	23.7	30.6	30.7	33.7	20.7	27.2	51	7	20	21	22	85	66	71	0.107	0.114	0.120	1.09	.033	8.9	6.5	7.1	7.6	7.3
February	27.24	27.64	26.67	25.5	33.8	35.8	39.1	23.0	31.0	58	9	22	23	25	85	64	65	.118	.126	.140	1.04	.42	2.7	7.1	7.6	6.3	7.2
March	27.23	27.60	27.81	36.1	44.9	46.2	48.5	33.1	40.8	70	22	30	28	29	79	53	53	.172	.160	.164	2.93	.90	1.6	7.3	8.6	7.7	8.1
April	27.09	27.49	26.67	43.5	57.0	58.9	62.6	40.2	51.4	78	32	32	29	30	68	37	39	.185	.159	.164	1.75	.43	T	6.2	6.6	7.2	6.7
May	27.11	27.40	26.78	49.0	64.6	67.5	69.6	47.1	58.4	87	36	40	38	37	73	39	35	.252	.231	.226	1.92	1.15	.0	5.7	6.0	5.6	5.9
June	27.09	27.31	26.78	55.4	73.7	78.7	80.4	53.9	67.2	98	40	44	45	44	68	39	33	.291	.305	.291	.55	.16	.0	4.2	4.9	5.2	4.7
July	27.08	27.41	26.81	59.7	79.8	85.8	88.0	57.9	73.0	98	48	44	44	40	58	30	23	.292	.307	.257	.91	.71	.0	2.4	2.2	2.3	2.3
August	27.08	27.34	26.73	57.1	78.8	84.8	85.8	55.7	70.8	102	40	38	40	40	52	27	22	.237	.256	.251	T	T	.0	2.4	1.5	1.2	1.6
September	27.22	27.44	26.98	51.0	73.5	77.9	79.9	48.3	64.1	94	37	35	36	38	56	27	25	.205	.216	.234	.02	.02	.0	2.1	2.9	2.6	2.5
October	27.25	27.64	26.88	42.2	58.7	59.0	63.3	38.5	50.9	82	25	33	32	34	70	38	40	.190	.185	.190	.40	.18	T	3.6	3.9	4.6	4.2
November	27.32	27.60	26.84	37.6	46.6	46.7	51.5	33.9	42.7	68	27	31	30	31	78	56	58	.173	.170	.177	.148	.46	.1	5.9	5.2	7.2	7.7
December	27.28	27.64	26.84	21.2	29.3	28.6	33.2	17.7	25.4	54	−5	17	19	20	84	65	70	.104	.113	.117	.100	.24	6.7	7.0	6.6	6.5	6.8
Year	27.19	27.77	26.45	41.8	55.9	58.4	61.3	39.2	50.2	102	−5	32	32	32	71	45	44	.194	.194	.195	13.09	1.15	20.9	5.0	5.5	5.3	5.4

Annual meteorological summaries for the year ending December 31, 1932—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.7	S.	38	SE.	2	14	4	2	14	12	2	2	12	0	7	8	16	11	9	0	0	0	3	0	0	0	3	0	0
February	8.1	N.	24	S.	0	15	6	6	6	10	4	4	7	0	8	6	15	12	10	0	0	0	3	0	0	0	1	5	0
March	8.7	NW.	34	W.	1	16	1	1	1	16	5	6	15	1	14	6	11	8	6	4	1	0	0	0	1	0	11	3	0
April	7.8	SW.	25	NW.	0	12	1	10	6	10	12	2	7	0	13	8	9	9	7	0	0	2	0	0	0	0	0	3	0
May	6.9	N.	23	SE.	0	14	6	8	14	9	5	0	7	0	11	11	9	7	5	0	0	1	0	0	0	0	0	8	0
June	5.7	S.	25	N.	0	3	10	6	6	12	13	5	5	0	11	14	5	11	10	0	0	0	0	0	0	0	17	17	0
July	4.9	N.	27	S.	0	15	3	2	1	7	8	9	11	6	11	12	8	12	11	0	0	0	0	0	0	0	24	18	0
August	5.2	S.	23	SE.	0	9	6	12	9	10	4	5	4	3	8	15	8	15	12	0	0	0	4	0	0	0	18	17	0
September	7.1	N.	29	SE.	0	18	8	13	6	4	0	1	8	2	10	9	11	9	9	0	0	0	3	0	0	0	4	4	0
October	6.9	N.	31	SE.	0	15	3	12	6	12	1	2	10	1	14	6	11	8	8	0	0	0	4	1	0	0	0	2	0
November	7.5	E.	23	S.	0	13	6	15	0	7	3	3	13	0	14	8	8	10	8	0	0	0	1	0	0	0	6	0	0
December	7.6	NW.	29	S.	0	11	0	12	8	6	7	3	15	0	4	5	22	19	17	2	0	0	3	2	0	0	8	1	0
Year	7.1	N.	38	SE.	3	155	54	99	77	114	64	42	114	13	125	108	133	131	112	6	1	3	21	3	1	63	29	78	0

BISMARCK, N.DAK.

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

January	7.8	NW.	30	NW.	0	3	10	6	6	8	3	7	19	0	12	8	11	6	2	14	6	0	1	0	26	0	31	0	0
February	9.5	NW.	31	NW.	0	4	5	7	4	11	1	9	17	0	10	13	6	4	2	11	4	0	2	1	19	0	25	0	0
March	10.7	NW.	32	NW.	1	4	4	5	7	3	2	7	29	1	9	14	8	10	5	16	8	0	1	0	16	0	31	0	0
April	11.2	E.	30	SE.	0	8	6	15	14	3	0	2	11	1	7	10	13	8	8	1	1	0	1	0	0	0	12	2	2
May	9.8	E.	35	SE.	1	11	10	8	10	5	1	4	10	3	12	8	11	8	7	1	1	0	0	0	2	1	6	0	0
June	9.2	SE.	38	NW.	1	2	7	5	16	9	1	5	14	1	12	12	6	8	5	0	0	1	1	1	0	0	6	0	0
July	8.9	SE.	27	NW.	0	4	5	11	18	1	1	6	14	2	17	12	2	7	5	0	0	0	0	0	0	0	10	8	0
August	9.0	NW.	28	SW.	0	3	7	14	10	2	3	5	15	3	11	14	6	7	5	0	0	0	1	1	0	0	6	3	3
September	8.2	NW.	28	N.	0	5	2	7	14	1	4	7	19	1	16	9	5	5	3	0	0	0	1	0	0	0	1	2	1
October	9.7	NW.	31	NW.	0	12	5	8	6	4	2	5	19	1	8	7	16	8	6	9	3	0	1	0	2	0	19	1	1
November	10.0	NW.	34	SE.	2	2	1	9	7	7	5	6	22	1	8	12	10	5	1	11	4	0	0	0	8	0	30	0	0
December	8.1	NW.	34	NW.	1	6	0	9	4	11	4	10	16	2	13	12	6	6	2	15	5	0	0	0	18	0	31	0	0
Year	9.3	NW.	38	NW.	6	64	62	104	116	65	27	73	205	16	135	131	100	82	51	78	32	1	9	3	89	19	182	28	10

BLOCK ISLAND, R.I.

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

January	17.7	W.	44	W.	13	8	2	7	3	10	9	11	11	1	4	7	20	18	14	7	3	0	14	5	0	0	7	0	0
February	17.8	NW.	51	W.	11	4	6	3	1	6	7	11	20	0	12	4	13	10	7	7	4	0	10	3	4	0	17	0	0
March	21.3	W.	53	E.	19	5	3	2	4	10	4	18	16	0	14	5	12	11	10	9	4	0	7	0	3	0	21	0	0
April	17.0	W.	44	W.	9	3	6	4	2	7	9	14	14	1	7	14	9	7	2	2	1	0	7	2	0	0	1	1	0
May	15.3	SW.	32	N.	1	4	7	6	3	13	16	6	7	0	11	10	10	8	6	0	0	0	12	4	0	0	0	1	0
June	12.9	SW.	46	NW.	2	2	9	5	2	11	12	16	2	1	8	11	11	11	8	0	0	0	9	20	10	0	0	1	0
July	13.1	W.	30	SW.	0	2	1	1	4	16	13	17	7	1	18	9	4	8	4	0	0	0	9	8	0	0	0	5	0
August	10.8	S.	30	S.	9	1	2	4	5	22	8	15	4	1	14	11	6	7	5	0	0	0	10	2	0	0	0	2	0
September	14.3	SW.	51	N.	6	10	7	4	2	12	10	5	10	0	14	9	7	10	7	0	0	1	9	1	0	0	0	2	0
October	17.9	W.	39	W.	11	4	4	8	9	11	4	12	10	0	11	10	10	8	6	0	0	0	13	0	0	0	0	0	0
November	19.7	N.	59	E.	10	15	6	3	3	5	8	7	13	0	9	7	14	9	9	0	0	0	6	1	1	0	6	0	0
December	17.5	W.	41	NW.	10	10	7	1	2	7	8	14	13	0	11	7	13	20	14	4	4	0	10	4	4	0	13	0	0
Year	16.3	W.	59	E.	92	68	60	48	40	130	108	146	127	5	133	104	129	127	92	29	16	1	127	38	12	0	65	12	0

BOISE, IDAHO

[H_b = 2,739 ft.; h_t = 79 ft.; h_r = 72 ft.; h_a = 87 ft.]

January	5.9	SE.	21	SE.	0	7	2	3	20	12	0	3	15	0	6	5	20	14	7	18	12	0	12	3	17	0	30	0	0
February	5.2	NW.	26	NW.	0	8	3	4	14	3	0	4	22	0	4	9	16	10	4	12	9	0	2	1	10	0	25	0	0
March	6.4	SE.	23	SE.	0	4	4	4	22	3	4	0	20	1	2	7	22	15	11	9	6	2	3	0	0	0	13	3	0
April	7.4	SE.	24	SE.	0	4	4	3	24	5	3	2	15	0	5	10	15	12	9	2	1	1	0	0	0	0	2	0	0
May	6.1	NW.	24	NW.	0	12	1	5	13	2	2	1	23	3	8	13	10	8	5	0	0	0	2	0	0	0	0	3	0
June	6.7	NW.	25	NE.	0	6	0	1	18	4	2	7	21	1	10	13	7	7	5	0	0	0	0	0	0	0	10	4	0
July	5.7	NW.	21	SE.	0	4	4	4	16	2	3	3	24	2	24	4	3	3	3	0	0	0	0	0	0	0	16	4	0
August	5.1	NW.	16	NW.	0	4	0	0	13	4	4	0	27	1	24	4	3	0	0	0	0	0	0	0	0	0	13	0	0
September	4.7	NW.	18	NW.	0	4	3	3	12	1	3	6	27	1	21	6	3	1	0	0	0	0	0	0	0	0	3	0	0
October	5.1	NW.	21	NW.	0	7	2	6	13	2	1	4	25	2	15	9	7	7	4	1	0	0	1	0	0	0	7	1	0
November	5.2	SE.	24	SE.	0	10	3	3	22	2	1	5	11	3	4	6	20	10	7	1	1	0	6	6	0	0	10	0	0
December	5.2	SE.	24	W.	0	8	1	1	19	6	0	4	15	8	6	9	16	12	7	16	9	0	9	5	11	0	26	0	0
Year	5.6	NW.	26	NW.	0	78	27	46	206	46	23	39	245	22	129	95	142	99	62	59	38	5	33	15	38	42	113	15	0

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.97	30.52	29.25	36.9	41.5	40.2	45.2	32.4	38.8	69	18	30	32	31	75	70	70	0.180	0.196	0.188	4.24	1.71	6.2	7.3	7.0	6.2	7.2
February	29.83	30.38	29.20	27.0	32.9	32.8	37.9	23.4	30.6	55	11	18	23	23	68	68	66	.111	.138	.135	1.74	1.09	10.8	5.1	6.5	4.8	6.3
March	29.57	30.21	28.32	31.9	38.9	37.2	43.3	28.0	35.6	63	12	22	25	25	65	57	62	.125	.142	.146	5.28	2.45	5.8	5.4	5.7	3.9	4.9
April	29.76	30.25	28.87	43.9	51.1	48.5	55.7	39.2	47.4	76	28	32	33	34	64	54	60	.185	.195	.203	1.67	1.41	T	5.5	6.2	4.9	5.4
May	29.88	30.29	29.60	57.9	65.3	60.7	69.9	50.6	60.2	93	43	45	44	43	64	50	55	.310	.301	.290	1.63	.68	.0	4.9	5.2	5.1	4.5
June	29.74	30.22	29.31	64.7	70.6	67.7	75.7	57.2	66.4	88	42	54	52	53	69	56	63	.424	.414	.416	2.05	1.10	.0	5.2	6.3	5.7	5.4
July	29.67	29.94	29.09	70.4	78.0	73.1	82.1	63.5	72.8	90	57	57	57	58	64	51	61	.475	.479	.490	2.10	.97	.0	3.6	5.3	4.6	4.5
August	29.84	30.20	29.55	70.7	79.4	74.0	82.5	65.4	74.0	91	59	60	59	62	69	51	66	.523	.505	.556	4.24	1.58	.0	3.1	3.8	3.5	3.6
September	29.92	30.35	29.17	61.4	68.6	65.4	73.3	57.0	65.2	87	40	52	53	54	73	60	67	.414	.433	.437	4.50	3.10	.0	3.7	4.7	3.7	4.3
October	29.90	30.36	29.35	53.2	61.1	56.5	64.2	50.0	57.1	81	38	45	46	47	74	69	73	.322	.343	.350	7.18	3.65	.0	5.9	6.5	4.0	6.1
November	30.05	30.72	29.31	39.8	46.4	43.1	51.2	34.5	42.8	66	8	30	32	33	68	58	67	.189	.200	.208	5.24	2.33	T	5.1	5.5	4.2	5.1
December	29.99	30.52	29.18	34.6	41.0	39.8	45.7	30.5	38.1	66	0	26	27	29	69	58	65	.157	.168	.174	1.78	.50	8.6	5.2	5.9	6.2	5.9
Year	29.84	30.72	28.32	49.4	56.2	53.3	60.6	44.3	52.4	93	0	39	40	41	68	58	65	.285	.293	.299	41.65	3.65	31.4	5.0	5.7	4.7	5.3

BROWNSVILLE, TEXAS

[ϕ=26°00′ N.; λ=97° 26′ W.]

January	29.97	30.35	29.58	60.6	67.9	64.5	71.0	56.5	63.8	80	40	55	56	57	84	68	79	0.485	0.477	0.504	1.48	0.51	0.0	7.5	6.9	6.8	7.1
February	29.92	30.35	29.66	64.0	73.8	69.6	76.9	61.7	69.3	87	48	62	59	62	94	63	78	.577	.526	.576	1.80	1.67	.0	7.3	6.1	4.9	5.9
March	29.93	30.48	29.43	56.9	68.5	63.4	71.9	53.6	62.8	90	32	52	48	52	84	52	67	.437	.381	.428	2.39	1.64	.0	5.6	5.3	5.5	5.3
April	29.85	30.32	29.56	68.0	78.4	73.6	80.8	65.8	73.3	91	50	64	60	63	87	57	71	.616	.562	.596	6.59	6.28	.0	5.5	5.9	5.0	5.4
May	29.87	30.08	29.58	72.4	83.5	78.3	84.7	69.8	77.2	91	61	69	65	67	90	56	70	.716	.630	.677	.56	.28	.0	4.5	4.8	4.1	4.4
June	29.79	29.95	29.66	77.9	87.3	82.3	89.0	75.1	82.0	95	72	74	71	73	89	60	73	.846	.767	.804	3.48	1.89	.0	3.6	5.0	3.7	3.9
July	29.86	30.06	29.56	78.3	89.1	84.7	91.2	76.2	83.7	99	71	75	71	73	90	56	68	.877	.767	.808	.17	.11	.0	3.2	4.9	2.9	3.5
August	29.81	29.95	29.65	78.3	88.9	84.3	91.7	76.7	84.2	100	73	75	71	72	90	57	68	.872	.762	.794	1.12	.67	.0	4.4	5.1	4.1	4.0
September	29.84	29.97	29.68	74.5	84.5	80.8	87.5	73.4	80.4	96	68	72	70	72	93	65	76	.793	.751	.796	9.88	4.17	.0	4.0	5.9	4.1	4.6
October	29.90	30.26	29.63	68.4	79.3	74.6	81.4	66.4	73.9	90	52	64	62	66	85	58	74	.616	.590	.654	6.36	5.47	.0	3.0	4.5	2.6	3.6
November	30.08	30.39	29.66	56.8	69.6	64.8	72.6	54.9	63.8	83	42	51	49	53	80	51	68	.396	.387	.439	.59	.31	.0	3.4	3.4	1.3	2.7
December	30.00	30.62	29.58	55.3	61.2	58.3	64.5	52.3	58.4	77	29	52	51	52	90	73	80	.424	.405	.412	.75	.27	.0	7.5	7.7	7.4	7.5
Year	29.90	30.62	29.43	67.6	77.7	73.3	80.3	65.2	72.7	100	29	64	61	64	88	60	73	.638	.584	.624	35.17	6.28	.0	5.0	5.5	4.4	4.8

BUFFALO, N.Y.

[ϕ=42°53′ N.; λ=78°53′ W.]

January	29.21	29.75	28.60	35.8	37.4	36.7	42.5	31.8	37.2	61	11	31	31	32	82	76	82	0.181	0.175	0.185	4.97	1.40	6.1	8.5	8.7	7.6	8.6
February	29.11	29.76	28.49	29.2	32.5	31.1	38.3	24.3	31.3	68	14	25	26	25	83	76	77	.143	.150	.138	2.21	.53	12.6	7.8	7.6	7.0	7.4
March	28.99	29.42	28.16	26.6	29.3	28.9	34.1	22.9	28.5	59	7	22	23	23	82	76	77	.122	.126	.124	3.35	1.08	21.6	7.5	8.7	7.7	8.2
April	29.12	29.70	28.56	37.4	41.6	41.2	46.5	33.1	39.8	70	23	28	30	32	71	66	72	.157	.173	.181	2.52	.45	5.5	6.5	6.4	6.8	6.5
May	29.21	29.63	28.93	51.3	54.5	54.0	60.1	46.3	53.2	77	36	44	44	44	77	69	72	.297	.294	.303	3.45	1.58	.0	6.3	6.0	5.5	5.8
June	29.08	29.40	28.75	62.5	66.9	66.8	71.1	58.3	64.7	89	45	54	53	56	76	64	70	.437	.424	.457	1.47	.50	.0	4.9	5.6	5.3	5.6
July	29.05	29.37	28.49	64.9	68.8	69.1	72.9	61.2	67.0	84	50	57	58	59	78	69	70	.479	.482	.501	4.32	1.45	.0	5.4	5.8	5.1	5.9
August	29.16	29.49	28.80	67.4	72.7	70.9	76.5	62.9	69.7	86	53	59	60	60	74	64	70	.500	.515	.528	1.83	.86	.0	4.0	4.5	4.5	4.3
September	29.24	29.58	28.81	59.6	67.3	65.0	71.5	55.7	63.6	83	42	51	52	52	74	59	64	.393	.402	.412	1.67	.57	.0	4.7	4.6	4.4	4.6
October	29.14	29.53	28.67	50.7	56.1	53.6	60.1	47.0	53.6	76	34	43	45	44	76	67	72	.289	.304	.304	3.26	.92	T	6.8	7.5	6.4	7.2
November	29.33	29.99	28.69	35.4	39.2	37.7	43.7	31.2	37.4	58	13	30	31	31	81	73	77	.178	.183	.182	4.50	1.56	15.9	7.3	6.4	5.6	6.9
December	29.24	29.74	28.61	30.8	33.9	32.3	38.8	25.6	32.2	56	6	25	27	26	80	75	78	.145	.156	.150	2.70	1.13	8.9	7.9	7.7	7.7	7.6
Year	29.16	29.99	28.16	46.0	50.0	48.9	54.7	41.7	48.2	89	6	39	40	40	78	70	73	.277	.282	.289	36.25	1.58	70.6	6.5	6.6	6.1	6.6

BURLINGTON, VT.

[ϕ=44°29′ N.; λ=73°12′ W.]

January	29.62	30.22	28.87	28.9	32.1	.....	36.7	22.8	29.8	60	5	24	25	---	81	76	---	0.136	0.146	.....	2.15	0.58	11.3	8.7	7.9	.....	8.3
February	29.53	30.11	28.88	16.4	23.7	.....	29.2	13.7	21.4	52	−7	14	16	---	84	72	---	.092	.101	.....	1.19	.26	13.8	7.4	7.2	.....	6.8
March	29.31	29.87	28.28	22.3	28.7	.....	32.0	18.2	25.1	48	4	17	18	---	79	64	---	.097	.104	.....	3.06	.98	22.1	7.8	6.3	.....	6.7
April	29.48	30.05	28.74	36.9	43.7	.....	47.4	31.6	39.5	72	18	29	31	---	73	62	---	.162	.176	.....	2.82	.78	6.5	7.2	7.8	.....	7.5
May	29.59	29.98	29.26	53.2	62.0	.....	67.1	44.5	55.8	88	33	40	39	---	82	46	---	.259	.260	.....	1.75	.76	.0	6.5	5.8	.....	6.4
June	29.44	29.83	29.04	62.3	68.7	.....	73.5	53.7	63.6	85	38	54	54	---	74	60	---	.429	.431	.....	2.49	.46	.0	5.8	5.7	.....	6.0
July	29.36	29.72	28.80	65.1	71.0	.....	75.1	57.7	66.4	85	49	56	56	---	73	60	---	.456	.458	.....	3.08	1.59	.0	5.7	5.4	.....	6.3
August	29.52	29.93	29.24	66.6	74.2	.....	77.8	59.1	68.4	88	49	58	60	---	76	62	---	.495	.516	.....	1.87	.71	.0	4.7	5.9	.....	5.3
September	29.61	30.03	29.10	57.9	66.2	.....	69.6	50.7	60.2	87	33	51	51	---	79	59	---	.395	.401	.....	1.87	.98	.0	5.0	5.2	.....	5.5
October	29.56	30.05	29.01	47.7	53.7	.....	58.6	42.9	50.8	75	27	41	42	---	77	65	---	.268	.280	.....	6.06	4.21	T	7.6	7.7	.....	7.7
November	29.75	30.44	29.05	30.1	35.4	.....	40.6	25.9	33.2	57	6	24	26	---	79	69	---	.140	.151	.....	3.83	1.17	3.1	7.6	7.4	.....	7.1
December	29.65	30.23	28.85	27.3	32.2	.....	36.4	22.4	29.4	61	−9	22	23	---	80	68	---	.128	.132	.....	1.88	1.01	4.3	7.8	7.5	.....	7.9
Year	29.53	30.44	28.28	43.1	49.3	.....	53.7	36.9	45.3	88	−9	36	37	---	76	64	---	.255	.263	.....	37.05	4.21	61.1	6.8	6.6	.....	6.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

BOSTON, MASS.

[H_b=125 ft.; h_t=106 ft.; h_r=96 ft.; h_a=165 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction of time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32°: Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	9.0	W.	28	NW.	0	8	5	1	3	5	10	14	16	0	6	8	17	18	12	10	6	0	4	3	2	0	15	0	0
February	7.7	NW.	21	NW.	0	4	6	1	3	6	2	11	25	0	8	8	13	9	8	15	7	0	9	4	7	0	23	1	0
March	11.3	NW.	32	S.	1	6	3	1	3	5	6	14	24	0	13	8	10	12	9	11	6	0	1	0	2	0	23	0	0
April	9.9	NW.	30	SW.	0	3	2	6	4	3	7	12	23	0	11	10	9	6	4	3	0	0	3	0	0	0	4	1	0
May	8.6	SW.	32	NW.	0	4	4	10	0	8	16	10	10	0	13	12	6	6	5	0	0	0	0	0	0	3	0	1	0
June	7.7	SW.	24	W.	0	1	8	7	1	6	17	9	10	1	7	15	8	11	8	0	0	0	4	0	0	0	0	3	0
July	7.5	SW.	21	NW.	0	4	1	1	0	11	14	11	18	2	16	8	7	9	6	0	0	1	1	0	0	1	0	7	0
August	6.5	SW.	18	S.	0	2	0	1	2	13	17	11	15	1	17	10	4	10	8	0	0	0	0	0	0	1	0	5	0
September	8.7	NW.	24	NE.	0	6	5	5	2	4	13	8	17	0	15	8	7	6	6	0	0	0	3	1	0	0	0	1	0
October	9.6	W.	27	NE.	0	2	4	2	3	15	11	12	13	0	6	12	13	9	6	0	0	0	6	1	0	0	0	0	0
November	9.8	NW.	28	S.	0	6	5	3	4	5	8	11	17	0	9	11	10	9	7	1	0	0	5	0	1	0	10	0	0
December	8.7	NW.	25	NW.	0	2	1	2	1	4	15	20	17	0	11	7	13	12	12	7	6	0	4	2	4	0	16	0	0
Year	8.8	NW.	32	S.	1	48	44	40	26	85	137	143	205	4	132	117	117	117	91	47	25	1	40	11	16	5	91	19	1

BROWNSVILLE, TEXAS

[H_b=57 ft.; h_t=83 ft.; h_r=74 ft.; h_a=100 ft.]

January	12.0	SE.	34	SE.	1	6	3	9	19	6	0	2	16	1	2	13	16	12	8	0	0	0	1	0	0	0	0	1	0
February	11.7	SE.	35	SE	1	4	7	5	26	5	0	5	6	0	6	14	9	3	2	0	0	0	6	1	0	0	0	2	0
March	13.0	SE.	38	NW.	2	4	6	5	25	4	1	1	16	0	12	9	10	6	4	0	0	0	8	3	0	1	2	3	0
April	12.0	SE.	32	N	1	3	6	15	30	1	0	2	3	0	8	14	8	6	3	0	0	0	5	0	0	1	0	5	0
May	10.7	SE.	36	NW.	1	4	7	18	27	2	0	2	2	0	14	13	4	4	3	0	0	0	10	0	0	3	0	3	0
June	12.0	SE.	28	SE	0	3	3	8	42	4	0	0	0	0	18	7	5	5	4	0	0	0	1	0	0	13	0	2	0
July	10.1	SE.	24	SE	0	2	1	12	42	2	0	1	1	1	17	14	0	4	2	0	0	0	1	0	0	22	0	3	0
August	10.3	SE.	26	SE	0	1	3	11	36	5	0	2	4	0	15	13	3	8	7	0	0	0	0	0	0	22	0	6	0
September	7.7	N.	19	N	0	8	15	9	6	2	1	5	13	1	12	12	6	16	13	0	0	0	4	0	0	10	0	6	0
October	9.5	SE.	29	N	0	6	10	13	13	2	1	3	16	0	18	9	4	6	5	0	0	0	6	0	1	0	0	1	0
November	10.1	NW.	30	NW	0	12	4	8	12	6	0	3	15	0	20	8	2	4	4	0	0	0	9	0	0	0	0	1	0
December	10.2	NW.	32	NW.	1	9	4	6	12	1	0	4	26	0	5	6	20	13	6	0	0	0	16	4	0	0	1	0	0
Year	10.8	SE.	38	NW.	7	62	69	119	290	40	3	28	118	3	147	132	87	87	61	0	0	0	67	8	0	73	3	33	0

BUFFALO, N.Y.

[H_b=767 ft.; h_t=243 ft.; h_r=238 ft.; h_a=280 ft.]

January	18.9	W.	56	W.	15	2	0	7	8	6	14	18	7	0	2	4	25	18	15	15	7	0	8	0	1	0	14	1	0
February	17.8	W.	54	W.	13	4	2	6	3	4	17	16	6	0	4	4	21	16	12	19	10	0	5	0	8	0	25	1	0
March	18.6	W.	53	W.	12	2	6	7	1	2	11	21	12	6	0	11	20	18	11	23	17	1	5	0	12	0	29	1	0
April	14.7	NW.	43	SW.	5	4	9	11	2	3	8	9	14	0	8	7	15	13	10	10	7	0	10	0	1	0	13	1	0
May	13.3	SW.	40	SW.	3	2	4	7	6	2	29	9	3	0	10	9	12	11	10	0	0	0	2	0	0	0	0	6	2
June	12.2	SW.	40	SW.	8	1	6	4	7	4	21	12	5	0	6	17	7	9	7	0	0	0	3	0	0	0	0	4	0
July	14.1	SW.	43	W	6	3	6	3	3	0	20	17	10	0	9	11	11	13	11	0	0	0	2	0	0	0	0	6	0
August	11.9	SW.	50	W	6	0	1	5	3	7	20	14	11	1	15	12	4	11	9	0	0	0	3	0	0	0	0	4	4
September	13.2	NW.	50	SW.	8	7	8	5	4	6	9	8	13	0	13	11	6	8	7	0	0	0	0	0	0	0	0	4	0
October	18.6	W.	59	SW.	15	1	7	4	5	15	10	13	7	0	3	10	18	15	10	2	0	0	0	0	0	0	0	2	0
November	15.9	SW.	50	SW.	12	3	6	14	3	7	11	13	3	0	8	5	17	15	11	11	5	0	4	0	3	0	17	0	0
December	19.7	SW.	59	SW	16	0	2	8	0	12	18	15	6	1	5	7	19	15	13	10	8	0	8	1	10	0	20	0	0
Year	16.7	SW.	59	SW.	119	29	57	81	45	68	188	165	97	2	83	108	175	162	126	90	54	1	50	1	35	0	118	30	6

BURLINGTON, VT.

[H_b=403 ft.; h_t=11 ft.; h_r=3 ft.; h_a=48 ft.]

January	13.0	S.	38	S.	5	3	1	2	4	10	1	3	7	0	1	7	23	15	11	20	7	0	5	1	9	0	26	0	0
February	11.4	S.	38	S.	3	10	2	1	3	8	1	0	4	0	6	8	15	14	8	22	13	0	4	1	18	0	28	0	0
March	12.3	NW.	34	S.	2	5	1	1	4	4	2	3	11	0	6	10	15	13	8	20	11	0	1	1	18	0	29	0	1
April	9.6	NW.	30	S.	0	5	3	2	4	5	1	1	9	0	4	6	20	14	9	12	6	0	6	3	2	0	16	0	3
May	9.4	S.	23	S.	0	4	1	0	1	15	1	3	6	0	9	7	15	8	6	0	0	0	4	0	0	0	0	6	1
June	8.5	S.	24	SE.	0	3	0	1	5	14	2	4	1	0	9	7	14	13	11	0	0	0	4	0	0	0	0	2	0
July	8.8	S.	29	SE.	0	2	1	0	0	17	0	4	7	0	7	7	17	19	18	0	0	0	2	0	0	0	0	9	0
August	8.9	S.	30	SE.	0	1	1	2	1	21	0	3	2	0	10	11	10	11	10	0	0	0	0	4	2	0	0	6	0
September	9.1	NW.	30	S.	0	3	2	1	6	9	0	4	5	0	10	8	12	9	8	0	0	0	1	0	0	0	0	4	3
October	11.7	S.	38	SE.	2	3	1	1	2	13	1	2	7	0	3	4	24	14	9	1	0	0	1	0	5	0	19	0	0
November	11.6	S.	32	SE.	1	7	0	2	7	8	0	0	6	0	5	6	19	9	7	10	2	0	1	0	5	0	19	0	0
December	12.2	S.	42	S.	4	3	4	3	2	14	1	3	1	0	3	6	22	10	7	14	7	0	3	1	10	0	25	0	0
Year	10.5	S.	42	S.	17	49	17	16	40	138	10	30	66	0	73	87	206	149	112	99	46	0	36	9	62	0	149	27	8

Annual meteorological summaries for the year ending December 31, 1932—Continued

CAIRO, ILL.

[ϕ=37°00′ N.; λ=89°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: Monthly	Moisture: Dew point: Maximum	Moisture: Dew point: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.73	30.31	29.07	39.9	45.2	45.7	51.6	36.6	44.1	68	20	36	37	38	86	74	77	0.223	0.235	0.252	7.02	1.36	0.9	6.9	7.0	6.3	6.8
February	29.66	30.21	29.08	43.0	50.4	52.3	56.8	40.5	48.6	75	29	38	38	41	83	66	68	.244	.243	.280	4.43	2.72	T	6.4	6.4	7.0	6.5
March	29.60	30.07	28.69	37.4	45.7	46.7	51.4	34.0	42.7	74	11	31	33	33	77	62	60	.193	.212	.213	4.19	1.02	2.0	6.4	6.1	6.9	6.8
April	29.58	30.00	29.09	54.0	63.4	64.4	68.8	51.8	60.3	82	40	46	46	47	76	57	56	.329	.334	.344	3.28	1.04	.0	7.4	6.9	6.4	6.6
May	29.60	29.95	29.43	62.0	73.5	72.7	77.6	59.1	68.4	87	48	54	54	53	76	51	52	.430	.427	.419	.50	.27	.0	4.5	5.8	5.6	5.7
June	29.52	29.71	29.34	72.2	83.2	81.9	87.3	69.2	78.2	97	63	66	65	65	80	56	59	.638	.634	.632	1.78	.70	.0	6.8	7.1	5.9	6.6
July	29.58	29.80	29.24	75.3	86.4	86.1	90.6	72.4	81.5	98	62	69	69	70	81	57	60	.716	.724	.748	2.58	1.03	.0	5.5	5.9	5.6	5.4
August	29.60	29.82	29.37	72.0	83.9	81.8	87.9	70.0	79.0	96	59	67	68	70	86	60	68	.682	.697	.738	3.79	1.68	.0	4.3	4.7	5.4	5.0
September	29.67	29.88	29.23	63.9	75.2	72.6	78.2	62.3	70.2	90	52	60	59	62	86	59	71	.529	.524	.571	5.67	1.99	.0	6.9	6.1	5.9	5.9
October	29.63	29.89	29.19	51.6	63.2	60.1	67.3	49.0	58.2	80	38	46	47	48	84	58	66	.332	.340	.360	3.56	1.43	.0	4.7	5.2	4.8	4.9
November	29.80	30.29	29.29	38.3	47.3	45.9	52.1	35.4	43.8	71	24	33	35	35	82	64	67	.202	.216	.213	2.65	1.02	1.6	6.0	6.4	5.4	6.1
December	29.78	30.26	29.13	32.6	39.2	38.4	44.4	29.9	37.2	69	5	29	31	31	86	74	75	.179	.199	.195	6.88	4.50	2.0	7.0	6.8	5.3	7.0
Year	29.65	30.31	28.69	53.5	63.0	62.4	67.8	50.8	59.4	98	5	48	48	49	82	62	65	.391	.399	.414	46.33	4.50	6.5	6.1	6.2	5.9	6.1

CANTON, N.Y.

[ϕ=44°36′ N.; λ=75°10′ W.]

January	29.57	30.16	28.81	28.1	31.8	30.3	36.5	21.3	28.9	59	−4	25	20	...	89	78	...	0.146	0.149	.....	3.68	1.05	12.7	7.5	7.9	....	8.3
February	29.47	30.11	28.82	17.7	23.6	20.8	29.0	11.8	20.4	57	−7	14	17	...	86	74	...	.091	.101	.....	2.05	.40	17.9	6.7	6.3	....	6.5
March	29.29	29.76	28.38	20.3	27.0	24.1	31.5	14.5	23.0	54	−3	16	18	...	84	69	...	.097	.105	.....	4.08	1.06	29.1	6.4	6.2	....	5.8
April	29.44	30.07	28.75	35.7	42.2	38.7	45.5	29.6	37.6	71	14	29	32	...	77	69	...	.163	.182	.....	4.50	1.33	15.6	7.2	7.4	....	7.0
May	29.53	29.94	29.17	53.8	62.2	56.0	66.6	44.6	55.6	86	30	41	42	...	64	50	...	.274	.285	.....	1.57	.53	.0	5.4	6.3	....	6.0
June	29.39	29.74	29.03	62.7	70.4	65.0	74.7	53.4	64.0	86	38	55	55	...	76	61	...	.445	.452	.....	2.82	.56	.0	5.5	6.5	....	5.8
July	29.33	29.66	28.74	64.9	71.7	66.8	75.7	56.5	66.1	88	48	56	56	...	73	60	...	.449	.457	.....	3.54	1.22	.0	5.3	6.8	....	5.8
August	29.46	29.87	29.15	66.4	75.2	68.7	78.6	57.9	68.2	89	43	59	59	...	77	60	...	.496	.514	.....	4.28	1.23	.0	4.4	5.5	....	5.1
September	29.57	29.98	29.20	57.2	67.2	58.9	70.7	48.1	59.4	91	30	52	50	...	82	56	...	.399	.384	.....	1.03	.47	T	4.1	5.2	....	5.0
October	29.48	29.97	28.96	47.3	55.1	50.0	58.6	41.2	49.9	77	29	42	43	...	84	65	...	.282	.290	.....	5.57	3.21	T	7.4	7.1	....	7.5
November	29.70	30.40	29.07	29.6	36.4	31.6	40.2	23.6	31.9	60	4	25	28	...	84	72	...	.149	.161	.....	4.18	1.40	6.0	6.3	7.3	....	6.4
December	29.59	30.16	28.92	27.7	32.5	26.8	35.5	20.1	27.8	60	−18	22	24	...	81	72	...	.133	.142	.....	2.52	.77	7.9	8.0	7.6	....	7.5
Year	29.48	30.40	28.38	42.6	49.6	44.8	53.6	35.2	44.4	91	−18	36	38	...	80	66	...	.260	.268	.....	39.82	3.21	89.2	6.2	6.7	....	6.4

CAPE HENRY, VA.

[ϕ=36°56′ N.; λ=76°00′ W.]

January	30.14	30.52	29.62	50.9	54.8	51.9	59.8	44.4	52.1	79	36	44	44	42	80	69	72	0.315	0.310	0.291	4.39	1.33	0.0	7.3	5.7	4.3	6.3
February	30.01	30.68	29.48	45.4	51.3	48.9	55.8	41.5	48.6	82	29	38	38	41	74	63	75	.239	.251	.274	2.43	.88	.0	5.6	5.7	4.8	5.9
March	29.86	30.35	28.30	43.5	48.3	45.5	53.8	37.5	45.6	82	21	34	34	34	68	59	66	.212	.214	.212	3.43	1.41	.4	5.8	5.5	4.0	5.5
April	29.95	30.47	29.45	52.2	58.3	54.1	62.7	45.8	54.2	86	35	41	40	44	66	54	71	.268	.268	.299	4.50	2.35	.0	5.5	4.7	3.2	5.0
May	30.02	30.35	29.66	63.9	67.1	62.3	70.6	56.8	63.7	89	46	55	54	55	75	66	77	.451	.430	.437	2.06	1.05	.0	5.3	5.3	5.1	5.7
June	29.91	30.23	29.53	73.2	78.6	72.7	81.9	67.1	74.5	95	54	66	65	65	78	64	78	.642	.623	.636	2.41	1.21	.0	5.5	5.0	5.6	5.3
July	29.88	30.13	29.42	77.2	82.2	76.7	85.7	70.4	78.0	94	61	68	67	67	73	61	73	.683	.668	.671	4.69	2.39	.0	4.7	4.4	4.3	4.9
August	29.98	30.24	29.78	76.5	81.2	75.3	83.7	70.5	77.1	93	63	68	68	69	76	65	80	.695	.689	.707	2.13	1.33	.0	5.4	4.8	3.9	5.0
September	30.04	30.44	29.54	71.1	75.0	70.6	77.6	65.4	71.5	91	49	62	62	62	74	65	76	.583	.581	.586	1.66	1.38	.0	4.8	4.8	3.9	4.7
October	30.02	30.36	29.62	62.0	67.1	62.8	70.2	56.7	63.4	84	43	55	54	55	79	66	77	.459	.444	.453	3.85	2.00	.0	4.0	4.7	2.4	4.5
November	30.15	30.65	29.56	49.4	54.4	51.3	57.7	44.8	51.2	72	27	44	44	44	81	70	77	.310	.313	.313	3.56	1.43	T	5.9	5.1	4.5	5.4
December	30.17	30.61	29.54	44.1	50.3	47.1	54.5	39.3	46.9	75	24	39	41	40	83	73	78	.252	.272	.260	3.80	1.39	4.5	6.3	4.6	4.9	6.5
Year	30.01	30.68	28.30	59.1	64.0	59.9	67.8	53.4	60.6	95	21	51	51	52	76	65	75	.426	.422	.428	38.91	2.39	4.9	5.5	5.0	4.2	5.4

CHARLES CITY, IOWA

[ϕ=43°04′ N.; λ=92°38′ W.]

January	28.96	29.66	28.31	18.4	23.5	21.2	27.1	11.7	19.4	40	−15	16	18	17	88	77	84	0.092	0.104	0.105	2.37	0.85	16.5	7.9	6.6	6.5	7.1
February	28.91	29.47	27.94	19.1	27.8	25.7	32.7	14.2	23.4	52	−7	16	20	21	86	71	82	.103	.118	.122	1.62	.67	9.9	4.9	5.1	6.0	5.3
March	28.91	29.41	28.35	20.2	27.3	25.9	31.6	17.1	24.4	67	−5	16	18	20	81	65	76	.101	.109	.115	1.97	.57	19.1	5.9	5.7	4.9	5.8
April	28.92	29.30	28.53	40.5	53.1	51.0	57.7	35.9	47.3	77	27	34	36	38	77	53	62	.196	.216	.239	1.36	.61	.0	5.3	5.7	5.2	5.6
May	28.92	29.24	28.56	54.9	68.0	64.9	71.9	48.8	60.4	93	35	47	48	48	75	51	58	.331	.347	.351	4.92	1.42	.0	4.5	5.2	4.8	4.4
June	28.85	29.08	28.49	65.7	78.4	75.0	81.6	61.4	71.5	93	56	60	60	62	82	56	65	.523	.531	.558	4.77	2.03	.0	5.8	5.1	5.8	5.7
July	28.87	29.18	28.38	68.6	82.3	79.0	85.7	61.7	73.7	97	49	60	60	62	75	48	57	.536	.534	.564	2.70	.93	.0	3.1	3.4	2.8	2.9
August	28.90	29.15	28.59	64.1	78.4	74.4	81.9	60.4	71.2	92	48	59	59	61	84	53	65	.512	.518	.563	5.45	2.07	.0	5.2	4.2	3.1	4.5
September	29.03	29.41	28.56	50.9	70.1	62.0	72.6	47.1	59.8	83	33	46	46	49	85	43	64	.321	.321	.362	1.85	1.08	.6	2.8	2.6	1.7	2.5
October	28.90	29.19	28.40	40.5	52.5	47.6	56.8	36.3	46.6	82	25	35	37	37	82	58	68	.215	.224	.231	1.01	.70	.2	6.2	6.6	4.9	6.5
November	29.02	29.65	28.30	25.5	37.2	32.0	40.2	21.6	30.9	62	3	22	26	24	84	60	70	.123	.139	.133	1.97	1.67	.4	5.5	6.0	4.7	5.9
December	28.97	29.54	28.19	14.7	24.4	22.6	27.4	9.7	18.6	57	−19	12	16	16	87	67	79	.089	.103	.102	1.50	1.21	5.9	4.1	5.1	4.5	5.3
Year	28.93	29.66	27.94	40.3	51.9	48.4	55.6	35.6	45.6	97	−19	35	37	38	82	58	69	.263	.272	.287	31.52	2.07	52.0	5.0	5.1	4.5	5.1

Annual meteorological summaries for the year ending December 31, 1932—Continued

CAIRO, ILL.

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

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Wind: Number of winds, 8 a.m. and 8 p.m.: Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	Maximum temp. 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	9.4	S.	35	SW.	1	3	4	3	13	14	10	6	9	0	8	4	19	13	12	3	1	0	3	1	1	0	8	4	0
February	10.3	S.	30	SW.	0	9	10	6	4	14	6	4	5	0	6	8	15	9	8	1	0	0	4	1	0	0	5	2	0
March	11.1	NW.	32	SW.	1	10	5	2	6	10	4	4	21	0	3	13	15	12	11	6	2	1	0	0	6	0	11	5	0
April	9.8	S.	32	SW.	1	12	8	8	2	15	6	2	7	0	6	9	15	7	6	0	0	0	0	0	0	0	0	7	0
May	8.8	S.	25	N.	0	10	15	3	4	19	4	1	6	0	7	13	11	3	2	0	0	0	0	0	0	0	0	5	1
June	7.2	S.	25	SW.	0	9	11	4	8	12	10	3	3	0	3	13	14	11	7	0	0	1	0	0	0	8	0	11	0
July	7.2	SW.	27	N.	0	5	10	7	3	12	18	4	3	0	10	11	10	8	7	0	0	0	0	0	0	20	0	12	0
August	6.7	S.	26	N.	0	7	15	5	8	17	5	3	1	0	10	14	7	11	8	0	0	0	0	0	0	12	0	11	0
September	7.4	N.	23	NE.	0	18	12	2	8	5	2	4	6	3	8	10	12	9	9	0	0	0	1	0	0	0	0	3	0
October	8.5	S.	23	NW.	0	7	3	2	9	17	9	1	12	2	13	8	10	9	7	0	0	0	1	0	0	0	0	9	0
November	9.2	N.	27	N.	0	15	10	1	7	13	6	3	5	0	9	5	16	7	6	5	4	0	3	0	0	0	15	1	0
December	10.3	S.	29	SW.	0	15	4	2	8	18	5	2	6	2	6	7	18	14	10	8	3	0	7	5	9	0	16	1	0
Year	8.8	S.	35	SW.	3	120	110	45	80	166	83	37	84	7	89	115	162	113	93	23	10	2	19	7	16	40	55	62	1

CANTON, N.Y.

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

January	11.1	SW.	33	W.	2	4	2	6	0	1	8	8	2	0	1	8	22	17	14	16	11	0	2	1	14	0	28	0	0
February	9.2	E.	34	W.	1	2	5	4	3	2	5	3	5	0	7	8	14	17	13	24	13	0	3	0	19	0	28	0	0
March	10.4	W.	34	W.	1	1	3	5	0	3	6	5	8	0	9	9	13	17	12	21	16	0	1	0	18	0	30	0	0
April	8.9	W.	29	E.	0	2	2	4	0	3	3	10	6	0	5	6	19	14	11	12	8	0	7	1	4	0	22	0	2
May	9.0	SW.	27	W.	0	1	5	3	0	2	10	8	2	0	8	11	12	8	8	0	0	0	4	0	0	0	2	2	3
June	7.3	W.	30	SW.	0	0	4	0	1	4	10	9	2	0	8	13	9	15	11	0	0	0	1	4	2	0	0	6	0
July	8.0	W.	22	SE.	0	2	1	1	0	1	13	9	4	0	10	12	9	13	10	0	0	0	0	0	0	0	0	4	2
August	7.2	SW.	25	W.	0	1	0	1	1	3	15	9	1	0	10	13	8	11	11	0	0	0	1	3	0	0	0	6	1
September	7.4	SW.	32	SW.	1	0	6	3	0	2	12	5	2	0	10	13	7	8	5	1	0	2	4	2	0	1	1	1	3
October	9.9	SW.	31	SW.	0	1	2	5	0	3	10	10	0	0	4	8	19	14	12	1	0	0	1	0	0	0	6	1	0
November	9.5	SW.	30	SW.	0	3	3	3	3	1	13	1	3	0	6	11	13	13	7	13	6	0	3	2	7	0	21	0	0
December	11.0	SW.	39	W.	3	1	1	3	0	2	16	6	2	0	3	9	19	15	11	15	8	0	5	2	11	0	25	0	0
Year	9.1	SW.	39	W.	8	18	34	38	8	27	121	83	37	0	81	121	164	162	125	103	62	4	37	10	73	1	163	20	11

CAPE HENRY, VA.

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

January	12.7	SW.	45	E.	4	2	11	4	7	10	13	7	8	0	7	9	15	10	9	0	0	0	4	2	0	0	2	0	0
February	12.4	SW.	40	N.	5	9	9	3	8	5	15	4	5	0	9	8	12	9	8	0	0	0	8	4	0	0	3	2	0
March	15.3	N.	54	E.	10	9	7	3	4	11	9	7	12	0	7	16	8	10	7	5	2	0	0	0	0	0	9	3	0
April	12.2	SE.	39	NW.	3	7	4	2	13	10	11	6	7	0	12	11	7	7	5	0	0	0	3	0	0	0	0	4	0
May	12.4	SW.	35	NE.	4	5	13	4	7	16	11	3	3	0	11	8	12	11	9	0	0	0	6	7	0	0	0	2	0
June	10.6	SW.	32	NW.	1	2	6	3	11	14	16	6	2	0	10	12	8	7	6	0	0	0	1	1	0	0	0	7	0
July	10.0	SW.	29	NW.	0	7	4	2	8	11	12	8	8	1	6	19	6	7	5	0	0	0	1	0	0	0	0	7	0
August	8.9	S.	22	NE.	0	4	13	2	9	17	15	1	1	0	10	13	8	6	5	0	0	0	0	0	0	0	0	4	0
September	12.3	SE.	41	N.	4	6	11	5	15	10	6	3	4	0	14	7	9	6	3	0	0	0	1	0	0	1	0	1	0
October	12.2	SW.	35	NW.	2	8	9	4	12	7	9	4	9	0	14	8	9	7	5	0	0	0	0	0	0	3	0	2	0
November	15.1	N.	43	N.	9	16	12	1	7	8	5	3	7	1	14	2	14	7	6	1	0	0	4	3	0	0	2	0	0
December	11.4	N.	43	N.	4	9	13	1	2	6	14	6	7	4	11	3	17	13	9	2	2	0	12	8	0	0	6	0	0
Year	12.1	SW.	54	E.	46	84	112	34	104	125	136	58	73	6	125	116	125	100	77	8	4	0	43	28	0	16	22	32	0

CHARLES CITY, IOWA

[H_b=1,015 ft.; h_t=10 ft.; h_r=4 ft.; h_a=51 ft.]

January	7.6	W.	20	NW.	0	3	6	1	14	5	8	12	13	0	6	5	20	11	7	15	10	0	4	3	20	0	30	0	0
February	7.7	SE.	27	W.	0	4	4	1	15	3	3	12	16	0	11	8	10	6	6	9	5	0	4	3	13	0	28	1	0
March	8.7	NW.	22	S.	0	9	5	4	7	4	1	6	26	0	7	14	10	10	8	17	8	0	0	0	15	0	30	0	0
April	8.4	SE.	21	NW.	0	9	7	8	20	1	2	7	6	0	7	13	10	8	6	0	0	2	2	1	0	0	8	3	0
May	7.8	SE.	21	W.	0	7	3	3	15	10	5	7	10	2	15	7	9	13	10	0	0	0	0	0	1	0	7	1	0
June	5.7	SE.	21	SW.	0	6	2	1	23	6	6	6	9	1	6	14	10	16	13	0	0	0	0	0	2	0	12	0	0
July	6.4	SE.	20	NW.	0	4	3	5	11	10	10	4	14	1	16	9	4	8	6	0	0	0	0	0	12	0	4	0	0
August	6.5	SE.	18	N.	0	3	1	0	19	11	8	10	8	2	14	10	7	14	11	0	0	0	2	1	0	0	7	0	0
September	5.8	SE.	19	SE.	0	8	2	2	20	3	5	8	12	0	22	4	4	5	3	0	0	0	0	0	3	0	3	0	0
October	7.4	NW.	24	NW.	0	6	3	4	15	2	5	7	16	4	9	6	16	11	4	4	1	0	0	0	0	0	9	1	0
November	8.3	SE.	24	SE.	0	7	0	2	25	4	4	5	13	0	8	8	14	6	4	4	2	0	0	0	7	0	26	0	0
December	7.3	NW.	21	NW.	0	2	4	4	16	4	7	10	15	0	12	6	13	4	2	10	3	0	1	1	16	0	30	0	0
Year	7.3	SE.	27	W.	0	68	40	35	200	63	64	94	158	10	135	104	127	112	80	59	29	2	13	9	71	18	161	38	1

Annual meteorological summaries for the year ending December 31, 1932—Continued

CHARLESTON, S.C.

[ϕ=32°47′ N.; λ=79°56′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.16	30.56	29.69	55.3	64.9	59.9	67.5	52.5	60.0	78	37	50	52	52	85	65	78	0.395	0.417	0.415	0.98	0.47	0.0	6.3	4.6	2.8	4.8
February	30.02	30.61	29.48	54.8	64.9	60.1	67.3	52.8	60.0	78	42	49	50	53	80	61	78	.357	.379	.413	1.17	.72	.0	5.9	6.2	5.5	6.3
March	29.90	30.32	28.73	51.2	60.3	55.4	63.8	46.9	55.4	82	28	42	41	45	71	51	70	.301	.286	.331	2.62	1.27	.0	4.9	4.5	3.4	4.6
April	29.95	30.34	29.50	62.2	70.9	65.5	74.4	58.0	66.2	88	48	52	51	54	69	52	69	.396	.398	.435	.31	.16	.0	3.9	5.1	4.6	5.0
May	29.99	30.20	29.66	70.4	76.7	72.0	79.0	66.1	72.6	91	58	63	62	64	78	63	76	.580	.567	.594	5.64	4.42	.0	4.1	4.0	4.2	4.9
June	29.90	30.17	29.56	78.0	82.8	77.3	85.1	72.9	79.0	95	66	72	72	72	81	72	85	.777	.798	.794	6.59	2.86	.0	5.8	6.3	7.3	6.6
July	29.91	30.12	29.65	81.7	86.6	82.9	91.7	76.9	83.8	101	68	73	73	75	76	61	77	.822	.819	.868	4.03	2.62	.0	4.5	4.8	4.6	4.8
August	29.96	30.12	29.82	79.0	84.1	80.0	86.2	75.2	80.7	95	72	74	73	74	86	71	82	.846	.821	.838	6.42	2.32	.0	5.1	5.9	5.2	6.0
September	29.98	30.25	29.60	74.0	80.0	75.8	82.0	70.0	76.4	91	61	67	66	68	80	65	77	.688	.662	.691	7.18	4.21	.0	6.4	6.7	4.6	6.4
October	29.98	30.28	29.51	66.0	73.7	69.9	75.8	62.5	69.2	84	51	60	61	62	81	66	77	.531	.553	.575	6.98	3.08	.0	4.6	5.0	3.9	4.7
November	30.08	30.46	29.61	52.6	62.1	57.3	64.1	49.4	56.8	74	33	46	49	50	79	64	76	.349	.385	.386	2.24	2.68	.0	4.6	4.3	4.2	5.1
December	30.15	30.49	29.77	52.2	61.3	55.3	64.1	49.2	56.6	75	33	48	50	50	85	68	82	.355	.384	.377	.68	.37	.0	6.5	6.5	5.5	6.5
Year	30.00	30.61	28.73	64.8	72.5	67.6	75.1	61.0	68.1	101	28	58	58	60	79	63	77	.533	.539	.560	44.84	4.42	.0	5.2	5.4	4.6	5.5

CHARLOTTE, N.C.

[ϕ=35°13′ N.; λ=80°51′ W.]

January	29.34	29.74	28.78	47.2	55.7	54.4	60.3	43.5	51.9	71	28	43	44	44	85	67	69	0.302	0.311	0.313	4.09	1.49	0.0	5.5	5.6	4.6	5.9
February	29.22	29.80	28.73	45.4	55.6	55.0	60.7	42.3	51.5	75	31	38	40	41	76	58	62	.249	.265	.275	2.52	1.02	.0	6.4	5.7	4.4	5.7
March	29.08	29.50	28.11	42.7	53.9	52.7	59.2	38.7	49.0	79	17	32	35	34	68	50	48	.205	.219	.207	5.39	2.97	.2	6.1	4.6	3.9	4.8
April	29.15	29.53	28.75	53.9	65.9	64.3	71.0	49.6	60.3	85	38	43	42	44	67	46	51	.288	.290	.301	2.05	.84	.0	4.1	5.2	5.6	5.0
May	29.23	29.49	28.89	62.9	74.1	71.0	78.7	58.3	68.5	89	50	54	52	53	74	49	56	.431	.405	.412	3.32	1.15	.0	4.6	4.5	4.6	4.7
June	29.13	29.43	28.80	72.1	82.7	78.8	87.3	67.7	77.5	95	60	66	63	65	81	54	65	.641	.595	.628	7.01	3.30	.0	6.2	5.3	6.5	5.8
July	29.13	29.38	28.75	76.3	87.5	84.0	92.3	70.8	81.6	100	58	66	65	66	72	49	58	.652	.628	.659	3.73	.95	.0	5.0	5.0	5.3	5.1
August	29.20	29.44	29.01	72.9	84.1	80.0	88.3	69.0	78.6	101	62	66	64	65	80	58	68	.650	.605	.636	4.44	1.50	.0	4.7	4.9	4.9	5.0
September	29.25	29.58	28.99	66.6	77.2	73.7	80.7	63.4	72.0	99	52	60	58	59	79	56	63	.531	.507	.522	1.96	.96	.0	7.0	6.0	4.1	6.1
October	29.21	29.56	28.71	56.0	69.3	64.2	72.5	52.6	62.6	82	39	50	49	52	82	51	65	.385	.373	.404	7.52	4.90	.0	4.0	4.0	3.9	4.1
November	29.33	29.83	28.78	42.5	52.4	50.4	56.2	39.8	48.0	68	23	34	35	36	74	55	60	.225	.236	.235	2.43	1.28	.0	4.8	4.5	3.6	4.4
December	29.36	29.71	28.87	43.0	49.4	48.6	53.7	39.5	46.6	68	16	36	38	38	80	69	72	.235	.250	.256	5.31	.98	3.8	5.4	6.6	6.2	7.1
Year	29.22	29.83	28.11	56.8	67.3	64.8	71.7	52.9	62.3	101	16	49	49	50	76	55	61	.400	.390	.404	49.77	4.99	4.0	5.3	5.2	4.8	5.3

CHATTANOOGA, TENN.

[ϕ=35°04′ N.; λ=85°18′ W.]

January	29.34	29.84	28.77	45.0	52.3	51.5	57.0	41.8	49.4	73	26	40	40	42	83	66	72	0.270	0.278	0.293	6.29	1.84	0.0	5.9	6.1	5.8	6.2
February	29.24	29.77	28.88	46.7	55.5	56.6	61.7	43.1	52.4	77	30	39	38	38	76	55	53	.260	.242	.244	5.81	1.25	.0	5.6	5.7	5.2	5.7
March	29.16	29.53	28.49	41.2	50.0	51.1	56.8	37.3	47.0	80	16	30	29	32	65	47	51	.192	.187	.213	6.18	2.24	T.	5.2	5.9	5.0	5.4
April	29.20	29.52	28.88	54.8	66.4	65.9	71.6	51.3	61.4	83	37	42	41	42	63	43	45	.279	.279	.286	3.53	1.65	.0	5.0	5.5	5.2	5.6
May	29.26	29.49	29.00	62.0	73.2	72.0	77.5	58.0	67.8	85	48	53	52	53	72	50	55	.407	.398	.421	2.59	1.30	.0	5.0	5.7	4.9	5.2
June	29.15	29.42	28.87	71.9	82.5	79.2	86.9	67.2	77.0	95	59	65	64	66	80	55	65	.626	.598	.638	4.91	1.13	.0	4.8	5.9	6.5	5.8
July	29.19	29.42	28.93	74.7	85.4	83.0	89.6	70.4	80.0	97	57	68	67	69	79	56	64	.680	.673	.708	5.15	1.57	.0	4.3	5.2	5.0	4.9
August	29.21	29.46	29.00	73.4	84.4	81.7	88.3	70.1	79.2	96	65	67	66	67	80	55	63	.662	.640	.669	4.83	1.80	.0	4.8	5.4	4.5	5.0
September	29.26	29.49	29.04	67.1	77.6	74.7	81.3	64.1	72.7	91	54	58	57	58	75	51	58	.507	.482	.494	1.43	.40	.0	5.2	6.1	4.9	5.7
October	29.24	29.57	28.65	52.8	65.2	63.2	69.6	50.0	59.8	81	38	48	48	50	83	57	65	.345	.358	.385	7.89	4.16	.0	5.1	5.3	4.6	5.0
November	29.38	29.84	28.95	42.3	51.2	50.0	56.1	38.8	47.4	73	29	35	32	35	74	51	57	.216	.197	.219	4.94	2.24	T.	4.9	4.7	3.7	4.3
December	29.37	29.74	28.89	41.6	47.4	47.0	52.1	37.5	44.8	67	18	37	37	37	83	71	71	.234	.241	.240	10.92	2.48	4.0	7.9	7.9	6.7	7.3
Year	29.25	29.84	28.49	56.1	65.9	64.7	70.7	52.5	61.6	97	16	48	48	49	76	55	60	.390	.381	.401	64.47	4.16	4.0	5.3	5.8	5.2	5.5

CHEYENNE, WYO.

[ϕ=41°08′ N.; λ=104°48′ W.]

January	23.86	24.26	23.12	16.7	29.3	23.3	32.0	10.9	21.4	52	−2	7	10	11	66	47	60	0.061	0.072	0.072	0.31	0.18	4.1	2.1	4.7	5.8	4.6
February	23.89	24.24	23.37	27.3	39.5	36.2	43.4	21.0	32.2	65	2	16	19	18	62	44	49	.091	.102	.106	.61	.42	7.8	3.8	4.7	4.8	4.8
March	23.90	24.20	23.53	21.3	31.9	29.3	36.8	14.7	25.8	55	−20	11	14	14	64	46	54	.078	.086	.086	1.40	.39	15.9	5.1	5.3	6.4	5.7
April	23.92	24.25	23.44	34.3	49.4	50.2	54.9	31.2	43.0	73	17	23	23	22	65	42	39	.122	.125	.119	1.67	.94	8.5	6.2	6.3	5.7	6.3
May	24.00	24.26	23.71	43.8	58.9	58.9	64.5	40.0	52.2	81	28	35	34	33	73	45	45	.205	.198	.197	1.47	.52	.1	6.0	6.1	6.7	6.6
June	24.01	24.19	23.76	51.6	68.7	66.6	72.8	47.8	60.3	84	39	42	40	41	72	37	42	.272	.261	.264	1.64	.60	.0	4.0	5.8	7.2	5.7
July	24.09	24.29	23.70	60.1	79.2	76.5	83.6	56.4	70.0	90	44	46	41	44	62	28	36	.319	.271	.305	.97	.31	.0	4.2	4.6	6.8	5.0
August	24.07	24.28	23.72	57.2	76.5	73.6	80.0	54.7	67.4	91	38	45	42	45	68	32	36	.302	.279	.311	.63	.16	.0	3.5	3.8	4.8	4.3
September	24.13	24.35	23.76	47.0	66.7	66.9	71.6	44.9	58.2	83	36	33	32	33	62	31	34	.190	.186	.196	1.13	1.09	.0	2.8	2.7	3.4	3.0
October	24.01	24.32	23.71	36.6	49.8	46.3	55.3	30.5	42.9	75	15	25	25	25	64	43	48	.134	.135	.134	.41	.14	2.3	3.6	3.5	4.5	3.7
November	24.05	24.34	23.72	34.8	47.6	40.1	50.4	27.4	38.9	64	9	18	18	20	51	33	48	.096	.099	.109	.20	.14	1.1	4.0	5.8	4.7	5.3
December	23.89	24.20	23.53	16.9	23.8	18.9	26.4	9.2	18.8	54	−21	5	9	7	62	54	60	.058	.066	.061	.82	.28	13.0	4.4	5.5	4.3	5.1
Year	23.98	24.35	23.12	37.3	51.7	48.9	56.1	32.4	44.3	91	−21	26	26	28	64	40	46	.161	.156	.163	11.26	1.09	52.8	4.2	4.9	5.4	5.0

Annual meteorological summaries for the year ending December 31, 1932—Continued

CHARLESTON, S.C.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: Number of winds, 8 a.m. and 8 p.m.: Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.1	SW.	25	NE.	0	3	13	6	5	10	10	9	6	0	13	7	11	7	5	0	0	0	7	2	0	0	0	0	0
February	10.7	SW.	27	NW.	0	12	10	5	1	1	17	5	7	0	10	3	16	10	5	0	0	0	5	1	0	0	0	0	0
March	12.4	SW.	40	S.	4	7	3	4	4	8	16	11	9	0	13	9	9	10	6	0	0	0	3	0	0	0	2	0	0
April	11.3	SW.	30	E.	0	6	7	5	5	8	13	9	7	0	10	10	10	6	3	0	0	0	1	0	0	0	0	0	2
May	10.9	S.	37	NE.	1	5	13	7	9	12	7	6	3	0	10	12	9	8	7	0	0	0	1	0	0	1	0	7	0
June	10.8	SW.	35	E.	1	1	6	11	4	8	20	9	1	0	6	10	14	16	14	0	0	0	1	1	0	6	0	17	0
July	10.1	SW.	40	S.	1	3	4	3	4	7	21	16	4	0	10	16	5	7	6	0	0	0	1	0	0	20	0	11	0
August	9.7	S.	27	E.	0	4	12	11	8	9	10	7	1	0	7	13	11	15	10	0	0	0	2	2	0	5	0	7	0
September	10.6	NE.	36	NE.	1	11	17	11	7	5	4	2	3	0	6	11	13	10	9	0	0	0	3	1	0	3	0	0	0
October	10.6	NE.	38	SE.	1	8	18	4	4	12	3	7	5	1	14	7	10	9	5	0	0	0	2	1	0	0	0	1	0
November	12.2	NE.	37	N.	2	14	19	5	0	1	6	7	8	0	12	5	13	7	7	0	0	0	5	4	0	0	0	0	0
December	9.6	SW.	27	NE.	0	14	9	5	3	4	21	0	6	0	5	13	13	7	4	0	0	0	12	2	0	0	0	0	0
Year	10.8	SW.	40	S.	11	88	131	77	54	85	148	88	60	1	116	116	134	112	84	0	0	0	43	14	0	35	2	45	0

CHARLOTTE, N.C.

[H_b=779 ft.; h_t=244 ft.; h_r=236 ft.; h_a=267 ft.]

January	6.5	SW.	25	W.	0	8	9	3	7	12	15	1	7	0	10	4	17	12	12	0	0	0	10	5	0	0	2	0	0
February	6.6	SW.	25	SW.	0	3	12	5	2	6	21	3	6	0	11	6	12	9	6	0	0	0	11	2	0	0	1	1	0
March	8.0	SW.	30	SW.	0	7	9	5	4	7	14	6	10	0	12	10	9	10	7	0	2	0	5	0	0	0	9	4	0
April	6.1	SW.	21	SW.	0	9	10	1	6	6	16	1	7	4	11	8	11	8	6	0	0	0	3	0	0	0	0	5	0
May	5.5	NE.	18	NW.	0	11	16	3	4	10	9	6	2	1	14	8	9	8	7	0	0	1	3	0	0	0	0	6	0
June	4.6	SW.	18	W.	0	4	10	6	8	4	18	6	3	1	6	17	7	11	10	0	0	0	7	0	0	9	0	11	0
July	4.8	SW.	21	NE.	0	5	10	4	2	6	15	8	6	6	9	17	5	10	9	0	0	0	2	0	0	20	0	11	0
August	4.3	NE.	18	NW.	0	8	11	4	8	11	12	3	2	3	13	8	10	11	10	0	0	0	0	0	0	10	0	4	0
September	5.0	NE.	15	NE.	0	13	17	3	10	3	4	4	2	4	8	8	14	8	8	0	0	0	8	2	0	4	0	5	0
October	4.9	S.	15	E.	0	13	11	6	1	14	7	1	3	6	16	6	9	7	5	0	0	0	6	1	0	0	0	0	0
November	10.3	N.	34	N.	2	14	17	4	1	5	6	4	9	0	15	3	12	9	7	0	0	0	8	1	0	0	5	0	0
December	11.0	NE.	34	N.	1	4	22	3	1	5	7	16	4	0	6	6	19	13	11	2	2	0	13	12	2	0	6	0	0
Year	6.5	NE.	34	N.	3	99	154	47	54	89	144	59	61	25	131	101	134	116	98	8	4	1	76	23	2	43	23	47	0

CHATTANOOGA, TENN.

[H_b=762 ft.; h_t=190 ft.; h_r=167 ft.; h_a=215 ft.]

January	8.4	SE.	30	SW.	0	5	11	0	16	0	9	7	10	4	9	7	15	11	8	0	0	0	10	3	0	0	7	1	0
February	9.0	NE.	35	S.	1	7	10	2	8	4	10	3	13	1	9	9	11	13	12	0	0	0	7	0	0	0	1	2	0
March	9.5	NW.	45	SW.	3	2	6	0	7	5	10	5	22	5	12	7	12	9	9	6	0	0	5	0	0	1	11	2	0
April	8.4	SW.	32	SW.	1	5	11	1	6	2	14	10	9	2	11	6	13	8	6	0	0	0	3	0	0	0	0	3	0
May	7.2	NE.	28	NW.	0	4	13	0	12	2	6	12	10	3	8	17	6	9	6	0	0	1	1	0	0	0	0	4	0
June	6.5	SW.	34	SW.	1	2	2	0	10	1	25	7	10	3	7	16	7	14	13	0	0	1	4	0	0	11	0	11	0
July	7.5	SW.	31	SW.	0	2	6	1	1	1	30	9	10	2	13	10	8	12	11	0	0	0	0	0	0	16	0	13	0
August	6.0	SE.	18	W.	0	6	12	0	16	3	12	4	5	4	10	14	7	9	8	0	0	0	3	0	0	10	0	10	0
September	7.3	NE.	29	SE.	0	4	16	0	15	2	8	2	11	2	7	12	11	9	6	0	0	0	4	0	0	2	0	2	0
October	7.0	NW.	26	S.	0	4	13	0	6	2	9	6	15	7	14	6	11	8	6	0	0	0	10	2	0	0	0	0	0
November	8.3	NE.	27	W.	0	7	15	0	7	2	8	7	11	3	15	6	9	10	7	1	0	0	1	0	0	0	6	0	0
December	7.2	NE.	27	NW.	0	1	15	1	18	1	5	3	10	8	6	5	20	20	16	3	1	0	16	3	1	0	8	0	0
Year	7.7	NE.	45	SW.	6	49	130	5	122	25	146	75	136	44	121	115	130	132	108	10	1	2	64	8	2	39	33	48	0

CHEYENNE, WYO.

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

January	13.5	W.	46	W.	6	4	1	1	2	7	7	24	16	0	12	12	7	5	3	15	5	0	2	0	18	0	31	0	0
February	15.5	W.	47	W.	13	7	1	4	0	5	14	21	6	0	11	9	9	6	4	8	6	0	3	2	6	0	24	0	0
March	15.7	W.	44	W.	13	7	5	1	1	3	6	29	10	0	12	7	12	10	5	13	9	0	1	0	9	0	26	0	0
April	14.7	NW.	43	NW.	6	4	2	1	5	9	2	15	22	0	6	11	13	9	7	10	8	0	2	1	2	0	18	0	0
May	11.5	S.	39	W.	2	9	3	4	11	9	3	13	10	0	3	14	14	13	9	4	2	2	3	2	0	0	3	7	1
June	10.5	NW.	48	S.	2	7	6	4	8	7	6	6	16	0	6	10	5	9	6	0	0	0	0	0	0	1	0	16	0
July	10.5	W.	35	W.	2	4	0	9	8	2	11	14	14	0	9	14	8	13	6	0	0	0	1	0	0	1	0	4	0
August	10.4	W.	39	W.	1	4	2	2	5	12	4	10	17	0	18	9	3	2	2	0	0	0	2	0	0	0	0	1	0
September	10.0	S.	32	W.	1	1	5	2	5	1	2	5	10	13	13	0	18	7	6	7	3	10	6	6	3	1	1	0	0
October	12.8	W.	51	W.	7	14	4	1	2	5	10	13	13	0	18	7	6	7	3	10	6	6	3	0	1	0	18	0	0
November	14.0	W.	45	W.	11	5	2	2	3	4	8	24	12	0	7	18	7	4	2	11	4	6	0	0	1	0	21	0	0
December	13.3	W.	46	W.	9	5	2	1	1	9	12	21	11	0	11	10	10	8	4	13	8	0	0	0	17	0	30	0	0
Year	12.7	W.	51	W.	73	75	30	37	52	87	85	204	161	1	125	143	98	95	57	84	48	4	17	7	54	2	171	53	1

Annual meteorological summaries for the year ending December 31, 1932—Continued

CHICAGO UNIVERSITY, ILL.

[ϕ=41°47′ N.; λ=87°35′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.33	30.00	28.65	31.9	34.6	34.9	38.8	28.3	33.6	58	1	28	28	29	84	75	77	0.163	0.159	0.168	2.20	0.50	1.9	7.1	7.3	7.4	7.4
February	29.27	29.98	28.35	30.7	36.7	37.0	42.7	27.2	35.0	66	12	25	26	28	76	64	68	.143	.154	.163	1.21	.46	5.6	6.0	6.2	4.8	5.8
March	29.22	29.71	28.63	26.4	32.5	31.4	36.0	24.2	30.1	66	2	20	21	22	74	63	66	.121	.129	.128	3.10	1.13	11.3	6.4	6.8	4.6	6.1
April	29.28	29.70	28.85	41.5	49.8	45.9	52.9	39.8	46.4	71	31	34	34	36	73	57	68	.200	.207	.214	.58	.19	T	5.7	5.3	5.1	5.1
May	29.30	29.70	29.02	56.0	63.7	60.4	67.7	51.6	59.6	89	41	47	47	46	73	58	62	.332	.336	.325	2.89	1.22	.0	5.5	5.4	5.1	5.3
June	29.20	29.47	28.79	66.9	75.1	71.8	77.8	63.3	70.6	89	52	60	60	60	80	62	68	.532	.538	.523	4.79	1.80	.0	5.5	5.3	5.4	5.5
July	29.22	29.51	28.74	69.7	80.0	77.3	83.2	66.2	74.7	97	55	61	61	62	74	54	62	.543	.544	.581	4.67	2.03	.0	4.2	3.7	4.2	4.0
August	29.27	29.56	28.96	68.0	79.0	75.4	81.6	65.8	73.7	94	58	61	60	62	77	55	66	.538	.539	.573	3.08	1.45	.0	4.3	4.5	4.5	4.7
September	29.38	29.66	29.06	59.6	69.6	66.0	71.5	57.4	64.4	87	44	51	53	54	75	57	68	.396	.417	.438	1.12	.43	.0	4.0	4.3	2.4	3.8
October	29.24	29.60	28.86	47.8	55.3	54.3	59.6	45.5	52.6	80	33	42	42	43	80	64	67	.280	.287	.292	3.52	1.10	T	6.2	6.6	5.5	6.5
November	29.43	30.05	28.82	32.6	40.2	39.5	43.3	31.1	37.2	63	17	26	29	29	75	63	66	.146	.168	.172	2.24	1.24	.6	5.6	7.0	5.7	6.7
December	29.36	29.96	28.60	26.3	31.0	28.2	35.2	22.3	28.8	58	−4	21	23	22	79	70	75	.132	.142	.138	2.46	1.01	7.3	5.0	6.4	5.3	5.8
Year	29.29	30.05	28.35	46.4	54.0	51.8	57.5	43.6	50.6	97	−4	40	40	41	77	62	68	.294	.302	.310	31.86	2.03	26.7	5.5	5.7	5.0	5.6

CINCINNATI, OHIO

[ϕ=39°09′ N.; λ=84°31′ W.]

January	29.45	30.02	28.84	38.4	44.4	42.4	49.2	33.6	41.4	68	14	34	34	34	84	69	74	0.212	0.216	0.212	4.73	0.91	T	6.9	7.5	6.2	7.0
February	29.36	30.02	28.74	37.6	45.4	43.8	51.2	33.9	42.6	76	18	31	31	31	78	58	60	.190	.187	.183	1.79	.80	T	6.1	6.3	6.0	6.0
March	29.28	29.75	28.42	29.6	40.2	38.7	45.2	27.2	36.2	67	6	25	26	27	82	58	65	.143	.153	.163	3.22	.92	1.6	6.3	7.3	6.5	7.0
April	29.31	29.72	28.88	46.0	57.4	56.1	63.5	41.8	52.6	79	30	37	38	40	73	53	57	.235	.244	.257	1.80	.57	T	6.7	5.8	5.5	6.0
May	29.39	29.74	29.10	59.0	71.5	67.5	75.3	53.1	64.2	87	38	48	49	49	67	46	53	.343	.365	.358	.94	.50	.0	3.4	5.5	5.3	4.9
June	29.26	29.51	29.05	68.8	80.3	75.3	83.9	62.8	73.4	91	51	62	62	61	79	55	64	.562	.570	.558	5.48	2.12	.0	5.0	5.7	5.9	5.8
July	29.29	29.56	28.87	71.7	83.6	79.8	87.9	66.3	77.1	97	57	64	64	63	78	53	57	.619	.609	.583	6.04	2.56	.0	3.9	4.3	4.5	4.1
August	29.35	29.60	29.13	67.9	82.2	77.0	85.5	63.4	74.4	96	49	62	61	60	81	51	59	.564	.548	.541	4.18	3.37	.0	4.1	4.0	2.9	3.9
September	29.42	29.66	29.02	60.4	75.0	69.2	78.0	57.4	67.7	96	43	55	56	56	84	54	64	.457	.460	.465	4.88	1.68	.0	4.0	4.9	4.3	4.6
October	29.34	29.62	28.91	49.9	62.0	57.0	65.9	45.8	55.8	78	33	45	45	45	83	57	65	.309	.319	.310	3.28	1.41	.0	5.8	5.7	5.4	5.6
November	29.51	30.09	28.99	35.7	45.0	43.2	49.4	32.9	41.2	74	19	31	31	32	84	59	66	.187	.183	.197	2.01	.75	.5	6.8	6.2	5.5	5.9
December	29.48	30.02	28.84	30.4	36.8	35.9	42.1	26.2	34.2	66	−6	27	28	28	88	74	76	.167	.172	.171	4.01	2.71	6.4	7.4	6.8	5.4	7.4
Year	29.37	30.09	28.42	49.6	60.3	57.2	64.8	45.4	55.1	97	−6	43	44	44	80	57	63	.332	.336	.333	42.36	3.37	8.5	5.5	5.8	5.3	5.7

CLEVELAND, OHIO

[ϕ=41°30′ N.; λ=81°42′ W.]

January	29.24	29.77	28.62	38.6	40.9	39.3	46.6	33.7	40.2	70	12	32	32	31	77	70	72	0.190	0.189	0.181	3.46	0.57	0.5	8.4	8.2	7.8	8.5
February	29.16	29.84	28.53	34.0	36.3	37.1	43.0	28.7	35.8	73	16	26	26	26	73	65	64	.156	.151	.152	1.10	.26	4.1	8.1	7.6	6.5	7.9
March	29.06	29.52	28.16	27.5	31.6	32.5	37.4	24.6	31.0	66	6	21	22	22	78	66	66	.120	.122	.124	3.39	1.80	12.0	7.8	8.6	7.8	8.4
April	29.15	29.66	28.71	40.7	44.2	47.1	52.0	36.0	44.0	74	25	31	32	32	70	64	58	.181	.185	.184	2.09	.58	1.7	6.4	6.7	5.9	6.4
May	29.22	29.65	28.89	56.3	62.6	61.1	67.4	50.0	58.7	84	38	45	45	45	67	56	59	.313	.314	.323	3.71	1.10	.0	4.9	5.5	5.0	5.4
June	29.10	29.36	28.81	66.3	70.1	72.2	75.8	62.4	69.1	86	52	56	56	56	71	63	58	.465	.473	.467	1.88	.57	.0	5.1	4.7	5.1	4.8
July	29.10	29.39	28.55	69.0	72.3	75.4	79.3	64.7	72.0	93	55	58	59	58	69	65	56	.494	.510	.486	2.42	.75	.0	5.5	6.0	4.4	5.5
August	29.19	29.49	28.89	68.7	74.5	75.1	79.8	65.6	72.7	92	55	56	58	58	66	58	58	.466	.489	.496	4.31	1.37	.0	4.7	4.7	3.9	4.5
September	29.27	29.58	28.83	62.3	69.3	67.4	72.9	59.5	66.2	89	47	50	52	51	66	55	58	.386	.406	.395	1.45	.63	.0	4.0	4.7	3.9	4.5
October	29.15	29.50	28.75	50.8	58.3	56.3	62.5	47.7	55.1	79	36	41	43	44	71	60	64	.274	.294	.296	3.06	.78	.0	7.1	7.6	6.9	7.3
November	29.34	29.97	28.75	37.4	42.5	40.6	47.1	33.8	40.4	65	20	28	28	30	69	60	66	.167	.169	.174	2.63	.75	2.0	7.3	6.5	6.0	7.0
December	29.27	29.80	28.69	31.7	36.3	34.4	41.6	26.2	33.9	65	3	24	25	25	72	65	68	.142	.150	.148	3.77	1.89	8.7	7.2	7.6	6.0	7.6
Year	29.19	29.97	28.16	48.6	53.2	53.2	58.8	44.4	51.6	93	3	39	40	40	71	62	62	.280	.288	.286	33.27	1.89	29.0	6.4	6.5	5.8	6.5

COLUMBIA, MO.

[ϕ=38°57′ N.; λ=92°20′ W.]

January	29.24	29.81	28.58	32.1	37.6	.....	43.4	29.1	36.2	64	5	26	28	...	79	70	...	0.150	0.162	.....	1.79	0.55	T	6.6	7.5	.....	7.1
February	29.20	29.67	28.41	35.2	44.7	.....	52.4	32.8	42.6	77	12	31	32	...	83	62	...	.181	.194	.....	1.01	.34	2.4	6.4	7.0	.....	6.8
March	29.15	29.66	28.43	30.2	40.1	.....	45.8	28.3	37.0	76	8	24	24	...	77	53	...	.139	.137	.....	1.16	.40	3.7	7.1	6.1	.....	5.4
April	29.12	29.58	28.62	49.2	63.2	.....	68.4	46.5	57.4	84	33	41	41	...	74	48	...	.271	.279	.....	2.04	.53	.0	5.9	5.9	.....	6.0
May	29.20	29.52	28.90	58.5	74.0	.....	77.6	55.0	66.3	90	40	48	48	...	70	41	...	.349	.346	.....	1.67	.70	.0	3.8	4.6	.....	4.2
June	29.06	29.29	28.85	70.0	81.6	.....	84.5	65.7	75.1	95	60	64	66	...	83	60	...	.611	.644	.....	6.28	1.92	.0	5.3	5.9	.....	5.5
July	29.13	29.37	28.64	73.2	85.6	.....	89.3	68.9	79.1	100	55	66	66	...	78	55	...	.640	.661	.....	3.39	1.37	.0	4.4	4.0	.....	4.0
August	29.14	29.42	28.89	69.2	84.7	.....	87.5	66.5	77.0	94	56	64	66	...	84	55	...	.608	.655	.....	6.44	2.86	.0	4.3	3.7	.....	3.8
September	29.25	29.53	28.97	57.8	74.8	.....	78.3	55.9	67.1	91	41	53	52	...	83	47	...	.408	.403	.....	2.15	1.40	.0	4.3	3.9	.....	3.8
October	29.16	29.50	28.79	46.2	62.0	.....	66.5	43.9	55.2	81	31	40	42	...	80	50	...	.259	.278	.....	2.36	1.32	.0	3.7	3.7	.....	3.9
November	29.33	29.82	28.78	31.5	42.5	.....	49.3	28.9	39.1	66	8	27	28	...	83	57	...	.152	.158	.....	1.27	.61	4.8	5.1	4.6	.....	4.7
December	29.28	29.87	28.43	27.3	34.3	.....	40.0	22.8	31.4	67	−5	22	24	...	81	66	...	.143	.155	.....	4.81	2.62	6.7	5.6	5.3	.....	5.8
Year	29.19	29.87	28.41	48.4	60.4	.....	65.2	45.4	55.3	100	−5	42	43	...	80	55	...	.326	.339	.....	34.37	2.86	17.6	5.2	5.2	.....	5.1

Annual meteorological summaries for the year ending December 31, 1932—Continued

CHICAGO UNIVERSITY, ILL.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	11.4	W.	30	SW.	0	1	4	1	6	6	17	20	7	0	7	3	21	13	10	12	3	0	5	0	7	0	20	1	0
February	12.0	SW.	42	SW.	1	2	4	5	8	5	11	12	11	0	7	11	11	6	5	7	3	0	6	1	3	0	21	1	0
March	12.4	NW.	35	NE.	1	2	9	3	6	4	6	13	19	0	7	10	14	14	9	14	9	0	3	0	10	0	21	2	0
April	11.9	NE.	29	NW.	0	7	18	9	10	3	2	6	5	0	13	6	11	6	5	3	0	0	0	0	6	0	2	2	0
May	10.8	SW.	30	NW.	0	8	7	4	10	7	16	7	3	0	11	9	11	11	8	0	0	1	2	0	0	0	0	0	0
June	8.4	NE.	30	NW.	0	3	14	12	4	12	5	6	4	0	8	13	9	12	9	0	0	0	1	0	2	2	6	0	0
July	9.8	SW.	31	SE.	0	4	8	6	2	5	14	15	8	0	12	16	3	11	9	0	0	0	1	0	1	0	10	0	0
August	8.9	SW.	24	NE.	0	0	9	4	10	4	20	9	6	0	14	10	7	7	5	0	0	0	1	0	0	0	6	0	0
September	9.8	NE.	24	S.	0	3	13	8	7	3	8	8	10	0	15	9	6	5	4	0	0	0	2	0	1	0	0	0	0
October	11.5	SW.	28	W.	0	5	10	4	7	7	10	10	9	0	7	8	16	11	10	1	0	0	6	1	0	0	6	0	1
November	11.4	SW.	25	NE.	0	2	7	4	5	15	14	8	5	2	7	7	16	5	5	8	1	0	4	2	4	0	16	0	0
December	12.0	SW.	32	SW.	2	4	1	3	5	12	21	5	11	0	11	6	14	10	8	10	5	0	3	2	13	0	23	0	0
Year	10.9	SW.	42	SW.	4	41	102	63	80	83	144	119	98	2	119	108	139	111	87	55	21	3	38	10	37	16	103	42	0

CINCINNATI, OHIO

[H_b=627 ft.; h_t=11 ft.; h_r=3 ft.; h_a=51 ft.]

January	8.8	SW.	30	SW.	0	2	5	0	11	16	16	6	6	0	7	7	17	13	12	3	0	0	7	4	1	0	12	2	0
February	8.8	SW.	37	SW.	1	2	10	5	4	8	14	5	10	0	11	3	15	8	6	1	0	0	7	4	0	0	15	1	0
March	10.4	SW.	30	SW.	0	4	11	1	5	6	12	11	12	0	4	10	17	15	11	12	3	1	1	0	8	0	18	2	0
April	8.6	NE.	36	SW.	1	7	14	3	3	6	10	9	8	0	10	5	15	12	8	2	1	0	6	0	0	0	5	1	0
May	7.3	SW.	21	W.	0	6	11	2	3	15	11	6	8	0	13	10	8	7	5	0	0	0	2	0	0	0	6	0	0
June	5.9	SW.	27	NE.	0	8	11	3	5	8	14	8	3	0	8	10	12	13	10	0	0	2	8	2	0	0	3	0	0
July	6.6	SW.	27	SW.	0	10	9	0	2	6	16	8	10	1	16	12	3	9	9	0	0	0	2	1	0	10	0	0	0
August	5.6	SW.	20	SW.	0	5	16	6	1	6	17	7	3	4	16	8	7	9	8	0	0	0	2	0	0	0	7	0	0
September	6.6	NE.	27	S.	0	9	21	1	3	6	8	6	6	0	12	10	8	7	7	0	0	0	6	2	0	1	0	4	0
October	7.6	S.	24	W.	0	2	5	5	3	18	15	7	7	0	10	10	11	8	7	0	0	1	5	1	0	0	0	2	0
November	7.9	S.	25	N.	0	10	11	3	3	16	9	5	3	0	10	7	13	9	7	6	5	0	8	3	1	0	17	0	0
December	8.7	S.	32	SW.	1	10	9	2	2	20	8	9	2	0	6	4	21	11	9	4	3	0	11	3	11	0	21	1	0
Year	7.7	SW.	37	SW.	3	75	133	31	45	131	150	87	78	2	123	96	147	121	99	28	12	4	65	20	21	21	88	46	0

CLEVELAND, OHIO

[H_b=762 ft.; h_t=267 ft.; h_r=264 ft.; h_a=337 ft.]

January	15.6	S.	50	S.	5	1	3	2	10	13	21	11	1	0	2	6	23	17	15	8	3	0	5	1	1	0	10	1	0
February	15.7	W.	47	W.	12	3	2	2	6	12	12	14	7	0	4	6	19	12	9	12	5	0	4	1	6	0	20	0	0
March	16.2	W.	48	S.	10	1	6	4	2	7	9	24	3	0	2	5	24	17	13	19	12	0	1	0	11	0	26	1	0
April	14.1	N.	46	S.	7	13	10	3	5	4	2	17	3	0	9	8	13	10	9	5	2	0	6	1	0	0	9	2	0
May	12.1	SW.	40	S.	7	8	9	2	7	8	11	6	9	2	10	9	12	14	11	0	0	0	1	0	0	0	0	5	0
June	10.6	N.	33	N.	1	10	6	3	9	9	9	8	6	0	13	9	8	6	6	0	0	0	1	0	0	0	0	0	0
July	12.4	W.	40	W.	6	10	2	0	2	10	11	18	8	1	8	16	7	10	9	0	0	0	1	0	0	0	4	0	0
August	10.7	S.	38	SW.	2	10	6	3	9	12	7	8	7	0	14	9	8	8	8	0	0	0	0	0	0	2	0	4	0
September	12.9	N.	53	S.	2	13	8	1	5	9	7	5	8	1	13	10	7	8	5	0	0	0	1	1	0	0	0	0	0
October	15.5	S.	43	W.	7	0	3	3	5	15	18	12	9	2	0	5	5	21	13	10	0	0	4	0	0	0	0	4	0
November	14.5	S.	38	SE.	5	7	8	3	3	12	15	10	7	3	0	6	6	18	12	10	2	0	2	0	1	0	14	0	0
December	15.1	S.	53	SE.	8	1	1	2	10	23	14	8	3	0	4	7	20	11	10	12	5	0	4	1	9	0	21	0	0
Year	13.8	W.	53	SE.	72	83	59	28	98	140	125	135	60	4	90	96	180	138	115	63	32	2	29	4	28	6	100	35	2

COLUMBIA, MO.

[H_b=784 ft.; h_t=6 ft.; h_r=3 ft.; h_a=84 ft.]

January	9.0	W.	21	SW.	0	1	2	2	5	5	3	9	4	0	5	8	18	12	9	8	1	0	7	0	4	0	20	1	0
February	8.9	W.	27	SW.	0	2	4	4	3	2	6	6	2	0	7	8	14	8	4	4	3	0	3	0	1	0	15	2	0
March	10.9	NW.	30	SW.	0	3	3	3	1	3	4	2	12	0	7	9	15	7	7	8	3	0	2	0	8	0	19	1	0
April	9.7	E.	25	SW.	0	3	5	7	4	3	2	3	3	0	8	9	13	10	8	0	0	0	0	0	0	0	5	0	0
May	7.9	SW.	24	SW.	0	1	1	7	5	4	5	3	5	0	15	9	7	7	6	0	0	0	1	0	0	1	0	0	0
June	6.2	SW.	24	W.	0	3	1	5	7	4	6	4	0	0	9	10	11	11	9	0	0	0	1	0	0	0	4	0	0
July	6.8	SW.	32	NW.	1	1	3	4	3	6	8	4	3	0	16	10	6	8	6	0	0	0	1	0	0	0	8	0	0
August	6.7	SE.	26	NW.	0	2	1	3	10	8	2	0	4	1	14	13	4	12	9	0	0	0	0	0	0	0	12	0	0
September	6.7	N.	24	W.	0	4	6	3	4	6	2	2	1	2	14	11	5	6	4	0	0	0	0	0	0	0	12	0	0
October	8.8	SW.	30	SW.	0	2	1	2	3	6	6	6	5	0	17	5	9	5	4	0	0	0	4	1	0	1	0	4	0
November	8.7	S.	24	NW.	0	4	1	3	3	8	1	6	4	0	13	9	8	5	4	4	3	0	3	1	0	0	1	2	0
December	8.9	SW.	26	SW.	0	2	3	0	3	9	7	4	3	0	10	6	15	7	6	6	2	0	1	1	12	0	23	3	0
Year	8.3	SW.	32	NW.	1	28	31	43	51	63	52	49	46	3	134	107	125	98	77	30	12	1	24	5	26	34	98	57	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

COLUMBIA, S.C.

[ϕ=34°00′ N.; λ=81°03′ 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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.82	30.21	29.30	50.2	60.1	58.6	64.8	47.2	56.0	80	30	46	44	45	85	58	63	0.335	0.318	0.329	3.73	1.15	0.0	5.9	5.7	4.6	5.5
February	29.69	30.28	29.17	48.5	60.1	58.1	64.5	46.0	55.2	79	30	41	40	42	77	52	59	.277	.270	.288	4.13	2.18	.0	6.1	6.0	5.2	5.9
March	29.56	29.99	28.42	45.7	57.8	56.4	63.3	41.9	52.6	82	19	36	32	35	68	40	47	.231	.203	.230	3.03	2.11	3.5	5.0	4.7	3.4	4.9
April	29.61	29.97	29.19	56.5	69.7	66.8	75.0	52.2	63.6	87	41	45	41	44	66	38	48	.308	.278	.313	1.96	.87	.0	4.2	4.5	5.0	4.7
May	29.67	29.91	29.30	64.6	76.6	73.1	81.0	60.3	70.6	89	53	57	53	55	77	45	55	.474	.411	.439	2.42	1.09	.0	4.3	4.6	3.9	4.4
June	29.57	29.87	29.20	73.9	83.1	79.1	88.0	69.4	78.7	97	61	68	66	67	84	59	69	.700	.659	.672	5.56	2.45	.0	5.2	5.8	6.5	5.6
July	29.58	29.81	29.26	77.7	89.1	85.1	94.4	72.8	83.6	102	63	70	67	67	77	49	57	.724	.662	.661	3.39	1.86	.0	4.4	3.9	5.0	4.4
August	29.64	29.86	29.42	74.7	84.7	80.6	88.8	71.1	80.0	96	65	69	66	68	84	54	67	.720	.637	.696	7.32	4.12	.0	4.9	4.5	4.9	4.6
September	29.68	29.99	29.42	68.7	79.0	75.1	82.6	65.5	74.0	96	55	62	60	62	81	50	65	.582	.548	.565	2.46	.86	.0	5.3	5.0	4.8	5.4
October	29.65	30.01	29.15	58.4	71.6	67.3	75.3	54.7	65.0	83	41	54	52	54	85	52	65	.433	.414	.439	6.35	2.74	.0	3.9	3.7	4.1	4.3
November	29.78	30.22	29.28	45.8	56.9	53.6	61.1	42.5	51.8	78	26	40	41	42	78	56	65	.277	.282	.286	1.87	.64	.0	4.9	4.3	4.7	4.5
December	29.82	30.15	29.39	45.5	54.1	52.6	58.8	42.3	50.6	74	23	43	47	47	93	78	82	.304	.343	.343	4.53	1.15	.0	6.5	7.8	6.8	7.5
Year	29.67	30.28	28.42	59.2	70.2	67.2	74.8	55.5	65.1	102	19	53	51	52	80	53	62	.447	.419	.438	46.74	4.12	3.5	5.0	5.1	4.9	5.1

COLUMBUS, OHIO

[ϕ=39°58′ N.; λ=83°00′ W.]

January	29.24	29.77	28.65	37.8	42.5	40.7	47.0	33.6	40.3	70	14	32	34	34	79	70	78	0.195	0.207	0.211	4.38	0.80	T	6.8	6.6	6.9	7.0
February	29.15	29.80	28.58	35.4	42.1	41.1	47.5	31.7	39.6	70	16	29	29	30	77	60	64	.175	.175	.178	.88	.34	0.4	7.2	6.2	4.7	6.9
March	29.05	29.53	28.26	28.9	36.8	37.4	42.7	26.4	34.6	62	5	23	25	26	79	61	64	.132	.143	.156	2.20	.65	1.7	6.8	8.1	7.1	7.5
April	29.11	29.57	28.70	43.4	54.9	53.6	60.5	39.4	50.0	78	27	34	34	37	69	49	55	.202	.207	.229	1.75	.62	T	5.7	6.3	5.6	5.8
May	29.18	29.54	28.88	57.2	69.2	67.1	74.1	52.5	63.3	85	40	45	45	47	65	44	51	.316	.322	.337	.79	.35	.0	4.1	5.3	5.3	4.6
June	29.06	29.29	28.85	67.6	77.7	75.9	82.7	62.3	72.5	92	48	58	57	58	71	53	58	.491	.495	.509	4.38	2.91	.0	4.7	5.7	5.9	5.1
July	29.08	29.36	28.62	69.8	79.8	79.1	84.7	64.9	74.8	95	58	60	60	60	73	54	53	.537	.540	.524	4.31	.89	.0	3.5	5.3	4.0	4.2
August	29.14	29.41	28.92	68.7	81.3	79.0	84.7	64.4	74.6	95	54	58	57	58	70	45	50	.496	.478	.488	.71	.28	.0	3.3	5.1	3.7	4.0
September	29.22	29.49	28.85	61.1	73.9	70.7	77.5	58.0	67.8	99	43	52	52	52	73	49	54	.411	.405	.414	1.52	.43	.0	3.8	4.7	4.2	4.2
October	29.13	29.45	28.78	48.6	60.1	56.6	63.9	45.3	54.6	78	35	42	46	44	79	63	65	.283	.331	.308	3.99	1.44	.0	5.9	6.5	5.4	6.2
November	29.30	29.90	28.75	36.3	43.6	42.2	48.6	33.4	41.0	70	17	30	32	31	78	65	66	.178	.197	.190	2.07	.76	T	7.0	5.9	5.1	6.2
December	29.27	29.78	28.64	29.4	34.9	34.7	40.3	24.8	32.6	64	−4	25	28	27	84	75	75	.152	.165	.164	3.05	1.50	6.8	7.0	6.6	4.6	7.6
Year	29.16	29.90	28.26	48.7	58.1	56.5	62.8	44.7	53.8	99	−4	41	42	42	75	57	61	.297	.305	.309	30.03	2.91	8.9	5.5	6.0	5.2	5.8

CONCORD, N.H.

[ϕ=43°12′ N.; λ=71°32′ W.]

January	29.77	30.32	29.06	29.4	34.6	.....	39.8	23.9	31.8	66	−1	25	28	...	84	78	...	0.145	0.165	.....	3.94	0.77	15.5	6.8	7.1	.....	6.1
February	29.66	30.17	29.10	20.0	27.2	.....	32.5	15.7	24.1	48	0	15	20	...	80	74	...	.091	.113	.....	2.57	.85	24.4	5.4	5.4	.....	4.9
March	29.39	30.02	28.23	26.4	34.2	.....	38.7	22.0	30.4	56	7	21	25	...	77	68	...	.114	.139	.....	2.70	.92	15.3	6.2	5.5	.....	4.6
April	29.57	30.08	28.77	41.2	49.1	.....	53.7	33.2	43.4	76	22	33	39	...	74	68	...	.192	.241	.....	2.28	1.87	T	5.5	5.4	.....	4.9
May	29.71	30.12	29.40	54.7	66.3	.....	69.6	43.6	56.3	92	30	44	49	...	69	55	...	.303	.367	.....	1.72	.74	0	4.4	4.6	.....	3.3
June	29.57	30.04	29.15	61.9	71.0	.....	75.1	51.0	63.0	86	38	55	59	...	80	67	...	.452	.512	.....	2.13	1.55	.0	5.7	6.2	.....	4.3
July	29.49	29.81	28.88	65.9	75.6	.....	78.8	54.9	66.8	88	41	58	58	...	75	56	...	.478	.490	.....	1.43	.61	.0	4.8	5.1	.....	4.4
August	29.67	30.02	29.36	65.0	79.8	.....	82.3	56.4	69.4	92	46	50	60	...	82	51	...	.509	.516	.....	2.05	.90	.0	2.9	3.4	.....	4.2
September	29.75	30.16	29.04	56.9	69.2	.....	72.4	49.0	60.7	87	34	51	54	...	82	61	...	.396	.451	.....	7.73	5.97	.0	4.2	4.1	.....	4.0
October	29.71	30.21	29.13	47.6	57.7	.....	61.4	42.6	52.0	79	23	43	48	...	86	70	...	.301	.351	.....	2.70	1.08	.0	5.2	6.8	.....	6.0
November	29.88	30.53	29.04	31.4	40.6	.....	45.6	25.2	35.4	61	4	27	32	...	84	71	...	.162	.187	.....	3.89	1.22	T	5.0	5.5	.....	5.1
December	29.80	30.31	28.98	25.9	35.3	.....	39.8	20.2	30.0	65	−10	21	25	...	80	66	...	.125	.142	.....	.97	.22	5.0	5.1	5.5	.....	5.5
Year	29.66	30.53	28.23	43.9	53.4	.....	57.5	36.4	46.9	92	−10	38	41	...	79	65	...	.272	.306	.....	34.11	5.97	60.1	5.1	5.4	.....	4.8

CONCORDIA, KANS.

[ϕ=39°35′ N.; λ=97°41′ W.]

January	28.60	29.09	27.78	20.0	25.7	25.2	30.3	16.5	23.4	48	−2	18	21	22	92	81	88	0.101	0.114	0.122	1.24	0.55	12.1	6.3	5.7	5.2	5.4
February	28.55	29.00	27.76	29.6	38.3	38.3	44.3	26.4	35.4	74	0	27	29	31	89	72	77	.152	.171	.185	.59	.23	7.7	4.4	5.3	5.1	5.3
March	28.56	29.12	27.94	26.9	37.6	38.9	43.8	24.1	34.0	76	2	23	24	26	86	62	64	.138	.142	.152	.83	.46	5.5	4.4	5.5	6.0	5.3
April	28.46	28.97	27.87	47.5	62.2	62.0	67.1	45.3	56.2	85	29	40	40	41	76	50	51	.263	.271	.278	1.43	.74	.0	5.8	6.3	6.2	5.7
May	28.53	28.93	28.13	57.1	72.9	72.3	77.1	53.5	65.3	89	39	49	48	50	74	44	48	.352	.347	.369	2.21	.93	.0	4.9	4.8	3.9	4.3
June	28.44	28.66	28.18	67.6	81.0	79.4	85.1	63.5	74.3	97	59	61	62	62	81	52	57	.549	.553	.560	6.07	2.36	.0	4.7	5.1	5.4	5.0
July	28.48	28.70	27.96	73.4	87.6	87.3	91.6	70.5	81.0	101	60	65	64	65	76	48	50	.625	.608	.619	3.43	1.13	.0	4.4	4.0	2.7	3.4
August	28.49	28.74	28.17	69.7	84.0	82.7	88.1	67.3	77.7	95	54	63	63	63	81	51	53	.589	.593	.590	6.63	3.84	.0	3.9	3.8	4.2	4.1
September	28.63	28.99	28.16	56.8	74.7	70.2	78.4	54.7	66.6	93	44	51	52	52	83	47	56	.386	.309	.402	2.02	.68	.0	4.2	3.9	3.6	3.6
October	28.55	29.00	28.11	44.9	59.9	56.0	65.3	41.8	53.6	85	29	38	38	39	78	48	54	.245	.245	.248	2.43	2.05	T	4.1	3.3	3.2	3.3
November	28.68	29.21	28.21	31.8	45.1	42.2	50.5	28.6	39.6	68	11	23	26	24	69	47	48	.129	.141	.133	.04	.04	T	3.7	4.4	2.7	4.1
December	28.64	29.16	28.05	19.6	31.0	27.9	35.0	17.0	26.0	63	−11	16	20	20	87	64	75	.096	.114	.118	.31	.09	2.9	3.6	4.5	3.5	4.4
Year	28.55	29.21	27.78	45.4	58.3	56.9	63.0	42.4	52.8	101	−11	40	41	41	81	56	60	.302	.308	.315	27.23	3.84	28.2	4.5	4.7	4.3	4.5

Annual meteorological summaries for the year ending December 31, 1932—Continued

COLUMBIA, S.C.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: 1 or more	Snow: 0.01 inch or more melted	Snow: Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.5	SW.	25	SW.	0	5	6	4	7	13	11	3	11	2	11	10	10	9	8	0	0	0	5	2	0	0	2	9	0
February	7.6	NE.	32	SW.	1	6	15	3	3	4	12	5	10	0	8	9	12	10	7	0	0	0	1	0	0	0	1	0	0
March	9.6	W.	35	SW.	2	5	8	1	2	12	9	16	8	0	13	8	10	9	8	2	1	0	0	0	0	0	8	2	0
April	7.6	SW.	23	SW.	0	5	14	4	5	4	13	12	3	0	13	8	9	8	4	0	0	1	0	0	0	0	0	3	0
May	7.5	NE.	21	NE.	0	4	21	5	7	6	9	2	7	1	12	13	6	12	9	0	0	0	0	0	0	0	0	5	0
June	6.6	SW.	26	SW.	0	2	9	9	8	10	10	8	4	0	8	16	6	12	11	0	0	0	1	0	0	14	0	13	0
July	7.1	SW.	30	NE.	0	4	6	4	5	7	16	18	3	1	11	18	2	9	8	0	0	0	0	0	0	24	0	10	0
August	6.2	NE.	24	SW.	0	3	16	5	13	12	6	4	1	2	11	15	5	10	6	0	0	0	1	0	0	12	0	7	0
September	6.4	NE.	21	NE.	0	5	25	7	13	2	2	0	2	6	9	10	11	7	7	0	0	0	3	2	0	7	0	2	0
October	6.3	NE.	21	S.	0	4	19	2	8	5	10	6	3	3	14	9	8	8	8	0	0	0	2	2	0	0	0	2	0
November	7.6	NE.	24	NE.	0	7	25	6	4	3	5	7	7	2	12	8	10	8	7	0	0	0	0	0	0	0	6	2	0
December	6.4	NE.	26	SW.	0	7	12	1	5	4	13	4	7	1	4	9	18	14	12	0	0	0	7	6	1	0	6	0	0
Year	7.2	NE.	35	SW.	3	60	187	45	73	82	116	85	66	18	126	133	107	116	95	2	1	1	20	12	1	57	23	46	0

COLUMBUS, OHIO

[H_b=822 ft.; h_t=216 ft.; h_r=209 ft.; h_a=230 ft.]

January	12.6	SW.	41	S.	2	2	2	5	11	10	15	12	5	0	6	6	19	16	14	3	0	1	4	0	1	0	14	2	0
February	12.3	S.	41	SW.	3	1	5	3	7	10	11	10	11	0	6	8	15	8	6	5	1	0	6	3	2	0	20	0	0
March	14.2	W.	36	W.	5	3	8	2	5	5	9	18	12	0	2	12	17	17	11	15	6	2	1	0	8	0	21	3	0
April	11.9	NE.	41	SW.	3	9	11	5	5	4	5	11	9	1	9	8	13	9	6	4	0	0	5	2	0	0	9	2	0
May	10.4	SW.	32	SW.	2	6	8	3	10	11	10	7	7	0	11	14	6	8	4	0	0	0	2	0	0	0	4	2	
June	8.8	SW.	29	SW.	0	5	13	3	6	8	9	9	7	0	10	14	6	10	8	0	0	0	3	1	0	1	0	12	0
July	9.7	W.	43	NW.	4	7	3	3	3	3	13	12	13	8	0	14	13	4	12	11	0	0	0	0	0	8	0	9	0
August	8.2	SW.	31	SW.	0	6	14	3	8	11	11	3	6	0	13	15	3	7	4	0	0	0	0	0	0	4	0	3	0
September	9.3	NE.	31	S.	0	14	8	2	8	5	6	3	11	3	17	6	7	9	8	0	0	0	2	0	0	1	0	5	0
October	11.8	SW.	37	W.	2	1	8	2	9	22	5	10	5	0	8	9	14	11	9	0	0	0	3	0	0	0	0	1	0
November	10.6	S.	27	N.	0	4	10	7	7	11	9	5	7	0	8	8	14	9	8	8	0	0	2	0	1	0	15	0	0
December	11.7	S.	37	SE.	2	4	5	3	7	20	12	7	4	0	5	4	22	12	9	7	2	0	9	5	12	0	22	0	0
Year	11.0	SW.	43	NW.	23	62	95	41	86	130	114	108	92	4	109	117	140	128	98	42	9	3	37	11	24	14	101	41	2

CONCORD, N.H.

[H_b=289 ft.; h_t=70 ft.; h_r=62 ft.; h_a=79 ft.]

January	6.3	NW.	25	NW.	0	7	5	3	4	1	2	2	7	0	11	4	16	12	12	10	7	0	6	1	7	0	28	0	0
February	6.5	NW.	25	W.	0	7	1	4	4	1	2	2	8	0	13	5	11	8	8	14	7	0	5	0	17	0	28	0	0
March	8.6	NW.	22	NW.	0	2	3	1	1	2	2	5	12	0	14	7	10	11	9	11	8	0	0	0	9	0	27	0	0
April	7.7	NW.	24	NW.	0	2	3	2	0	2	2	3	14	0	13	6	11	5	4	5	0	0	3	0	0	0	15	0	0
May	6.1	NW.	19	NW.	0	8	6	1	5	0	3	3	5	0	19	8	4	6	5	0	0	0	3	0	0	0	0	0	0
June	5.5	W.	18	SW.	0	6	6	1	3	2	2	6	4	0	11	14	5	11	3	0	0	0	6	0	0	0	0	2	0
July	5.9	NW.	18	W.	0	2	4	6	5	3	2	1	8	0	13	11	7	13	6	0	0	0	2	0	0	0	0	5	0
August	5.4	SE.	17	S.	0	3	10	2	4	4	3	2	3	0	12	16	3	6	6	0	0	0	1	0	0	2	0	2	0
September	5.7	N	18	W.	0	8	4	2	5	2	1	2	6	0	17	8	5	10	6	0	0	0	5	1	0	0	0	0	0
October	6.5	SE.	21	W.	0	3	6	2	6	4	0	6	4	0	10	7	14	10	7	0	0	0	9	6	1	0	4	0	0
November	6.1	NW.	25	NE.	0	7	3	0	2	1	1	4	6	0	12	7	11	9	7	2	1	0	2	0	2	0	23	0	0
December	5.3	NW.	20	SW.	0	5	4	2	3	2	1	8	5	1	12	8	11	13	6	8	5	0	4	1	10	0	26	0	0
Year	6.3	NW.	25	NW.	0	63	57	26	42	24	21	44	82	7	157	101	108	114	79	50	28	0	43	4	45	3	152	14	0

CONCORDIA, KANS.

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

January	8.1	W.	23	N.	0	8	9	7	1	3	9	15	10	0	10	9	12	7	5	12	5	0	5	0	21	0	30	0	0
February	7.7	W.	27	NW.	0	9	6	8	4	5	7	12	6	1	11	7	11	5	4	4	3	0	8	4	7	0	22	0	0
March	9.8	N	32	SW.	1	15	7	7	2	4	6	8	12	1	11	13	7	6	4	7	3	0	6	0	8	0	20	0	0
April	9.5	SE.	24	S.	0	12	4	8	14	9	3	6	3	1	8	10	12	9	5	0	0	0	1	0	0	0	1	3	0
May	8.7	S.	29	S.	0	5	5	5	5	22	8	6	4	2	13	15	3	12	12	0	0	0	2	0	0	0	0	10	0
June	6.8	S.	27	SE.	0	5	5	6	9	13	7	8	5	2	11	12	7	11	8	0	0	0	1	0	0	0	0	13	0
July	8.2	S.	25	NE.	0	3	4	11	8	24	9	2	1	0	19	9	3	8	8	0	0	0	2	1	0	0	4	0	0
August	7.8	S.	30	N.	0	5	6	9	9	17	11	1	4	0	14	13	4	9	7	0	0	0	2	1	0	0	12	0	0
September	6.7	SW.	32	SW.	1	5	11	6	12	9	5	4	1	7	18	8	4	5	5	0	0	0	1	0	0	0	2	0	0
October	8.6	SW.	26	NW.	0	8	5	5	5	10	10	12	7	0	18	9	4	6	4	1	0	0	0	0	0	0	4	0	0
November	9.4	S.	31	N.	0	10	4	0	8	14	9	2	10	3	15	9	6	1	1	1	0	0	1	0	2	0	18	0	0
December	7.4	W.	29	NW.	0	7	11	4	6	5	8	12	7	2	13	11	7	6	4	7	4	0	3	2	12	0	29	0	0
Year	8.2	S.	32	SW.	2	92	77	76	83	135	92	88	70	19	161	125	80	85	67	32	15	5	29	7	50	37	124	56	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	30.04	30.47	29.62	57.6	63.1	61.7	66.8	54.1	60.4	78	40	54	54	54	87	74	78	0.448	0.448	0.455	1.13	0.28	0.0	7.5	7.5	7.1	7.6
February	29.98	30.45	29.64	61.3	69.2	67.7	73.2	50.3	66.2	86	46	58	60	60	90	74	79	.508	.539	.546	1.87	1.34	.0	8.3	7.0	5.9	7.4
March	30.00	30.54	29.47	54.8	64.0	62.6	68.1	52.5	60.3	88	30	49	48	50	83	60	67	.399	.385	.408	1.50	.50	.2	6.5	6.3	6.1	6.3
April	29.92	30.40	29.66	66.9	74.4	72.0	76.6	65.4	71.0	87	48	62	61	63	85	67	76	.589	.580	.608	2.42	1.90	.0	6.2	5.4	5.5	5.6
May	29.93	30.15	29.69	72.3	80.8	78.5	83.0	71.1	77.0	89	63	68	67	68	80	64	72	.685	.673	.689	1.63	1.26	.0	5.4	4.3	4.7	4.7
June	29.86	30.02	29.64	78.3	85.0	82.5	87.1	76.7	81.9	90	70	74	73	74	87	69	76	.834	.822	.853	1.78	.95	.0	5.4	5.1	4.8	5.1
July	29.94	30.13	29.63	79.7	87.5	85.3	89.5	78.3	83.9	97	75	75	75	75	87	66	73	.880	.865	.875	.32	.19	.0	4.8	4.3	4.2	4.7
August	29.88	30.01	29.73	79.6	87.7	84.6	90.0	78.7	84.4	96	75	76	75	75	89	66	74	.897	.870	.873	1.83	1.07	.0	5.1	4.5	5.7	5.5
September	29.92	30.11	29.73	74.9	84.0	81.5	86.1	73.9	80.0	92	68	71	71	72	89	67	74	.773	.763	.788	7.59	2.42	.0	4.3	6.7	6.0	5.8
October	29.98	30.35	29.70	66.1	77.7	74.4	80.3	64.0	72.2	90	50	61	62	63	84	61	70	.570	.595	.605	.66	.31	.0	3.4	3.7	2.7	3.4
November	30.15	30.49	29.69	53.8	67.7	63.4	70.1	51.4	60.8	88	38	47	49	51	78	54	68	.349	.387	.415	.90	.42	.0	3.9	2.8	1.9	2.8
December	30.09	30.67	29.61	51.0	56.8	55.0	60.0	48.3	54.2	78	28	49	52	51	93	85	87	.373	.381	.395	1.08	.36	.0	7.0	6.8	6.9	8.0
Year	29.97	30.67	29.47	66.4	74.8	72.4	77.6	64.5	71.0	97	28	62	62	63	86	67	74	.609	.609	.626	22.67	2.42	.2	5.7	5.3	5.1	5.6

DALLAS, TEX.

[ϕ=32°46′ N.; λ=96°47′ W.]

January	29.53	30.04	28.98	41.9	49.6		56.0	40.0	48.0	75	28	37	38		82	67		0.234	0.246		7.53	2.16	0.2	5.0	5.6		5.1
February	29.46	29.93	29.04	50.0	59.4		65.2	47.1	56.2	85	27	43	46		80	66		.297	.334		3.42	1.03	.0	5.9	6.6		5.9
March	29.46	30.05	28.76	44.5	55.7		63.7	41.2	52.4	89	20	36	36		71	49		.237	.236		1.18	.77	.4	4.2	4.2		3.8
April	29.38	29.73	29.04	59.2	70.9		76.6	57.5	67.0	86	41	50	49		72	50		.381	.374		2.45	1.39	.0	4.3	4.7		4.2
May	29.45	29.67	29.16	64.8	76.5		80.3	63.3	71.8	93	57	59	59		82	57		.506	.512		4.76	1.51	.0	4.4	4.9		4.2
June	29.34	29.51	29.10	72.7	84.8		89.9	71.1	80.5	96	63	68	66		85	55		.686	.636		2.67	1.08	.0	5.7	5.0		3.8
July	29.42	29.65	29.06	77.1	89.0		93.2	76.4	84.8	100	70	70	68		78	53		.723	.695		1.95	.99	.0	2.9	4.0		2.8
August	29.37	29.56	29.20	76.1	88.0		92.5	75.6	84.0	100	69	69	68		78	52		.705	.680		1.88	1.40	.0	3.8	4.7		3.8
September	29.46	29.70	29.21	69.0	80.4		83.4	68.2	75.8	93	59	64	63		83	57		.596	.586		6.62	4.18	.0	4.6	5.6		4.9
October	29.48	29.82	29.10	55.7	70.0		75.7	53.4	64.6	87	40	47	46		74	45		.342	.327		1.59	.74	.0	4.3	3.2		3.6
November	29.62	30.02	29.09	43.4	57.0		62.9	41.1	52.0	82	22	33	35		68	45		.204	.220		.31	.26	T	2.6	3.1		2.5
December	29.57	30.11	29.01	38.4	46.2		50.5	35.2	42.8	79	12	34	36		84	71		.215	.241		3.98	1.49	1.8	5.3	6.0		5.7
Year	29.46	30.11	28.76	57.7	69.0		74.2	55.8	65.0	100	12	51	51		78	56		.427	.424		38.34	4.18	2.4	4.4	4.8		4.2

DAVENPORT, IOWA

[ϕ=41°30′ N.; λ=90°38′ W.]

January	29.40	30.08	28.76	27.8	32.5	31.4	36.3	23.6	30.0	56	−4	24	24	24	82	70	75	0.137	0.135	0.140	1.05	0.47	0.8	6.9	7.2	6.8	7.3
February	29.35	29.96	28.41	28.1	37.0	37.6	43.4	24.6	34.0	69	12	23	27	28	80	65	67	.132	.153	.161	1.00	.52	5.2	5.9	5.3	6.2	6.2
March	29.32	29.82	28.78	25.0	31.7	32.2	37.0	22.4	29.7	71	1	19	20	22	75	63	67	.115	.120	.130	2.58	.78	12.2	6.8	7.2	5.5	6.7
April	29.33	29.71	28.91	42.4	55.0	55.3	61.0	39.6	50.3	80	30	35	37	38	75	54	55	.209	.234	.243	1.51	.76	T	4.9	6.5	6.2	6.3
May	29.36	29.72	29.04	56.7	69.7	70.1	74.6	53.3	64.0	90	41	47	46	47	71	46	48	.333	.331	.344	3.18	1.24	.0	4.3	5.2	5.1	4.9
June	29.25	29.47	28.90	68.1	79.9	78.0	84.1	64.2	74.2	93	57	60	61	62	77	54	60	.537	.549	.567	7.05	1.78	.0	6.5	6.1	6.7	6.5
July	29.29	29.59	28.79	70.7	82.3	83.2	87.2	67.6	77.4	98	52	61	62	63	73	52	52	.553	.568	.584	3.33	1.69	.0	4.5	4.5	3.1	4.4
August	29.33	29.60	29.06	66.9	78.4	77.9	82.7	64.8	73.8	92	54	62	62	64	84	60	63	.557	.573	.597	7.43	3.85	.0	5.2	6.2	4.7	5.6
September	29.44	29.78	29.10	55.9	71.0	69.1	75.6	54.4	65.0	87	42	49	49	49	78	47	50	.357	.356	.366	.77	.45	.0	3.8	3.9	3.1	3.4
October	29.32	29.65	28.90	44.6	56.0	53.9	60.4	42.3	51.4	81	30	39	41	42	82	60	66	.253	.278	.282	2.99	1.63	T	5.3	6.1	6.4	6.3
November	29.49	30.07	28.84	29.8	39.8	37.4	44.9	26.8	35.8	61	14	24	27	27	79	60	66	.139	.154	.153	1.28	.96	.4	5.3	6.1	5.3	5.6
December	29.44	30.02	28.55	22.5	29.4	27.3	34.2	18.6	26.4	58	−10	17	20	20	79	67	71	.114	.129	.128	2.32	.66	3.7	5.4	5.9	6.1	5.5
Year	29.36	30.08	28.41	44.9	55.2	54.4	60.1	41.8	51.0	98	−10	38	40	40	78	58	62	.286	.298	.308	34.49	3.85	22.3	5.4	5.8	5.4	5.7

DAYTON, OHIO

[ϕ=39°46′ N.; λ=84°10′ W.]

January	29.15	29.70	28.57	38.2	42.4	40.7	47.2	33.5	40.4	68	13	33	35	34	82	74	78	0.208	0.217	0.212	6.14	1.36	T	7.1	7.3	6.2	7.3
February	29.07	29.71	28.40	36.3	42.7	41.8	48.2	32.8	40.5	72	19	30	31	30	77	62	64	.180	.183	.179	1.42	.57	0.6	6.6	5.6	5.6	6.1
March	28.98	29.46	28.10	28.8	37.2	36.6	42.4	26.2	34.3	65	5	23	26	27	79	65	69	.134	.151	.164	3.02	.91	1.6	6.0	5.9	6.5	7.0
April	29.03	29.45	28.57	44.5	55.8	54.9	61.8	40.2	51.0	78	29	35	35	37	71	50	54	.216	.215	.231	1.47	.38	T	5.6	4.4	5.4	5.2
May	29.10	29.47	28.82	58.2	70.2	67.1	74.1	52.1	63.1	86	38	46	48	48	66	47	53	.330	.346	.344	2.47	1.21	.0	3.5	3.8	4.8	4.6
June	28.98	29.21	28.74	68.4	79.3	76.2	83.1	62.7	72.9	90	49	60	58	60	76	50	59	.537	.502	.533	7.22	3.23	.0	3.8	3.4	5.8	4.9
July	29.01	29.28	28.59	71.0	82.0	80.3	86.3	65.7	76.0	96	57	62	60	60	74	49	52	.569	.533	.542	3.41	1.48	.0	3.4	3.8	2.9	3.9
August	29.07	29.34	28.84	67.6	81.7	79.0	85.2	63.5	74.4	95	51	60	56	57	76	44	48	.522	.471	.474	.94	.47	.0	3.2	3.8	2.7	3.9
September	29.14	29.38	28.74	60.3	74.1	69.9	77.2	57.6	67.4	98	44	54	51	53	79	48	58	.425	.408	.425	3.78	1.84	.0	4.3	4.3	3.6	4.9
October	29.05	29.34	28.68	49.8	60.3	56.3	63.8	46.1	55.0	78	34	44	43	44	80	55	64	.298	.290	.300	3.62	1.23	.0	6.0	5.4	4.7	6.1
November	29.23	29.80	28.72	35.5	50.0	41.7	47.6	32.7	40.2	73	19	30	31	32	79	62	69	.172	.180	.194	2.64	1.16	2.8	6.2	5.7	5.5	6.1
December	29.18	29.69	28.59	29.8	35.6	34.2	40.5	25.5	33.0	65	−6	26	26	27	85	71	75	.158	.158	.163	4.87	2.94	6.3	6.6	6.6	4.5	7.1
Year	29.08	29.80	28.10	49.0	59.3	56.6	63.1	44.9	54.0	98	−6	42	42	42	77	56	62	.312	.304	.313	41.6	3.23	11.1	5.2	5.0	4.8	5.6

Annual meteorological summaries for the year ending December 31, 1932—Continued

CORPUS CHRISTI, TEX.

[H_b=20 ft.; h_t=11 ft.; h_r=63 ft.; h_a=78 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	32° or below	90° or above	Maximum temp., 32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	11.3	SE.	33	SE.	1	15	4	7	17	8	0	2	9	0	5	4	22	14	8	0	0	0	10	4	0	0	0	2	0
February	12.0	SE.	37	N.	2	12	2	6	19	10	3	3	3	0	2	11	16	7	4	0	0	0	13	6	0	0	0	3	0
March	13.2	SE.	34	SE.	2	14	4	4	21	8	2	1	8	0	8	7	16	7	5	1	1	0	3	2	0	0	4	6	0
April	13.1	SE.	32	SE.	1	1	2	10	34	6	0	1	6	0	10	9	11	5	5	0	0	0	2	0	0	0	0	3	0
May	11.9	SE.	34	E.	1	7	2	4	30	11	3	2	2	1	11	12	8	3	2	0	0	0	0	0	0	0	0	4	0
June	13.3	SE.	47	S.	2	2	0	5	27	23	2	0	0	1	11	9	10	8	5	0	0	0	0	0	0	0	1	4	0
July	11.9	SE.	41	NE.	2	0	0	0	30	26	2	3	0	1	11	15	5	4	2	0	0	0	0	0	0	0	7	4	0
August	11.8	SE.	27	S.	0	2	1	8	26	22	0	1	2	0	10	11	10	8	7	0	0	0	0	0	0	0	18	7	0
September	9.6	NE.	25	NE.	0	13	14	15	8	4	2	4	0	0	10	9	11	9	8	0	0	0	2	1	0	0	7	7	0
October	9.8	S.	27	N.	0	13	10	8	10	11	3	2	5	0	19	8	4	4	3	0	0	0	3	2	0	0	1	9	0
November	10.8	N.	30	N.	0	16	7	10	1	15	2	4	5	0	20	6	4	6	5	0	0	0	4	1	0	0	1	1	0
December	10.6	N.	30	S.	0	25	10	6	7	8	1	2	3	0	4	3	24	13	7	0	0	0	16	11	0	0	1	0	0
Year	11.6	SE.	47	S.	11	120	56	83	230	152	20	25	43	3	121	104	141	88	61	1	1	0	53	27	0	34	5	43	0

DALLAS, TEX.

[H_b=512 ft.; h_t=220 ft.; h_r=194 ft.; h_a=227 ft.]

January	12.7	SE.	35	NW.	2	5	3	2	9	3	3	3	3	0	14	4	13	10	9	1	1	0	3	1	0	0	5	3	0
February	12.1	N.	47	SW.	2	6	3	3	5	4	2	3	3	0	11	2	16	12	8	0	0	1	4	3	0	0	1	4	0
March	14.9	N.	44	W.	9	8	1	3	8	3	3	2	3	0	18	6	7	7	4	2	2	2	0	1	0	0	9	3	0
April	14.2	SE.	53	SW.	5	2	3	3	9	5	2	3	2	1	14	6	10	7	4	0	0	2	0	0	0	0	9	4	0
May	10.9	SE.	38	W.	3	6	10	2	5	5	2	0	1	0	13	9	9	8	8	0	0	2	0	0	0	0	9	4	0
June	10.6	SE.	50	W.	3	1	1	4	10	6	4	2	1	1	13	11	6	8	6	0	0	1	0	0	0	0	6	6	0
July	9.0	SE.	32	W.	1	0	2	2	7	16	3	1	0	0	19	7	5	6	6	0	0	0	0	0	0	0	7	7	0
August	10.4	SE.	33	NE.	2	0	6	3	16	5	0	0	0	1	13	15	3	7	4	0	0	0	0	0	0	0	6	6	0
September	8.9	NE.	40	NE.	1	4	11	6	4	1	1	0	3	0	11	6	13	7	6	0	0	0	2	1	0	0	5	5	0
October	11.8	SE.	52	N.	2	3	2	2	9	4	2	3	3	1	19	4	8	8	8	0	0	0	1	0	0	0	2	2	0
November	12.2	NW.	43	NW.	4	4	4	3	5	5	1	2	0	0	22	3	5	2	2	1	0	0	1	1	0	0	4	0	0
December	12.1	N.	36	SW.	2	7	4	1	7	4	1	0	7	0	10	5	16	10	9	4	3	0	7	6	3	0	15	2	0
Year	11.6	SE.	53	SW.	36	46	50	34	94	61	24	19	34	4	177	78	111	89	71	8	6	6	21	13	4	71	34	51	0

DAVENPORT, IOWA

[H_b=606 ft.; h_t=118 ft.; h_r=111 ft.; h_a=143 ft.]

January	11.4	W.	30	SW.	0	3	4	7	4	9	6	13	15	1	8	2	21	8	6	16	4	0	12	1	9	0	26	0	0
February	10.8	W.	35	W.	1	4	5	5	5	5	13	9	12	0	4	15	10	6	4	8	4	0	7	2	3	0	22	1	0
March	12.5	NW.	38	NE.	2	4	9	6	3	4	3	7	24	2	3	13	15	13	8	17	8	0	3	0	11	0	24	2	0
April	11.3	E.	32	NW.	1	4	14	15	6	1	3	8	9	0	7	9	14	10	6	1	0	0	7	2	0	0	2	4	0
May	10.1	SW.	32	SW.	2	0	1	7	6	11	11	6	14	6	11	11	9	11	8	0	0	1	0	0	1	0	8	2	
June	7.1	E.	41	SW.	2	6	5	10	5	7	5	8	5	9	6	12	12	17	12	0	0	1	2	1	0	3	0	12	0
July	8.3	SW.	31	SE.	0	1	6	5	3	6	18	12	8	3	10	16	5	9	7	0	0	0	0	0	12	0	8	0	0
August	7.6	SW.	28	NE.	0	4	1	9	8	10	11	8	6	5	10	9	12	13	12	0	0	0	4	2	0	2	0	10	0
September	7.4	E.	31	S.	0	10	6	7	7	4	6	9	10	1	15	10	5	5	4	0	0	0	5	1	0	0	0	2	0
October	10.8	W.	37	NW.	1	6	8	10	2	5	7	15	7	2	7	10	14	8	6	1	1	0	6	1	0	0	1	2	0
November	10.5	SW.	27	SW.	0	4	2	10	7	6	14	7	9	1	11	8	11	6	4	6	3	0	5	2	3	0	22	0	0
December	11.0	SW.	43	SW.	1	3	3	4	5	12	11	11	11	2	13	5	13	9	6	9	5	0	3	2	13	0	24	1	0
Year	9.9	NW.	43	SW.	10	49	64	95	61	80	108	113	130	32	105	120	141	115	83	58	25	2	54	14	39	18	121	50	2

DAYTON, OHIO

[H_b=900 ft.; h_t=137 ft.; h_r=132 ft.; h_a=173 ft.]

January	10.1	SW.	41	SW.	2	3	2	4	4	12	17	12	8	0	6	8	17	14	13	4	0	1	4	0	2	0	14	3	0
February	9.9	SW.	46	NW.	2	5	9	3	3	7	16	5	10	0	7	9	13	8	6	2	2	0	7	0	0	0	15	0	0
March	11.2	NW.	34	S.	2	4	11	4	2	5	7	13	16	0	1	19	11	15	10	9	6	1	6	0	0	0	20	1	0
April	9.6	NE.	38	SW.	1	4	19	5	5	2	10	1	14	0	9	15	6	8	3	0	0	0	5	0	0	0	8	0	0
May	8.7	SW.	32	SW.	1	8	10	3	5	3	23	1	9	0	11	17	3	10	4	0	0	0	9	0	0	0	0	6	0
June	7.3	SW.	30	SW.	0	9	12	2	4	6	18	4	5	0	8	19	3	12	9	0	0	0	2	0	0	0	9	13	0
July	8.0	SW.	31	NW.	0	7	13	1	3	4	17	8	8	1	16	13	2	9	8	0	0	0	2	0	0	0	8	8	0
August	6.9	SW.	22	SW.	0	7	16	2	3	8	18	5	3	0	14	14	3	7	4	0	0	0	1	0	0	0	6	5	0
September	7.8	NE.	26	SW.	0	12	17	2	1	4	11	4	8	1	11	12	7	7	6	0	0	0	7	0	0	0	1	3	0
October	9.5	SW.	27	W.	0	2	10	4	2	7	20	9	8	0	9	9	13	8	8	0	0	0	8	0	0	0	0	1	0
November	9.0	SW.	27	NE.	0	4	15	6	2	9	12	6	5	1	9	9	12	11	8	7	4	0	10	0	1	0	16	1	0
December	9.9	SW.	35	SW.	1	3	12	2	5	9	21	8	5	0	7	7	17	12	8	6	3	0	7	4	12	0	22	0	0
Year	9.0	SW.	46	NW.	9	68	146	38	39	76	190	73	99	3	108	151	107	121	92	31	15	2	59	4	24	15	95	41	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

DEL RIO, TEX.

[ϕ=29°20′ N.; λ=100°53′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.02	29.49	28.58	45.7	69.2	58.4	63.9	42.7	53.3	76	26	38	40	39	78	52	52	0.262	0.274	0.261	0.32	0.11	0.0	6.1	5.3	5.1	5.3
February	28.97	29.50	28.61	53.6	66.1	67.8	71.7	51.4	61.6	90	38	47	47	46	80	56	52	.347	.346	.339	1.20	.59	.0	6.7	7.0	7.3	6.7
March	28.98	29.54	28.39	48.6	64.7	67.2	72.0	46.1	59.0	96	25	36	34	32	65	36	32	.239	.216	.196	1.03	.79	.1	5.0	5.0	5.5	5.2
April	28.87	29.35	28.56	61.2	76.6	80.4	83.2	59.9	71.6	95	45	50	48	46	70	43	35	.409	.386	.364	.17	.09	.0	5.7	4.1	5.4	5.0
May	28.89	29.19	28.50	68.3	80.8	81.8	86.1	66.3	76.2	93	53	62	60	60	81	52	50	.564	.529	.523	4.69	2.03	.0	5.8	5.1	4.9	5.3
June	28.81	29.03	28.63	75.7	88.0	92.5	94.2	74.9	84.6	103	69	67	65	62	76	49	39	.675	.630	.568	.04	.04	.0	6.4	4.6	4.4	4.7
July	28.90	29.15	28.56	76.8	89.6	91.2	94.4	75.5	85.0	103	69	70	66	64	78	49	43	.723	.650	.609	.92	.45	.0	5.6	4.2	3.6	4.4
August	28.85	29.04	28.67	76.5	89.3	89.1	94.6	75.6	85.1	103	70	70	67	65	80	50	48	.723	.671	.616	5.89	3.36	.0	6.3	7.6	5.8	6.4
September	28.96	29.15	28.71	69.2	78.7	77.8	82.2	68.1	75.2	98	61	66	66	66	90	68	69	.648	.644	.634	9.95	2.42	.0	6.5	7.1	5.9	6.2
October	28.98	29.37	28.66	58.4	72.7	70.7	77.1	56.5	66.8	87	41	54	54	55	86	54	59	.435	.445	.461	.12	.08	.0	5.1	5.2	3.0	4.3
November	29.14	29.50	28.71	43.8	62.8	61.0	66.9	42.2	54.6	80	31	38	39	40	81	44	49	.250	.264	.279	1.40	1.39	.0	2.8	2.9	3.0	3.0
December	29.07	29.73	28.61	43.1	52.6	52.8	57.4	40.8	49.1	73	24	40	41	42	89	68	68	.263	.277	.281	.68	.34	.0	5.7	6.6	5.3	6.3
Year	28.95	29.73	28.39	60.1	73.4	74.2	78.6	58.3	68.5	103	24	53	52	51	80	52	50	.462	.444	.427	26.41	3.36	.1	5.6	5.4	4.9	5.2

DENVER, COLO.

[ϕ=39°45′ N.; λ=105°00′ W.]

January	24.62	25.04	23.81	31.8	32.6	31.7	37.7	17.8	27.8	61	6	10	11	12	62	43	44	0.069	0.072	0.075	0.53	0.24	9.2	3.5	4.8	5.5	4.7
February	24.63	24.99	24.05	31.9	36.9	45.7	51.7	28.0	39.8	72	8	18	17	18	58	34	36	.100	.095	.101	.58	.44	10.7	2.6	4.2	3.2	3.6
March	24.64	25.02	24.18	26.5	39.2	38.6	44.7	21.9	33.3	67	−5	14	13	14	62	38	41	.088	.079	.085	.83	.28	16.4	4.4	5.7	6.5	5.8
April	24.63	25.02	24.12	41.6	56.9	57.9	63.1	39.4	51.2	80	24	25	20	21	55	29	29	.135	.111	.114	1.39	.82	2.7	5.7	6.0	5.9	6.0
May	24.70	24.98	24.34	49.3	65.7	67.0	71.5	47.5	59.5	86	36	36	31	32	61	33	33	.212	.182	.190	1.55	.71	.0	4.1	4.6	6.3	5.2
June	24.71	24.93	24.39	56.6	73.8	73.8	78.6	54.6	66.6	92	46	43	39	39	61	31	32	.278	.249	.247	1.01	.41	.0	3.0	4.3	6.0	4.6
July	24.78	25.00	24.38	65.0	83.5	81.7	88.0	63.3	75.6	94	57	48	44	45	56	27	32	.344	.299	.312	.85	.25	.0	2.8	3.7	6.1	4.5
August	24.76	24.99	24.39	63.4	81.0	79.4	85.8	61.9	73.8	97	49	48	44	45	60	30	35	.341	.301	.319	1.20	.94	.0	2.9	3.3	5.6	4.2
September	24.83	25.11	24.46	52.4	71.0	72.9	76.2	51.0	63.6	87	42	36	34	35	57	29	28	.217	.200	.207	.11	.11	.0	2.7	2.6	3.4	3.0
October	24.74	25.10	24.37	39.7	56.1	54.5	61.6	35.7	48.6	82	16	27	27	28	63	38	41	.149	.146	.150	.99	.55	7.0	3.5	3.3	4.4	3.8
November	24.79	25.12	24.44	36.4	52.3	48.5	56.8	31.2	44.0	71	10	20	20	21	54	32	36	.110	.110	.113	.59	.47	5.3	3.7	4.8	4.3	4.5
December	24.65	25.02	24.27	18.2	30.7	26.4	34.2	13.1	23.6	67	−13	8	8	10	64	43	53	.063	.064	.069	.49	.29	8.8	2.3	5.4	4.3	4.5
Year	24.71	25.12	23.81	41.9	57.5	56.5	62.5	38.8	50.6	97	−13	28	26	27	59	34	37	.176	.159	.165	10.12	.94	60.1	3.4	4.4	5.1	4.5

DES MOINES, IOWA

[ϕ=41°35′ N.; λ=93°37′ W.]

January	29.15	29.82	28.44	22.2	27.3	26.4	31.7	17.3	24.5	51	−8	20	21	21	88	76	80	0.114	0.120	0.123	1.83	0.86	11.2	5.7	7.0	6.4	6.8
February	29.10	29.68	28.18	26.2	30.2	34.8	41.3	22.6	32.0	69	2	22	25	27	82	63	72	.126	.150	.153	.92	.66	2.3	5.7	6.3	5.6	5.9
March	29.09	29.59	28.58	24.5	33.6	34.0	38.7	22.0	30.4	73	0	20	21	22	82	60	60	.119	.128	.128	1.19	.47	6.4	6.4	5.9	6.2	6.4
April	29.06	29.51	28.62	43.3	57.9	56.8	62.0	40.7	51.4	78	30	37	38	38	80	51	53	.231	.246	.247	1.00	.39	T	6.7	7.7	6.3	7.0
May	29.08	29.43	28.69	56.5	72.0	70.6	75.5	52.1	63.8	91	38	48	47	48	73	44	48	.342	.344	.349	2.68	1.27	.0	4.9	5.5	5.0	5.1
June	28.98	29.19	28.70	67.9	79.6	78.4	83.0	64.3	73.6	94	61	62	62	63	82	55	60	.558	.553	.575	3.40	1.51	.0	6.2	7.1	6.6	6.3
July	29.03	29.33	28.55	70.5	84.4	84.7	88.3	66.6	77.4	98	52	62	62	62	76	49	48	.573	.573	.568	2.76	1.16	.0	5.0	4.7	3.5	4.4
August	29.06	29.32	28.73	66.5	78.3	78.5	82.5	63.6	73.0	92	53	61	62	63	84	60	62	.549	.567	.598	8.40	3.06	.0	6.0	6.0	4.3	5.5
September	29.18	29.56	28.74	54.0	72.5	68.1	75.2	51.3	63.2	89	40	50	47	51	86	42	57	.365	.338	.391	2.11	.86	.0	4.1	3.4	3.1	3.4
October	29.07	29.39	28.63	43.8	56.0	53.4	60.8	39.8	50.3	85	26	38	39	40	81	55	61	.243	.251	.255	1.19	.75	.3	6.2	6.7	5.2	6.0
November	29.22	29.81	28.60	27.8	39.1	36.0	42.6	23.7	33.2	62	7	23	27	26	81	63	67	.129	.153	.147	2.22	1.97	6.1	4.7	6.2	5.9	6.4
December	29.18	29.74	28.36	18.7	27.2	25.1	30.6	14.6	22.6	54	−15	14	17	18	83	66	75	.101	.114	.117	1.60	.88	4.6	3.7	6.3	5.1	5.8
Year	29.10	29.82	28.18	43.5	55.3	53.9	59.4	39.9	49.6	98	−15	38	39	40	82	57	62	.288	.295	.304	29.30	3.06	30.9	5.4	6.1	5.3	5.8

DETROIT, MICH.

[ϕ=42°20′ N.; λ=83°03′ W.]

January	29.27	29.87	28.65	35.4	37.3	36.4	41.9	31.5	36.7	59	6	32	33	32	88	84	84	0.192	0.196	0.189	5.02	1.70	0.9	9.0	8.8	7.7	8.6
February	29.19	29.88	28.44	30.5	34.5	34.8	40.0	28.0	33.0	62	11	26	29	29	84	80	78	.151	.168	.165	1.81	.64	9.5	6.8	7.0	5.6	6.6
March	29.11	29.56	28.38	26.7	32.5	31.4	36.2	23.4	29.8	58	5	22	27	25	81	80	75	.124	.156	.138	2.15	1.11	11.7	7.7	8.5	6.9	6.9
April	29.21	29.75	28.77	39.3	48.2	46.5	53.3	35.3	44.3	73	25	31	38	33	74	71	62	.179	.238	.191	2.08	.56	2.1	6.1	5.8	5.7	4.9
May	29.20	29.67	28.94	54.8	64.6	61.7	69.5	49.8	59.6	88	36	46	52	49	75	68	65	.333	.417	.365	5.42	2.42	.0	5.0	5.8	6.0	4.6
June	29.15	29.44	28.82	66.3	74.4	73.8	79.5	61.1	70.3	89	46	56	61	57	71	64	58	.469	.550	.485	1.35	.58	.0	4.9	5.6	5.3	4.8
July	29.14	29.44	28.60	68.4	77.3	76.1	82.4	63.5	73.0	99	55	58	62	59	71	61	57	.495	.565	.504	3.11	.98	.0	4.5	5.9	4.5	4.5
August	29.22	29.53	28.92	67.7	78.3	75.1	82.7	64.7	73.7	94	54	59	59	59	74	54	59	.509	.516	.515	4.02	2.38	.0	4.0	4.5	5.1	4.5
September	29.32	29.63	28.79	59.7	69.2	66.2	73.0	56.7	64.8	86	46	52	52	53	78	57	64	.412	.416	.424	4.05	2.55	.0	3.7	4.9	4.4	4.5
October	29.18	29.54	28.77	48.7	56.1	54.2	60.4	45.4	52.9	75	34	43	45	45	81	69	72	.289	.317	.310	3.78	1.03	T	7.1	6.7	6.1	6.9
November	29.38	30.04	28.84	34.1	38.9	37.2	43.1	31.2	37.2	62	18	30	30	31	84	71	79	.173	.176	.181	1.72	1.01	10.1	6.8	6.9	6.7	6.9
December	29.30	29.84	28.75	27.3	31.4	30.6	37.0	22.0	29.5	57	0	24	26	25	85	78	78	.141	.151	.150	3.57	1.18	4.0	7.1	7.2	5.9	6.9
Year	29.23	30.04	28.38	46.6	53.6	52.0	58.2	42.6	50.4	99	0	40	43	41	79	70	69	.289	.322	.301	38.08	2.55	38.3	6.1	6.5	5.8	5.9

Annual meteorological summaries for the year ending December 31, 1932—Continued

DEL RIO, TEX.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.5	SE.	31	N.	0	11	2	5	21	5	0	0	12	6	12	7	12	8	3	0	0	0	5	2	0	0	5	1	0
February	7.7	SE.	29	N.	0	9	5	10	17	3	1	3	8	2	5	9	15	10	6	0	0	0	6	3	0	0	0	2	0
March	9.8	SE.	44	N.	1	12	6	13	13	4	1	1	9	3	10	13	8	5	3	3	1	0	0	0	0	3	6	3	0
April	11.0	SE.	38	SE.	3	8	1	11	34	3	0	0	2	1	13	9	8	4	2	0	0	0	1	0	0	4	0	5	0
May	11.1	SE.	44	N.	3	1	2	11	35	5	1	2	4	1	10	10	11	9	7	0	0	2	0	0	0	12	0	10	0
June	12.9	SE.	37	E.	1	0	2	4	45	9	0	0	0	0	9	15	6	2	0	0	0	0	0	0	0	23	0	3	0
July	11.2	SE.	27	S.	0	0	0	19	40	1	0	0	0	2	12	12	7	5	4	0	0	0	1	0	0	28	0	4	0
August	10.0	SE.	30	S.	0	4	2	12	34	4	0	3	1	2	6	9	16	11	11	0	0	0	0	0	0	26	0	10	0
September	6.5	SE.	21	N.	0	11	4	17	10	6	0	1	2	9	9	3	18	16	15	0	0	0	1	0	0	6	0	4	0
October	8.4	SE.	32	NW.	1	6	1	7	21	10	0	1	11	5	15	7	9	4	1	0	0	0	4	1	0	0	0	0	0
November	7.7	SE.	27	N.	0	10	0	8	19	3	0	1	10	9	20	4	6	3	1	0	0	0	3	1	0	0	3	1	0
December	7.9	SE.	35	NW.	1	7	4	14	13	3	2	4	14	1	10	5	16	9	5	0	0	1	12	4	0	0	5	1	0
Year	9.4	SE.	44	N.	10	79	29	131	302	56	5	16	73	41	131	103	132	86	58	3	1	3	33	11	0	102	19	44	0

DENVER, COLO.

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

January	7.9	S.	28	W.	0	7	6	2	7	16	9	7	8	0	15	8	8	7	4	14	7	0	0	0	11	0	29	1	0
February	8.2	S.	27	NW.	0	8	6	4	0	13	9	8	10	0	13	13	3	4	3	6	4	0	2	2	3	0	18	0	0
March	9.0	S.	35	N.	1	9	9	4	3	15	3	10	9	0	7	14	10	10	6	13	10	0	0	0	6	0	23	0	0
April	9.1	S.	32	NE.	1	9	7	3	6	16	7	4	8	0	6	12	12	8	5	5	5	0	0	0	0	0	7	0	0
May	8.2	S.	30	N.	0	13	3	4	8	20	6	4	4	0	11	10	10	10	7	0	0	2	0	0	0	0	0	0	1
June	8.5	S.	32	SE.	1	8	6	6	7	18	4	6	5	0	10	17	3	10	4	0	0	0	0	0	0	2	0	13	0
July	8.1	S.	30	SE.	0	4	2	3	7	21	13	6	6	0	8	19	4	9	6	0	0	0	0	0	0	10	0	16	0
August	8.0	S.	30	NW.	0	10	5	3	7	15	9	6	7	0	11	17	3	9	2	0	0	0	0	0	0	10	0	13	0
September	7.1	S.	21	N.	0	8	7	5	8	22	6	3	3	0	17	10	3	1	1	0	0	0	0	0	0	0	0	4	0
October	7.6	S.	32	NE.	1	8	14	3	1	23	4	2	6	1	17	8	6	5	5	7	4	0	0	0	0	0	10	0	0
November	7.8	S.	32	N.	1	6	10	2	7	22	7	5	1	0	13	10	7	3	2	6	2	0	0	0	0	0	16	0	0
December	8.0	S.	28	W.	0	15	5	1	2	19	4	7	9	0	14	9	8	7	3	10	7	0	0	0	12	0	30	0	0
Year	8.1	S.	35	N.	5	103	80	40	63	220	81	68	76	1	142	147	77	83	48	61	39	2	2	2	32	22	133	56	1

DES MOINES, IOWA

[H_b=861 ft.; h_t=5 ft.; h_r=3 ft.; h_a=99 ft.]

January	9.7	NW.	25	NW.	0	6	5	4	7	7	7	8	18	0	7	6	18	10	6	13	8	0	6	2	16	0	29	0	0
February	9.8	NW.	36	NW.	1	8	4	2	11	7	4	8	14	0	8	9	12	5	4	9	3	0	8	3	9	0	26	0	0
March	12.0	NW.	36	S.	1	6	3	4	8	4	4	4	29	0	5	15	11	10	5	14	6	0	7	0	10	0	24	1	0
April	11.3	E.	30	NW.	0	10	4	17	12	2	3	2	10	0	5	7	18	10	6	2	0	0	5	2	0	0	1	3	0
May	10.2	S.	32	W.	1	8	0	7	15	18	4	5	7	0	11	8	12	11	10	0	0	2	1	0	0	1	0	12	0
June	7.9	SE.	36	N.	1	3	1	8	18	11	7	3	9	0	7	10	13	12	7	0	0	1	3	0	0	2	0	11	0
July	8.8	S.	30	N.	0	8	2	7	12	13	9	3	8	0	13	10	8	10	8	0	0	0	10	0	0	14	0	9	0
August	8.5	S.	28	SW.	0	6	1	12	18	8	4	5	7	1	12	6	13	12	11	0	0	1	14	1	0	6	0	11	0
September	7.7	N.	27	S.	0	9	2	7	13	9	2	4	14	0	17	7	6	6	5	0	0	1	16	1	0	0	0	5	0
October	10.2	NW.	33	W.	1	8	2	12	4	9	0	7	11	0	7	12	12	9	6	4	1	0	15	1	0	0	5	2	0
November	10.1	SE.	25	NW.	0	5	0	3	20	10	1	8	13	0	6	9	15	4	3	6	2	0	12	0	6	0	26	0	0
December	9.4	S.	29	W.	0	7	0	6	10	11	8	7	12	1	10	7	14	6	5	7	3	0	11	5	14	0	27	0	0
Year	9.6	NW.	36	NW.	5	84	24	89	146	109	62	64	152	2	108	106	152	105	76	55	23	5	114	15	55	23	138	54	0

DETROIT, MICH.

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

January	12.1	SW.	41	SW.	3	2	2	10	6	2	28	8	4	0	3	3	25	15	13	7	4	0	1	1	1	0	15	1	0
February	11.5	SW.	35	SW.	1	2	3	5	6	1	22	7	12	0	6	8	15	12	10	12	5	0	1	1	7	0	22	1	0
March	12.1	SW.	38	SW.	2	4	6	4	4	3	16	10	15	0	2	14	15	14	9	17	11	0	0	0	11	0	25	2	0
April	10.7	NW.	24	SW.	0	8	17	6	3	3	5	5	13	0	12	9	9	9	8	4	3	0	2	0	0	0	9	0	0
May	9.2	SW.	31	SW.	0	7	5	4	13	8	17	5	3	0	10	14	7	12	12	0	0	0	0	0	0	0	0	9	2
June	8.9	SW.	25	SW.	0	7	5	14	4	3	11	6	10	0	10	16	4	6	3	0	0	0	0	0	0	0	0	0	0
July	9.7	SW.	30	SW.	0	5	3	5	2	6	13	11	17	0	11	15	5	11	10	0	0	0	0	0	0	5	0	8	0
August	8.2	SW.	25	SW.	0	4	3	8	9	4	14	9	8	3	11	17	3	7	5	0	0	0	0	0	3	0	5	5	0
September	9.4	NW.	27	SW.	0	6	8	8	1	1	12	8	16	0	13	10	7	7	6	0	0	0	1	0	0	0	0	3	1
October	10.9	SW.	32	SW.	1	0	10	4	7	6	21	12	2	0	4	11	16	11	10	1	1	0	3	1	0	0	0	0	0
November	11.0	SW.	26	SW.	0	5	2	6	7	2	24	8	6	0	6	7	17	10	5	9	4	0	2	1	0	0	18	0	0
December	11.9	SW.	43	SW.	3	2	4	2	4	8	28	9	5	0	6	8	17	12	8	10	5	0	6	3	12	0	25	2	0
Year	10.5	SW.	43	SW.	10	52	68	76	66	47	211	98	111	3	94	132	140	126	99	59	33	0	16	7	31	8	114	35	3

Annual meteorological summaries for the year ending December 31, 1932—Continued

DEVILS LAKE, N.DAK.

[ϕ=48°07′ N.; λ=98°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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.39	29.12	27.29	5.3	11.3	9.2	16.5	−1.7	7.4	39	−28	4	7	7	92	82	89	0.056	0.063	0.061	0.35	0.22	4.6	5.4	5.5	4.0	6.2
February	28.33	28.95	27.61	4.9	14.5	14.3	21.1	−0.1	10.5	56	−21	3	11	12	91	85	88	.062	.082	.088	.40	.17	4.7	5.8	5.7	5.4	6.2
March	28.42	28.94	27.85	10.9	19.6	19.9	24.5	7.8	16.2	50	−17	8	13	14	87	73	78	.070	.084	.090	.72	.24	8.4	5.8	6.8	5.6	6.9
April	28.43	28.89	28.07	33.9	46.3	46.6	51.6	32.1	41.8	69	9	30	33	35	86	63	65	.174	.201	.211	2.58	.86	1.8	6.4	6.1	6.9	6.5
May	28.40	28.71	27.93	47.6	61.7	61.0	66.3	42.9	54.6	90	30	39	39	40	74	49	48	.248	.254	.260	2.24	1.11	6.0	5.0	6.1	5.5	5.9
June	28.29	28.61	27.82	61.2	74.4	72.1	78.5	56.6	67.6	85	50	56	58	60	85	57	60	.463	.483	.515	4.16	.98	.0	5.3	4.9	5.8	5.2
July	28.34	28.64	28.06	69.7	76.4	75.3	80.9	66.1	68.5	100	45	55	56	57	82	52	55	.439	.466	.479	3.87	1.01	.0	4.1	3.9	4.1	4.4
August	28.36	28.76	27.86	68.2	76.5	74.1	80.7	64.5	67.6	92	38	53	51	52	83	44	49	.409	.393	.409	1.23	.86	.0	3.8	3.7	4.1	4.4
September	28.44	28.86	27.83	45.5	66.1	61.7	69.6	43.0	56.3	89	31	38	39	39	74	40	45	.232	.248	.247	.68	.47	.0	4.0	4.8	3.2	4.4
October	28.39	28.80	27.90	31.4	41.4	38.7	44.6	28.8	36.7	74	17	28	30	30	88	68	73	.159	.170	.171	2.88	1.86	3.7	6.6	7.7	7.0	7.6
November	28.43	28.98	27.66	18.6	26.5	24.0	32.1	15.2	23.6	51	−10	16	20	21	89	77	87	.098	.119	.119	.77	.28	4.5	5.6	6.9	6.0	7.3
December	28.35	28.89	27.85	7.1	14.7	12.2	20.4	1.5	11.0	48	−20	5	9	9	92	76	85	.061	.072	.071	.14	.11	1.4	3.1	5.7	3.5	5.4
Year	28.38	29.12	27.29	32.1	44.1	42.4	48.9	28.1	38.5	100	−28	28	30	31	85	64	69	.206	.220	.226	20.02	1.86	35.1	5.1	5.6	5.1	5.9

DODGE CITY, KANS.

[ϕ=37°45′ N.; λ=100°00′ W.]

January	27.42	27.94	26.57	22.4	29.6	28.0	34.4	18.2	26.3	49	0	20	23	23	89	76	82	0.108	0.124	0.126	1.28	0.87	12.5	4.3	4.7	4.5	4.9
February	27.39	27.75	26.79	32.8	47.7	44.9	53.8	28.9	41.4	77	3	26	28	30	78	52	61	.149	.159	.172	.37	.16	1.6	4.7	5.4	4.9	5.2
March	27.39	27.93	26.83	27.5	42.0	43.0	48.5	24.8	36.6	78	4	22	23	24	78	51	51	.123	.132	.139	.91	.28	4.6	5.1	4.7	3.8	4.6
April	27.32	27.74	26.64	46.9	63.8	64.1	69.0	44.0	56.5	86	27	38	36	36	72	40	40	.241	.223	.232	1.08	.54	T	5.3	4.5	4.7	4.7
May	27.39	27.75	27.01	56.2	73.6	72.4	78.5	53.6	66.0	90	40	47	46	47	73	40	44	.334	.326	.336	1.20	.72	.0	4.1	3.0	2.7	3.2
June	27.33	27.54	27.01	64.5	79.4	78.7	84.3	61.7	73.0	96	54	60	60	58	84	53	54	.514	.508	.503	4.46	1.69	.0	5.3	4.0	4.6	4.2
July	27.37	27.58	27.00	72.1	90.8	90.1	95.5	69.9	82.7	104	64	62	60	58	72	38	37	.560	.528	.499	2.38	1.13	.0	3.2	1.9	2.1	2.0
August	27.38	27.59	27.10	68.7	87.2	85.1	92.0	66.7	79.4	100	53	60	58	59	76	39	43	.531	.489	.504	2.60	.73	.0	3.3	2.3	2.6	2.6
September	27.48	27.80	27.08	57.8	77.2	73.4	81.5	56.1	68.8	95	45	51	51	52	80	44	50	.386	.385	.391	2.35	1.21	.0	4.2	3.4	3.4	3.6
October	27.41	27.99	26.96	43.1	64.1	58.0	68.7	40.3	54.5	88	27	35	37	37	74	38	47	.219	.228	.233	.71	.46	T	3.2	1.8	3.3	2.1
November	27.52	27.98	27.09	31.2	50.5	44.3	55.5	28.0	41.8	73	10	22	24	25	68	37	48	.118	.132	.138	.15	.10	.5	2.7	2.8	2.7	2.8
December	27.45	27.91	26.93	19.2	36.1	30.8	39.9	16.0	28.0	71	−10	14	19	18	80	53	62	.083	.103	.102	.22	.15	1.1	3.4	3.3	4.1	3.5
Year	27.40	27.98	26.57	45.2	61.8	59.4	66.8	42.4	54.6	104	−10	38	39	39	77	47	52	.280	.278	.281	17.71	1.69	20.3	4.1	3.5	3.6	3.6

DUBUQUE, IOWA

[ϕ=42°30′ N.; λ=90°40′ W.]

January	29.29	30.00	28.67	24.5	28.9	27.9	33.1	19.9	26.5	46	−8	22	22	23	87	77	80	0.126	0.128	0.123	1.21	0.41	3.1	6.1	7.2	7.4	7.1
February	29.24	29.94	28.26	25.5	33.4	34.3	40.0	21.4	30.7	61	7	21	23	24	81	64	66	.126	.134	.140	.56	.33	.4	5.1	5.2	5.2	5.6
March	29.22	29.72	28.77	23.0	29.4	29.2	34.2	20.1	27.2	68	−2	18	18	20	80	62	68	.113	.112	.120	2.73	1.24	14.5	5.1	5.7	5.5	5.7
April	29.25	29.60	28.88	40.8	52.7	53.4	57.9	38.4	48.2	77	30	34	33	34	78	50	61	.202	.197	.209	1.81	.66	T	5.4	6.1	6.3	6.2
May	29.25	29.60	28.91	54.9	68.0	68.7	72.7	51.5	62.1	92	37	46	45	48	74	47	51	.325	.321	.351	3.02	1.75	.0	5.4	5.2	5.5	5.4
June	29.15	29.40	28.79	65.8	77.7	77.3	81.6	62.6	72.1	90	56	60	60	62	81	55	60	.522	.528	.556	4.09	1.92	.0	6.8	6.6	6.1	6.2
July	29.19	29.50	28.65	69.1	82.2	81.8	86.4	65.7	76.0	97	53	61	60	61	76	49	52	.552	.540	.554	2.15	.84	.0	4.4	4.6	3.3	4.2
August	29.23	29.51	28.94	65.6	77.8	76.5	81.6	63.0	72.3	91	52	61	58	60	86	53	59	.544	.502	.538	3.96	1.88	.0	5.7	6.4	4.7	5.8
September	29.36	29.70	28.97	53.4	69.5	66.7	73.0	50.8	61.9	86	38	48	46	48	82	44	53	.342	.318	.354	1.71	1.13	.0	3.6	2.7	3.1	3.2
October	29.22	29.56	28.76	43.2	54.0	51.7	57.4	40.3	48.8	80	31	38	39	40	82	60	68	.240	.255	.261	2.00	.58	.9	6.6	7.2	7.3	7.3
November	29.38	30.00	28.71	23.6	38.5	36.0	42.0	25.2	33.6	60	10	24	26	26	80	61	66	.134	.150	.143	1.03	.86	.8	5.8	6.0	5.3	6.2
December	29.32	29.93	28.43	19.5	27.1	25.4	31.2	15.8	23.5	55	−11	16	18	20	85	68	78	.105	.120	.123	1.70	.70	2.7	4.6	5.2	5.7	5.7
Year	29.26	30.00	28.26	42.8	53.3	52.4	57.6	39.6	48.6	97	−11	37	37	39	81	58	62	.277	.275	.290	25.97	1.92	22.4	5.4	5.7	5.4	5.7

DULUTH, MINN.

[ϕ=46°47′ N.; λ=92°06′ W.]

January	28.72	29.44	28.05	15.5	20.4	18.8	24.5	10.4	17.4	40	−23	12	15	16	85	78	84	0.081	0.091	0.092	1.31	0.48	14.5	7.3	7.4	7.3	7.6
February	28.68	29.39	27.58	8.8	19.0	16.8	23.8	3.1	13.4	53	−16	4	10	12	80	68	78	.069	.082	.083	.48	.30	6.9	5.2	6.6	4.2	6.2
March	28.70	29.15	28.14	11.2	22.4	21.0	26.5	8.0	17.2	41	−15	8	12	11	86	64	64	.073	.083	.106	.86	.20	8.3	5.7	5.5	4.7	5.5
April	28.82	29.07	28.34	33.2	42.1	38.8	46.1	29.3	37.7	66	15	26	29	26	75	62	62	.143	.160	.141	3.09	1.40	11.3	5.9	5.9	5.9	5.5
May	28.76	29.11	28.29	47.6	57.0	53.1	62.0	41.4	51.7	91	32	39	41	40	74	61	64	.246	.270	.254	3.00	1.08	2.0	5.9	6.4	6.0	6.3
June	28.70	28.99	28.18	55.9	64.3	62.0	69.7	50.4	60.0	84	43	50	51	51	81	66	69	.366	.384	.379	1.72	.88	.9	5.4	5.9	5.1	6.2
July	28.70	29.02	28.19	61.1	72.2	69.1	76.8	55.7	65.2	97	47	55	56	56	82	60	64	.443	.463	.458	1.84	.31	.0	4.8	4.5	4.2	4.9
August	28.72	29.05	28.30	61.3	73.8	68.7	77.3	57.8	67.6	92	46	57	58	57	85	60	68	.470	.488	.476	4.18	1.08	.0	5.0	5.1	4.9	5.0
September	28.82	29.22	28.31	49.8	64.4	57.7	67.2	46.2	56.7	83	36	44	46	46	80	53	57	.294	.322	.321	.68	.53	.0	2.8	4.3	3.4	3.9
October	28.72	29.09	28.09	36.5	45.4	41.2	48.9	33.8	41.4	73	24	32	34	33	84	68	78	.185	.205	.195	1.66	.42	2.1	7.3	6.8	6.3	7.5
November	28.80	29.47	28.14	23.2	29.8	26.7	34.2	17.2	25.7	62	−10	20	23	21	87	76	80	.121	.135	.126	3.10	1.93	2.0	6.9	6.0	4.9	6.4
December	28.72	29.27	28.11	9.1	15.5	13.2	21.3	2.8	12.0	45	−23	7	11	10	89	83	85	.076	.081	.078	.71	.21	7.5	5.7	6.2	4.6	5.8
Year	28.74	29.47	27.58	34.4	43.9	40.6	48.2	29.7	38.9	97	−23	30	32	32	82	66	72	.214	.230	.226	22.63	1.93	54.6	5.7	5.9	5.1	5.9

Annual meteorological summaries for the year ending December 31, 1932—Continued

DEVILS LAKE, N.DAK.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	9.7	NW.	31	N.	0	4	6	4	6	9	7	12	14	0	9	9	13	6	3	16	6	0	4	0	28	0	31	0	1
February	10.8	NW.	32	NW.	1	6	3	2	10	6	7	12	12	0	7	10	12	6	2	14	6	0	2	2	22	0	25	0	2
March	11.4	NW.	30	NW.	0	14	2	3	8	4	4	7	15	2	3	14	14	12	4	23	10	0	1	1	20	0	31	0	6
April	11.5	E.	28	N.	0	9	8	15	18	4	1	1	4	0	6	11	13	13	6	5	2	0	5	2	3	0	13	3	6
May	10.7	NE.	32	NE.	1	4	14	6	8	7	7	7	8	1	10	11	10	8	5	2	1	0	1	1	0	0	2	1	4
June	8.5	SE.	39	NW.	1	4	3	6	15	5	9	8	10	0	10	10	10	13	12	0	0	0	1	1	0	0	0	0	4
July	8.2	SE.	26	N.	0	7	9	5	14	6	5	5	10	1	14	10	7	11	11	0	0	0	1	1	0	0	0	0	11
August	7.9	SE.	26	NW.	0	9	6	9	13	4	6	6	6	3	15	10	6	10	5	0	0	0	2	2	0	0	0	0	8
September	8.6	NW.	25	NW.	0	5	0	2	10	7	12	10	13	1	13	8	9	4	3	0	0	0	0	2	3	0	2	0	6
October	10.3	NW.	29	NW.	0	12	5	2	7	3	11	8	14	0	4	8	19	12	7	11	7	0	1	1	4	0	22	0	4
November	10.9	NW.	35	NW.	2	4	1	4	10	7	9	11	14	0	4	10	16	8	4	15	7	0	1	1	13	0	28	0	1
December	9.8	W.	23	NW.	0	4	0	0	4	10	13	18	12	1	8	14	9	4	1	20	4	0	0	0	25	0	30	0	1
Year	9.9	NW.	39	NW.	5	82	57	58	123	72	91	105	135	9	103	125	138	107	63	100	43	4	20	13	115	8	183	29	32

DODGE CITY, KANS.

[H_b=2,609 ft.; h_t=10 ft.; h_r=3 ft.; h_a=86 ft.]

January	11.4	NW.	35	NE.	1	7	14	4	2	10	8	7	10	0	13	8	10	8	4	12	6	0	12	4	11	0	31	0	0
February	11.6	SW.	33	NW.	1	8	9	3	8	9	8	3	10	0	11	8	10	6	2	4	2	0	9	3	3	0	19	0	0
March	12.9	NW.	43	N.	5	5	14	3	4	5	7	3	21	0	15	8	8	10	6	10	7	0	4	0	7	0	19	0	0
April	14.0	NW.	38	NW.	10	6	6	2	12	12	4	5	13	0	11	12	7	6	3	1	0	0	1	4	0	0	1	2	0
May	13.2	S.	44	S.	6	2	10	4	15	21	3	2	5	0	17	11	3	7	6	0	0	0	2	0	0	0	0	7	0
June	10.9	S.	34	NW.	3	7	11	4	15	10	1	7	5	0	14	13	3	15	12	0	0	0	5	1	0	0	4	0	0
July	12.0	S.	32	SE.	2	1	1	4	13	31	8	2	2	0	23	7	1	4	4	0	0	0	2	4	1	0	0	16	0
August	12.5	S.	33	NW.	1	1	12	4	16	25	3	0	1	0	23	5	3	7	5	0	0	0	0	1	0	0	0	28	0
September	10.8	S.	32	SW.	1	6	13	5	5	21	5	4	1	0	16	7	7	7	4	0	0	0	2	3	0	0	0	21	0
October	12.2	SW.	32	NE.	2	8	10	2	4	11	14	5	8	0	24	6	1	4	2	1	0	0	2	0	0	0	0	7	0
November	12.0	S.	31	NE.	0	14	5	2	4	17	6	4	8	0	20	6	4	3	2	3	2	0	0	0	0	0	2	8	0
December	10.6	NW.	31	NE.	0	11	8	5	6	6	6	9	11	0	20	5	6	5	1	6	4	0	1	0	2	0	2	3	0
Year	12.0	S.	44	S.	32	76	113	42	104	178	73	51	95	0	207	96	63	82	51	37	21	12	41	7	32	60	127	48	0

DUBUQUE, IOWA

[H_b=700 ft.; h_t=81 ft.; h_r=76 ft.; h_a=96 ft.]

January	7.1	NW.	20	S.	0	2	5	2	8	10	12	4	18	1	7	4	20	8	6	11	3	0	5	3	14	0	29	0	0
February	7.7	NW.	24	NW.	0	4	3	1	8	11	8	1	20	2	11	7	11	4	4	6	1	0	2	0	9	0	25	0	0
March	8.5	NW.	22	S.	0	4	11	1	8	3	4	2	29	0	12	6	13	11	8	13	8	0	2	0	12	0	27	1	0
April	7.7	SE.	24	NW.	0	7	12	5	16	1	3	1	13	2	8	8	14	8	6	1	0	0	2	2	1	0	0	1	0
May	7.1	S.	21	N.	0	5	7	2	8	19	7	0	14	0	13	7	11	10	8	0	0	0	2	0	0	0	1	5	2
June	5.6	SE.	28	NW.	0	4	8	2	14	8	10	3	11	0	7	8	15	13	9	0	0	1	3	1	0	0	1	0	0
July	6.6	S.	20	NW.	0	3	2	0	6	15	15	1	20	0	13	12	6	5	5	0	0	0	1	0	0	0	0	12	0
August	6.2	S.	26	N.	0	8	3	0	13	16	9	0	13	0	8	10	13	12	9	0	0	1	6	5	0	0	2	0	5
September	5.7	NW.	17	SW.	0	12	3	0	7	12	5	2	15	4	18	5	7	4	2	0	0	0	7	5	0	0	4	0	2
October	7.2	NW.	24	NW.	0	10	5	3	9	8	9	2	15	1	7	2	22	9	6	1	1	0	5	2	0	0	4	0	1
November	7.5	S.	19	N.	0	7	2	0	11	19	6	1	12	2	8	6	16	5	4	4	2	0	3	2	5	0	23	0	0
December	7.5	S.	23	N.	0	5	4	0	4	21	10	2	16	0	11	5	15	6	5	7	2	0	4	1	13	0	26	1	0
Year	7.0	NW.	28	NW.	0	71	65	16	112	143	98	19	196	12	123	80	163	95	72	43	17	4	41	20	53	16	138	36	3

DULUTH, MINN.

[H_b=1,133 ft.; h_t=5 ft.; h_r=3 ft.; h_a=47 ft.]

January	13.2	SW.	43	NW.	3	1	5	4	2	4	13	15	18	0	6	4	21	11	9	20	11	0	3	1	27	0	30	0	0
February	12.7	W.	39	W.	6	0	6	1	4	3	9	19	16	0	8	8	13	5	2	11	5	0	5	3	20	0	27	0	0
March	11.8	NW.	49	NW.	7	3	4	2	2	2	9	16	24	0	12	6	13	11	8	16	11	0	4	0	21	0	31	0	4
April	12.4	NE.	40	NW.	3	8	35	2	0	0	1	2	12	0	9	11	10	7	8	7	4	0	6	4	3	0	21	1	2
May	13.4	NE.	39	NW.	3	4	32	1	1	1	7	13	3	0	8	8	15	12	9	2	1	0	5	2	0	0	1	4	2
June	9.9	NE.	32	W.	1	4	30	4	2	0	1	11	6	2	6	12	12	7	4	0	0	0	2	2	0	0	0	4	3
July	9.8	NE.	38	W.	3	2	20	3	0	1	7	12	15	2	8	15	8	10	10	10	0	0	3	3	0	0	1	5	0
August	10.4	NE.	43	NW.	1	2	17	1	1	2	8	13	15	3	13	8	10	10	10	0	0	0	3	3	0	0	1	7	1
September	11.9	W.	32	NW.	1	1	11	2	0	4	7	26	9	0	15	9	6	5	2	0	0	0	1	1	0	0	0	2	2
October	12.2	W.	35	NW.	3	4	15	2	1	0	9	19	12	0	6	2	23	11	7	5	4	0	5	6	1	0	13	2	2
November	13.5	SW.	44	NW.	5	0	6	1	6	5	15	13	14	0	9	5	16	10	7	11	5	0	5	2	11	0	24	0	2
December	13.1	W.	38	NW.	4	1	3	0	0	4	14	29	11	0	9	9	13	10	6	15	10	0	2	0	24	0	30	0	0
Year	12.0	NE.	49	NW.	40	30	184	23	19	26	100	188	155	7	109	97	160	109	79	87	51	0	47	37	107	3	177	25	18

Annual meteorological summaries for the year ending December 31, 1932—Continued

EASTPORT, MAINE

[ϕ=44°54′ N.; λ=66°59′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.98	30.64	28.98	29.0	31.5	31.3	37.5	22.8	30.2	58	7	23	24	25	78	73	76	0.135	0.142	0.147	4.16	0.95	11.1	7.9	7.8	7.7	7.8
February	29.85	30.38	29.17	16.8	21.2	21.7	27.2	12.3	19.8	44	−2	10	12	14	73	66	72	.080	.085	.096	2.46	.53	19.5	7.2	5.8	5.6	6.0
March	29.54	30.30	28.64	25.1	30.2	29.7	34.6	21.7	28.2	48	4	18	18	21	71	61	70	.106	.108	.124	2.67	.95	14.6	6.5	6.8	6.9	7.0
April	29.76	30.19	28.93	38.2	43.1	40.0	46.5	32.7	39.6	70	25	31	32	34	75	67	80	.173	.181	.199	2.49	1.14	3.9	6.8	6.5	5.9	7.0
May	29.90	30.30	29.65	47.3	51.7	48.2	56.6	40.1	48.4	79	32	39	38	41	74	64	77	.242	.240	.260	2.53	1.09	.0	5.5	6.6	5.4	6.6
June	29.76	30.25	29.35	54.7	59.5	54.8	64.3	46.1	55.2	81	40	48	47	47	80	67	78	.343	.333	.330	1.56	.35	.0	5.5	7.3	5.8	7.4
July	29.69	29.93	29.09	59.7	63.6	58.7	67.7	51.6	59.6	79	48	54	54	53	83	74	84	.422	.424	.410	3.64	1.23	.0	4.9	6.6	5.4	7.3
August	29.89	30.22	29.52	60.9	66.1	59.9	69.4	54.0	61.7	79	48	57	59	56	88	79	88	.469	.502	.450	2.69	1.11	.0	5.5	6.0	5.1	6.9
September	29.95	30.34	29.20	56.8	61.3	57.0	64.5	50.5	57.5	78	40	50	49	50	89	66	78	.380	.361	.369	2.08	1.30	.0	6.4	6.1	4.7	6.6
October	29.93	30.46	29.25	48.9	52.4	49.6	56.2	43.7	49.4	66	30	44	42	44	83	71	81	.305	.295	.301	3.61	1.73	.0	6.5	6.3	6.7	6.9
November	30.10	30.75	29.38	36.4	39.9	37.1	44.4	29.7	37.0	56	4	31	31	31	79	71	76	.184	.189	.185	1.65	.60	T	7.9	7.5	6.2	7.7
December	30.00	30.52	29.05	29.3	33.4	31.4	38.1	23.4	30.8	56	−4	24	24	26	80	69	80	.146	.147	.153	2.21	.76	6.8	5.6	6.2	6.1	6.4
Year	29.86	30.75	28.64	41.9	46.2	43.3	50.5	35.7	43.1	81	−4	36	36	37	79	69	78	.249	.251	.252	31.75	1.73	55.9	6.3	6.6	6.0	7.0

ELKINS, W.VA.

[ϕ=38°53′ N.; λ=79°49′ W.]

January	28.08	28.49	27.41	38.2	44.4	42.6	51.3	33.0	42.2	72	16	32	34	35	82	70	75	0.199	0.211	0.222	3.95	1.12	0.1	7.5	7.4	6.2	7.4
February	27.98	28.54	27.51	36.3	44.5	40.6	49.7	28.9	39.3	77	14	29	29	29	75	58	64	.178	.179	.173	4.81	2.75	T	7.4	6.0	5.3	7.1
March	27.84	28.25	27.22	29.6	36.7	34.9	43.4	23.9	33.6	69	5	25	25	24	83	63	67	.149	.146	.141	7.06	1.91	12.9	8.5	6.7	7.6	8.0
April	27.94	28.34	27.53	42.2	55.4	51.6	60.2	35.3	47.8	76	22	34	32	34	73	45	56	.203	.193	.205	2.58	1.14	1.4	6.3	6.1	5.8	6.1
May	28.04	28.32	27.75	53.6	66.3	62.7	70.8	46.0	58.4	84	29	46	43	45	77	47	56	.318	.292	.316	3.52	.75	.0	5.6	5.9	4.8	5.9
June	27.96	28.21	27.69	61.9	74.0	69.5	78.8	54.3	66.6	86	37	56	55	57	83	54	68	.468	.452	.491	3.26	1.36	.0	6.1	6.4	5.1	6.3
July	27.98	28.24	27.50	64.6	75.6	71.5	80.3	58.7	69.5	89	48	60	58	62	86	58	72	.533	.499	.501	7.88	2.01	.0	5.5	4.9	5.5	6.0
August	28.05	28.31	27.81	60.2	77.0	69.5	81.2	55.8	68.5	92	48	58	57	63	94	51	79	.494	.474	.575	5.01	2.42	.0	3.8	4.0	4.0	5.0
September	28.10	28.35	27.85	53.7	71.5	62.8	75.6	48.8	62.2	94	33	51	51	54	93	51	73	.395	.397	.430	1.66	1.15	.0	4.1	4.6	3.8	5.6
October	28.02	28.33	27.66	44.4	58.8	51.8	64.1	39.7	51.9	78	27	41	43	45	88	57	78	.268	.289	.309	3.87	1.69	1.0	6.9	6.0	4.8	6.7
November	28.13	28.63	27.58	32.0	45.4	38.6	51.9	26.9	39.4	72	9	28	31	30	86	59	72	.164	.185	.182	2.81	1.05	.7	5.5	5.8	4.7	6.0
December	28.10	28.51	27.51	31.0	41.7	36.7	48.4	24.4	36.4	66	0	26	29	28	83	64	73	.158	.179	.167	2.54	.74	6.9	6.9	6.8	5.6	7.3
Year	28.02	28.63	27.22	45.6	57.6	52.7	63.0	39.6	51.3	94	0	40	41	42	84	57	69	.294	.291	.314	49.15	2.75	23.0	6.2	5.9	5.3	6.4

ELLENDALE, N.DAK.

[ϕ=45°59′ N.; λ=98°34′ W.]

January	28.42	29.13	27.52	6.6	12.1	----	17.1	−1.0	8.0	34	−23	4	8	---	88	84	---	0.057	0.068	----	0.28	0.15	8.4	6.5	6.9	----	6.9
February	28.37	29.00	27.67	11.4	18.6	----	23.4	4.0	13.7	56	−19	8	14	---	83	80	---	.073	.092	----	.11	.03	2.8	6.0	7.0	----	6.9
March	28.44	28.91	27.80	15.0	23.6	----	28.8	11.8	20.3	55	−14	12	16	---	85	69	---	.087	.100	----	.25	.07	4.2	6.0	7.5	----	7.0
April	28.41	28.88	27.98	37.1	50.4	----	55.6	34.7	45.2	78	19	35	35	---	90	59	---	.207	.217	----	4.47	3.53	.6	6.8	7.1	----	7.4
May	28.40	28.76	27.92	49.3	62.9	----	67.6	44.1	55.8	90	32	44	46	---	82	58	---	.293	.325	----	2.49	.75	1.3	5.1	6.5	----	5.9
June	28.32	28.60	27.94	62.0	74.2	----	77.5	56.4	67.0	90	49	58	60	---	88	62	---	.493	.520	----	4.67	1.54	.0	5.3	4.7	----	5.0
July	28.36	28.64	28.04	63.0	79.7	----	84.2	57.0	70.6	101	46	57	58	---	82	50	---	.477	.499	----	1.93	.83	.0	3.3	4.2	----	4.4
August	28.36	28.76	27.85	59.4	77.8	----	82.5	55.6	69.0	94	38	54	55	---	83	48	---	.429	.452	----	3.65	1.61	.0	4.2	4.9	----	4.8
September	28.48	28.90	27.82	46.7	67.3	----	72.0	42.5	57.2	90	32	41	42	---	81	42	---	.265	.278	----	.70	.45	.0	4.1	4.6	----	4.4
October	28.38	28.77	27.96	35.2	47.0	----	52.0	30.9	41.4	80	15	31	32	---	85	59	---	.175	.186	----	.78	.43	4.1	6.8	6.3	----	6.5
November	28.46	28.94	27.90	21.6	33.5	----	39.9	16.1	28.0	62	−7	18	20	---	84	58	---	.102	.110	----	.15	.06	1.9	6.1	6.3	----	6.6
December	28.42	29.01	27.83	8.4	18.9	----	24.1	.7	12.4	67	−28	5	10	---	84	67	---	.061	.076	----	.11	.07	2.3	4.6	6.0	----	5.8
Year	28.40	29.13	27.52	34.6	47.2	----	52.1	29.4	40.7	101	−28	31	33	---	85	61	---	.227	.244	----	19.59	3.53	25.6	5.4	6.0	----	6.0

EL PASO, TEX.

[ϕ=31°47′ N.; λ=106°30′ W.]

January	26.19	26.57	25.87	33.6	47.5	49.6	54.7	30.9	42.8	70	20	20	20	23	57	35	37	0.112	0.113	0.128	0.17	0.11	0.3	3.3	3.6	2.5	3.5
February	26.18	26.54	25.89	44.4	58.8	60.7	64.9	41.6	53.2	77	24	30	27	30	59	34	35	.174	.162	.178	.68	.38	.0	3.7	5.2	5.0	4.9
March	26.15	26.56	25.63	42.0	58.5	62.1	65.5	39.0	52.2	79	21	25	25	23	53	30	25	.136	.133	.124	.03	.02	T	1.8	2.5	2.1	2.5
April	26.11	26.44	25.73	52.9	72.3	75.7	79.0	51.2	65.1	87	38	22	20	20	30	15	14	.118	.110	.109	T	T	.0	1.5	2.0	2.5	2.1
May	26.12	26.35	25.88	61.5	80.2	83.9	86.5	59.8	73.2	94	47	37	34	29	44	21	15	.239	.206	.168	1.46	1.46	.0	1.4	1.5	2.2	2.1
June	26.06	26.28	25.87	69.1	87.6	92.3	94.7	67.2	81.0	104	57	36	35	32	35	18	14	.254	.230	.203	.15	.13	.0	1.6	1.0	2.1	1.7
July	26.15	26.38	25.86	73.2	88.3	88.8	94.6	71.3	83.0	105	67	58	54	54	60	32	33	.484	.416	.423	2.28	1.08	.0	3.9	2.4	4.8	3.9
August	26.14	26.34	25.96	71.3	85.6	86.8	91.6	70.0	80.8	101	62	59	56	55	66	38	37	.500	.446	.438	2.14	1.35	.0	3.3	2.8	3.9	3.5
September	26.20	26.36	25.97	64.0	79.7	80.1	85.4	62.4	73.9	98	49	50	47	46	64	35	36	.370	.328	.320	2.85	2.07	.0	2.5	2.0	3.0	2.9
October	26.20	26.51	25.90	53.4	68.3	68.3	74.2	51.0	62.6	84	36	44	40	43	71	40	44	.296	.268	.294	.53	.41	.0	2.8	2.4	2.1	2.9
November	26.30	26.58	26.00	41.8	61.3	61.4	67.0	39.3	53.2	77	31	25	25	29	50	25	31	.132	.135	.166	.00	.00	.0	.7	.8	1.1	1.6
December	26.20	26.70	25.86	34.7	48.5	48.5	53.8	32.5	43.2	67	22	24	26	28	66	44	47	.131	.146	.156	.65	.33	.1	2.5	2.6	2.2	3.0
Year	26.17	26.70	25.63	53.5	69.7	71.5	76.0	61.4	63.7	105	20	36	34	34	55	31	31	.246	.224	.226	10.94	2.07	.4	2.4	2.4	2.6	2.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

EASTPORT, MAINE

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Snow: Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature: 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	12.9	SW.	35	NE.	3	8	8	0	5	7	12	10	12	0	5	4	22	18	16	18	12	0	17	1	9	0	26	0	0
February	13.6	NW.	32	NW.	1	8	5	5	4	2	2	3	29	0	11	3	15	15	10	16	11	0	15	5	22	0	28	0	0
March	15.0	W.	42	NE.	6	9	4	4	0	5	7	14	18	1	6	5	20	14	12	15	11	0	14	0	12	0	28	0	1
April	12.7	NW.	40	E.	3	8	7	5	1	10	4	9	16	0	5	8	17	11	8	6	3	0	13	2	0	0	15	0	0
May	9.3	S.	25	SW.	0	4	5	2	4	12	14	4	17	0	8	5	18	12	8	0	0	1	16	5	0	0	0	1	1
June	9.0	S.	27	SW.	0	4	5	4	1	15	18	6	7	0	2	12	16	11	7	0	0	3	17	11	0	0	0	2	0
July	8.5	S.	27	E.	0	9	3	2	0	24	10	8	15	0	4	9	18	16	9	0	0	0	16	12	0	0	0	7	1
August	8.2	S.	29	SE.	0	3	2	0	4	30	7	7	6	3	5	9	17	11	7	0	0	0	22	15	0	0	0	3	1
September	10.9	S.	33	SE.	2	11	3	4	3	13	10	4	12	0	8	7	15	9	7	0	0	0	9	7	0	0	0	0	5
October	12.2	S.	32	E.	1	3	2	6	1	19	13	8	9	1	7	6	18	11	5	0	0	0	19	8	0	0	1	0	2
November	13.5	SW.	38	SE.	2	7	9	2	6	4	12	6	14	0	3	7	20	11	8	2	0	0	15	2	2	0	16	0	1
December	11.3	NW.	31	SE.	0	5	5	1	1	3	17	12	18	0	9	6	16	17	11	14	7	0	19	3	8	0	25	0	0
Year	11.4	S.	42	NE.	18	70	58	35	30	144	126	91	173	5	73	81	212	156	108	71	44	4	192	71	53	0	139	13	12

ELKINS, W.VA.

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

January	7.6	W.	40	W.	1	2	0	3	4	15	6	17	12	3	5	5	21	17	15	4	3	0	5	2	2	0	17	0	0
February	7.5	W.	31	W.	0	7	1	0	1	7	9	18	14	1	4	9	16	12	11	6	0	0	4	0	0	0	21	2	0
March	8.3	W.	29	W.	0	8	1	1	3	6	5	21	16	1	2	7	22	15	13	16	6	0	5	0	0	0	23	0	0
April	7.3	NW.	24	W.	0	13	2	2	2	9	6	10	15	1	8	10	12	10	8	3	2	0	2	0	0	0	14	2	0
May	5.2	NW.	21	NW.	0	10	1	2	4	9	3	11	20	2	10	8	13	12	11	0	0	0	2	2	0	0	1	5	0
June	4.9	NW.	30	SW.	0	5	1	1	2	15	10	8	17	1	4	15	11	12	10	0	0	0	8	0	0	0	0	5	0
July	5.4	W.	25	NW.	0	5	0	1	1	9	9	16	14	7	7	15	9	14	14	0	0	0	10	7	0	0	0	11	0
August	3.8	NW.	18	W.	0	9	1	0	2	0	10	3	21	7	13	10	8	7	6	0	0	0	22	15	0	1	0	4	0
September	4.2	NW.	18	NW.	0	11	3	3	10	5	2	7	15	4	9	14	7	7	6	0	0	0	18	14	0	2	0	2	0
October	5.9	W.	37	SE.	1	6	6	2	4	8	3	16	10	8	6	10	15	13	12	3	2	0	11	3	0	0	6	0	0
November	5.4	W.	20	W.	0	8	6	2	6	7	5	12	10	4	11	4	15	10	9	5	4	0	9	7	2	0	22	0	0
December	5.7	W.	26	SW.	0	9	12	2	4	6	8	12	9	0	4	9	18	15	11	8	5	0	7	2	5	0	22	0	0
Year	5.9	W.	40	W.	2	93	34	19	43	105	76	150	173	39	83	116	167	144	126	45	22	0	103	52	18	3	126	31	0

ELLENDALE, N.DAK.

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

January	13.3	NW.	38	N.	4	3	4	1	0	4	5	2	12	0	8	4	19	8	3	21	8	0	8	1	29	0	31	0	0
February	13.3	NW.	45	NW.	2	1	4	1	3	3	0	4	13	0	5	10	14	7	0	15	7	0	4	2	23	0	26	0	1
March	14.7	NW.	44	NW.	7	4	4	1	4	4	4	1	9	0	3	14	14	11	2	24	10	0	2	1	16	0	31	0	1
April	15.4	SE.	38	SE.	4	4	7	4	5	3	0	1	6	0	6	5	19	13	8	4	3	1	3	3	0	0	13	4	0
May	13.9	NE.	41	SW.	4	1	8	0	4	6	1	2	9	0	7	12	12	12	8	2	2	0	0	0	0	1	0	7	0
June	10.5	SE.	46	S.	4	1	4	3	4	4	5	3	6	0	11	10	9	8	8	0	0	0	0	0	0	11	0	8	3
July	11.3	NW.	32	S.	1	2	3	1	5	5	6	4	0	13	13	5	9	6	0	0	0	1	1	1	0	0	1	1	3
August	11.3	SE.	45	NW.	2	3	4	3	7	3	1	3	7	0	13	11	7	11	5	0	0	1	3	2	0	0	1	1	3
September	11.7	NW.	31	NW.	0	1	1	0	3	4	6	4	11	0	13	10	7	4	3	0	0	0	1	1	0	0	1	1	3
October	13.1	NW.	44	NW.	5	5	3	2	3	1	3	3	11	0	7	10	14	7	4	8	2	0	3	1	2	0	19	1	2
November	15.1	NW.	38	NW.	8	1	0	2	1	8	3	3	12	0	6	8	16	4	2	8	4	0	0	0	8	0	29	0	0
December	12.1	NW.	38	NW.	1	2	0	0	0	6	10	2	11	0	9	11	11	5	1	13	5	0	1	1	20	0	31	0	0
Year	13.0	NW.	46	S.	42	28	42	18	39	51	43	34	111	0	101	118	147	99	50	95	41	3	25	12	98	18	181	37	11

EL PASO, TEX.

[H_b=3,778 ft.; h_t=152 ft.; h_r=145 ft.; h_a=175 ft.]

January	10.5	NW.	39	W.	4	0	5	11	0	2	2	16	26	0	18	6	7	2	2	2	1	1	0	0	0	0	19	0	0
February	9.6	W.	39	W.	5	1	10	5	2	3	2	16	17	2	12	4	13	6	5	0	0	1	0	0	0	0	2	0	0
March	12.8	W.	57	SW.	6	0	3	9	3	1	2	25	18	1	19	10	2	2	0	4	0	2	0	0	0	0	7	0	0
April	10.8	NW.	42	NW.	3	2	5	10	1	1	4	19	18	0	20	9	1	0	0	0	0	0	0	0	0	0	0	0	0
May	10.3	E.	41	NE.	5	2	7	14	3	3	6	15	12	0	22	7	2	1	1	0	0	0	0	0	0	0	10	0	0
June	9.6	E.	35	NE.	4	1	6	16	2	0	2	17	16	0	26	1	3	3	1	0	0	0	0	0	0	0	22	0	0
July	9.0	E.	34	NE.	3	3	10	21	9	1	0	11	6	1	14	12	5	9	5	0	0	1	0	0	0	0	26	0	0
August	8.5	E.	41	NE.	1	0	4	22	8	5	2	10	10	1	17	8	6	10	8	0	0	0	0	0	0	0	24	0	0
September	8.8	E.	34	SW.	1	2	6	30	5	3	2	4	6	2	19	6	5	4	4	0	0	0	0	0	0	0	10	0	0
October	9.4	E.	43	W.	2	1	7	21	5	2	1	11	13	1	20	6	5	7	4	0	0	0	1	0	0	0	0	0	0
November	8.0	E.	38	NE.	3	1	13	15	2	1	1	8	18	1	28	1	1	0	0	0	0	0	1	0	0	0	2	0	0
December	8.7	NW.	35	SW.	4	4	10	6	0	3	1	16	22	0	19	7	5	5	3	4	1	0	1	0	0	0	14	1	0
Year	9.7	E.	57	SW.	41	17	86	180	40	25	25	168	182	9	234	77	55	49	34	10	2	5	2	0	0	92	44	33	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

ERIE, PA.

[ϕ=42°07′ N.; λ=80°05′ 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.29	29.80	28.68	38.6	40.5	39.6	45.1	34.0	39.6	65	14	32	33	33	78	76	77	0.192	0.199	0.193	4.37	1.16	0.8	8.5	8.2	7.7	8.4
February	29.20	29.89	28.57	32.3	35.7	34.7	40.9	27.2	34.0	72	16	26	28	26	76	72	71	.153	.159	.153	1.16	.32	3.0	7.9	6.5	7.2	7.0
March	29.10	29.56	28.19	28.4	31.4	30.4	36.4	24.2	30.3	68	5	22	24	24	76	73	76	.122	.132	.133	3.41	.97	19.9	7.6	8.3	8.0	8.1
April	29.20	29.75	28.72	39.8	42.3	43.3	50.4	35.2	42.8	71	25	31	34	34	72	70	71	.176	.199	.205	2.24	.56	5.3	6.6	5.4	5.0	5.7
May	29.28	29.70	28.95	54.9	60.9	58.0	65.6	47.3	56.4	86	35	45	47	46	71	64	66	.315	.347	.324	3.49	2.12	.0	5.1	4.8	4.6	5.1
June	29.16	29.46	28.84	66.0	69.7	69.0	74.8	59.6	67.2	86	46	56	59	59	72	70	72	.473	.518	.519	1.20	.39	.0	4.2	4.4	4.8	4.4
July	29.14	29.45	28.57	68.6	72.8	72.0	77.0	63.0	70.0	86	53	59	62	62	73	70	72	.509	.564	.564	2.25	.53	.0	5.3	5.2	3.3	4.7
August	29.24	29.55	28.90	69.0	75.5	73.0	79.0	62.9	71.0	89	52	60	62	62	73	64	68	.521	.573	.559	2.18	.77	.0	3.4	3.4	2.7	3.4
September	29.31	29.63	28.90	62.2	69.2	66.2	72.6	58.2	65.4	89	43	54	57	56	74	67	74	.429	.482	.483	2.29	.65	.0	4.5	3.7	3.3	4.5
October	29.21	29.57	28.70	51.6	58.8	54.5	62.0	47.6	54.8	78	36	43	48	46	73	68	75	.288	.343	.325	2.69	1.12	T	6.7	6.3	6.3	6.8
November	29.40	30.06	28.77	36.6	41.3	39.2	45.9	32.5	39.2	61	19	28	32	32	71	69	74	.166	.191	.183	3.13	.70	3.3	7.4	6.3	6.1	6.8
December	29.33	29.82	28.69	31.8	36.0	34.0	40.4	26.5	33.4	64	10	24	27	26	73	70	73	.142	.164	.154	3.33	1.86	3.3	7.9	7.3	7.1	7.9
Year	29.24	30.06	28.19	48.3	53.0	51.2	57.5	43.2	50.3	89	5	40	43	42	74	69	72	.290	.322	.316	31.77	2.12	35.6	6.3	5.8	5.5	6.1

ESCANABA, MICH.

[ϕ=45°48′ N.; λ=87°05′ W.]

January	29.32	30.01	28.55	24.5	27.9	27.7	32.0	20.2	26.1	43	−9	21	23	23	86	80	82	0.121	0.128	0.132	2.93	0.63	19.9	8.4	7.7	7.3	7.5
February	29.27	30.01	28.08	17.3	24.5	23.4	29.8	11.9	20.8	45	−6	14	17	17	85	71	77	.092	.103	.104	1.38	.45	12.9	5.4	7.1	6.1	6.1
March	29.25	29.68	28.66	18.4	26.3	23.8	29.0	15.0	22.0	48	−2	15	17	18	85	66	75	.091	.100	.099	1.33	.53	9.0	7.0	8.3	5.4	7.0
April	29.40	29.83	28.92	33.2	42.1	39.1	46.0	29.7	37.8	68	14	26	26	26	71	54	62	.138	.141	.145	2.89	2.10	4.8	5.0	5.7	5.2	5.4
May	29.36	29.79	28.90	47.5	52.5	51.1	56.5	42.1	49.3	75	32	40	42	41	77	69	70	.255	.273	.265	2.60	1.23	T	6.3	7.5	5.1	6.5
June	29.26	29.58	28.66	59.1	66.8	67.1	71.8	54.3	63.0	81	43	52	55	54	79	68	65	.399	.442	.427	2.04	.94	.0	2.8	5.1	4.6	4.9
July	29.24	29.57	28.65	64.0	71.5	70.0	76.7	56.8	66.8	93	47	56	56	56	75	60	62	.454	.462	.459	5.87	2.93	.0	4.5	5.0	4.2	5.2
August	29.30	29.69	29.00	62.9	72.1	69.2	75.6	57.7	66.6	86	48	57	59	59	81	65	72	.474	.513	.508	4.21	1.59	.0	3.9	5.0	3.9	5.0
September	29.41	29.73	28.98	52.5	64.8	60.2	67.3	48.1	57.7	81	38	47	47	50	82	54	69	.338	.337	.374	1.34	.93	.0	2.8	4.4	2.6	3.8
October	29.28	29.71	28.66	41.1	48.8	45.7	52.2	37.6	44.9	79	29	36	37	38	82	66	76	.218	.232	.241	1.75	.35	T	7.4	8.4	8.0	7.9
November	29.44	30.10	28.75	28.2	33.7	32.5	36.7	23.6	30.2	55	7	23	25	26	78	69	76	.131	.140	.152	2.52	1.06	5.5	8.1	6.5	6.2	7.3
December	29.33	29.92	28.50	18.1	24.4	22.3	28.0	13.8	20.9	48	−10	16	18	17	88	74	79	.104	.109	.107	2.51	1.04	13.5	5.8	5.2	5.2	5.5
Year	29.32	30.10	28.08	38.9	46.3	44.3	50.1	34.2	42.2	93	−10	34	35	35	81	66	72	.235	.248	.251	31.37	2.93	65.6	5.6	6.3	5.3	6.0

EUREKA, CALIF.

[ϕ=40°48′ N.; λ=124°11′ W.]

January	30.13	30.44	29.49	42.4	47.3	46.7	49.9	38.9	44.4	58	31	39	41	42	89	79	83	0.215	0.257	0.266	6.84	1.17	1.6	5.9	7.0	7.3	6.7
February	30.04	30.33	29.53	42.7	49.8	49.1	52.3	39.5	45.9	71	30	38	40	41	85	69	73	.238	.251	.258	1.20	.44	.8	4.6	5.6	5.3	5.4
March	30.12	30.41	29.73	48.9	53.1	52.9	56.2	44.5	50.4	65	32	44	46	46	91	77	78	.296	.310	.311	4.54	2.00	.0	6.2	7.5	6.6	7.0
April	30.02	30.37	29.76	46.6	53.2	52.8	55.9	43.5	49.7	65	37	43	44	45	87	73	75	.276	.295	.298	4.87	1.13	.0	6.2	6.4	7.3	6.4
May	30.01	30.30	29.68	49.4	54.6	54.5	57.1	48.0	52.6	64	43	47	48	48	92	79	79	.322	.336	.331	1.41	.58	.0	7.9	6.0	5.9	6.3
June	29.95	30.12	29.68	50.7	56.2	55.8	58.5	49.8	54.2	64	43	49	49	49	93	78	79	.343	.354	.353	.11	.10	.0	6.5	4.2	4.0	5.0
July	29.99	30.14	29.72	52.9	57.7	58.0	60.4	51.9	56.2	68	46	51	51	51	93	80	79	.371	.379	.380	.14	.08	.0	8.2	4.6	3.6	5.5
August	29.92	30.08	29.69	53.5	58.9	59.1	61.3	52.4	56.8	65	49	52	52	53	95	79	81	.385	.393	.406	.03	.02	.0	6.2	2.8	3.3	4.4
September	29.96	30.20	29.75	51.3	56.7	56.5	59.3	49.6	54.4	67	46	50	51	51	96	82	83	.362	.373	.376	.01	.01	.0	5.2	4.3	3.8	5.3
October	30.06	30.38	29.67	49.1	56.2	55.6	58.2	47.0	52.6	67	41	48	49	50	96	78	84	.339	.349	.369	1.32	.43	.0	3.7	4.6	5.2	5.2
November	30.08	30.32	29.65	49.8	56.0	54.5	58.9	46.2	52.6	68	42	48	49	50	93	80	85	.331	.354	.360	5.11	2.05	.0	5.7	6.9	4.9	7.0
December	30.12	30.59	29.67	41.8	48.2	47.7	50.0	38.4	44.2	58	22	37	37	39	84	68	74	.235	.240	.254	5.54	1.45	.3	6.1	5.7	5.6	5.8
Year	30.03	30.59	29.49	48.1	54.0	53.6	56.5	45.8	51.2	71	22	46	46	47	91	77	79	.312	.324	.330	31.12	2.05	2.7	6.0	5.5	5.2	5.8

EVANSVILLE, IND.

[ϕ=37°58′ N.; λ=87°33′ W.]

January	29.66	30.25	29.08	39.3	44.0	44.2	50.6	36.0	43.3	68	19	34	35	36	81	72	72	0.210	0.218	0.223	7.76	1.56	T	5.6	6.6	5.9	6.2
February	29.58	30.16	29.00	40.7	47.0	48.8	54.5	38.0	46.2	70	24	35	36	38	79	67	65	.211	.228	.239	2.03	.61	T	5.1	6.0	5.4	5.5
March	29.52	30.00	28.62	34.6	42.0	43.1	48.2	31.1	39.6	71	10	28	30	31	76	64	63	.171	.188	.193	3.60	1.38	3.6	5.4	6.4	5.8	5.8
April	29.52	29.91	29.01	50.8	60.6	61.8	66.4	48.4	57.4	81	36	42	44	43	74	56	53	.286	.306	.292	2.55	.89	.0	6.5	6.2	5.7	6.0
May	29.59	29.89	29.36	61.0	71.8	71.1	76.6	57.1	66.8	85	44	51	53	53	71	52	54	.393	.414	.419	.99	.40	.0	3.2	5.1	4.6	4.5
June	29.45	29.64	29.24	72.1	83.0	81.0	86.9	68.3	77.6	94	59	64	63	64	75	52	50	.507	.588	.616	1.79	1.04	.0	5.7	6.4	5.0	5.9
July	29.50	29.72	29.16	74.9	86.3	85.5	91.5	70.9	81.2	99	59	66	66	67	74	52	55	.653	.651	.673	3.31	2.52	.0	4.4	4.4	4.9	4.5
August	29.53	29.76	29.32	71.8	82.7	81.0	87.2	68.3	77.8	95	58	65	65	65	79	57	60	.631	.643	.629	3.34	1.02	.0	4.5	4.7	4.0	4.4
September	29.60	29.78	29.21	63.6	75.8	73.1	79.3	60.9	70.1	95	49	58	58	59	83	56	63	.499	.506	.518	7.34	2.82	.0	5.2	4.3	4.6	4.6
October	29.56	29.83	29.13	51.2	62.6	59.2	66.4	48.6	57.5	78	35	46	46	48	82	58	67	.324	.336	.349	4.85	1.56	.0	4.8	4.4	3.9	4.5
November	29.73	30.24	29.18	38.0	45.2	45.0	50.4	35.3	42.8	71	24	31	35	34	76	65	67	.188	.215	.211	2.11	.60	2.3	5.2	5.9	4.4	5.6
December	29.71	30.20	29.07	31.6	37.8	37.3	43.2	28.5	35.8	64	0	27	29	28	83	71	69	.168	.185	.175	7.52	4.89	4.7	7.2	7.2	5.9	7.1
Year	29.58	30.25	28.62	52.5	61.6	60.9	66.8	49.3	58.0	99	0	46	47	47	78	60	62	.361	.372	.378	47.19	4.89	10.6	5.2	5.6	5.1	5.4

Annual meteorological summaries for the year ending December 31, 1932—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	16.2	W.	44	W.	12	1	3	3	8	16	13	19	4	0	3	5	23	21	14	8	4	0	4	1	1	0	13	0	0
February	15.0	SW.	49	SW.	8	6	4	0	4	9	12	14	9	0	5	8	16	14	9	14	7	1	1	0	7	0	22	2	0
March	15.4	W.	44	SW.	7	0	9	1	2	6	11	23	10	0	3	4	24	15	10	18	10	0	2	1	10	0	27	1	0
April	12.7	W.	37	SE.	3	4	15	3	3	5	4	14	12	0	14	2	14	11	9	5	2	0	4	3	0	0	9	1	0
May	11.7	W.	35	W.	3	6	11	1	6	9	9	13	7	0	12	5	14	9	8	0	0	0	2	1	0	0	0	7	0
June	11.2	W.	38	SW.	1	7	4	2	3	10	10	16	8	0	14	8	8	8	5	0	0	0	0	0	0	0	0	4	0
July	11.7	W.	35	S.	2	6	2	3	1	7	15	17	11	0	12	11	8	13	11	0	0	0	1	1	0	0	0	8	0
August	10.3	S.	35	SW.	1	8	3	1	3	16	11	11	9	0	21	5	5	11	8	0	0	0	1	0	0	0	0	4	0
September	12.2	N.	36	SW.	2	7	13	0	7	10	4	7	12	0	12	13	5	13	11	0	0	1	0	0	0	0	0	6	0
October	15.8	S.	41	SE.	8	0	5	2	8	19	15	9	4	0	7	6	18	16	10	2	0	0	1	0	0	0	0	1	0
November	12.5	S.	45	SE.	4	6	5	6	5	14	10	6	8	0	7	9	14	13	12	11	4	0	2	0	1	0	15	0	0
December	15.7	SW.	44	W.	7	0	3	2	2	24	15	10	6	0	4	5	22	11	9	14	4	0	2	2	10	0	19	0	0
Year	13.4	W.	49	SW.	58	51	77	24	47	145	129	159	100	0	114	81	171	155	116	72	31	2	19	9	29	0	105	34	0

ESCANABA, MICH.

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

January	9.9	SW.	27	S.	0	6	8	1	4	6	14	13	10	0	6	4	21	16	14	23	14	0	3	3	14	0	29	0	0
February	10.2	NW.	28	NW.	0	10	1	2	0	11	12	6	15	1	8	7	14	11	6	17	9	0	5	4	18	0	29	0	0
March	10.6	NW.	29	NW.	0	16	3	3	3	12	2	5	18	0	6	9	16	10	4	25	9	0	3	1	21	0	31	0	0
April	10.5	N.	34	N.	2	24	11	4	4	7	2	1	7	0	12	6	12	10	7	8	5	0	0	1	3	0	18	2	0
May	10.7	S.	26	NE.	0	12	8	8	1	22	5	3	3	0	7	11	13	10	9	2	0	0	2	2	0	0	1	7	5
June	8.2	S.	26	S.	0	17	10	4	4	15	4	2	4	0	10	13	7	7	6	0	0	0	4	4	0	0	0	4	1
July	9.8	S.	32	NW.	1	16	2	2	4	13	6	5	13	1	7	16	8	12	10	0	0	1	2	1	0	0	3	11	0
August	8.5	S.	32	NW.	1	14	2	0	2	22	3	4	15	0	11	11	9	12	9	0	0	0	1	1	0	0	0	8	2
September	9.0	NW.	25	S.	0	7	2	1	1	12	8	12	17	0	15	11	4	8	5	0	0	1	0	4	0	0	0	2	5
October	10.6	NW.	32	NW.	1	7	10	5	2	8	10	4	16	0	4	5	22	14	11	7	1	2	4	0	0	0	9	3	0
November	11.0	SW.	29	S.	0	5	1	3	1	10	18	5	17	0	5	7	18	8	6	13	4	0	5	2	7	0	24	1	0
December	10.2	SW.	29	N.	0	5	2	2	2	9	23	7	12	0	11	7	13	12	7	14	10	0	5	1	15	0	29	0	1
Year	9.9	S.	34	N.	5	139	60	35	28	147	107	67	147	2	102	107	157	130	94	109	52	4	34	24	78	3	170	38	14

EUREKA, CALIF.

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

January	6.9	SE.	34	NW.	1	15	6	5	14	7	5	4	6	0	7	5	19	16	15	3	3	2	9	2	0	0	1	0	0
February	8.7	N.	37	N.	2	18	8	6	6	9	3	5	4	2	9	10	10	11	8	1	0	1	5	3	0	0	3	0	0
March	7.3	N.	30	SW.	0	12	6	6	7	5	11	3	10	2	5	11	15	17	14	0	0	0	9	4	0	0	0	0	0
April	7.5	SE.	30	SW.	0	11	2	5	14	5	9	7	7	0	4	11	15	18	14	0	0	2	3	1	0	0	0	0	0
May	8.3	N.	26	N.	0	17	0	3	11	9	8	3	11	0	6	11	14	11	8	0	0	0	1	0	0	0	0	0	0
June	7.9	N.	25	N.	0	22	0	0	3	7	5	7	15	1	11	10	9	3	2	0	0	0	8	1	0	0	0	0	0
July	7.8	N.	24	N.	0	24	1	1	1	10	8	5	12	0	8	12	11	4	2	0	0	0	12	3	0	0	0	0	0
August	7.0	NW.	24	N.	0	15	1	3	6	4	4	3	25	1	14	11	6	3	0	0	0	0	12	8	0	0	0	0	0
September	6.1	N.	24	N.	0	19	8	4	2	2	11	5	13	1	10	9	11	7	1	0	0	0	17	6	0	0	0	0	0
October	5.8	N.	23	N.	0	20	3	8	10	2	12	4	3	0	13	7	11	7	6	0	0	0	15	13	0	0	0	1	0
November	6.2	SE.	31	SW.	0	8	8	6	13	12	10	0	2	1	3	11	16	13	13	0	0	0	14	15	0	0	0	1	0
December	7.0	SE.	30	SW.	0	14	3	6	15	9	8	0	4	3	11	4	16	17	12	1	1	1	6	2	0	0	8	0	0
Year	7.2	N.	37	N.	3	195	41	53	105	75	94	46	112	11	101	112	153	121	94	5	4	6	111	58	0	0	12	2	0

EVANSVILLE, IND.

[H_b=431 ft.; h_t=76 ft.; h_r=74 ft.; h_a=116 ft.]

January	10.0	S.	49	SW.	1	4	2	5	9	14	6	11	10	1	10	4	17	14	11	4	1	0	5	2	2	0	9	1	0
February	10.1	SW.	35	SW.	2	9	8	5	2	9	11	5	9	0	10	8	11	7	6	2	0	0	0	0	0	0	7	3	0
March	11.3	NW.	41	SW.	2	10	6	2	4	11	3	6	19	1	7	12	12	18	11	8	7	1	0	0	8	0	12	3	0
April	10.0	E.	38	SW.	1	12	4	18	3	5	7	3	8	0	9	9	12	9	6	0	0	0	0	0	0	0	0	3	0
May	9.3	S.	30	NW.	0	9	9	4	4	19	9	0	8	0	13	11	7	4	3	0	0	0	0	0	0	0	0	6	1
June	7.9	SW.	30	S.	0	9	11	6	6	13	8	5	2	0	8	11	11	7	6	0	0	0	0	0	0	0	10	7	0
July	8.2	SW.	30	NW.	0	6	9	2	4	9	14	12	6	0	13	14	4	6	5	0	0	0	0	0	0	0	20	8	0
August	7.1	S.	29	NW.	0	7	14	10	1	14	6	5	3	2	13	12	6	12	10	0	0	0	0	0	0	0	10	10	0
September	8.1	N.	25	SE.	0	14	11	3	5	8	5	5	7	2	11	11	8	8	8	0	0	0	0	0	0	0	2	5	0
October	9.3	S.	28	NW.	0	6	5	5	5	17	9	5	10	0	14	7	10	7	6	0	0	0	2	2	0	0	0	0	0
November	9.3	S.	30	SW.	0	14	6	10	2	13	3	5	7	0	12	2	16	7	7	5	3	0	0	0	0	0	13	0	0
December	10.4	S.	41	SW.	1	11	7	5	4	16	6	4	8	1	6	6	19	16	10	9	6	1	7	5	8	0	19	2	0
Year	9.2	S.	49	SW.	7	111	92	75	49	148	87	66	97	7	126	107	133	115	89	28	17	2	14	9	18	42	60	48	1

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.60	30.11	28.97	38.7	47.6	47.7	53.0	36.0	44.5	78	21	33	38	35	80	70	64	0.196	0.244	0.217	5.96	1.90	0.0	4.7	5.8	5.4	5.5
February	29.53	29.96	28.98	43.7	54.9	56.2	61.4	41.2	51.3	80	18	37	42	41	79	64	60	.235	.277	.268	2.66	1.14	.0	5.3	6.0	6.0	5.8
March	29.50	30.08	28.78	40.5	51.8	53.3	58.9	37.2	48.0	86	13	32	33	33	73	52	48	.203	.210	.216	2.88	1.81	1.5	5.7	5.6	5.4	5.8
April	29.44	29.82	29.05	56.8	69.8	70.8	75.3	54.5	65.0	87	44	45	46	47	66	45	44	.315	.326	.336	1.77	.61	.0	4.3	5.3	5.7	5.2
May	29.52	29.78	29.27	62.4	76.0	77.1	80.9	60.3	70.6	88	51	54	55	55	74	49	49	.426	.443	.451	2.62	1.07	.0	4.0	4.9	5.3	4.8
June	29.39	29.56	29.21	72.3	84.0	84.4	89.5	69.8	79.6	98	63	66	67	68	82	58	59	.654	.670	.681	7.49	2.48	.0	6.2	5.9	5.2	5.9
July	29.46	29.66	29.08	77.1	88.4	88.6	93.6	74.6	84.1	101	64	71	72	72	82	59	59	.758	.783	.783	1.67	.62	.0	4.2	5.0	4.3	4.7
August	29.45	29.66	29.24	74.4	89.7	89.0	95.3	72.9	84.1	101	62	67	68	66	78	49	45	.672	.695	.644	.12	.05	.0	3.3	4.4	3.3	4.0
September	29.55	29.82	29.29	65.6	81.2	79.5	86.1	64.5	75.3	97	55	58	60	59	78	50	52	.502	.543	.521	.75	.31	.0	4.9	5.6	6.3	5.5
October	29.53	29.89	29.18	51.5	67.0	65.7	73.3	49.0	61.2	89	36	44	48	46	77	52	50	.301	.347	.321	4.30	1.79	.0	3.6	3.7	2.9	3.6
November	29.68	30.10	29.16	39.6	52.0	51.6	58.8	36.7	47.8	76	20	32	36	35	75	55	54	.194	.222	.214	.48	.27	.0	4.1	4.8	3.4	4.6
December	29.65	30.13	29.09	35.6	43.8	42.6	48.0	31.9	40.0	77	11	30	35	32	79	69	68	.181	.225	.199	5.08	3.16	.5	5.9	6.1	4.6	5.8
Year	29.53	30.13	28.78	54.8	67.2	67.2	72.8	52.4	62.6	101	13	47	50	49	77	56	55	.386	.415	.404	35.78	3.16	2.0	4.7	5.3	4.8	5.1

FORT WAYNE, IND.

[ϕ=41°05′ N.; λ=85°10′ W.]

January	29.14	29.74	28.56	34.7	37.7	36.6	42.8	30.9	36.8	64	7	32	34	33	89	85	86	0.193	0.207	0.200	3.84	0.86	0.8	7.5	8.3	6.6	7.8
February	29.07	29.73	28.29	32.8	37.1	37.2	42.5	28.1	35.3	66	13	28	28	30	83	69	74	.167	.164	.174	.80	.28	1.9	6.0	6.8	5.2	6.5
March	29.00	29.46	28.27	25.8	33.0	31.9	37.0	22.6	29.8	61	2	22	23	24	86	65	73	.130	.134	.139	1.97	.58	3.3	6.9	8.2	6.9	7.7
April	29.07	29.50	28.60	41.0	53.2	51.4	57.7	37.0	47.4	75	27	33	34	35	75	52	56	.197	.205	.215	2.21	.77	T	6.3	6.3	4.5	5.8
May	29.12	29.51	28.83	56.4	66.7	64.8	71.0	50.2	60.6	86	36	46	47	47	71	53	56	.332	.341	.342	1.21	.44	.0	4.7	5.0	5.2	4.8
June	29.00	29.25	28.68	66.3	76.9	76.1	81.3	60.8	71.0	89	46	56	57	58	72	52	56	.479	.476	.508	3.10	1.13	.0	5.0	5.6	4.7	4.9
July	29.03	29.29	28.58	69.5	79.8	79.5	84.6	64.1	74.4	98	56	60	58	59	73	49	51	.532	.487	.514	2.15	1.22	.0	3.8	4.4	3.9	4.0
August	29.09	29.36	28.82	66.8	80.2	78.1	83.5	62.3	72.9	94	49	58	56	57	74	45	50	.492	.455	.474	1.14	.51	.0	3.9	5.4	3.3	4.4
September	29.18	29.46	28.70	58.0	70.4	66.6	73.5	54.4	64.0	86	42	52	51	52	81	53	61	.407	.393	.400	5.70	3.88	.0	3.8	4.9	3.8	4.5
October	29.05	29.37	28.71	47.5	57.1	53.4	60.9	44.6	52.8	76	33	43	44	44	84	63	71	.285	.304	.301	4.59	1.54	.0	6.1	6.3	5.5	6.6
November	29.24	29.84	28.70	31.3	39.3	37.5	42.8	28.5	35.6	69	14	26	29	30	82	66	73	.151	.169	.176	1.18	.39	4.5	6.0	6.2	5.4	6.0
December	29.18	29.72	28.59	27.2	32.7	30.0	36.8	22.7	29.8	62	−7	23	24	24	83	71	78	.142	.152	.149	4.72	2.00	3.9	6.5	6.2	6.6	6.5
Year	29.10	29.84	28.27	46.4	55.3	53.6	59.5	42.2	50.9	98	−7	40	40	41	79	60	65	.202	.291	.209	32.61	3.88	14.4	5.5	6.1	5.1	5.8

FORT WORTH, TEX.

[ϕ=32°43′ N.; λ=97° 15′ W.]

January	29.35	29.85	28.78	42.7	51.1	51.1	57.0	39.3	48.2	76	29	36	37	39	79	62	66	0.230	0.241	0.254	9.07	2.52	0.0	6.0	6.0	5.7	5.7
February	29.28	29.77	28.81	50.2	60.2	60.8	66.5	47.1	56.8	88	30	43	46	46	78	64	64	.296	.329	.335	4.92	1.62	.0	6.4	7.8	7.0	7.2
March	29.27	29.85	28.55	44.8	57.0	59.0	66.2	42.0	54.1	91	22	32	33	33	64	41	39	.210	.213	.210	.63	.33	T	6.4	5.4	4.6	6.2
April	29.20	29.60	28.85	58.6	71.4	74.1	77.9	56.8	67.4	88	41	50	48	50	74	49	48	.380	.365	.402	3.43	1.58	.0	5.1	5.4	4.2	4.9
May	29.26	29.49	28.95	64.9	77.3	77.4	81.5	62.8	72.2	93	56	59	58	60	82	54	58	.513	.501	.542	6.03	2.35	.0	5.5	5.6	5.1	5.2
June	29.15	29.33	28.93	73.3	85.4	86.7	90.8	70.7	80.8	97	63	68	67	69	83	55	56	.678	.668	.695	3.04	1.53	.0	7.0	6.3	3.6	5.5
July	29.22	29.46	28.86	76.9	89.5	90.8	94.2	75.5	84.8	102	70	69	67	66	78	50	57	.712	.662	.652	2.07	.76	.0	3.2	4.3	3.6	3.7
August	29.19	29.39	29.01	76.6	89.4	89.4	94.2	75.5	84.8	102	68	68	68	67	76	52	50	.690	.701	.673	2.92	2.21	.0	5.5	6.4	5.7	5.9
September	29.30	29.53	29.02	68.9	80.8	79.4	84.4	67.7	76.0	94	60	63	63	62	82	56	58	.585	.583	.574	10.80	9.57	.0	5.8	6.3	6.1	6.2
October	29.30	29.69	28.92	56.2	71.0	70.5	77.8	53.8	65.8	90	41	48	46	49	74	44	48	.348	.327	.361	1.66	.72	.0	4.7	4.4	2.4	4.0
November	29.45	29.86	28.91	43.3	58.3	57.5	64.8	40.1	52.4	84	24	36	42	40	76	57	55	.225	.291	.270	1.56	1.42	.0	3.2	4.0	2.5	3.4
December	29.40	29.97	28.83	38.7	47.0	46.8	51.9	34.9	43.4	80	14	34	36	35	81	67	70	.218	.240	.229	4.90	2.18	2.7	5.2	5.8	5.1	5.9
Year	29.28	29.97	28.55	57.9	69.9	70.2	75.6	55.5	65.6	102	14	50	51	51	77	54	55	.424	.427	.433	51.03	9.57	2.7	5.3	5.6	4.6	5.2

FRESNO, CALIF.

[ϕ=36°43′ N.; λ=119° 49′ W.]

January	29.82	30.17	29.30	39.3	48.5	50.2	52.6	36.9	44.8	59	31	37	38	38	91	68	66	0.220	0.231	0.236	1.87	0.63	T	4.3	6.3	4.7	5.6
February	29.67	30.00	29.20	44.2	55.3	57.8	60.1	41.3	50.7	77	32	41	42	42	87	64	57	.259	.280	.275	1.09	.56	.0	3.1	5.1	4.8	5.3
March	29.73	29.96	29.44	49.2	64.3	67.4	69.8	47.1	58.4	86	39	42	42	41	79	46	41	.274	.275	.267	.83	.83	.0	1.8	4.6	4.7	4.2
April	29.65	29.88	29.31	47.9	67.1	70.8	73.8	46.6	60.2	88	39	42	38	34	80	36	29	.264	.236	.203	.22	.16	.0	2.7	4.7	3.9	4.1
May	29.57	29.82	29.30	56.6	76.1	80.2	82.5	55.3	68.9	99	47	47	44	41	72	33	27	.326	.290	.258	.40	.17	.0	2.9	2.7	3.5	3.0
June	29.46	29.72	29.23	61.9	84.5	91.5	92.7	61.1	76.9	108	52	38	48	43	62	29	20	.341	.339	.284	.00	.00	.0	.5	.2	.4	.5
July	29.49	29.75	29.24	64.8	89.2	95.7	97.1	63.6	80.4	108	54	49	48	40	58	25	15	.347	.336	.252	.00	.00	.0	.4	.2	.2	.3
August	29.45	29.61	29.16	64.8	88.6	94.4	96.1	63.2	79.6	106	55	48	47	41	56	24	17	.341	.323	.265	.00	.00	.0	.3	.1	.5	.3
September	29.51	29.75	29.27	63.8	87.1	92.1	93.9	61.8	77.8	107	55	49	49	44	61	28	21	.354	.351	.300	T	T	.0	.4	1.0	1.2	1.1
October	29.63	29.91	29.34	53.8	75.6	77.6	80.8	51.4	66.1	97	42	42	39	38	65	29	25	.277	.257	.244	.00	.00	.0	.4	.9	1.1	1.0
November	29.75	29.97	29.53	49.0	68.9	69.0	73.4	46.5	60.0	83	40	38	40	38	68	37	35	.234	.256	.239	.30	.30	.0	1.4	3.1	3.2	2.9
December	29.81	30.26	29.36	37.8	47.7	48.4	51.4	35.1	43.2	66	18	34	35	35	87	64	62	.202	.210	.210	.98	.48	T	4.1	5.4	4.8	5.7
Year	29.63	30.26	29.16	52.8	71.1	74.6	77.0	50.8	63.9	108	18	43	42	40	72	40	35	.287	.282	.253	5.69	.83	T	1.9	2.9	2.8	2.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

FORT SMITH, ARK.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.01 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	9.4	E.	35	SW.	1	4	2	23	5	2	5	10	11	0	12	7	12	13	9	0	0	0	5	2	0	0	10	2	0
February	9.4	E.	38	SW.	1	5	4	27	1	2	8	5	6	0	9	7	13	8	6	0	0	0	1	0	0	0	3	3	0
March	9.8	NW.	38	W.	1	6	3	11	2	7	10	3	20	0	9	11	11	11	8	5	3	1	2	1	3	0	10	4	0
April	9.5	E.	31	W.	0	5	2	19	3	7	11	5	7	1	11	11	8	8	8	0	0	0	2	0	0	0	0	4	0
May	7.4	E.	30	SW.	0	8	8	21	5	10	4	0	5	1	10	16	5	8	5	0	0	0	0	0	0	0	0	6	0
June	6.5	E.	29	SE.	0	2	9	17	3	13	3	8	3	2	5	16	9	14	11	0	0	0	0	0	0	0	10	0	0
July	6.3	E.	30	NW.	0	2	9	22	6	10	7	3	3	0	13	10	8	4	4	0	0	0	0	0	0	23	0	7	0
August	7.0	E.	21	SW.	0	3	12	29	1	11	3	2	1	0	11	18	2	5	1	0	0	0	0	0	0	27	0	8	0
September	6.6	E.	32	NW.	1	10	10	27	3	3	2	2	2	1	7	18	5	8	6	0	0	0	2	0	0	13	0	8	0
October	7.6	E.	24	N.	0	8	4	24	6	4	5	4	7	0	18	7	6	7	5	0	0	0	3	0	0	0	0	3	0
November	8.1	E.	22	NW.	0	8	5	21	3	6	4	8	5	0	13	10	7	5	3	0	0	0	4	1	0	0	10	1	0
December	7.5	E.	31	SW.	0	4	10	17	7	5	6	4	9	0	9	11	11	12	10	3	1	0	1	0	4	0	17	1	0
Year	7.9	E.	38	W.	4	65	78	258	45	80	68	54	79	5	127	142	97	103	76	8	4	1	20	4	7	73	50	61	0

FORT WAYNE, IND.

[H_b=857 ft.; h_i=69 ft.; h_r=63 ft.; h_a=84 ft.]

January	11.3	SW.	31	S.	0	0	3	5	8	10	17	15	4	0	3	7	21	13	12	7	2	0	7	2	5	0	19	1	0
February	10.9	SW.	34	S.	1	5	3	5	5	10	15	7	8	0	8	4	17	8	7	6	2	0	4	2	4	0	22	2	0
March	11.5	W.	30	S.	0	2	7	6	3	2	12	19	11	0	2	10	19	13	9	12	4	0	1	2	10	0	25	2	0
April	11.3	NE.	31	NW.	0	5	16	12	2	4	5	5	11	0	8	9	13	11	8	3	0	0	2	1	0	0	10	3	0
May	9.4	SW.	25	SW.	0	6	6	8	2	11	15	8	6	0	13	10	8	10	7	0	0	0	0	0	0	0	0	5	0
June	8.1	SW.	25	W.	0	4	7	11	4	7	11	7	9	0	11	11	8	10	8	0	0	0	0	0	0	0	0	9	1
July	8.8	W.	28	W.	0	4	7	3	2	6	11	15	13	1	13	14	4	6	4	0	0	0	0	0	0	7	0	4	0
August	7.2	SW.	25	NW.	0	7	3	11	1	8	15	6	11	0	12	12	7	7	6	0	0	0	0	0	0	4	0	5	0
September	8.3	N.	24	W.	0	14	9	6	2	5	9	4	11	0	16	6	8	8	8	0	0	0	2	1	0	0	0	1	0
October	9.9	S.	32	W.	1	0	10	8	5	12	6	15	6	0	6	10	15	13	9	0	0	0	4	2	0	0	0	0	0
November	9.4	SW.	24	SW.	0	2	8	6	6	11	9	11	6	1	9	6	15	10	8	6	3	0	6	2	5	0	18	0	0
December	10.8	SW.	34	SW.	1	2	3	2	6	14	16	12	7	0	8	5	18	10	8	10	3	0	11	1	12	0	23	1	0
Year	9.7	SW.	34	SW.	3	51	82	83	46	100	141	124	103	2	109	104	153	119	91	44	14	0	38	13	36	11	117	33	1

FORT WORTH, TEX.

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

January	9.0	NW.	25	E.	0	8	5	4	11	6	7	5	15	1	11	7	13	8	8	0	0	0	0	0	0	0	3	4	0
February	8.3	SW.	31	SW.	0	10	10	7	6	7	8	2	7	1	5	7	17	13	11	0	0	0	2	2	0	0	1	5	0
March	10.3	NW.	33	S.	2	13	2	1	10	10	8	6	12	0	14	6	11	4	4	2	0	0	0	0	0	1	9	1	0
April	11.0	S.	34	NW.	1	2	7	4	7	15	10	3	10	2	13	6	11	7	4	0	0	1	1	0	0	0	0	5	0
May	8.0	NE.	24	E.	0	6	17	9	10	11	4	1	3	1	13	5	13	9	7	0	0	1	0	0	0	1	0	9	0
June	9.6	S.	37	NW.	1	4	6	3	18	15	6	3	5	0	7	12	11	7	7	0	0	0	0	0	0	18	0	9	0
July	8.4	S.	29	E.	0	0	7	4	16	14	18	0	1	2	19	4	8	5	5	0	0	0	0	0	0	26	0	7	0
August	8.8	S.	25	SE.	0	2	8	7	18	11	13	1	2	0	7	11	13	4	4	0	0	0	0	0	0	26	0	6	0
September	6.8	NE.	26	SE.	0	5	16	10	9	5	4	1	9	1	10	2	18	6	5	0	0	0	0	0	0	9	0	4	0
October	8.7	S.	27	S.	0	11	2	6	8	11	8	7	8	1	17	4	10	5	5	0	0	0	0	0	0	0	3	0	0
November	8.5	NW.	26	SW.	0	7	4	7	8	5	10	6	17	1	19	4	7	3	2	0	0	0	0	0	0	0	15	3	0
December	8.7	N.	24	SW.	0	11	11	6	7	9	6	3	9	0	10	6	15	10	8	2	2	0	2	3	3	0			
Year	8.8	S.	37	NW.	4	79	95	68	123	119	102	38	98	10	145	74	147	81	70	4	2	2	5	5	3	81	32	54	0

FRESNO, CALIF.

[H_b=327 ft.; h_i=89 ft.; h_r=82 ft.; h_a=98 ft.]

January	5.5	NW.	25	NW.	0	7	3	16	8	6	3	3	16	0	8	13	10	8	7	3	0	0	16	8	0	0	2	0	0
February	6.0	NW.	23	NW.	0	1	5	10	6	6	3	1	23	3	11	8	10	8	6	0	0	0	10	9	0	0	1	0	0
March	6.9	NW.	32	NW.	1	3	3	11	5	5	1	2	32	0	17	7	7	1	1	0	0	0	0	0	0	0	0	1	0
April	8.4	NW.	26	NW.	0	2	2	5	1	3	3	3	38	1	15	10	5	4	2	0	0	0	0	0	0	0	0	1	0
May	8.4	NW.	26	NW.	0	4	0	3	2	0	0	1	50	2	20	7	4	6	3	0	0	0	0	0	0	19	0	2	0
June	8.2	NW.	21	NW.	0	2	0	2	0	1	0	2	48	5	29	1	0	0	0	0	0	0	0	0	0	25	0	0	0
July	8.9	NW.	24	NW.	0	1	0	1	0	1	0	3	56	0	30	1	0	0	0	0	0	0	0	0	0	24	0	0	0
August	8.0	NW.	17	NW.	0	1	0	0	1	1	0	1	57	1	30	1	0	0	0	0	0	0	0	0	0	20	0	0	0
September	6.2	NW.	16	NW.	0	2	0	5	1	0	0	7	36	9	25	4	1	0	0	0	0	0	0	0	0	0	0	0	0
October	5.9	NW.	22	NW.	0	5	2	4	1	2	3	4	28	3	0	0	0	0	0	0	0	0	1	1	0	4	0	0	0
November	4.6	NW.	22	NW.	0	0	3	10	6	4	4	4	21	8	19	5	6	1	1	0	0	0	1	1	0	0	0	0	0
December	4.9	NW.	20	NW.	0	2	3	5	13	4	5	6	15	9	10	7	14	7	3	3	2	0	13	8	0	0	8	1	0
Year	6.8	NW.	32	NW.	1	30	21	72	45	35	20	37	430	42	242	67	57	35	23	6	2	1	40	26	0	101	11	5	0

Annual meteorological summaries for the year ending December 31, 1932—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	5 p.m.	8 a.m.	Noon, local time	8 p.m.	Total	Maximum in 24 hours	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.05	30.45	29.60	56.6	59.8	59.2	63.5	53.4	58.4	72	40	53	53	53	89	80	82	0.432	0.432	0.431	6.67	2.41	0.0	6.7	6.2	6.4	6.4
February	29.96	30.35	29.70	61.5	66.9	65.2	70.0	59.9	65.0	83	43	59	60	60	91	81	86	.514	.545	.548	4.46	1.79	.0	6.7	6.5	6.3	6.6
March	29.94	30.42	29.43	54.9	59.3	58.9	64.3	52.1	58.2	81	30	49	48	49	80	68	71	.393	.376	.384	1.10	.49	T	4.7	5.2	5.2	4.9
April	29.89	30.32	29.60	65.8	71.2	69.1	73.1	64.8	69.0	80	48	61	61	62	86	72	80	.559	.559	.579	2.17	2.01	.0	4.6	4.1	4.2	4.3
May	29.89	30.10	29.67	72.5	78.5	76.8	80.8	70.8	75.8	86	61	66	66	66	82	67	72	.653	.650	.658	1.56	1.54	.0	4.6	4.5	4.8	4.1
June	29.83	29.99	29.67	79.0	83.3	81.5	85.6	76.9	81.2	90	65	73	73	74	82	71	77	.811	.805	.832	1.82	.55	.0	4.5	4.2	3.5	4.0
July	29.89	30.10	29.60	81.2	87.1	85.1	89.4	79.4	84.4	101	69	75	74	74	80	65	70	.856	.828	.837	1.89	.89	.0	4.2	3.4	3.3	3.5
August	29.84	29.99	29.22	81.1	86.9	84.1	88.9	79.9	84.4	91	74	75	76	75	83	69	74	.877	.882	.858	4.85	3.52	.0	3.8	4.9	5.8	4.8
September	29.89	30.06	29.69	76.2	81.9	80.8	84.6	75.3	80.0	93	68	70	69	70	83	67	71	.750	.726	.744	5.47	1.96	.0	4.4	4.1	4.8	4.7
October	29.94	30.28	29.80	67.8	73.7	71.9	76.5	65.4	71.0	84	52	61	61	61	80	67	71	.570	.574	.572	1.30	.92	.0	3.6	2.5	2.2	2.8
November	30.11	30.46	29.65	54.2	61.3	60.2	64.8	51.8	58.3	77	36	48	48	49	82	66	69	.366	.371	.376	2.51	1.37	.0	3.4	2.6	2.0	2.9
December	30.05	30.57	29.61	51.6	54.9	53.5	58.2	48.7	53.4	70	28	49	50	50	92	85	89	.371	.383	.382	2.82	.59	.0	7.7	6.9	6.6	7.2
Year	29.94	30.57	29.22	66.9	72.1	70.5	75.0	64.9	69.9	101	28	62	62	62	84	72	76	.596	.594	.600	36.62	3.52	T	4.9	4.6	4.6	4.7

GRAND HAVEN, MICH.

[ϕ=43°04′ N.; λ=86°14′ W.]

January	29.34	29.98	28.72	33.0	33.8	34.2	38.2	28.8	33.5	53	6	30	30	30	90	84	84	0.174	0.167	0.171	3.05	0.66	3.2	9.5	9.2	8.5	9.2
February	29.28	29.99	28.33	27.9	31.9	32.2	38.1	23.7	30.9	60	13	24	26	27	84	76	79	.136	.147	.152	1.15	.65	1.4	8.7	8.3	7.2	8.5
March	29.23	29.68	28.71	25.5	29.7	28.3	33.1	21.6	27.4	58	7	22	23	23	86	75	82	.121	.125	.130	2.35	.58	32.1	8.6	9.1	7.8	8.9
April	29.33	29.76	28.92	38.4	47.4	45.2	51.9	33.5	42.7	73	24	30	30	31	72	55	61	.167	.174	.177	.82	.32	T	5.9	5.7	4.6	5.7
May	29.34	29.74	29.03	52.5	57.7	58.3	63.9	45.3	54.6	80	32	44	45	43	74	65	62	.294	.310	.297	3.17	.81	.0	5.7	5.7	5.8	6.3
June	29.23	29.52	28.74	65.5	71.0	71.2	75.3	57.6	66.4	84	43	58	57	58	78	64	65	.493	.482	.494	.47	.20	.0	5.2	4.9	4.4	5.1
July	29.24	29.52	28.75	68.1	72.7	73.4	77.4	61.4	69.4	90	52	60	61	60	77	68	65	.533	.544	.528	3.37	1.90	.0	4.3	4.2	4.3	4.3
August	29.30	29.60	29.00	67.1	73.5	72.3	77.1	60.7	68.9	85	51	60	62	60	80	69	67	.534	.572	.533	2.34	.74	.0	4.1	4.9	5.1	5.2
September	29.41	29.70	29.06	57.9	67.1	62.8	69.6	51.4	60.5	83	37	51	51	51	79	58	67	.390	.383	.390	.95	.39	.0	4.5	4.3	3.1	4.5
October	29.26	29.62	28.85	47.5	52.4	51.4	56.6	44.1	50.4	70	33	43	42	43	84	71	75	.286	.287	.291	4.29	1.31	T	7.8	7.9	7.1	7.7
November	29.45	30.11	28.85	32.4	38.5	37.4	41.9	28.1	35.0	58	12	28	30	30	83	70	74	.158	.174	.176	2.05	.93	2.6	7.0	8.0	5.6	7.6
December	29.36	29.95	28.68	28.3	30.2	29.5	34.8	22.9	28.8	58	−1	25	25	25	87	82	84	.146	.149	.146	2.83	.93	11.4	8.3	8.3	7.3	8.8
Year	29.31	30.11	28.33	45.4	50.5	49.7	54.8	39.9	47.4	90	−1	40	40	40	81	70	72	.286	.293	.290	26.84	1.90	50.7	6.6	6.7	5.9	6.8

GRAND JUNCTION, COLO.

[ϕ=39°04′ N.; λ=108°34′ W.]

January	25.39	25.92	24.58	15.1	27.1	25.4	31.4	12.1	21.8	44	−1	13	14	17	90	56	68	0.075	0.081	0.092	0.31	0.10	3.7	5.4	5.3	4.8	5.5
February	25.36	25.78	24.89	29.8	42.9	42.1	47.6	26.9	37.2	65	6	24	24	27	79	49	58	.131	.132	.149	.54	.18	2.4	4.1	5.0	4.5	4.5
March	25.34	25.78	24.76	32.4	46.5	47.9	52.4	29.4	40.9	70	16	22	19	19	64	34	32	.120	.105	.103	.76	.28	2.2	3.9	5.8	5.9	5.6
April	25.29	25.69	24.70	42.9	58.8	61.4	65.4	40.4	52.9	79	31	26	23	22	55	29	26	.142	.125	.120	1.24	.88	.9	5.3	4.7	5.4	5.3
May	25.31	25.57	25.04	53.4	71.1	72.6	76.7	50.6	63.6	90	38	31	26	24	46	20	18	.177	.146	.137	.16	.11	.0	3.1	3.4	4.5	3.9
June	25.30	25.49	25.02	58.1	77.6	80.8	84.0	55.7	69.8	97	40	38	35	32	50	23	19	.235	.207	.191	.45	.21	.0	2.5	4.0	5.1	3.7
July	25.38	25.69	25.01	66.6	84.1	86.0	90.9	64.3	77.6	102	53	47	46	44	53	32	28	.341	.329	.306	1.85	.63	.0	3.9	4.5	5.0	4.5
August	25.36	25.57	25.02	64.2	82.0	84.6	88.8	63.2	76.0	97	46	47	46	44	56	32	29	.328	.320	.304	1.09	.75	.0	3.1	2.7	4.3	3.2
September	25.44	25.66	25.10	53.9	76.3	78.4	82.0	52.5	67.2	89	46	35	34	35	51	24	24	.207	.201	.212	.11	.10	.0	1.2	1.9	1.9	1.8
October	25.40	25.74	24.80	40.8	60.8	59.8	66.4	37.6	52.0	82	25	28	27	26	60	29	30	.153	.148	.145	.17	.13	T	2.3	3.0	3.0	2.8
November	25.54	25.78	25.17	28.5	47.6	46.1	53.2	25.4	39.3	61	15	19	20	19	66	34	34	.104	.111	.106	T	T	T	2.0	2.7	4.7	4.0
December	25.41	25.85	24.88	18.4	28.2	26.6	31.9	12.7	22.3	51	0	16	17	19	90	63	72	.094	.097	.103	.89	.22	8.0	5.1	5.9	5.3	6.0
Year	25.38	25.92	24.58	42.0	58.6	59.3	64.2	39.2	51.7	102	−1	29	28	27	63	35	36	.176	.167	.164	7.67	.88	17.2	3.5	4.1	4.5	4.2

GRAND RAPIDS, MICH.

[ϕ=42°58′ N.; λ=85°40′ W.]

January	29.25	29.91	28.63	33.7	35.0	35.0	38.8	29.5	34.2	58	5	30	29	29	84	78	79	0.170	0.163	0.164	3.07	0.96	3.1	9.3	9.0	8.4	9.0
February	29.20	29.91	28.28	27.8	34.0	33.3	39.3	24.3	31.5	64	13	22	25	25	79	68	71	.129	.143	.142	1.16	.33	5.2	7.7	8.0	7.2	7.6
March	29.15	29.60	28.60	25.8	31.4	28.7	34.4	22.5	28.4	59	7	20	22	21	79	67	73	.113	.123	.117	2.37	.89	25.3	7.5	9.1	7.8	8.2
April	29.24	29.69	28.82	38.8	50.9	48.0	54.7	35.2	45.0	78	23	28	29	29	67	45	50	.160	.163	.163	.98	.36	.3	6.5	5.8	5.3	5.9
May	29.25	29.65	28.95	54.9	64.2	63.4	69.6	49.2	59.4	88	34	44	44	44	68	53	53	.301	.313	.306	4.95	1.70	.0	6.1	6.3	6.7	6.5
June	29.15	29.43	28.67	66.3	77.3	74.7	81.0	60.0	70.5	88	46	56	55	55	71	48	53	.465	.456	.461	2.27	.74	.0	6.0	6.1	5.4	5.5
July	29.15	29.42	28.66	67.5	79.4	77.5	83.3	62.7	73.0	96	55	56	57	57	72	48	51	.491	.478	.475	4.15	2.03	.0	4.6	5.5	4.4	4.6
August	29.22	29.51	28.93	67.1	79.7	76.0	83.3	62.2	72.8	96	50	58	57	56	74	48	52	.499	.481	.463	2.22	1.01	.0	3.5	6.2	5.0	5.2
September	29.32	29.62	28.99	56.4	69.3	64.9	72.8	52.7	62.8	89	39	50	48	49	79	50	58	.369	.369	.358	.91	.35	.0	3.9	5.8	3.8	4.9
October	29.17	29.54	28.79	47.6	54.6	51.9	59.1	44.0	51.6	77	33	42	41	42	82	63	70	.282	.276	.278	4.99	1.40	.3	7.1	8.2	7.9	7.9
November	29.36	30.01	28.78	32.2	39.4	37.4	43.0	30.0	36.5	64	17	26	28	27	75	63	66	.145	.161	.157	1.82	.89	4.9	6.1	7.8	6.4	7.3
December	29.27	29.84	28.60	27.9	31.7	29.7	36.0	22.8	29.4	58	0	23	24	24	83	72	78	.139	.143	.141	2.68	1.02	6.8	7.8	8.5	6.6	8.0
Year	29.23	30.01	28.28	45.5	53.9	51.7	57.9	41.3	49.6	96	0	38	38	38	76	64	69	.272	.272	.269	31.37	2.03	45.9	6.3	7.2	6.3	6.7

Annual meteorological summaries for the year ending December 31, 1932—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	11.7	SE.	27	N.	0	12	4	11	18	5	0	4	7	1	7	10	14	13	10	0	0	0	5	0	0	0	0	4	0
February	10.0	SE.	34	NW.	1	5	6	7	13	14	3	5	5	0	6	9	14	6	6	0	0	0	6	0	0	0	0	3	0
March	11.4	SE.	38	N.	3	11	2	3	19	12	3	2	10	0	12	9	10	8	7	2	2	0	1	1	0	0	3	2	0
April	9.7	SE.	32	NW.	1	3	1	5	28	16	0	1	6	0	13	10	7	4	3	0	0	0	0	0	0	0	0	3	0
May	9.5	SE.	27	NW.	0	9	2	2	28	11	3	2	5	0	12	17	2	3	2	0	0	0	1	0	0	0	0	3	0
June	10.5	SE.	35	SE.	1	2	1	3	25	23	3	2	1	0	15	10	5	7	7	0	0	0	0	0	0	1	0	5	0
July	10.3	S.	35	NW.	1	2	0	1	17	27	6	5	4	0	18	12	1	8	7	0	0	0	1	0	0	7	0	6	0
August	10.7	SE.	59	SE.	2	0	4	3	23	26	2	0	3	1	12	15	4	7	7	0	0	0	0	0	0	5	0	8	0
September	8.9	NE.	27	NE.	0	13	15	9	11	9	3	0	0	0	13	8	9	8	6	0	0	0	0	0	0	3	0	6	0
October	10.3	SE.	30	NW.	0	10	9	9	14	9	2	2	7	0	21	7	3	6	2	0	0	0	2	0	0	0	0	1	0
November	11.3	N.	30	NW.	0	6	11	7	8	9	2	1	16	0	19	7	4	6	5	0	0	0	0	0	0	0	0	0	0
December	11.5	N.	34	NW.	1	19	6	8	14	5	1	0	9	0	7	3	21	21	17	0	0	0	10	0	0	0	3	2	0
Year	10.5	SE.	59	SE.	10	92	61	68	218	166	28	24	73	2	155	117	94	97	79	2	2	0	26	1	0	16	6	43	0

GRAND HAVEN, MICH.

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

January	12.7	W.	32	SW.	2	3	6	5	8	4	15	17	4	0	2	1	28	17	15	12	7	0	3	1	7	0	23	0	0
February	13.4	NW.	41	W.	6	6	5	3	12	3	10	9	10	0	1	5	23	9	6	17	5	0	4	1	7	0	25	2	0
March	12.4	W.	35	W.	3	11	6	7	8	4	1	16	9	0	1	5	25	16	14	20	13	0	4	0	13	0	29	0	1
April	11.6	E.	27	NW.	0	9	10	15	7	1	6	7	5	0	10	7	13	8	5	4	1	0	4	2	0	0	16	2	0
May	10.2	SW.	27	W.	0	4	7	6	4	17	15	5	4	0	9	7	15	13	11	0	0	0	4	1	0	0	0	6	2
June	8.3	W.	24	NW.	0	6	3	9	10	7	10	9	6	0	9	12	9	5	2	0	0	0	2	0	0	0	0	2	0
July	10.2	SW.	32	W.	1	6	6	2	4	14	13	8	9	0	13	12	6	8	5	0	0	0	0	0	0	0	0	6	0
August	9.6	SW.	30	W.	0	4	3	4	12	13	15	6	5	0	12	10	9	8	6	0	0	0	0	0	0	0	0	7	0
September	9.2	NW.	27	NW.	0	15	6	7	7	6	6	6	7	0	13	10	7	7	5	0	0	0	1	0	0	0	0	1	0
October	12.0	NE.	37	W.	2	8	10	11	7	4	7	6	9	0	3	8	20	15	11	3	1	1	2	0	0	0	0	2	0
November	12.6	SE.	31	SW.	0	4	9	3	15	6	12	5	6	0	5	7	18	11	10	6	4	0	1	1	3	0	20	1	0
December	13.6	SW.	32	SW.	2	5	2	5	12	6	17	11	4	0	2	2	27	19	9	16	13	0	4	0	12	0	25	1	0
Year	11.3	SW.	41	W.	16	81	73	77	106	85	127	105	78	0	80	86	200	136	99	78	44	1	29	6	42	0	138	30	3

GRAND JUNCTION, COLO.

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

January	4.9	NW.	28	SW.	0	13	2	2	8	3	1	2	31	0	9	13	9	7	3	16	7	0	7	3	21	0	31	0	0
February	5.9	NW.	21	W.	0	19	2	2	12	4	0	3	16	0	13	10	6	9	7	6	5	0	2	2	3	0	28	1	0
March	6.6	NW.	33	SW.	1	13	5	1	8	3	7	6	19	0	7	14	10	10	7	8	6	0	0	0	0	0	20	1	0
April	7.9	SE.	35	SW.	1	13	4	3	21	9	0	2	8	0	10	9	11	7	3	1	1	0	0	0	0	0	2	1	0
May	8.0	SE.	27	SW.	0	7	5	4	19	9	5	4	9	0	16	12	3	3	1	0	0	0	0	0	0	0	0	1	1
June	7.3	SE.	40	SE.	1	11	2	9	20	3	5	3	7	0	13	16	1	6	4	0	0	0	0	0	0	11	0	9	0
July	7.0	SE.	30	S.	0	8	4	8	18	12	3	4	4	1	10	15	6	12	7	0	0	0	0	0	0	22	0	13	0
August	6.7	SE.	23	W.	0	16	4	5	25	5	1	2	3	1	19	8	4	6	3	0	0	0	0	0	0	17	0	10	0
September	6.0	SE.	18	W.	0	18	1	3	20	6	1	5	5	1	24	4	2	2	2	0	0	0	0	0	0	0	0	2	0
October	5.9	N.	27	S.	0	23	3	2	12	4	2	1	15	0	20	7	4	3	1	2	0	0	0	0	0	0	8	0	0
November	4.8	N.	18	NW.	0	12	7	4	9	4	2	6	14	2	15	9	6	0	0	2	0	0	0	0	0	0	26	0	0
December	5.0	NW.	28	SW.	0	9	2	5	11	8	3	3	17	4	8	10	13	14	7	16	12	0	7	3	19	0	29	0	0
Year	6.3	SE.	40	SE.	3	162	41	48	183	70	30	41	148	9	164	127	75	79	45	51	31	0	16	8	43	50	141	38	1

GRAND RAPIDS, MICH.

[H_b=707 ft.; h_t=70 ft.; h_r=70 ft.; h_a=244 ft.]

January	12.9	W.	40	SW.	6	1	3	7	8	7	15	19	2	0	2	1	28	16	13	20	6	0	24	1	6	0	20	2	0
February	13.4	SW.	51	SW.	3	6	3	5	8	7	11	9	9	0	2	10	17	11	8	21	7	0	17	1	7	0	23	2	0
March	12.0	W.	35	SW.	2	4	7	6	6	6	5	19	9	0	2	7	22	14	13	22	11	0	24	0	11	0	29	0	2
April	12.6	E.	35	SW.	2	6	10	14	6	3	4	9	8	0	11	5	14	9	7	6	3	0	13	0	1	0	13	1	1
May	10.9	SW.	34	SW.	1	4	9	5	1	11	19	9	4	0	8	8	15	11	9	0	0	1	14	0	0	0	0	5	2
June	9.3	SE.	43	SW.	1	5	7	10	12	3	8	12	3	0	8	12	10	12	8	0	0	1	21	0	0	0	0	9	0
July	10.9	SW.	31	W.	0	12	3	3	4	9	15	10	6	0	11	16	4	6	6	0	0	0	11	0	0	9	0	7	0
August	9.8	SW.	30	NW.	0	6	5	4	6	10	15	10	6	0	10	14	7	9	6	0	0	0	14	0	0	4	0	7	1
September	10.2	N.	37	SW.	1	9	7	10	5	9	10	2	8	0	9	13	8	7	4	0	0	1	16	0	0	0	0	3	1
October	12.6	SW.	35	SW.	2	5	8	11	5	8	12	3	10	0	3	5	23	13	9	5	1	1	14	1	0	0	0	2	0
November	12.7	S.	29	W.	0	4	7	4	12	14	11	3	5	0	5	6	19	11	7	11	5	0	5	1	2	0	18	2	0
December	13.8	SW.	46	SW.	4	5	3	5	2	18	14	8	7	0	3	7	21	15	9	19	10	0	17	1	12	0	28	0	0
Year	11.8	SW.	51	SW.	22	67	72	84	75	105	139	113	77	0	74	104	188	134	99	104	43	4	190	5	38	13	126	40	7

Annual meteorological summaries for the year ending December 31, 1932—Continued

GREEN BAY, WIS.

[ϕ=44°31′ N.; λ=88°00′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.33	30.04	28.66	24.7	27.7	27.0	31.5	19.9	25.7	46	−11	21	21	21	85	76	78	0.125	0.127	0.126	2.15	0.60	12.3	7.6	7.7	7.3	7.8
February	29.28	30.04	28.16	19.0	26.0	26.9	32.1	14.5	23.3	52	0	13	16	19	76	64	70	.091	.103	.113	1.23	.64	7.1	5.4	6.1	5.4	6.3
March	29.25	29.72	28.71	20.4	26.0	27.2	31.5	17.4	24.4	53	−5	13	15	15	71	61	60	.091	.095	.096	.95	.41	10.0	6.7	7.5	6.2	7.0
April	29.37	29.78	28.96	36.3	44.7	45.2	49.8	33.8	41.8	68	21	28	29	28	72	55	55	.158	.166	.160	1.28	.72	4.1	5.6	5.8	6.5	6.0
May	29.34	29.75	28.94	50.7	60.3	59.2	65.3	40.5	55.9	86	35	43	43	44	76	56	61	.286	.283	.305	2.79	1.24	.0	6.7	7.6	6.6	6.9
June	29.24	29.53	28.73	63.0	74.0	73.5	79.1	57.9	68.5	86	45	56	56	56	76	56	57	.450	.465	.467	1.76	.90	.0	5.3	5.5	6.0	5.6
July	29.24	29.56	28.71	65.5	77.3	76.8	82.3	60.7	71.5	97	49	57	56	57	76	50	52	.482	.464	.474	2.21	1.01	.0	4.6	5.4	4.5	5.4
August	29.29	29.64	29.02	63.8	77.0	75.6	81.0	60.8	70.9	93	49	58	57	58	83	53	57	.501	.486	.504	1.26	.48	.0	5.1	6.3	5.0	5.6
September	29.41	29.74	29.01	52.6	67.0	65.1	71.6	49.5	60.6	89	36	47	44	46	80	45	52	.331	.303	.320	1.21	.79	.0	3.3	4.3	3.6	3.8
October	29.28	29.68	28.71	42.5	50.4	48.3	54.6	39.5	47.0	81	27	36	38	38	78	64	71	.223	.234	.242	1.58	.56	T	7.8	8.1	6.7	8.1
November	29.44	30.08	28.81	27.6	34.9	33.9	38.9	24.7	31.8	58	10	21	23	23	76	60	64	.121	.131	.134	1.01	.75	.7	6.5	7.4	6.8	7.2
December	29.34	29.96	28.52	19.1	24.5	22.9	29.0	14.7	21.8	53	−15	12	14	14	73	63	69	.097	.103	.104	2.04	.93	6.6	6.2	6.3	3.7	5.9
Year	29.32	30.08	28.16	40.5	49.2	48.5	53.9	36.7	45.3	97	15	34	34	35	77	59	62	.246	.247	.254	19.47	1.24	40.8	5.9	6.5	5.7	6.3

GREENSBORO, N.C.

[ϕ=36°05′ N.; λ=79°57′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.22	29.62	28.65	42.4	52.4	47.2	57.1	38.1	47.6	72	23	40	41	41	90	68	79	0.266	0.281	0.276	4.28	1.47	0.0	6.2	6.4	4.7	6.4
February	29.10	29.71	28.61	40.5	53.0	48.2	57.3	36.8	47.0	78	26	35	35	38	80	55	70	.219	.226	.241	2.58	.62	.0	6.7	5.9	4.6	6.4
March	28.95	29.36	27.99	38.6	50.2	46.0	56.0	31.9	44.0	76	15	30	30	31	70	49	57	.186	.183	.186	6.26	3.07	1.7	6.0	5.1	3.7	5.3
April	29.04	29.48	28.62	50.4	63.6	58.8	68.6	43.6	56.1	82	31	40	38	43	70	43	60	.263	.245	.294	1.81	.80	.0	5.2	5.7	4.9	5.3
May	29.12	29.38	28.83	61.0	72.2	65.8	75.3	53.4	64.4	89	39	54	52	53	78	52	67	.422	.397	.414	2.58	.82	.0	5.0	4.6	4.6	4.9
June	29.01	29.30	28.67	71.0	80.6	75.7	85.0	63.8	74.4	92	52	64	62	64	79	56	70	.607	.576	.614	6.36	4.13	.0	6.3	5.7	5.8	6.0
July	29.02	29.26	28.64	74.2	86.1	78.1	89.6	65.8	77.7	99	52	66	64	67	77	50	71	.650	.614	.677	3.66	1.12	.0	5.3	6.0	5.1	5.4
August	29.09	29.33	28.88	71.2	83.8	77.0	87.8	64.3	76.0	101	54	64	62	64	80	50	67	.613	.559	.615	1.40	.64	.0	5.2	5.0	4.8	4.9
September	29.15	29.49	28.85	64.3	76.0	68.5	79.3	59.6	69.4	99	46	58	57	60	81	56	76	.505	.500	.532	3.83	1.03	.0	5.8	5.5	5.2	5.4
October	29.10	29.44	28.61	52.3	66.2	57.8	69.5	47.8	58.6	78	32	46	49	52	90	57	83	.372	.376	.410	7.78	4.79	.0	4.8	4.3	3.7	4.6
November	29.23	29.74	28.65	37.5	51.1	43.8	54.7	33.8	44.2	66	18	34	38	37	86	62	78	.216	.247	.242	3.73	1.01	.0	4.4	4.9	4.1	4.7
December	29.24	29.61	28.72	35.7	48.0	41.5	52.0	32.3	42.2	67	14	33	36	36	88	68	81	.204	.230	.227	5.89	2.00	4.5	5.6	6.5	6.0	6.6
Year	29.11	29.74	27.99	53.3	65.3	59.0	69.4	47.6	58.5	101	14	47	47	49	81	56	72	.377	.370	.394	50.16	4.79	6.2	5.5	5.5	4.8	5.5

GREENVILLE, S.C.

[ϕ=34°50′ N.; λ=82°24′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.07	29.47	28.52	46.3	54.0	53.1	59.3	43.5	51.4	72	30	40	42	42	82	66	68	0.275	0.292	0.289	6.82	2.46	0.0	4.6	5.6	5.4	5.6
February	28.96	29.50	28.52	46.9	55.8	54.9	61.3	43.9	52.6	77	33	38	39	40	72	58	60	.243	.258	.259	3.74	.99	.0	5.5	5.1	5.1	5.2
March	28.82	29.21	28.03	43.3	54.3	51.3	59.6	39.6	49.6	77	17	31	30	31	62	43	49	.192	.191	.199	5.41	2.16	T	4.7	4.0	3.7	4.3
April	28.89	29.24	28.50	54.6	65.5	63.6	71.0	51.6	61.3	84	40	43	44	44	67	50	54	.290	.308	.307	2.68	1.00	.0	5.2	5.7	5.4	5.5
May	28.97	29.21	28.59	62.5	73.1	69.8	77.4	58.5	68.0	88	48	54	54	52	74	54	58	.425	.430	.406	2.02	.74	.0	4.8	4.6	4.4	4.7
June	28.87	29.15	28.54	71.7	81.5	77.0	85.3	67.2	76.2	95	62	65	65	66	80	59	70	.618	.621	.640	4.96	1.55	.0	5.9	5.6	6.6	6.0
July	28.89	29.11	28.55	76.5	87.1	82.8	91.9	71.7	81.8	100	60	67	66	66	74	51	60	.668	.634	.653	3.18	1.19	.0	4.5	4.4	4.9	4.5
August	28.95	29.17	28.77	72.7	84.9	77.9	86.7	69.4	77.6	97	64	67	67	67	83	62	71	.666	.665	.661	2.97	1.46	.0	4.6	5.0	5.0	5.1
September	28.99	29.29	28.75	66.6	76.0	73.1	79.9	64.2	72.0	95	54	59	58	58	78	57	62	.516	.498	.498	2.79	.91	.0	5.8	5.9	4.3	5.4
October	28.94	29.27	28.46	57.2	67.8	63.4	71.2	53.6	62.4	81	40	49	51	51	75	57	67	.364	.394	.395	12.68	7.26	.0	4.4	4.1	3.8	4.2
November	29.06	29.52	28.56	43.1	53.3	49.1	57.3	39.8	48.6	70	25	36	38	37	77	58	64	.239	.248	.239	3.78	1.32	.0	4.3	3.9	3.5	4.1
December	29.08	29.44	28.60	42.9	49.1	46.9	53.2	39.6	46.4	67	19	37	40	40	83	76	78	.238	.269	.261	10.86	3.85	T	6.3	6.5	6.4	7.3
Year	28.96	29.52	28.03	57.0	66.6	63.6	71.1	53.6	62.3	100	17	49	49	50	76	58	63	.394	.401	.401	61.89	7.26	T	5.0	5.0	4.9	5.2

HANNIBAL, MO.

[ϕ=39°41′ N.; λ=91°20′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.51	30.17	28.86	32.1	36.8	.....	42.0	29.0	35.5	63	5	26	27	...	78	68	...	0.151	0.157	.....	1.53	0.50	0.2	7.4	7.6	.....	7.5
February	29.47	30.05	28.60	33.5	43.4	.....	50.6	31.2	40.9	78	15	29	30	...	82	61	...	.168	.180	.....	1.19	.74	2.1	5.1	5.7	.....	5.8
March	29.42	29.93	28.76	29.6	37.2	.....	43.6	27.3	35.4	75	6	23	23	...	75	57	...	.136	.136	.....	1.68	.56	3.0	6.1	6.2	.....	5.8
April	29.40	29.85	28.90	47.8	60.6	.....	66.0	45.7	55.8	83	32	40	39	...	75	48	...	.265	.263	.....	2.20	1.55	.0	5.9	6.1	.....	6.0
May	29.46	29.80	29.15	59.3	72.8	.....	77.3	55.5	66.4	90	38	49	47	...	71	42	...	.364	.337	.....	1.68	.79	.0	3.5	4.8	.....	3.9
June	29.33	29.55	29.10	69.3	80.5	.....	84.6	65.5	75.0	94	57	63	64	...	81	59	...	.580	.602	.....	6.71	1.68	.0	5.3	5.7	.....	5.2
July	29.39	29.65	28.95	73.7	84.6	.....	89.1	69.0	79.0	100	57	65	63	...	74	50	...	.618	.592	.....	2.48	2.16	.0	4.3	4.9	.....	4.1
August	29.40	29.65	29.16	69.3	80.8	.....	84.3	66.5	75.4	94	55	64	64	...	84	60	...	.609	.621	.....	10.15	3.77	.0	4.7	4.5	.....	4.7
September	29.52	29.83	29.25	58.3	72.8	.....	77.0	56.0	66.5	86	42	52	51	...	82	48	...	.407	.387	.....	2.21	1.27	.0	4.0	4.4	.....	3.8
October	29.42	29.75	29.07	46.6	60.3	.....	65.2	44.2	54.7	82	30	40	41	...	78	51	...	.254	.271	.....	1.90	.82	.0	4.3	5.4	.....	4.8
November	29.60	30.14	28.98	30.8	42.3	.....	47.6	28.4	38.0	66	12	25	26	...	78	54	...	.140	.150	.....	1.08	.50	5.0	3.8	6.0	.....	5.2
December	29.54	30.15	28.68	25.9	32.2	.....	37.7	21.0	29.4	65	−12	19	22	...	74	68	...	.128	.142	.....	4.70	2.67	9.5	5.1	5.3	.....	5.5
Year	29.46	30.17	28.60	48.0	58.7	.....	63.8	44.9	54.3	100	−12	41	41	...	78	56	...	.318	.320	.....	38.51	3.77	22.8	5.0	5.6	.....	5.2

Annual meteorological summaries for the year ending December 31, 1932—Continued

GREEN BAY, WIS.

[H_b=617 ft.; h_t=109 ft.; h_r=101 ft.; h_a=141 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.8	SW.	30	S.	0	8	3	3	1	11	22	13	0	1	4	7	20	17	12	17	12	0	10	3	13	0	29	0	0
February	10.8	SW.	38	SW.	1	3	4	3	4	10	16	13	5	0	8	6	15	9	6	12	8	0	9	5	16	0	27	0	0
March	11.4	W.	32	W.	1	3	8	6	2	4	5	22	12	0	6	8	17	10	5	15	8	0	4	0	14	0	30	0	0
April	11.5	NE.	31	NE.	0	11	20	4	6	5	3	2	9	0	13	3	14	8	6	6	4	0	3	0	1	0	11	3	0
May	11.4	S.	31	W.	0	10	7	6	7	11	13	4	4	0	4	12	15	8	7	9	9	0	9	1	0	0	0	7	2
June	8.3	SE.	27	S.	0	4	11	9	11	8	3	7	6	1	8	11	11	8	5	0	0	0	6	1	0	0	0	4	1
July	10.4	SW.	32	NW.	1	7	3	5	5	6	14	8	13	1	9	11	11	11	8	9	9	0	3	1	0	5	0	7	0
August	9.5	S.	26	SW.	0	8	3	1	5	18	12	9	6	0	8	13	10	9	6	0	0	0	7	1	0	2	0	7	2
September	9.8	S.	33	SW.	1	6	0	1	12	6	17	11	6	1	17	8	5	7	6	0	0	0	7	1	0	0	0	3	1
October	11.5	SW.	32	NW.	1	9	1	5	5	8	17	5	9	0	4	4	23	13	8	2	1	1	7	1	0	0	8	1	0
November	11.3	S.	27	S.	0	5	4	4	1	18	13	10	5	0	5	6	19	6	5	11	2	0	2	1	8	0	22	0	1
December	11.6	SW.	30	NW.	0	5	4	0	1	11	22	11	7	1	13	2	16	8	5	13	5	0	7	1	15	0	27	1	0
Year	10.7	SW.	38	SW.	5	79	71	47	60	116	157	115	82	5	99	91	176	114	79	76	40	2	74	16	67	7	154	33	7

GREENSBORO, N.C.

[H_b=886 ft.; h_t=6 ft.; h_r=3 ft.; h_a=56 ft.]

January	8.3	SW.	36	W.	1	7	9	7	2	4	18	6	9	0	9	7	15	14	11	0	0	0	18	7	0	0	11	1	0
February	8.4	SW.	31	NW.	0	9	7	3	1	7	18	4	9	0	8	6	15	11	7	0	0	0	9	4	0	0	8	2	0
March	10.4	NW.	42	SW.	3	10	7	4	0	7	9	11	13	1	12	9	10	10	8	6	2	0	4	1	0	0	12	3	0
April	8.5	W.	26	W.	0	8	10	5	2	5	15	10	5	0	9	11	10	9	6	0	0	0	4	2	0	0	1	4	0
May	7.9	SW.	25	NW.	0	12	11	2	3	11	14	5	4	0	12	9	10	9	8	0	0	0	8	3	0	0	0	7	0
June	7.1	SW.	28	W.	0	3	7	6	5	14	11	8	5	1	5	15	10	9	7	0	0	0	7	1	0	0	0	10	0
July	6.9	SW.	40	N.	2	9	8	4	3	6	15	10	6	1	7	19	5	11	10	0	0	0	5	1	0	16	0	11	0
August	6.5	SW.	19	SE.	0	7	12	3	4	11	14	9	0	2	11	12	8	7	4	0	0	0	7	0	0	7	0	4	0
September	7.0	NE.	25	NW.	0	8	19	5	5	5	5	6	6	1	9	10	11	10	8	0	0	0	8	1	0	2	0	5	0
October	7.3	SW.	24	S.	0	8	11	5	0	10	14	7	5	2	15	6	10	9	7	0	0	0	15	3	0	0	0	0	0
November	8.2	NE.	30	NE.	0	8	20	5	0	7	4	6	9	1	15	3	12	11	8	0	0	0	8	0	0	0	13	0	0
December	7.4	SW.	26	SW.	0	12	13	2	1	7	14	12	1	0	8	5	18	12	11	2	2	0	16	10	2	0	14	0	0
Year	7.8	SW.	42	SW.	6	101	134	51	26	94	151	94	72	9	120	112	134	122	95	8	4	0	107	33	2	32	59	47	0

GREENVILLE, S.C.

[H_b=1,039 ft.; h_t=139 ft.; h_r=131 ft.; h_a=146 ft.]

January	8.6	NE.	30	S.	0	8	16	4	2	7	16	6	3	0	11	8	12	14	12	0	0	0	10	6	0	0	1	1	0
February	9.1	NE.	32	SW.	1	10	18	2	1	7	8	8	4	0	12	5	12	11	10	0	0	0	4	2	0	0	0	1	0
March	10.1	SW.	49	SW.	3	9	14	0	2	12	12	3	9	1	16	5	10	10	9	3	1	0	3	0	0	0	0	3	0
April	9.2	NE.	34	W.	1	7	16	7	3	11	4	8	4	0	8	10	12	9	6	0	0	0	2	0	0	0	0	5	0
May	8.6	S.	25	NE.	0	8	21	4	0	18	1	5	5	0	13	11	7	12	10	0	0	0	3	1	0	0	0	3	0
June	7.3	NE.	25	S.	0	12	14	6	2	4	14	5	3	0	4	18	8	15	10	0	0	0	4	0	0	7	0	15	0
July	7.9	SW.	30	W.	0	13	7	4	2	3	15	10	8	0	11	16	4	10	7	0	0	0	4	0	0	7	0	12	0
August	7.0	NE.	29	SW.	0	4	14	9	6	8	6	8	7	0	13	7	11	11	9	0	0	0	3	1	0	8	0	8	0
September	7.9	NE.	24	NE.	0	6	29	7	4	7	3	2	2	0	10	9	11	11	8	0	0	0	5	0	0	4	0	1	0
October	7.9	NE.	28	NE.	0	17	17	1	3	11	7	4	2	0	18	3	10	7	7	0	0	0	5	0	0	4	0	0	0
November	9.6	NE.	28	NE.	0	4	32	4	1	3	7	4	4	1	16	4	10	11	8	0	0	0	8	1	0	0	5	0	0
December	8.3	NE.	28	SW.	0	3	25	4	1	3	13	5	6	2	6	6	19	17	13	2	0	0	14	9	1	0	5	0	0
Year	8.5	NE.	49	SW.	5	101	223	52	27	94	106	68	57	4	138	102	126	138	109	5	1	1	64	20	1	40	20	52	0

HANNIBAL, MO.

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

January	9.5	SW.	24	W.	0	3	2	2	2	3	7	5	7	0	5	6	20	10	7	6	2	0	0	0	4	0	19	1	0
February	9.1	SW.	34	W.	1	3	3	1	3	1	10	2	6	0	9	10	10	5	5	3	2	1	1	0	1	0	17	2	0
March	11.0	NW.	32	SW.	1	4	5	1	2	6	1	11	0	0	8	10	13	9	8	8	2	1	0	0	7	0	19	1	0
April	9.9	E.	30	SW.	0	6	5	4	5	0	4	2	4	0	8	10	12	9	7	0	0	0	0	0	0	0	1	3	0
May	8.8	SW.	24	NW.	0	1	4	1	2	3	12	0	8	0	18	5	8	8	5	0	0	0	0	0	0	0	2	0	1
June	8.8	SW.	27	SW.	0	2	3	4	2	3	9	5	2	0	9	15	6	12	11	0	0	0	2	1	0	0	6	0	1
July	6.9	SW.	28	SW.	0	4	1	5	2	3	9	2	4	1	14	9	8	10	9	0	0	0	2	0	0	0	11	0	1
August	7.8	SW.	28	SW.	0	4	1	6	5	2	9	4	3	0	13	11	7	11	9	0	0	0	2	2	0	0	6	0	0
September	7.4	SW.	24	NE.	0	2	0	4	1	3	4	6	4	0	16	8	6	5	4	0	0	0	0	0	0	0	9	0	0
October	7.0	N.	27	W.	0	4	4	4	1	1	1	14	3	3	14	7	10	8	5	0	0	0	2	1	0	0	1	0	0
November	9.5	SW.	27	S.	0	5	1	1	3	3	3	11	4	2	10	11	9	5	5	5	2	0	3	2	2	0	21	0	0
December	9.2	SW.	24	SW.	0	5	1	1	1	3	3	11	6	3	11	7	13	9	7	6	4	0	2	1	13	0	23	1	0
Year	8.8	SW.	34	SW.	3	41	33	32	28	27	106	40	57	2	135	109	122	101	82	28	12	4	12	7	27	29	101	45	1

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.72	30.17	29.07	39.8	43.9	43.7	48.6	36.4	42.5	73	20	33	33	33	76	67	68	0.196	0.200	0.201	4.00	1.53	T	8.0	7.5	7.5	7.5
February	29.60	30.26	29.17	32.4	39.6	40.3	45.7	30.3	38.0	64	20	25	24	25	73	55	54	.143	.138	.142	1.35	.71	1.6	6.3	5.6	4.9	6.0
March	29.44	29.89	28.46	31.5	37.2	37.8	43.5	28.5	36.0	68	12	23	23	23	69	57	56	.132	.137	.133	5.80	2.18	10.7	5.8	5.9	6.0	6.0
April	29.55	30.12	29.02	44.5	53.8	52.8	59.1	39.7	49.4	77	29	33	34	32	66	50	50	.198	.201	.187	1.14	.59	T	4.7	5.4	5.5	5.2
May	29.64	30.02	29.37	56.6	66.1	65.8	72.0	51.8	61.9	89	41	46	45	47	68	50	53	.321	.327	.343	3.87	1.53	.0	5.5	4.8	4.7	5.0
June	29.51	29.82	29.15	66.4	75.6	73.4	80.3	61.4	70.8	92	45	56	56	57	71	54	61	.472	.477	.497	3.31	.94	.0	6.2	6.0	5.7	5.6
July	29.47	29.73	28.98	70.0	79.3	77.3	84.6	65.2	74.9	95	57	60	58	58	71	50	54	.523	.494	.496	2.46	.79	.0	4.4	4.9	5.2	4.5
August	29.58	29.88	29.33	69.7	81.6	78.9	86.3	64.9	75.6	98	55	60	56	58	72	45	51	.523	.473	.500	1.09	.65	.0	3.3	4.2	3.4	3.6
September	29.67	30.09	29.25	61.9	73.2	71.1	78.3	58.3	68.3	98	41	53	51	51	74	48	51	.433	.404	.406	1.08	.67	.0	4.4	4.3	3.4	4.3
October	29.63	30.01	29.28	51.1	58.9	57.1	62.8	47.7	55.2	81	35	44	44	46	79	60	68	.308	.307	.329	8.96	3.06	.0	6.4	6.4	6.1	6.9
November	29.80	30.40	29.06	37.3	44.6	42.8	48.9	33.4	41.2	62	17	29	30	31	73	57	63	.177	.178	.186	4.88	1.88	T	5.8	5.2	4.5	5.6
December	29.77	30.22	29.07	31.4	38.1	36.1	42.5	27.5	35.0	66	8	24	26	27	76	65	71	.143	.152	.158	1.83	.63	8.7	5.7	6.3	5.8	7.2
Year	29.62	30.40	28.46	49.4	57.7	56.4	62.7	45.4	54.1	98	8	40	40	41	72	55	58	.297	.291	.298	39.77	3.06	21.0	5.5	5.5	5.2	5.6

HARTFORD, CONN.

[ϕ=41°46′ N.; λ=72°40′ W.]

January	29.95	30.44	29.26			38.6	43.7	31.7	37.7	70	18			30			72			0.176	4.59	1.60	2.8			6.5	7.5
February	29.80	30.39	29.21			32.4	38.0	23.3	30.6	55	12			23			67			.131	2.17	1.11	9.4			5.5	5.8
March	29.58	30.17	28.32			35.5	41.9	27.5	34.7	56	12			22			58			.130	4.89	2.92	2.3			4.0	5.4
April	29.75	30.24	29.00			47.9	55.5	37.4	46.4	76	27			32			56			.189	1.63	.90	.1			4.7	6.0
May	29.85	30.26	29.59			60.8	70.6	49.3	60.0	87	37			44			57			.307	2.13	1.03	.0			4.5	5.1
June	29.72	30.14	29.27			68.4	77.0	57.6	67.3	89	43			56			67			.474	3.42	1.95	.0			5.9	5.9
July	29.66	29.91	29.11			73.0	81.7	62.1	71.9	88	54			60			65			.527	3.64	1.20	.0			4.4	4.4
August	29.82	30.15	29.57			72.9	81.9	62.8	72.4	90	55			61			67			.540	5.59	1.67	.0			3.3	4.1
September	29.90	30.33	29.24			64.9	74.0	54.8	64.4	90	38			54			70			.447	3.96	2.55	.0			4.4	4.2
October	29.86	30.30	29.39			55.6	63.5	47.5	55.5	79	34			47			73			.340	4.56	2.78	T			5.1	6.2
November	30.03	30.67	29.22			41.5	49.1	31.6	40.4	62	10			31			66			.187	5.96	2.44	T			3.8	5.4
December	29.98	30.49	29.22			36.0	42.7	26.7	34.7	64	−2			27			70			.161	1.88	.53	8.3			6.2	6.3
Year	29.82	30.67	28.32			52.3	60.0	42.7	51.3	90	−2			41			66			.301	44.42	2.92	22.9			4.9	5.5

HATTERAS, N.C.

[ϕ=35°15′ N.; λ=75°40′ W.]

January	30.17	30.55	29.62	55.0	60.7	56.0	62.5	50.1	56.3	72	38	50	53	50	85	75	82	0.389	0.417	0.380	4.25	2.04	0.0	7.1	6.0	4.3	6.2
February	30.03	30.65	29.46	52.6	57.2	53.3	59.8	48.1	54.0	72	39	46	48	48	80	72	84	.333	.352	.357	2.43	.92	.0	6.6	5.2	5.1	5.4
March	29.89	30.34	29.63	49.2	54.0	50.1	57.3	42.9	50.1	72	25	41	43	44	74	67	79	.288	.303	.301	4.88	3.26	T	4.9	5.3	4.1	5.1
April	29.96	30.40	29.42	58.9	63.4	58.1	65.4	52.2	58.8	73	43	50	51	52	73	66	79	.372	.390	.392	2.32	1.58	.0	4.9	5.2	4.0	4.7
May	30.03	30.28	29.66	68.0	71.6	65.7	73.3	61.6	67.4	82	48	61	62	60	78	73	83	.541	.568	.535	4.74	3.23	.0	5.0	4.5	4.6	4.9
June	29.94	30.24	29.55	77.0	80.6	74.5	81.8	71.0	76.4	89	58	70	71	69	79	73	84	.733	.766	.723	2.23	1.10	.0	5.6	5.6	6.0	5.2
July	29.91	30.16	29.51	81.0	84.8	78.3	86.3	73.9	80.1	92	67	72	73	71	74	68	79	.787	.809	.770	3.13	1.02	.0	4.8	4.2	5.7	4.5
August	30.00	30.20	29.82	80.2	84.5	78.2	85.2	73.6	79.4	92	66	72	74	71	76	70	80	.786	.834	.774	3.99	1.31	.0	5.4	4.5	4.9	4.5
September	30.03	30.37	29.36	75.3	78.9	72.8	80.0	69.1	74.6	92	60	66	67	65	74	68	77	.656	.681	.635	4.76	2.85	.0	5.2	5.3	4.7	5.1
October	30.02	30.35	29.64	67.4	72.2	66.6	73.5	61.0	67.2	93	46	60	62	59	79	72	78	.542	.569	.524	5.56	2.06	.0	5.0	4.6	3.6	4.7
November	30.12	30.60	29.59	56.4	60.7	56.6	62.9	51.8	57.4	77	42	50	53	50	80	76	79	.386	.424	.386	11.42	3.50	.0	7.1	6.2	5.0	6.8
December	30.17	30.56	29.72	51.4	57.7	53.0	60.4	47.1	53.8	73	34	48	51	49	87	79	86	.342	.391	.359	3.15	.87	T	7.6	6.3	5.2	7.0
Year	30.02	30.65	28.63	64.4	68.9	63.6	70.7	58.5	64.6	92	25	57	59	57	78	72	81	.513	.542	.511	52.86	3.50	T	5.8	5.2	4.7	5.3

HAVRE, MONT.

[ϕ=48°34′ N.; λ=109°40′ W.]

January	27.32	27.79	26.25	14.8	23.4	21.5	28.4	8.5	18.4	52	−20	10	15	15	84	72	76	0.075	0.090	0.092	0.20	0.08	3.9	4.6	5.6	6.0	5.7
February	27.24	27.76	26.56	15.0	27.0	24.5	32.3	9.0	20.6	71	−23	10	16	17	83	68	76	.080	.101	.104	.62	.34	5.1	6.4	6.2	6.7	6.0
March	27.40	28.08	26.81	16.7	26.9	26.4	31.2	12.7	22.0	62	−18	15	20	20	93	76	79	.103	.121	.122	.80	.42	9.1	7.2	6.5	8.0	6.7
April	27.28	27.76	26.77	38.7	54.5	55.3	59.1	36.3	47.7	81	28	32	30	30	76	43	42	.180	.166	.171	1.69	.54	T	5.0	6.6	6.9	6.1
May	27.39	27.69	26.89	46.4	65.1	66.9	70.3	44.2	57.2	87	30	39	36	36	76	38	34	.212	.224	.217	2.08	.93	.0	4.9	5.7	5.3	4.9
June	27.28	27.61	26.93	55.8	71.0	72.4	75.6	54.1	64.8	93	48	50	49	48	82	49	47	.365	.353	.338	5.24	1.32	.0	5.4	5.1	5.5	5.4
July	27.27	27.57	26.93	58.0	78.7	81.7	84.6	55.9	70.2	99	46	48	46	44	71	35	30	.341	.325	.305	1.07	.43	.0	3.8	3.3	3.6	3.5
August	27.30	27.53	26.86	56.1	76.4	79.4	82.2	54.9	68.6	100	44	48	47	44	78	38	32	.338	.330	.304	1.75	.51	.0	4.3	3.3	4.0	3.7
September	27.40	27.71	26.83	44.5	66.9	67.8	73.1	41.7	57.4	92	28	37	38	36	76	37	34	.222	.234	.215	.38	.32	.0	3.6	3.7	4.0	4.0
October	27.38	27.77	26.92	36.0	49.2	46.3	52.4	31.9	42.6	82	17	30	31	30	80	54	57	.167	.178	.166	.66	.25	3.4	6.4	6.9	6.6	6.8
November	27.35	27.71	26.86	27.7	37.5	33.7	42.0	21.1	31.6	60	−10	21	24	23	79	62	67	.117	.133	.126	.71	.46	9.6	5.8	6.9	7.2	6.5
December	27.31	27.97	26.65	17.8	25.2	21.7	28.7	10.9	19.8	54	−30	12	18	14	78	69	73	.082	.095	.092	.11	.06	1.6	5.9	5.8	5.6	5.5
Year	27.32	28.08	26.25	35.6	50.2	49.8	55.1	31.8	43.4	100	−30	29	31	30	79	53	54	.190	.196	.188	15.31	1.32	32.7	5.3	5.5	5.8	5.4

Annual meteorological summaries for the year ending December 31, 1932—Continued

HARRISBURG, PA.

[H_b=374 ft.; h_t=94 ft.; h_r=42 ft.; h_a=104 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.5	W.	30	W.	0	3	6	10	7	0	9	13	14	0	5	8	18	15	13	3	2	0	6	0	1	0	5	0	0
February	8.4	NW.	32	W.	1	1	8	5	8	4	4	11	17	0	7	13	9	9	6	5	1	0	6	3	1	0	17	1	0
March	10.8	NW.	32	W.	1	5	5	4	5	0	6	13	24	0	10	11	10	11	9	9	5	0	0	0	6	0	17	0	0
April	9.2	NW.	27	SW.	0	7	12	3	5	5	1	11	16	0	11	11	8	6	4	4	0	0	1	1	0	0	3	0	0
May	7.3	NE.	23	NW.	0	6	15	7	2	9	8	7	8	0	11	11	9	11	9	0	0	0	1	0	0	0	6	0	0
June	6.9	W.	28	NW.	0	3	9	6	5	6	4	23	4	0	8	12	10	11	8	0	0	0	1	0	0	3	0	5	0
July	7.5	W.	30	NE.	0	4	4	1	3	3	5	26	16	0	12	15	4	8	7	0	0	1	2	0	0	5	0	8	0
August	6.3	NW.	24	SW.	0	12	6	2	10	7	4	11	10	0	17	9	5	6	5	0	0	0	1	0	0	4	0	4	0
September	6.9	N.	26	NW.	0	15	6	6	8	3	6	8	8	0	11	13	6	4	3	0	0	0	2	2	0	2	0	1	0
October	7.8	W.	27	SW.	0	3	12	7	6	5	3	18	8	0	6	9	16	13	10	0	0	0	3	0	0	0	0	1	0
November	7.3	W.	25	E.	0	10	10	7	3	3	1	12	14	0	10	10	10	11	8	3	0	0	5	1	1	0	13	0	0
December	6.3	W.	27	NW.	0	5	15	5	3	2	8	15	9	0	5	6	20	13	9	5	3	0	6	7	7	0	20	0	0
Year	7.8	W.	32	W.	2	74	108	63	65	47	59	168	148	0	113	128	125	118	91	29	11	1	34	14	16	14	75	26	0

HARTFORD, CONN.

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

January		SW.				8	2	1	1	5	3	1	10	0	5	6	20	16	13	10	6	0	20	6	2	0	17	0	0
February		NW.				5	4	0	0	4	3	2	11	0	12	6	11	9	8	11	6	0	14	5	8	0	25	0	0
March		NW.				5	4	1	0	1	4	1	15	0	11	8	12	10	10	14	3	0	6	0	6	0	22	0	0
April		NW.				4	4	2	0	3	4	4	9	0	8	8	14	9	5	5	1	0	4	0	0	0	3	2	0
May		S.				4	1	3	1	10	6	2	4	0	10	11	10	7	6	0	0	0	4	0	0	0	0	3	0
June		S.				0	2	1	1	6	13	0	7	0	7	13	10	12	9	0	0	0	10	1	0	0	0	5	0
July		S.				4	1	1	0	5	10	2	8	0	14	12	5	10	9	0	0	1	3	0	0	0	0	5	1
August		S.				4	0	0	0	11	5	5	6	0	14	11	6	10	9	0	0	0	14	2	0	1	0	6	0
September		N.				7	0	2	1	7	3	3	7	0	15	8	7	6	5	0	0	0	14	3	0	1	0	2	0
October		S.				2	3	2	1	12	4	1	6	0	7	11	13	9	6	1	0	0	16	0	0	0	0	1	0
November		N.				7	3	2	1	2	5	1	9	0	11	9	10	10	9	2	0	0	9	1	2	0	12	0	0
December		SW.				5	2	0	0	3	12	2	7	0	9	4	18	14	10	8	6	0	15	3	6	0	20	0	0
Year		NW.				55	26	15	6	69	72	24	99	0	123	107	136	122	99	51	22	1	129	21	24	2	99	24	1

HATTERAS, N.C.

[H_b=11 ft.; h_t=5 ft.; h_r=4 ft.; h_a=50 ft.]

January	13.3	SW.	35	SE.	2	6	11	2	0	7	18	6	12	0	7	12	12	11	9	0	0	0	1	1	0	0	0	0	0
February	13.3	NE.	43	NW.	3	6	18	1	0	2	18	7	6	0	10	9	10	14	9	0	0	0	0	0	0	0	0	1	0
March	16.7	NW.	56	W.	6	11	10	2	2	4	13	7	13	0	11	11	9	11	10	1	0	0	0	0	0	0	4	1	0
April	12.5	NE.	37	NW.	3	10	14	6	3	2	15	5	5	0	12	10	8	10	7	0	0	1	0	0	0	0	0	3	0
May	12.1	NE.	34	N.	1	3	21	4	1	11	13	7	2	0	11	11	9	9	7	0	0	0	0	0	0	0	0	2	0
June	11.9	SW.	30	SW.	0	3	12	5	7	4	22	7	0	0	9	12	9	8	7	0	0	0	0	0	0	0	0	6	0
July	11.7	SW.	37	NW.	2	4	9	4	4	5	20	12	4	0	14	11	6	7	6	0	0	0	0	0	0	5	0	7	0
August	10.0	SW.	24	NE.	0	7	14	8	4	4	17	8	0	0	14	11	6	10	8	0	0	0	0	0	0	2	0	3	0
September	12.2	NE.	47	N.	3	4	19	7	10	1	5	5	9	0	10	13	7	7	7	0	0	0	0	0	0	1	0	2	0
October	11.8	N.	35	NW.	2	17	9	0	6	6	8	5	9	2	13	8	10	12	11	0	0	0	0	0	0	0	0	3	0
November	15.2	N.	49	NE.	5	21	16	2	3	4	2	3	8	1	7	7	16	13	10	0	0	0	2	0	0	0	0	2	0
December	11.7	N.	38	N.	2	16	11	3	3	1	16	8	4	0	5	8	18	14	9	1	0	0	2	2	0	0	0	0	0
Year	12.7	NE.	56	W.	31	108	164	44	43	51	167	80	72	3	123	123	120	126	100	2	0	1	5	3	0	8	4	30	0

HAVRE, MONT.

[H_b=2,505 ft.; h_t=11 ft.; h_r=3 ft.; h_a=67 ft.]

January	10.7	SW.	35	SW.	3	4	4	5	9	1	20	15	13	0	8	12	11	6	2	11	6	0	2	0	15	0	31	0	0
February	11.0	SW.	32	SW.	5	1	8	10	0	2	19	12	5	1	7	8	14	9	5	12	7	0	0	0	14	0	23	0	0
March	8.8	SW.	29	SW.	0	2	4	13	0	0	16	13	14	0	5	11	15	14	7	21	13	0	1	0	14	0	28	2	0
April	10.6	SW.	30	SW.	3	1	2	9	3	2	16	16	10	1	6	12	12	14	10	2	0	0	1	0	0	0	4	1	0
May	9.9	SW.	31	E.	6	3	7	12	6	2	10	10	9	3	9	17	5	8	7	0	0	1	0	0	0	0	1	5	1
June	8.0	SW.	33	SW.	1	7	9	4	3	1	17	9	9	1	10	12	8	13	8	0	0	0	0	0	0	2	0	6	0
July	8.7	SW.	34	SW.	3	1	5	10	7	1	11	16	9	2	18	9	4	7	6	0	0	0	0	0	0	0	0	8	1
August	9.0	E.	32	SE.	1	3	8	13	7	1	13	9	8	0	15	14	2	10	8	0	0	0	1	0	0	0	6	11	7
September	8.6	W.	37	NW.	3	0	6	7	1	0	11	21	14	0	14	11	5	2	2	0	0	0	0	0	0	1	4	8	8
October	9.5	SW.	32	W.	1	6	3	8	3	0	20	18	4	0	4	12	15	10	4	9	4	0	0	0	2	0	17	0	6
November	9.6	SW.	42	SW.	2	5	9	13	1	0	19	10	3	0	5	11	14	8	2	10	7	0	0	0	5	0	26	0	1
December	11.7	SW.	33	SW.	1	2	5	2	0	0	33	12	8	0	7	15	9	6	1	12	6	0	1	0	15	0	30	0	2
Year	9.7	SW.	42	SW.	23	35	70	106	31	10	205	161	106	8	108	144	114	107	62	77	43	1	6	0	65	19	164	33	26

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*					
January	25.74	26.17	24.88	19.6	23.6	22.6	28.4	12.7	20.6	56	−22	11	12	12	69	61	63	0.080	0.083	0.084	0.57	0.33	10.9	5.7	7.9	7.7	7.4
February	25.69	26.01	25.05	24.6	32.6	33.4	37.7	20.8	29.2	69	−15	13	18	20	62	54	57	.094	.114	.119	.25	.06	5.3	7.2	6.8	6.7	7.0
March	25.78	26.32	25.27	21.0	27.7	29.8	33.3	17.2	25.2	65	−19	13	15	16	68	58	57	.097	.104	.106	1.55	.73	24.7	7.4	7.5	6.6	6.8
April	25.73	26.13	25.27	36.4	49.6	50.3	54.0	34.6	44.3	74	28	28	31	30	69	51	49	.151	.179	.169	.70	.31	5.0	7.1	7.7	7.4	7.0
May	25.76	26.05	25.27	44.7	59.6	61.5	64.8	42.6	53.7	84	34	35	38	36	71	46	41	.209	.233	.215	1.16	.36	.3	7.1	6.9	7.1	6.9
June	25.76	26.06	25.38	53.1	68.2	70.2	73.5	50.7	62.1	90	40	43	43	42	70	44	42	.279	.283	.274	2.05	.85	.0	5.3	5.7	6.4	5.8
July	25.77	26.02	25.44	57.2	75.8	78.9	82.9	54.6	68.8	95	43	46	51	46	68	43	35	.317	.380	.322	1.22	.62	.0	3.9	3.8	5.6	4.7
August	25.78	25.98	25.41	56.1	73.5	76.3	79.6	54.6	67.1	94	39	47	50	50	72	46	42	.325	.376	.376	1.49	.79	T	3.6	4.1	4.7	4.5
September	25.88	26.12	25.45	46.8	65.6	68.8	71.8	44.9	58.4	87	31	34	36	35	62	35	31	.197	.217	.209	T	T	T	3.3	4.2	3.9	4.0
October	25.84	26.22	25.42	38.1	48.5	48.1	52.8	33.5	43.2	79	16	29	31	30	70	52	53	.160	.174	.172	.85	.37	6.6	7.7	7.5	7.0	7.1
November	25.81	26.14	25.32	35.4	42.8	41.7	48.4	31.6	40.0	63	8	24	26	26	63	52	54	.130	.139	.139	.40	.11	1.2	7.9	7.7	8.4	7.6
December	25.77	26.22	25.26	15.2	21.0	19.3	25.4	10.8	18.1	55	−28	6	10	10	66	61	66	.063	.075	.082	.79	.30	12.4	7.3	7.1	6.4	6.8
Year	25.78	26.32	24.88	37.4	49.0	50.1	54.4	34.0	44.2	95	−28	27	30	29	68	50	49	.175	.196	.189	11.03	.85	66.4	6.1	6.4	6.5	6.3

HONOLULU, HAWAII

[ϕ=21°19′ N.; λ=157°52′ W.]

	*			†		†						†		†	†		†	†		†			†		†	
January	29.97	30.11	29.76	72.0	76.4	72.9	77.8	68.6	73.2	81	65	65	65	65	79	68	76	0.614	0.621	0.616	1.52	1.27	0.0	4.4	5.1	4.0	4.8
February	29.88	30.10	29.58	69.7	72.9	70.8	74.4	66.0	70.2	78	60	64	64	64	82	73	78	.597	.593	.590	8.36	1.99	.0	7.0	6.8	7.1	7.1
March	29.99	30.13	29.71	70.9	75.1	71.2	76.7	67.1	71.9	79	58	62	62	62	73	64	72	.553	.555	.557	3.05	1.29	.0	5.1	5.4	4.8	5.3
April	30.03	30.15	29.89	72.7	76.1	72.4	77.2	68.9	73.0	81	64	63	64	64	72	66	75	.581	.594	.591	3.41	2.31	.0	5.6	5.7	5.9	5.5
May	30.04	30.12	29.93	74.0	77.0	73.3	78.3	70.4	74.4	82	67	65	65	65	74	66	74	.620	.609	.612	.68	.10	.0	6.0	5.8	5.6	6.0
June	30.02	30.13	29.88	75.6	78.7	75.1	80.1	71.6	75.8	82	68	65	65	65	70	64	70	.616	.620	.612	.29	.14	.0	4.7	4.7	4.1	3.9
July	29.99	30.06	29.87	76.3	78.9	75.7	80.7	72.2	76.4	83	68	66	66	66	72	64	72	.646	.628	.637	.59	.10	.0	4.5	4.6	3.6	3.7
August	29.97	30.05	29.87	77.3	80.0	76.3	81.8	72.8	77.3	84	70	68	69	68	72	69	75	.673	.700	.679	2.56	1.91	.0	3.4	5.3	4.1	4.2
September	29.95	30.05	29.78	77.6	80.5	76.8	81.9	72.2	77.0	84	70	68	68	68	72	67	74	.685	.696	.684	.65	.28	.0	3.4	4.0	4.4	4.3
October	29.97	30.08	29.80	77.2	80.1	77.0	81.7	73.0	77.4	85	70	67	66	67	71	64	71	.661	.651	.654	.39	.09	.0	5.1	6.0	4.9	5.3
November	29.97	30.12	29.78	75.4	78.4	75.2	79.7	71.1	75.4	83	67	66	65	66	72	64	73	.636	.621	.636	2.14	.74	.0	6.2	6.4	6.0	6.3
December	29.98	30.10	29.77	72.9	76.4	73.4	78.3	69.6	74.0	81	66	64	65	64	75	68	74	.609	.613	.606	1.13	.71	.0	4.5	5.0	5.2	5.1
Year	29.98	30.15	29.58	74.3	77.5	74.2	79.0	70.3	74.7	85	58	65	65	65	74	66	74	.624	.625	.623	24.77	2.31	.0	5.0	5.4	5.0	5.1

HOUGHTON, MICH.

[ϕ=47°07′ N.; λ=88°34′ W.]

January	29.23	29.88	28.56	23.6	26.7	.....	30.5	19.6	25.0	47	3	20	22	...	88	82	...	0.113	0.121	.....	2.90	0.55	27.7	9.2	8.8	.....	8.8
February	29.18	29.89	27.92	16.9	21.0	.....	26.9	10.4	18.6	48	−6	14	17	...	87	82	...	.086	.099	.....	3.65	1.00	31.3	8.8	9.4	.....	8.6
March	29.17	29.64	28.54	17.8	22.7	.....	26.8	13.5	20.2	43	−6	14	16	...	84	74	...	.086	.090	.....	2.55	.61	25.9	8.6	8.2	.....	7.4
April	29.35	29.69	28.81	32.9	41.3	.....	44.3	28.1	36.2	65	17	25	24	...	73	52	...	.138	.131	.....	1.54	1.06	3.2	4.9	5.6	.....	5.4
May	29.27	29.69	28.77	47.6	56.9	.....	62.2	40.9	51.6	90	31	40	40	...	78	58	...	.260	.254	.....	3.97	1.12	1.0	7.3	6.4	.....	6.2
June	29.20	29.51	28.56	58.4	69.0	.....	72.9	51.9	62.4	82	41	51	53	...	77	58	...	.378	.416	.....	2.38	.59	.0	4.5	5.1	.....	5.0
July	29.16	29.52	28.57	61.4	68.5	.....	73.8	56.1	65.0	89	42	55	55	...	81	63	...	.445	.442	.....	8.52	2.73	.0	6.4	4.5	.....	5.5
August	29.21	29.62	28.84	63.6	72.0	.....	76.0	58.2	67.1	93	50	58	58	...	83	63	...	.493	.489	.....	4.03	1.19	.0	5.7	4.9	.....	5.3
September	29.31	29.68	28.83	54.6	64.0	.....	67.0	50.8	58.9	84	41	48	46	...	78	54	...	.339	.321	.....	2.58	.85	1.0	3.8	4.8	.....	4.4
October	29.20	29.64	28.55	40.3	44.9	.....	49.2	37.4	43.3	67	29	36	37	...	84	73	...	.215	.226	.....	3.96	1.90	10.9	7.9	8.6	.....	8.4
November	29.32	29.98	28.65	27.7	32.3	.....	35.9	23.1	29.5	54	9	23	25	...	82	75	...	.131	.141	.....	3.34	1.04	15.9	8.8	8.1	.....	8.4
December	29.20	29.79	28.53	17.9	22.2	.....	25.9	11.6	18.8	47	−10	15	17	...	87	79	...	.093	.099	.....	4.05	.68	33.3	8.5	8.9	.....	8.8
Year	29.23	29.98	27.92	38.6	45.1	.....	49.3	33.5	41.4	93	−10	33	34	...	82	68	...	.231	.236	.....	43.47	2.73	149.3	7.0	6.9	.....	6.8

HOUSTON, TEX.

[ϕ=29°47′ N.; λ=95°24′ W.]

January	29.95	30.37	29.51	52.7	59.4	.....	64.2	49.9	57.0	79	34	48	48	...	87	69	...	0.378	0.378	.....	5.45	1.79	0.0	6.9	6.5	.....	6.8
February	29.88	30.26	29.65	59.7	67.4	.....	72.2	57.6	64.9	85	38	55	55	...	87	68	...	.466	.458	.....	4.27	2.91	.0	6.2	7.0	.....	6.7
March	29.88	30.36	29.35	51.7	61.5	.....	66.8	48.6	57.7	84	27	45	42	...	79	53	...	.349	.303	.....	1.22	.94	.8	6.0	4.7	.....	4.9
April	29.83	30.24	29.53	62.9	74.9	.....	77.9	61.4	69.6	90	48	58	56	...	85	54	...	.503	.470	.....	2.56	2.43	.0	6.1	5.0	.....	5.1
May	29.83	30.04	29.63	69.1	80.2	.....	83.5	67.5	75.5	89	62	64	61	...	84	54	...	.605	.556	.....	.56	.32	.0	5.5	5.7	.....	5.2
June	29.77	29.94	29.60	75.7	86.2	.....	90.0	73.6	81.8	95	67	72	69	...	89	57	...	.792	.702	.....	2.14	.58	.0	3.6	6.0	.....	5.2
July	29.83	30.06	29.52	78.2	89.5	.....	94.5	76.1	85.3	102	70	73	69	...	86	53	...	.823	.715	.....	1.88	.61	.0	2.9	5.1	.....	4.4
August	29.79	29.93	29.33	76.9	87.2	.....	92.0	75.5	83.8	100	70	74	71	...	91	60	...	.843	.757	.....	8.03	3.64	.0	3.6	6.1	.....	5.4
September	29.82	29.99	29.61	71.4	81.8	.....	85.4	70.4	77.9	96	58	67	66	...	87	60	...	.676	.646	.....	2.64	1.18	.0	4.4	5.1	.....	4.6
October	29.86	30.19	29.53	62.3	75.5	.....	79.2	59.7	69.4	88	44	56	55	...	81	50	...	.476	.458	.....	1.06	.83	.0	2.8	3.4	.....	3.3
November	30.03	30.37	29.54	50.0	63.0	.....	67.2	46.8	57.0	81	28	42	42	...	76	50	...	.296	.305	.....	1.20	.69	.0	3.7	3.3	.....	3.1
December	29.97	30.49	29.50	48.4	54.7	.....	58.5	44.8	51.6	75	20	46	46	...	91	75	...	.338	.338	.....	2.89	.63	.0	7.3	7.1	.....	7.3
Year	29.87	30.49	29.33	63.2	73.4	.....	77.6	61.0	69.3	102	20	58	57	...	85	59	...	.545	.507	.....	33.90	3.64	.8	4.9	5.4	.....	5.2

* No diurnal correction applied.

† Observations at 8 a.m. and 8 p.m., time of meridian of 157°30′ W.

Annual meteorological summaries for the year ending December 31, 1932—Continued

HELENA, MONT.

[H_b=4,124 ft.; h_t=89 ft.; h_r=82 ft.; h_a=113 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Fog: Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.2	SW.	54	SW.	2	7	0	0	0	4	31	7	8	5	3	7	21	5	4	20	5	0	4	2	17	0	31	0	0
February	8.7	SW.	39	SW.	2	4	1	3	1	4	30	11	4	0	4	8	17	9	4	13	8	0	0	0	9	0	21	0	0
March	8.6	SW.	41	SW.	2	5	1	0	0	4	29	13	7	3	5	8	18	9	7	19	7	0	0	0	12	0	19	0	0
April	8.9	SW.	38	SW.	1	2	7	0	0	9	26	10	6	0	3	12	15	8	4	9	5	0	1	0	0	0	9	0	3
May	8.6	SW.	38	SW.	2	11	4	0	0	9	24	12	2	0	2	15	14	16	10	4	1	1	1	0	0	0	0	0	4
June	8.6	SW.	32	SW.	1	7	2	2	1	8	20	12	8	0	9	11	10	10	9	0	0	2	0	0	0	2	0	10	0
July	9.4	SW.	37	S.	3	1	3	4	0	15	20	14	5	0	11	15	5	9	7	0	0	2	0	0	0	8	0	9	3
August	8.9	SW.	27	W.	0	7	2	2	1	17	10	12	11	0	11	16	4	10	7	1	0	3	0	0	0	5	0	12	1
September	9.1	SW.	32	W.	1	3	4	3	1	12	23	13	1	0	13	14	3	0	0	1	0	0	0	0	0	0	1	0	3
October	8.5	SW.	30	SW.	0	8	1	0	0	4	25	16	8	0	2	15	14	6	3	13	5	1	0	0	0	0	10	1	0
November	8.7	SW.	39	SW.	6	2	0	2	1	8	34	5	6	2	0	11	19	7	4	14	4	0	1	1	0	0	15	0	8
December	7.6	SW.	29	SW.	0	5	0	0	2	2	36	9	7	1	4	7	20	12	2	20	12	0	7	0	15	0	27	0	0
Year	8.6	SW.	54	SW.	20	62	25	16	7	96	308	134	73	11	67	139	160	101	61	114	47	9	14	3	53	15	133	39	22

HONOLULU, HAWAII*

[H_b=38 ft.; h_t=86 ft.; h_r=68 ft.; h_a=100 ft.]

January	9.2	E.	28	E.	0	6	16	34	3	0	1	2	0	0	8	20	3	11	8	0	0	0	0	0	0	0	0	1	0
February	11.5	E.	31	W.	0	2	10	25	0	4	8	5	3	1	6	8	15	21	18	0	0	0	0	0	0	0	0	5	0
March	9.0	E.	25	E.	0	7	20	26	1	1	2	0	4	1	12	9	10	13	9	0	0	0	0	0	0	0	0	0	0
April	11.7	E.	30	NE.	0	3	8	47	1	0	0	1	0	0	3	22	5	20	13	0	0	0	0	0	0	0	0	0	0
May	11.3	E.	29	NE.	0	0	9	52	1	0	0	0	0	0	5	17	9	19	5	0	0	0	0	0	0	0	0	0	0
June	9.4	E.	21	E.	0	1	9	46	3	0	0	0	1	0	15	13	2	10	2	0	0	0	0	0	0	0	0	0	0
July	10.3	E.	25	E.	0	0	13	47	0	0	0	0	2	0	15	15	1	16	7	0	0	0	0	0	0	0	0	0	0
August	9.1	E.	25	E.	0	1	18	41	1	0	1	0	0	0	14	15	2	15	6	0	0	0	0	0	0	0	0	0	0
September	8.1	E.	21	E.	0	3	14	32	1	4	4	1	0	1	12	16	2	9	3	0	0	0	0	0	0	0	0	0	0
October	10.0	E.	25	E.	0	1	9	46	2	1	1	1	1	0	7	17	7	10	5	0	0	0	0	0	0	0	0	0	0
November	8.7	E.	26	NE.	0	2	12	37	4	5	0	0	0	0	7	10	13	15	9	0	0	0	0	0	0	0	0	0	0
December	9.2	E.	30	NE.	0	3	10	36	2	2	1	0	1	7	7	20	4	9	5	0	0	0	0	0	0	0	0	0	0
Year	9.8	E.	31	W.	0	29	148	469	19	17	18	10	12	10	111	182	73	168	92	0	0	0	0	0	0	0	0	6	0

HOUGHTON, MICH.

[H_b=668 ft.; h_t=64 ft.; h_r=57 ft.; h_a=99 ft.]

January	9.9	W.	31	W.	0	1	4	7	3	0	4	5	5	2	3	3	25	21	15	23	19	0	0	0	20	0	30	0	0
February	10.7	W.	42	W.	3	0	0	6	2	2	2	8	9	0	1	5	23	17	16	21	16	0	5	4	20	0	29	0	0
March	10.4	W.	29	W.	0	0	3	9	0	0	1	10	8	0	5	6	20	17	13	22	17	0	0	0	23	0	31	0	1
April	10.0	E.	26	NW.	0	1	1	16	1	0	2	5	4	0	10	8	12	8	7	6	5	0	1	0	3	0	24	2	2
May	10.3	E.	27	W.	0	1	2	18	0	0	2	7	0	1	7	10	14	15	11	2	1	0	4	0	0	0	3	3	2
June	8.8	E.	26	N.	0	0	2	15	1	0	1	10	1	0	12	8	10	6	5	0	0	0	7	6	0	0	0	3	0
July	9.8	W.	32	W.	1	3	1	5	0	0	3	13	6	0	10	12	9	13	9	0	0	0	3	1	0	0	0	10	0
August	8.3	W.	35	W.	1	0	2	7	1	1	0	14	6	0	11	9	11	10	10	0	0	1	3	0	0	1	0	6	1
September	9.8	W.	34	W.	2	1	4	6	0	0	3	12	4	0	12	11	7	15	10	1	1	1	4	0	0	0	0	4	2
October	9.6	W.	33	NE.	2	6	3	9	0	0	5	5	3	0	3	6	22	17	14	6	6	0	2	1	0	0	7	1	1
November	9.6	W.	34	W.	1	2	2	9	0	2	4	7	4	0	2	5	23	19	17	15	14	0	2	0	9	0	23	0	0
December	9.0	W.	27	W.	0	0	2	6	0	0	6	12	5	0	1	5	25	17	14	23	17	0	2	0	18	0	30	0	0
Year	9.7	W.	42	W.	10	15	26	113	8	5	33	108	55	3	77	88	201	175	141	119	96	2	33	12	93	1	177	29	9

HOUSTON, TEX.

[H_b=138 ft.; h_t=292 ft.; h_r=286 ft.; h_a=314 ft.]

January	13.6	SE.	35	SE.	1	4	5	2	10	1	1	2	6	0	7	6	18	15	14	0	0	0	8	1	0	0	0	4	0
February	12.1	S.	34	N.	1	6	4	4	1	7	3	3	1	0	7	5	17	9	7	0	0	0	7	1	0	0	0	1	0
March	14.3	S.	46	NW.	3	11	0	2	3	10	2	2	1	0	14	6	11	6	5	3	1	0	3	0	0	0	5	1	0
April	12.2	SE.	35	NW.	1	1	1	3	8	10	2	1	4	0	9	13	8	4	3	0	0	0	7	0	0	0	0	3	0
May	12.0	SE.	34	SE.	1	7	6	3	6	5	2	1	0	1	8	16	7	3	3	0	0	0	3	0	0	0	0	6	0
June	11.3	S.	34	N.	3	1	2	1	8	12	3	2	1	0	8	16	6	8	7	0	0	1	0	0	0	0	17	8	0
July	10.2	S.	38	SE.	3	2	2	1	2	11	8	2	3	0	11	18	2	10	7	0	0	0	0	0	0	0	28	9	0
August	10.5	S.	57	SE.	3	0	7	3	5	8	6	1	0	1	5	21	5	11	11	0	0	0	0	0	0	0	20	0	14
September	9.9	NE.	24	SE.	0	2	12	7	4	3	0	0	2	0	13	10	7	11	8	0	0	0	1	0	0	0	5	3	0
October	12.3	SE.	30	NW.	0	8	3	7	4	6	1	1	1	0	17	9	5	3	2	0	0	0	3	2	0	0	0	2	0
November	13.4	N.	32	N.	2	5	7	4	1	7	1	1	4	0	19	4	7	5	5	0	0	0	5	2	0	0	1	1	0
December	13.0	N.	37	SE.	3	7	4	6	3	5	1	2	3	0	7	4	20	20	13	0	0	0	11	3	0	0	3	2	0
Year	12.1	S.	57	SE.	21	54	53	43	55	85	30	18	26	2	125	128	113	105	85	3	1	1	48	9	0	70	9	54	0

* See note on preceding page for observation hours at Honolulu.

Annual meteorological summaries for the year ending December 31, 1932—Continued

HURON, S.DAK.

[ϕ=44°21′ N.; λ=98°14′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.63	29.34	27.69	10.2	14.9	13.7	20.2	2.8	11.5	37	−20	7	10	19	85	77	83	0.061	0.071	0.072	0.39	0.22	6.1	6.3	5.3	5.3	5.5
February	28.58	29.13	27.83	15.9	22.2	22.8	28.3	9.4	18.8	60	−16	12	16	18	86	74	80	.087	.099	.109	.14	.06	2.9	5.4	5.6	5.1	4.8
March	28.63	29.13	27.96	19.0	27.7	26.8	33.0	16.3	24.6	67	−9	15	19	20	82	69	76	.097	.117	.122	1.29	.57	6.7	5.2	7.0	6.2	6.5
April	28.56	29.08	28.20	41.6	52.4	54.0	58.5	38.4	48.4	75	25	36	37	38	82	58	57	.224	.229	.234	1.52	.41	.9	5.7	6.0	5.8	6.0
May	28.56	28.99	28.13	53.0	66.3	67.2	72.2	48.5	60.4	93	36	46	46	47	78	52	52	.320	.326	.331	2.67	1.17	.0	5.5	5.4	4.7	4.0
June	28.49	28.73	28.17	64.3	76.7	77.9	81.6	59.6	70.6	92	52	58	57	57	80	52	51	.483	.469	.476	1.98	.35	.0	5.1	4.7	3.4	4.4
July	28.53	28.81	28.15	67.6	84.1	86.0	89.3	63.3	76.3	103	49	56	54	54	67	37	36	.456	.427	.428	.15	.07	.0	3.1	2.5	2.6	3.1
August	28.53	28.91	28.04	64.1	80.8	79.6	84.9	61.3	73.1	98	49	56	55	54	78	44	46	.472	.457	.452	2.85	1.06	.0	4.9	3.6	3.7	4.0
September	28.67	29.10	28.02	50.4	70.4	69.0	75.1	48.2	61.6	91	33	42	40	42	73	35	39	.274	.254	.272	1.28	.96	.0	3.3	2.6	3.0	3.0
October	28.58	28.96	28.14	37.3	51.2	48.5	55.9	34.4	45.2	83	19	31	32	32	79	53	56	.177	.187	.183	.64	.29	2.5	5.8	5.6	5.8	5.4
November	28.67	29.23	28.13	26.5	37.4	34.7	43.0	21.5	32.6	64	1	29	29	21	75	55	57	.108	.116	.116	.18	.17	1.6	5.6	5.6	5.2	5.7
December	28.64	29.24	28.02	11.8	22.3	18.5	27.3	6.0	16.6	56	−21	8	14	14	86	71	82	.069	.090	.088	.34	.22	4.3	4.9	4.5	3.2	4.4
Year	28.59	29.34	27.69	38.5	50.5	49.9	55.8	34.1	45.0	103	−21	32	34	34	79	56	60	.236	.237	.240	13.43	1.17	25.0	5.1	4.9	4.5	4.7

INDIANAPOLIS, IND.

[ϕ=39°46′ N.; λ=86°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.21	29.78	28.62	36.4	39.8	39.6	45.7	31.9	38.8	66	12	30	31	32	78	70	72	0.183	0.185	0.191	6.19	1.16	0.2	6.8	7.7	6.8	7.3
February	29.13	29.78	28.43	35.5	41.0	42.3	47.7	31.5	39.6	73	18	29	28	30	77	59	62	.174	.162	.176	1.47	.60	T	5.9	6.4	5.9	6.1
March	29.06	29.54	28.25	28.2	36.3	36.3	41.5	25.1	33.3	67	4	22	22	26	78	57	65	.133	.135	.151	1.96	.65	2.0	7.2	8.0	6.7	7.3
April	29.10	29.46	28.58	44.8	56.1	56.1	61.3	41.9	51.6	78	29	36	37	39	72	51	55	.221	.230	.251	2.77	1.43	.8	7.0	5.9	6.2	6.0
May	29.16	29.51	28.91	58.0	68.9	68.4	73.2	53.4	63.3	85	41	47	47	48	67	48	51	.334	.339	.353	.60	.13	.0	4.3	4.6	4.6	4.5
June	29.04	29.23	28.78	68.3	79.6	78.6	83.8	63.7	73.8	90	51	59	59	60	74	52	56	.521	.524	.546	5.94	2.82	.0	5.0	5.7	4.9	5.1
July	29.08	29.33	28.66	71.7	82.7	81.4	86.6	67.9	77.2	97	55	62	59	60	72	46	49	.566	.512	.525	2.86	1.08	.0	3.7	4.9	4.3	4.2
August	29.13	29.38	28.88	68.9	81.0	78.9	84.9	65.3	75.2	94	54	59	57	58	72	46	51	.519	.480	.490	3.17	1.93	.0	4.1	6.2	4.1	4.7
September	29.21	29.43	28.77	60.2	72.4	69.7	75.9	57.5	66.7	91	46	53	52	53	78	52	58	.419	.416	.426	7.18	2.42	.0	4.9	4.6	4.5	4.7
October	29.11	29.41	28.75	48.9	59.5	56.1	63.5	45.8	54.6	78	32	42	43	42	79	57	62	.287	.296	.290	3.25	.96	.0	6.1	6.0	5.1	6.3
November	29.29	29.85	28.73	33.7	42.2	40.0	45.9	30.2	38.0	70	16	27	29	28	76	61	64	.158	.172	.166	2.69	1.53	9.9	6.0	5.9	5.3	6.0
December	29.24	29.73	28.66	29.4	34.9	33.7	39.8	25.1	32.4	64	−6	24	25	25	78	68	69	.146	.159	.154	4.70	1.92	2.8	7.2	7.6	6.2	7.3
Year	29.15	29.85	28.25	48.7	57.9	56.8	62.5	46.0	53.7	97	−6	41	41	42	75	56	60	.305	.301	.311	42.69	2.82	15.6	5.7	6.1	5.4	5.8

ITHACA, N.Y.

[ϕ=42°27′ N.; λ=76°29′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.17	29.69	28.51	35.7	39.3	37.6	43.5	31.4	37.4	67	16	30	30	30	78	71	75	0.174	0.183	0.173	2.00	0.55	3.7	8.9	9.2	8.1	8.9
February	29.05	29.66	28.59	28.2	34.4	31.9	38.5	22.2	30.4	58	3	22	23	23	76	64	68	.127	.129	.128	1.67	.36	15.2	8.9	8.6	6.7	8.2
March	28.90	29.34	28.08	28.1	35.1	30.2	37.5	23.4	30.4	53	6	21	23	22	74	61	71	.119	.127	.124	4.55	1.96	29.3	8.5	8.5	7.8	8.1
April	29.03	29.59	28.46	40.2	47.3	44.3	51.6	34.1	42.8	73	23	30	30	32	67	54	64	.171	.169	.185	1.36	.33	7.5	7.0	7.7	7.5	7.2
May	29.14	29.51	28.83	55.0	63.7	59.0	68.3	46.7	57.5	88	31	42	42	44	64	48	51	.282	.282	.307	3.46	1.18	.0	6.6	6.9	6.3	6.9
June	29.01	29.35	28.68	64.7	73.8	68.3	77.3	55.2	66.2	87	38	54	53	55	68	50	53	.431	.430	.450	2.97	1.59	.0	5.6	6.7	6.8	6.3
July	29.07	29.25	28.45	67.5	76.6	69.5	79.4	58.4	68.9	92	48	58	57	58	70	51	57	.479	.466	.482	3.83	1.12	.0	6.3	6.5	6.4	6.6
August	29.09	29.43	28.77	67.3	79.4	71.3	83.0	58.3	70.6	95	49	59	58	58	74	50	54	.499	.490	.498	2.61	.89	.0	3.7	4.9	4.9	4.8
September	29.18	29.59	28.87	58.5	70.8	62.5	74.5	50.7	62.6	99	33	50	49	50	75	48	55	.387	.376	.383	1.17	.53	.0	4.9	5.9	4.3	5.7
October	29.09	29.48	28.66	50.0	59.0	53.6	62.0	45.3	53.6	78	32	43	43	44	77	58	70	.288	.289	.298	4.75	2.29	T	7.7	7.7	6.1	7.9
November	29.27	29.91	28.64	34.6	42.6	37.5	46.6	29.7	38.2	59	10	28	28	28	71	56	69	.163	.161	.161	2.26	.82	.7	7.9	7.2	5.5	7.3
December	29.29	29.66	28.44	30.1	37.6	33.3	42.2	24.7	33.4	66	1	22	24	24	74	58	69	.129	.136	.137	.68	.20	4.5	7.5	7.6	6.5	7.3
Year	29.18	29.91	28.08	46.7	55.0	50.6	58.7	40.0	49.3	99	1	38	38	39	73	56	67	.271	.270	.277	31.31	2.29	60.9	7.0	7.3	6.4	7.0

JACKSONVILLE, FLA.

[ϕ=30°20′ N.; λ=81°39′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.14	30.48	29.73	59.1	68.7	61.0	71.8	56.6	64.2	81	36	53	52	55	82	57	73	0.430	0.414	0.450	0.40	0.25	0.0	6.0	6.1	4.2	5.9
February	30.03	30.46	29.64	59.3	70.6	67.1	74.7	57.3	66.0	83	42	55	54	54	86	58	68	.449	.443	.441	1.12	.56	.0	5.6	5.1	3.4	5.6
March	29.94	30.31	29.00	52.3	62.8	60.4	69.0	49.3	59.2	83	26	43	44	45	72	54	61	.313	.325	.339	5.05	1.45	.0	4.9	5.2	4.1	5.0
April	29.96	30.33	29.63	62.1	74.1	69.5	77.3	60.1	68.7	87	48	53	51	54	74	47	60	.420	.395	.426	3.20	1.93	.0	4.2	4.2	3.8	4.3
May	29.96	30.19	29.68	71.1	79.5	73.9	82.4	67.4	74.9	91	61	63	60	63	76	54	71	.584	.536	.587	2.25	1.67	.0	3.6	4.2	5.3	4.4
June	29.91	30.09	29.61	76.4	82.4	77.5	86.0	71.7	78.8	97	66	71	69	70	84	66	80	.761	.716	.747	23.32	5.85	.0	5.5	6.4	7.9	6.5
July	29.95	30.13	29.79	79.5	88.7	83.3	92.5	75.4	84.0	99	69	73	70	70	81	54	67	.813	.723	.737	6.92	2.57	.0	2.7	4.6	5.4	4.2
August	29.94	30.09	29.83	78.3	85.7	79.2	87.8	74.7	81.2	95	72	74	71	73	86	63	81	.823	.709	.805	4.26	1.31	.0	5.1	6.6	6.5	6.2
September	29.94	30.15	29.54	74.9	81.0	76.6	83.8	72.1	78.0	92	65	68	67	69	81	63	73	.704	.660	.710	6.61	3.10	.0	6.4	7.1	5.4	6.5
October	29.96	30.18	29.52	67.2	76.2	72.1	78.5	64.5	71.5	85	49	62	61	63	85	61	74	.579	.553	.582	2.62	1.55	.0	4.9	6.3	3.7	5.4
November	30.05	30.37	29.09	55.4	64.0	60.6	67.4	52.5	60.0	79	34	50	50	50	81	64	71	.405	.409	.409	5.55	1.38	.0	5.7	5.6	4.6	5.4
December	30.14	30.40	29.88	57.7	68.2	61.7	70.7	54.7	62.7	79	36	54	53	53	88	62	76	.432	.427	.427	.49	.37	.0	5.1	6.5	5.6	6.5
Year	29.99	30.48	29.00	66.1	75.2	70.5	78.5	63.0	70.8	99	26	60	58	60	81	59	72	.559	.531	.555	61.79	5.85	.0	4.9	5.7	5.0	5.5

Annual meteorological summaries for the year ending December 31, 1932—Continued

HURON, S.DAK.

[H_b=1,306 ft.; h_t=60 ft.; h_r=53 ft.; h_a=74 ft.]

Month	Wind																Number of days																							
	By self-register					Number of winds, 8 a.m. and 8 p.m.													Precipitation		Snow			Fog		Maximum temp.		32°	Electricity	
	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature or below	Thunderstorm	Aurora
	Mi.		*Mi.*																																					
January	9.2	NW.	27	NW.	0	4	2	0	12	8	6	12	18	0	12	6	13	9	2	17	8	0	13	2	27	0	31	6	0
February	9.6	NW.	28	NW.	0	1	3	3	11	8	3	5	23	1	11	9	9	6	2	14	6	0	9	3	18	0	25	0	0
March	10.4	NW.	30	NW.	0	12	6	2	11	5	5	1	20	0	5	13	13	12	6	18	8	2	7	2	12	0	30	1	0
April	11.9	SE.	27	NW.	0	10	7	3	26	2	3	2	7	0	8	9	13	14	10	4	4	0	6	0	0	0	7	4	2
May	10.5	SE.	27	NE.	0	7	7	3	17	10	1	1	16	0	13	13	5	14	12	6	0	2	2	0	6	3	0	11	0
June	8.5	SE.	25	SE.	0	4	5	4	20	8	4	5	10	0	14	10	6	11	10	0	0	0	1	0	6	3	6	9	0
July	9.9	SE.	26	W.	0	8	4	5	20	6	7	1	11	0	24	3	4	5	1	0	0	0	2	0	6	17	0	5	0
August	9.6	SE.	41	NW.	1	7	4	7	23	5	0	5	11	0	18	4	9	12	9	0	0	0	2	0	0	1	0	12	0
September	9.1	SE.	28	NW.	0	5	5	3	23	0	4	6	14	0	19	7	4	5	4	0	0	0	1	0	6	1	0	2	1
October	10.2	NW.	30	NW.	0	10	3	3	12	3	7	8	16	0	10	9	12	8	5	6	4	0	3	0	0	0	11	2	2
November	11.8	SE.	31	NW.	0	7	1	0	21	8	4	3	16	0	9	8	13	3	1	6	3	0	0	0	7	0	26	0	2
December	9.2	W.	26	NW.	0	6	0	2	17	3	10	12	12	0	14	10	7	7	2	13	6	0	1	0	19	0	30	0	0
Year	10.0	SE.	41	NW.	1	81	47	35	213	66	54	61	174	1	157	101	108	106	64	78	39	4	47	7	83	31	160	46	7

INDIANAPOLIS, IND.

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

January	11.7	S.	41	SW.	2	4	1	4	6	19	7	15	6	0	4	10	17	15	12	7	2	0	8	2	4	0	16	1	0
February	11.6	SW.	37	SW.	3	3	5	6	5	8	11	10	10	0	9	7	13	6	5	1	0	0	13	2	6	0	16	1	0
March	13.1	W.	29	NW.	0	3	7	5	5	7	8	12	15	0	3	12	16	12	8	12	4	0	9	0	9	0	20	3	0
April	11.6	NW.	32	W.	1	10	8	10	6	5	7	3	10	1	9	10	11	10	9	3	1	0	4	0	0	0	3	2	0
May	10.4	SW.	29	NW.	0	4	5	6	3	14	15	4	11	0	15	10	6	7	7	0	0	0	0	0	0	0	0	4	0
June	8.9	SW.	27	NW.	0	7	6	8	3	11	10	11	4	0	8	19	3	8	7	0	0	0	0	0	0	1	0	10	0
July	9.7	W.	34	NW.	2	4	8	3	3	9	12	15	8	0	15	12	4	7	7	0	0	0	0	0	0	10	0	6	0
August	8.4	SW.	35	W.	2	8	2	11	8	11	11	7	4	0	13	12	6	6	5	0	0	0	1	0	0	5	0	5	0
September	10.1	NE.	37	NW.	2	15	11	7	4	8	9	1	5	0	13	8	9	8	8	0	0	0	4	0	0	1	0	6	0
October	11.5	S.	35	W.	1	0	7	3	7	17	10	4	13	1	8	9	14	11	8	0	0	0	5	0	0	0	0	0	0
November	10.8	S.	28	S.	0	7	6	7	7	15	4	4	10	0	9	6	15	9	7	8	4	0	4	2	6	0	17	0	0
December	11.6	SW.	35	S.	1	4	6	2	7	16	12	9	6	0	5	6	20	13	8	11	5	1	7	3	11	0	22	2	0
Year	10.8	S.	41	SW.	14	69	72	72	64	140	116	95	102	2	111	121	134	112	91	42	16	1	55	9	30	17	94	40	0

ITHACA, N.Y.

[H_b=836 ft.; h_t=77 ft.; h_r=76 ft.; h_a=100 ft.]

January	11.9	SE.	34	NW.	2	4	1	0	17	14	3	5	18	0	1	3	27	14	12	16	5	0	5	1	1	0	19	0	0
February	11.9	NW.	31	NW.	0	4	1	3	8	14	3	5	20	0	2	7	20	18	12	16	14	0	5	0	6	0	25	1	0
March	12.4	NW.	32	SE.	1	5	2	3	6	7	3	10	26	0	3	6	22	13	7	23	11	0	2	0	9	0	28	0	0
April	11.1	NW.	32	S.	1	6	1	8	7	7	0	7	24	0	6	6	18	11	11	6	3	0	7	1	0	0	13	0	0
May	9.0	NW.	27	SE.	0	5	1	4	13	15	2	3	19	0	8	11	12	15	11	0	0	0	4	0	0	0	1	8	1
May	8.1	NW.	27	NW.	0	6	0	8	10	8	5	7	16	0	5	14	11	14	10	0	0	1	7	0	0	0	0	6	0
June	8.6	NW.	29	W.	0	7	0	3	8	9	4	6	25	0	6	12	13	12	8	0	0	1	2	0	0	1	0	6	0
July	8.6	NW.	35	NW.	1	7	1	17	8	11	1	6	10	1	12	14	5	9	6	0	0	0	3	0	0	6	0	2	0
August	7.4	NW.	35	NW.	1	7	1	17	8	11	1	6	10	1	12	14	5	9	6	0	0	0	3	0	0	6	0	2	0
September	9.2	NW.	29	S.	0	13	2	8	12	7	2	3	13	0	10	7	13	11	7	0	0	0	4	1	0	1	0	5	0
October	10.7	S.	33	SE.	2	4	6	2	20	9	4	10	7	0	2	7	22	13	8	3	0	0	8	0	0	0	1	0	0
November	10.7	NW.	38	E.	2	10	2	6	12	9	4	5	12	0	6	4	20	12	8	8	2	0	7	0	2	0	20	0	0
December	10.6	S.	32	S.	1	1	5	7	13	18	3	4	11	0	4	9	18	12	7	10	9	0	1	0	10	0	22	0	0
Year	10.1	NW.	38	E.	10	72	22	69	134	128	34	71	201	1	65	100	201	154	107	82	44	2	55	3	28	8	129	28	1

JACKSONVILLE, FLA.

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

January	11.2	S.	30	SW.	0	7	7	14	15	8	2	4	5	0	4	19	8	4	3	0	0	0	6	4	0	0	0	0	0
February	8.4	NE.	28	NW.	0	8	16	3	4	6	13	4	5	0	7	13	9	6	5	0	0	0	7	6	0	0	0	1	0
March	13.0	NW.	46	SW.	5	9	6	4	3	7	9	6	6	0	12	12	6	6	4	0	0	0	2	1	0	0	0	2	0
April	11.9	S.	37	S.	2	5	8	14	3	7	9	6	6	0	13	12	6	6	6	0	0	0	1	1	0	3	0	7	0
May	11.2	E.	32	W.	1	2	12	20	9	4	2	9	4	0	6	13	11	19	19	0	0	0	0	0	0	10	0	18	0
June	10.3	S.	32	SW.	1	4	5	9	11	21	7	1	2	0	12	16	3	11	10	0	0	0	0	0	0	24	0	14	0
July	10.1	SW.	39	SW.	2	2	3	9	3	16	17	12	9	0	5	14	12	17	11	0	0	0	1	0	0	11	0	17	0
August	9.8	E.	35	SW.	2	4	7	19	9	7	11	4	1	0	4	14	12	13	12	0	0	0	0	0	0	2	0	3	0
September	9.8	E.	39	SW.	2	8	11	23	6	3	3	3	4	0	11	10	10	8	6	0	0	0	2	2	0	0	0	0	0
October	11.1	E.	35	SE.	2	14	12	11	7	6	4	4	4	0	11	7	13	13	12	0	0	0	3	1	0	0	0	1	0
November	11.9	NE.	37	NW.	1	18	14	7	1	2	2	7	9	0	11	7	12	13	12	0	0	0	8	6	0	0	0	0	0
December	10.9	S.	32	SW.	1	8	16	4	11	11	6	1	5	0	5	15	11	4	2	0	0	0	8	6	0	0	0	0	0
Year	10.8	S.	49	SW.	19	89	116	137	88	98	80	69	55	0	102	154	110	119	102	0	0	0	32	22	0	59	1	67	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

KALISPELL, MONT.

[ϕ=48°10′ N.; λ=114°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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	26.93	27.45	25.99	17.3	22.3	21.5	26.4	13.0	19.7	48	−10	15	18	18	91	83	84	0.093	0.106	0.103	1.18	0.30	15.5	7.9	8.8	8.6	8.6
February	26.87	27.19	26.16	21.1	29.3	29.7	33.5	17.9	25.7	62	−11	19	21	24	89	71	79	.116	.122	.135	.65	.20	4.4	5.0	8.2	7.8	7.9
March	26.93	27.46	26.44	23.5	32.5	33.1	36.4	20.9	28.6	58	−6	21	24	25	89	70	73	.125	.135	.141	1.75	.68	16.8	7.2	7.9	7.8	7.5
April	26.88	27.31	26.45	36.4	49.7	50.6	54.0	34.3	44.2	72	27	31	33	32	81	55	51	.170	.189	.183	1.06	.52	.1	6.7	7.7	6.9	6.9
May	26.91	27.21	26.35	43.2	59.1	59.5	63.7	41.6	52.6	81	30	38	38	38	81	48	51	.228	.236	.239	1.96	.71	T	5.8	6.4	6.8	6.1
June	26.89	27.20	26.51	50.4	68.4	71.3	73.5	48.8	61.2	89	34	43	44	43	76	44	41	.277	.290	.284	.59	.43	.0	4.6	5.7	5.6	5.2
July	26.89	27.14	26.56	53.0	74.4	77.6	80.1	51.5	65.8	95	42	43	42	40	69	34	29	.280	.278	.256	.68	.48	.0	3.6	3.9	4.0	3.8
August	26.89	27.11	26.52	53.5	72.8	76.1	78.7	51.7	65.2	96	40	44	45	43	72	41	36	.291	.309	.283	1.85	.83	.0	4.0	4.3	4.5	4.4
September	27.02	27.24	26.61	43.0	64.4	66.4	69.6	40.0	54.8	84	29	36	40	41	79	43	42	.213	.247	.257	.15	.11	.0	2.4	3.0	3.8	3.3
October	27.00	27.33	26.50	37.4	47.3	47.0	51.1	33.4	42.2	78	12	33	34	35	83	63	65	.190	.202	.206	1.35	.35	1.9	7.1	7.5	7.8	7.5
November	26.95	27.35	26.41	33.6	40.4	39.8	43.9	30.9	37.4	59	22	31	32	32	89	74	75	.173	.179	.181	1.34	.39	2.5	5.7	8.1	8.5	8.0
December	26.96	27.45	26.32	18.1	23.1	23.2	27.5	14.0	20.8	50	−15	15	18	18	88	79	81	.101	.107	.109	.96	.27	12.5	5.8	7.6	7.5	7.5
Year	26.93	27.46	25.99	35.9	48.6	49.6	53.2	33.2	43.2	96	−15	31	32	32	82	59	59	.188	.200	.198	13.43	.83	53.7	5.5	6.6	6.6	6.4

KANSAS CITY, MO.

[ϕ=39°05′ N.; λ=94°37′ W.]

January	29.04	29.57	28.32	29.1	34.5	35.1	40.0	25.5	32.8	60	4	24	26	28	81	72	75	0.139	0.149	0.160	1.12	0.52	2.4	6.1	6.0	5.2	6.1
February	28.98	29.37	28.20	35.7	46.1	47.0	51.5	32.4	42.0	78	8	30	32	36	78	59	66	.177	.191	.222	.63	.28	2.6	5.6	5.3	5.7	5.1
March	28.97	29.50	28.32	30.2	40.2	40.2	45.1	27.6	36.4	73	5	23	24	27	75	54	61	.141	.149	.166	2.30	1.19	4.7	6.2	5.6	5.2	5.5
April	28.91	29.41	28.41	50.8	61.7	63.5	66.9	48.6	57.8	82	35	41	41	44	70	51	52	.274	.272	.311	2.50	1.25	.0	6.2	5.7	5.2	5.4
May	28.99	29.34	28.67	60.7	71.8	73.1	76.5	57.6	67.0	89	45	48	50	52	66	49	50	.352	.380	.409	2.63	1.05	.0	4.5	5.0	3.4	4.1
June	28.86	29.10	28.61	70.8	81.8	79.8	85.0	68.0	76.5	94	62	63	62	62	77	51	56	.575	.555	.566	2.73	1.17	.0	5.6	5.4	5.9	5.1
July	28.93	29.18	28.48	75.0	85.9	87.1	90.3	72.5	81.4	98	63	65	65	67	73	51	53	.633	.629	.667	2.57	2.32	.0	4.1	3.5	3.2	3.5
August	28.94	29.20	28.66	72.9	84.3	82.7	88.6	69.9	79.2	96	58	63	63	65	72	50	57	.592	.583	.632	4.90	1.96	.0	4.2	3.3	3.5	3.6
September	29.06	29.39	28.70	60.9	74.6	73.3	78.3	59.7	69.0	94	50	50	50	52	69	42	49	.377	.368	.404	1.36	.65	.0	4.7	3.6	3.7	3.7
October	28.97	29.34	28.54	49.1	60.9	59.0	64.8	46.7	55.8	82	33	40	42	42	72	53	55	.257	.279	.273	2.43	1.18	T	4.4	4.1	3.5	4.0
November	29.13	29.62	28.63	33.8	45.1	43.4	49.5	30.7	40.1	67	11	26	28	28	72	52	55	.145	.160	.159	1.49	1.02	6.4	3.6	4.4	3.3	4.1
December	29.08	29.64	28.33	26.5	33.4	32.8	37.7	22.2	30.0	68	−5	19	21	22	74	62	66	.124	.135	.141	2.41	1.05	6.4	4.7	3.9	4.9	4.9
Year	28.99	29.64	28.20	49.6	60.0	59.7	64.5	46.8	55.7	98	−5	41	42	44	73	54	58	.316	.321	.342	27.07	2.32	22.5	5.0	4.6	4.4	4.6

KEOKUK, IOWA

[ϕ=40°22′ N.; λ=91°26′ W.]

January	29.41	30.07	28.77	29.7	34.7	34.0	39.4	26.0	32.7	61	−1	24	25	26	80	66	74	0.141	0.143	0.151	1.28	0.46	1.7	6.7	7.6	5.7	7.4
February	29.36	29.91	28.49	32.0	41.2	41.5	47.7	28.3	38.0	73	13	27	26	30	79	57	63	.155	.155	.176	.98	.59	2.1	6.0	5.7	5.1	5.8
March	29.33	29.84	28.73	27.9	35.5	35.6	41.0	24.8	32.9	76	3	20	20	23	72	54	60	.127	.127	.133	1.56	.48	4.8	6.2	6.0	5.1	5.9
April	29.31	29.75	28.84	46.2	57.9	58.7	63.7	42.9	53.3	80	32	38	38	38	74	50	50	.242	.245	.249	1.20	.64	.0	5.8	7.0	5.9	6.5
May	29.36	29.71	29.05	59.4	71.7	72.1	76.5	54.1	65.3	90	41	47	45	47	65	42	44	.336	.321	.347	2.50	.76	.0	4.2	4.2	4.5	4.2
June	29.24	29.44	28.98	69.2	80.2	77.9	84.3	64.7	74.5	94	58	61	62	63	75	55	62	.541	.563	.580	5.51	1.41	.0	6.1	5.7	6.4	6.1
July	29.30	29.57	28.84	72.9	83.3	82.5	88.0	68.6	78.3	97	56	63	64	65	72	53	57	.587	.601	.625	4.53	.97	.0	4.7	4.7	2.9	4.2
August	29.32	29.59	29.06	69.5	79.2	77.5	83.2	65.6	74.4	93	56	63	64	65	80	61	66	.578	.603	.621	8.93	4.17	.0	5.1	5.3	4.3	5.1
September	29.44	29.77	29.13	58.7	72.9	69.1	76.6	55.9	66.2	86	42	51	49	51	77	45	53	.387	.368	.386	1.43	.85	.0	4.1	3.5	3.6	3.4
October	29.32	29.62	28.97	46.3	59.2	55.7	63.1	43.2	53.2	82	30	39	40	41	78	51	60	.254	.264	.272	2.96	2.40	T	4.9	4.7	4.6	4.9
November	29.50	30.04	28.85	30.9	41.9	38.9	46.3	27.8	37.0	63	12	25	26	27	79	54	61	.142	.151	.152	1.78	1.32	3.3	4.9	5.8	4.1	5.1
December	29.45	30.05	28.58	24.9	31.1	29.6	36.4	19.8	28.1	64	−9	18	19	21	75	61	68	.125	.126	.134	4.00	1.46	6.6	5.7	5.2	4.9	5.3
Year	29.36	30.07	28.49	47.3	57.4	56.1	62.2	43.5	52.8	97	−9	40	40	41	76	54	60	.301	.306	.319	36.66	4.17	18.5	5.4	5.4	4.7	5.3

KEY WEST, FLA.

[ϕ=24°33′ N.; λ=81°48′ W.]

January	30.09	30.27	29.84	71.3	76.7	72.4	78.3	69.3	73.8	83	58	65	66	65	82	71	79	0.630	0.651	0.631	3.57	2.34	0.0	4.8	4.6	3.9	4.8
February	30.04	30.27	29.82	73.5	79.6	74.3	80.8	71.1	76.0	85	68	67	67	66	79	67	73	.656	.676	.638	2.07	2.04	.0	3.8	3.0	1.9	3.2
March	29.96	30.20	29.46	71.4	75.5	71.2	78.3	66.8	72.6	85	57	63	64	62	75	68	75	.592	.612	.586	.92	.36	.0	5.7	4.8	4.6	5.2
April	29.96	30.19	29.70	74.1	78.5	73.6	80.6	69.4	75.0	85	62	65	65	64	73	64	74	.620	.627	.612	.93	.68	.0	3.8	3.2	3.1	3.5
May	29.95	30.08	29.82	79.2	82.2	77.7	84.5	72.8	78.6	88	67	69	70	69	72	67	74	.719	.736	.704	5.96	3.90	.0	4.0	4.8	5.2	4.8
June	29.93	30.07	29.80	82.6	85.4	81.2	87.5	77.4	82.4	90	65	75	76	74	78	74	80	.867	.904	.847	5.14	3.07	.0	5.4	5.6	6.0	6.0
July	29.99	30.12	29.86	84.6	88.2	83.1	90.2	78.9	84.6	93	70	74	75	74	72	66	73	.844	.872	.828	1.23	.58	.0	4.1	3.0	4.9	4.6
August	29.92	30.04	29.60	83.5	87.6	82.6	90.1	78.4	84.2	93	71	75	76	74	75	69	76	.858	.892	.841	6.63	2.14	.0	6.6	5.2	6.4	6.3
September	29.89	30.03	29.72	83.3	86.8	82.1	88.3	79.0	83.6	92	74	74	76	74	74	69	78	.849	.884	.854	3.29	1.49	.0	5.1	3.5	5.8	5.2
October	29.91	30.08	29.69	79.8	84.1	79.3	85.3	75.7	80.5	90	72	72	73	72	78	70	80	.794	.818	.791	7.48	3.96	.0	4.3	4.4	4.0	5.1
November	29.99	30.21	29.68	71.2	75.0	71.6	76.9	67.4	72.2	86	56	64	65	63	80	71	75	.626	.630	.599	2.77	1.03	.0	4.8	4.4	3.8	5.0
December	30.09	30.25	29.96	70.8	76.3	72.1	77.6	69.0	73.3	83	61	65	66	66	82	70	82	.622	.632	.644	.43	.21	.0	4.0	5.2	2.3	4.4
Year	29.98	30.27	29.46	77.1	81.3	76.8	83.2	72.9	78.1	93	56	69	70	69	77	69	77	.723	.744	.715	40.42	3.96	.0	4.7	4.3	4.3	4.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

KALISPELL, MONT.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	5.1	NW.	24	SW.	0	4	4	0	4	3	2	13	24	8	0	9	22	16	10	23	14	0	3	1	20	0	31	0	0
February	6.0	NW.	24	SW.	0	2	2	9	6	10	10	12	13	3	2	8	19	10	6	15	7	0	2	0	12	0	25	0	0
March	6.5	NW.	21	NW.	0	7	3	4	9	6	11	8	13	1	5	3	23	12	10	14	5	0	1	2	12	0	21	0	0
April	7.0	NW.	25	SW.	0	1	5	2	10	9	8	12	13	0	2	17	11	12	7	3	1	0	0	0	0	0	12	0	0
May	6.7	NW.	23	SW.	0	0	3	4	13	6	7	8	20	1	5	14	12	14	9	2	0	1	0	0	0	0	1	1	0
June	6.5	NW.	21	SW.	0	2	2	3	11	3	5	14	20	0	8	13	9	5	2	0	0	0	0	0	0	0	0	2	0
July	7.2	NW.	22	W.	0	3	1	2	9	0	8	17	20	2	13	14	4	6	5	0	0	1	0	0	0	4	0	5	0
August	6.9	NW.	24	NE.	0	3	2	4	8	1	11	10	20	3	12	14	5	7	6	0	0	1	1	0	0	4	0	10	0
September	6.6	NW.	31	W.	0	2	0	4	11	4	7	7	24	1	18	8	4	4	2	0	0	0	0	0	0	0	3	0	0
October	5.9	NW.	25	NE.	0	8	4	4	6	7	7	6	18	2	3	8	20	14	8	5	4	0	6	1	0	0	16	0	0
November	5.3	NW.	32	W.	1	5	1	1	7	8	8	18	9	3	0	12	18	13	9	11	8	0	4	1	0	0	17	0	0
December	6.1	NW.	25	NE.	0	4	4	0	6	9	10	12	16	1	2	10	19	13	7	21	11	0	1	1	14	0	26	0	0
Year	6.3	NW.	32	W.	1	41	31	28	100	66	94	137	210	25	70	130	166	126	81	94	50	3	18	6	58	8	152	21	0

KANSAS CITY, MO.

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

January	10.3	SW.	26	SW.	0	3	4	6	8	7	11	11	12	0	6	13	12	11	6	10	2	0	11	2	5	0	27	0	0
February	10.3	SW.	31	W.	0	1	6	8	9	7	10	6	11	0	11	10	8	10	4	4	4	0	6	0	3	0	17	1	0
March	12.0	NW.	31	NW.	0	7	5	4	6	3	6	11	20	0	11	12	8	9	6	8	2	1	1	0	8	0	17	1	0
April	11.0	E.	32	SW.	1	9	2	16	11	4	5	6	7	0	10	9	11	10	7	0	0	0	1	0	0	0	8	0	0
May	9.0	SE.	31	NW.	0	2	1	9	18	8	6	10	8	0	16	9	6	12	9	0	0	0	0	0	0	0	8	0	0
June	7.5	S.	30	NW.	0	4	2	6	12	11	10	5	10	0	7	18	5	11	11	0	0	0	1	1	0	7	0	15	0
July	8.4	S.	31	NW.	0	3	3	11	15	11	13	2	4	0	17	10	4	8	4	0	0	0	0	0	0	18	0	8	0
August	8.1	SE.	24	NE.	0	6	3	12	13	14	8	4	2	0	15	12	4	9	8	0	0	0	1	0	0	14	0	9	0
September	8.6	E.	34	NW.	1	9	6	15	13	4	2	2	9	0	18	7	5	7	4	0	0	0	0	0	0	1	0	7	0
October	10.9	SW.	37	W.	1	5	3	7	10	7	10	8	12	0	16	7	8	7	5	1	0	0	3	1	0	0	4	0	0
November	10.2	SE.	32	NW.	1	7	0	9	13	8	11	7	5	0	17	6	7	3	3	5	2	0	3	2	2	0	17	0	0
December	9.7	SW.	35	W.	2	6	4	2	12	0	12	6	11	0	13	7	11	8	6	4	3	0	5	2	12	0	20	0	0
Year	9.7	SW.	37	W.	6	62	39	105	140	93	104	78	111	0	157	120	89	105	73	32	13	1	32	8	30	40	98	61	0

KEOKUK, IOWA

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

January	8.7	SW.	24	W.	0	9	1	6	9	3	11	11	12	0	6	1	24	9	8	7	3	0	2	0	7	0	21	0	0
February	8.4	SW.	28	W.	0	5	6	2	7	4	13	8	10	3	8	11	10	7	4	6	4	0	2	0	2	0	20	1	0
March	9.9	NW.	27	SW.	0	7	7	5	8	2	8	4	24	0	9	9	13	10	7	11	4	0	1	0	8	0	21	1	0
April	8.7	E.	24	W.	0	8	6	11	18	1	5	1	9	4	5	11	14	8	5	0	0	0	1	0	0	0	0	3	0
May	7.6	SW.	24	S.	0	2	4	7	6	12	12	3	11	5	15	8	8	8	8	0	0	0	0	0	1	0	6	0	0
June	6.0	E.	38	W.	1	7	8	10	11	6	7	7	4	0	5	13	12	13	10	0	0	0	0	0	0	6	0	10	0
July	8.7	SW.	26	SW.	0	8	5	3	10	14	13	2	7	0	17	5	9	10	10	0	0	0	0	0	0	14	0	9	0
August	6.6	SW.	30	NW.	0	5	2	7	13	12	12	3	5	3	11	12	8	10	9	0	0	0	1	1	0	5	0	8	0
September	6.4	N.	24	S.	0	16	9	10	2	7	3	3	4	6	14	13	3	4	4	0	0	0	1	0	0	0	0	2	0
October	8.7	SW.	31	NW.	0	11	7	6	3	5	15	5	7	3	15	5	11	6	5	1	0	0	2	1	0	0	1	0	0
November	8.5	SW.	24	NW.	0	8	2	4	8	10	12	7	7	2	10	12	8	5	4	4	3	0	3	2	4	0	22	0	0
December	8.6	SW.	27	W.	0	5	5	1	4	12	20	6	8	1	12	7	12	9	9	6	4	0	5	4	13	0	24	1	0
Year	7.9	SW.	38	W.	1	91	62	72	93	88	131	60	108	27	127	107	132	99	83	35	18	0	18	8	34	26	109	41	0

KEY WEST, FLA.

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

January	10.8	E.	27	N.	0	2	17	25	15	1	0	0	2	0	9	17	5	11	5	0	0	0	0	0	0	0	0	2	0
February	9.5	SE.	24	NW.	0	7	9	14	17	3	0	0	7	1	18	10	1	4	2	0	0	0	0	0	0	0	0	2	0
March	11.3	N.	40	SW.	3	11	9	4	13	7	2	4	11	1	10	12	9	5	5	0	0	0	0	0	0	0	0	5	0
April	10.2	E.	24	NW.	0	8	10	17	10	5	2	3	4	1	16	10	4	5	2	0	0	0	0	0	0	0	0	1	0
May	9.0	E.	24	W.	0	7	9	12	13	4	2	1	14	0	14	10	7	11	8	0	0	0	0	0	0	0	0	8	0
June	8.7	SE.	32	S.	1	0	7	16	13	11	5	4	3	1	6	14	10	11	11	0	0	0	0	0	0	1	0	14	0
July	7.5	SE.	29	E.	0	4	7	21	15	8	3	1	2	0	10	18	3	9	7	0	0	0	0	0	0	18	0	16	0
August	8.7	E.	30	S.	0	6	5	18	16	11	5	0	0	1	7	14	10	20	15	0	0	0	0	0	0	17	0	16	0
September	9.6	E.	21	SE.	0	3	12	25	5	3	5	5	2	0	5	20	5	12	10	0	0	0	0	0	0	5	0	9	0
October	10.2	E.	26	S.	0	6	16	21	13	2	0	3	1	0	10	15	6	14	11	0	0	0	0	0	0	1	0	5	0
November	11.0	NE.	29	N.	0	14	23	12	4	1	2	2	2	0	11	12	7	11	6	0	0	0	0	0	0	0	0	1	0
December	10.0	NE.	24	NW.	0	5	24	18	8	5	1	0	1	0	13	14	4	8	2	0	0	0	0	0	0	0	0	0	0
Year	9.7	E.	40	SW.	4	73	148	203	142	61	27	23	48	7	128	166	71	119	84	0	0	1	0	0	0	42	0	79	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

KNOXVILLE, TENN.

[ϕ=35°56′ N.; λ=83°58′ W.]

Month	Pressure			Temperature								Moisture																	
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation			Cloudiness				
	Monthly mean	Maximum	Minimum	8 a.m.	Noon, local time	8 p.m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a.m.	Noon, local time	8 p.m.	8 a.m.	Noon, local time	8 p.m.	8 a.m.	Noon, local time	8 p.m.	Total	Maximum in 24 hours	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight	
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*					
January	29.10	29.62	28.48	43.6	52.1	51.0	56.9	40.0	48.4	74	25	38	40	41	81	65	70	0.246	0.270	0.285	5.37	1.68	0.0	6.1	6.0	6.1	6.1	
February	29.00	29.55	28.60	44.5	53.7	53.8	59.3	41.4	50.4	76	26	38	38	37	79	59	56	.245	.244	.233	5.76	1.21	T	5.5	5.2	5.3	5.3	
March	28.89	29.30	28.28	39.7	49.0	48.4	55.3	35.8	45.6	77	15	28	30	31	64	51	54	.174	.185	.204	4.88	1.48	.8	5.8	6.4	5.1	5.9	
April	28.94	29.25	28.62	52.9	64.2	63.1	70.1	49.1	59.6	82	36	42	44	42	68	50	52	.284	.303	.292	5.47	2.64	.0	5.0	5.6	6.3	5.6	
May	29.00	29.20	28.72	62.0	73.6	70.3	78.3	57.0	67.6	87	45	53	52	51	74	48	54	.415	.391	.390	1.59	.82	.0	3.8	4.2	4.6	4.3	
June	28.90	29.15	28.65	71.2	82.4	78.2	87.2	66.5	76.8	95	60	64	62	64	77	52	64	.593	.573	.599	4.49	1.30	.0	5.0	4.9	5.7	5.2	
July	28.94	29.16	28.61	74.2	85.2	82.3	90.5	69.3	79.9	99	57	67	67	67	78	56	62	.669	.674	.675	3.58	.78	.0	3.5	4.7	4.4	4.1	
August	28.97	29.21	28.75	71.9	83.0	80.3	88.3	68.4	78.4	99	63	66	67	66	82	60	64	.643	.660	.650	5.77	1.41	.0	4.4	4.5	3.8	4.3	
September	29.02	29.25	28.81	65.5	77.9	73.2	82.2	61.9	72.0	90	49	58	58	58	77	53	62	.493	.500	.501	3.67	1.75	.0	4.2	5.0	4.5	4.9	
October	28.99	29.30	28.43	51.4	66.1	61.8	69.7	48.8	59.2	80	35	47	50	52	84	58	71	.332	.373	.397	5.34	3.20	.0	4.4	4.4	4.4	4.4	
November	29.12	29.60	28.65	39.8	50.8	48.3	55.8	36.0	45.9	76	26	34	32	34	79	52	58	.209	.198	.212	3.22	1.42	T	5.1	4.2	3.1	4.3	
December	29.11	29.49	28.58	39.1	46.5	45.1	51.0	35.3	43.2	71	16	35	37	36	86	72	74	.222	.235	.230	8.41	2.45	3.5	6.9	7.3	7.0	7.3	
Year	29.00	29.62	28.28	54.6	65.4	63.0	70.4	50.8	60.6	99	15	48	48	48	77	56	62	.377	.384	.389	57.55	2.64	4.3	5.0	5.2	5.0	5.1	

LA CROSSE, WIS.

[ϕ=43°49′ N.; λ=91°15′ W.]

January	29.25	30.00	28.60	20.7	25.8	24.2	29.8	15.4	22.6	44	−13	18	20	20	90	78	84	0.109	0.116	0.116	2.26	0.64	18.9	7.6	8.1	7.8	7.9	
February	29.20	29.97	28.11	17.7	27.7	27.1	34.0	14.1	24.0	56	−3	15	20	21	89	70	76	.008	.116	.120	1.78	.78	9.9	4.7	5.3	5.7	5.7	
March	29.19	29.69	28.61	20.0	28.5	27.4	33.1	17.0	25.0	65	−5	17	18	19	85	63	69	.103	.107	.109	1.34	.93	12.0	6.5	6.0	6.1	6.4	
April	29.24	29.57	28.87	39.6	53.6	52.7	57.7	37.2	47.4	78	27	33	32	34	77	46	50	.189	.187	.200	2.81	1.58	T	5.3	6.0	6.9	5.9	
May	29.21	29.55	28.83	54.0	67.5	65.9	71.9	49.1	60.5	93	36	48	48	48	80	52	56	.340	.343	.350	3.82	1.98	.0	6.2	5.8	6.2	6.1	
June	29.12	29.40	28.72	64.8	77.7	75.7	81.8	60.8	71.3	91	54	60	61	61	86	58	62	.535	.546	.546	3.61	1.87	.0	6.1	6.8	5.6	6.5	
July	29.15	29.48	28.71	66.2	82.0	78.7	85.6	61.5	73.6	99	49	60	61	60	81	51	55	.532	.560	.540	2.58	1.25	.0	3.9	3.9	3.1	3.7	
August	29.18	29.49	28.87	63.9	77.6	74.7	81.6	60.8	71.2	92	50	60	60	61	87	57	63	.519	.535	.540	4.15	1.48	.0	5.8	6.2	3.5	5.6	
September	29.31	29.69	28.90	50.3	69.5	62.6	71.9	46.5	59.2	84	34	47	46	50	90	45	65	.334	.328	.373	1.32	.66	.0	3.3	2.9	2.5	3.1	
October	29.18	29.55	28.63	41.6	52.1	49.4	56.3	37.5	46.9	81	26	36	35	40	83	60	70	.228	.241	.258	.74	.28	.6	6.7	7.8	6.5	7.5	
November	29.32	29.97	28.65	27.4	37.3	33.9	40.6	22.8	31.7	62	4	22	25	25	80	60	70	.128	.143	.143	1.23	.97	.7	5.6	6.9	5.9	6.7	
December	29.27	29.87	28.44	16.1	24.4	22.2	29.1	12.1	20.6	55	−21	13	16	18	87	71	81	.095	.105	.111	2.15	1.15	7.5	6.0	5.3	5.3	5.6	
Year	29.22	30.00	28.11	40.2	52.0	49.5	56.1	36.2	46.2	99	−21	36	37	38	85	59	67	.268	.277	.284	27.79	1.98	49.6	5.6	5.9	5.4	5.9	

LANDER, WYO.

[ϕ=42°50′ N.; λ=108°45′ W.]

January	24.55	24.93	23.65	3.7	15.8	11.9	21.8	−2.5	9.6	50	−28	1	11	9	90	81	88	0.049	0.073	0.067	0.93	0.44	11.4	3.3	4.5	4.0	4.3	
February	24.54	24.94	23.96	18.1	33.2	32.1	39.0	12.5	25.8	68	−15	12	20	20	77	60	62	.082	.107	.111	.06	.06	.9	2.0	3.6	3.4	3.0	
March	24.56	24.97	24.16	20.8	35.5	36.5	42.2	17.6	29.9	65	−5	15	18	18	76	52	51	.087	.100	.098	.44	.28	4.5	3.9	5.4	4.4	4.5	
April	24.57	24.95	23.93	34.1	49.9	50.7	55.4	30.9	43.2	71	22	24	25	23	67	42	40	.127	.133	.124	2.33	.71	18.9	7.0	5.8	5.9	6.0	
May	24.62	24.90	24.23	42.5	60.8	62.2	66.5	40.0	53.2	83	29	33	33	33	70	39	38	.189	.194	.191	1.40	.44	2.1	5.7	4.6	4.7	4.9	
June	24.62	24.83	24.31	51.0	70.6	70.9	77.0	48.9	63.0	96	37	42	42	41	73	39	38	.272	.277	.274	.93	.44	.0	3.0	4.4	5.1	4.5	
July	24.67	24.91	24.29	57.3	80.9	81.7	87.1	54.2	70.6	94	40	42	40	38	58	24	23	.270	.257	.243	.14	.09	.0	3.0	3.0	4.4	3.8	
August	24.66	24.89	24.27	54.1	79.1	79.7	85.0	52.3	68.6	94	31	39	39	39	58	26	26	.243	.251	.243	.16	.08	.0	1.8	2.9	4.1	2.8	
September	24.74	25.01	24.30	45.0	69.5	70.5	75.9	42.3	59.1	89	34	31	32	30	61	27	25	.176	.180	.170	T	T	.0	1.8	2.1	2.9	2.7	
October	24.68	25.01	24.31	31.7	48.8	46.6	54.9	27.8	41.4	79	5	24	26	27	74	46	53	.133	.141	.149	2.02	1.59	11.4	2.6	3.9	3.7	4.3	
November	24.70	24.95	24.30	28.4	44.0	39.4	50.5	23.1	36.8	64	8	19	21	21	69	41	47	.101	.111	.111	.12	.12	1.1	1.5	4.1	5.5	5.6	
December	24.58	24.89	24.25	4.4	16.0	11.1	22.2	−3.0	9.6	53	−28	0	7	5	79	69	76	.048	.062	.067	.67	.26	6.4	4.3	2.1	2.5	4.6	
Year	24.62	25.01	23.65	32.6	50.3	49.4	56.5	28.7	42.6	96	−28	24	26	25	71	46	47	.148	.157	.153	9.29	1.59	56.7	3.3	3.9	4.2	4.2	

LANSING, MICH.

[ϕ=42°44′ N.; λ=84°26′ W.]

January	29.08	29.70	28.44	32.7	35.3	33.5	38.9	28.7	33.8	55	4	31	31	31	94	85	90	0.180	0.182	0.180	2.86	0.91	0.6	8.7	9.2	7.6	8.9	
February	29.01	29.69	28.14	27.1	34.2	31.7	37.9	22.4	30.2	60	9	24	26	27	89	71	83	.139	.150	.154	1.74	.84	6.6	7.7	6.8	6.0	6.8	
March	28.95	29.40	28.30	23.5	31.6	27.7	33.5	19.1	26.5	55	2	22	24	24	92	73	86	.121	.136	.132	2.09	1.20	19.1	7.1	8.8	7.8	7.9	
April	29.05	29.53	28.66	37.6	50.0	45.6	52.8	32.3	42.6	73	23	31	32	34	76	55	65	.175	.187	.199	2.18	.74	2.2	5.9	6.0	4.6	5.5	
May	29.08	29.50	28.75	54.4	65.6	60.3	68.4	48.3	57.4	86	31	48	49	50	79	58	71	.352	.372	.383	5.03	2.07	.0	5.1	5.5	5.3	5.3	
June	28.98	29.27	28.53	64.2	76.6	72.4	78.7	56.7	67.7	86	43	58	59	60	89	56	66	.493	.518	.531	1.24	.48	.0	5.4	4.9	5.4	5.2	
July	28.98	29.27	28.49	65.6	79.1	74.5	81.5	59.0	70.2	95	48	60	60	61	82	54	64	.522	.536	.549	3.44	1.66	.0	4.0	4.9	3.8	4.4	
August	29.06	29.36	28.76	64.2	79.7	72.8	82.0	58.4	70.2	92	46	59	58	61	85	50	67	.515	.501	.547	3.71	2.74	.0	3.1	4.6	4.3	4.8	
September	29.16	29.47	28.74	54.3	68.6	61.8	70.5	49.6	60.0	85	35	52	52	53	92	58	74	.405	.407	.419	3.04	2.00	.0	4.2	4.8	3.5	4.8	
October	29.01	29.37	28.65	46.0	55.0	49.8	58.1	42.0	50.0	74	31	44	46	45	94	72	85	.301	.322	.314	4.98	1.46	T	7.6	7.2	7.6	7.9	
November	29.20	29.84	28.66	30.0	39.0	34.2	42.1	26.2	34.2	64	11	28	30	31	91	72	87	.159	.177	.181	1.42	.60	6.3	5.8	6.8	6.2	6.8	
December	29.11	29.67	28.49	24.7	31.9	27.2	34.6	19.5	27.0	56	−5	23	26	25	94	79	91	.137	.157	.148	2.49	.73	4.7	7.5	7.0	6.1	7.2	
Year	29.06	29.84	28.14	43.7	53.9	49.3	56.6	38.4	47.5	95	−5	40	41	42	87	65	77	.292	.304	.311	34.22	2.74	38.9	6.0	6.4	5.7	6.3	

Annual meteorological summaries for the year ending December 31, 1932—Continued

KNOXVILLE, TENN.

[H_b=995 ft.; h_t=79 ft.; h_r=72 ft.; h_a=97 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Snow: Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° temperature or below: Minimum	Electricity: Thunder-storm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.0	SW.	32	SW.	1	11	15	11	3	4	22	4	2	0	8	7	16	14	13	0	0	0	13	3	0	0	6	0	0
February	7.5	SW.	35	S.	1	13	11	1	2	4	18	4	5	0	11	7	11	13	12	1	0	0	10	0	0	0	2	6	0
March	8.5	SW.	30	SW.	0	12	6	6	2	2	16	11	7	0	9	8	14	12	10	7	2	0	4	0	1	0	12	3	0
April	7.5	SW.	29	SW.	0	8	12	3	3	8	21	4	1	0	8	10	12	8	7	0	0	1	9	1	0	0	0	3	0
May	6.8	SW.	27	SW.	0	13	15	4	2	5	10	10	3	0	14	10	7	8	6	0	0	0	5	1	0	0	0	6	2
June	5.9	SW.	30	N.	0	8	6	9	3	9	15	6	4	0	10	13	7	12	12	0	0	0	15	3	0	0	0	14	0
July	6.5	SW.	31	N.	0	14	10	3	0	4	21	7	3	0	15	12	4	11	10	0	0	0	9	0	0	21	0	12	0
August	5.3	SW.	23	W.	0	12	10	6	5	8	12	5	2	2	17	7	7	11	10	0	0	0	18	3	0	12	0	10	0
September	5.8	NE.	24	SW.	0	17	18	3	2	2	7	8	2	1	12	9	9	8	7	0	0	1	9	1	0	4	0	2	0
October	5.8	NE.	27	S.	0	14	14	7	3	4	10	1	5	4	16	4	11	10	10	0	0	0	20	0	0	0	0	0	0
November	6.2	NE.	21	SW.	0	10	21	6	4	5	5	3	5	1	15	5	10	9	9	1	0	0	14	3	0	0	11	0	0
December	6.0	NE.	25	NW.	0	15	17	5	4	6	6	6	3	0	5	7	19	20	17	4	2	0	22	5	2	0	12	0	0
Year	6.6	SW.	35	S.	2	147	155	54	33	61	163	69	42	8	140	99	127	136	123	13	4	2	148	20	3	46	43	56	2

LA CROSSE, WIS.

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

January	5.9	W.	18	S.	0	9	1	3	3	13	14	13	6	0	5	2	24	16	9	20	13	0	25	2	15	0	30	0	0
February	6.0	S.	19	NW.	0	9	4	0	5	15	3	15	7	0	8	10	11	9	5	13	8	0	17	3	13	0	28	0	0
March	6.7	NW.	18	S.	0	8	0	6	8	8	4	20	0	0	8	8	15	9	5	15	8	0	12	0	14	0	30	0	0
April	6.4	SE.	18	SE.	0	6	4	13	13	4	8	2	12	0	7	10	13	9	6	3	0	0	8	0	0	0	7	3	0
May	5.9	S.	18	SW.	0	5	1	8	9	18	10	4	7	0	10	7	14	11	10	0	0	0	9	0	0	1	0	9	2
June	4.1	S.	16	SW.	0	6	2	5	9	17	10	4	7	0	5	11	14	13	10	0	0	0	13	5	0	1	0	11	0
July	4.8	S.	15	SW.	0	5	5	0	10	16	13	5	8	0	17	11	3	5	5	0	0	1	2	0	0	10	0	4	1
August	4.6	S.	13	SW.	0	7	3	1	16	22	4	2	6	1	9	13	9	9	6	0	0	0	9	2	0	2	0	5	1
September	4.4	S.	15	S.	0	3	0	1	11	20	6	9	9	1	20	5	5	5	3	0	0	0	13	8	0	0	0	4	1
October	5.7	S.	21	NW.	0	6	5	4	12	14	6	4	11	0	5	4	22	9	5	5	3	0	11	2	0	0	9	1	1
November	6.7	S.	17	SW.	0	7	1	3	15	14	6	7	7	0	7	7	16	6	4	6	3	0	7	0	6	0	24	1	0
December	6.3	S.	16	S.	0	6	1	0	4	22	6	12	11	0	10	5	16	6	4	12	4	0	7	0	15	0	30	0	0
Year	5.6	S.	21	NW.	0	77	27	44	115	183	92	81	111	2	111	93	162	107	72	74	39	1	133	22	63	14	158	38	6

LANDER, WYO.

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

January	3.6	SW.	24	SW.	0	5	6	5	4	7	17	3	6	9	14	9	8	9	6	11	9	0	0	0	24	0	31	0	0
February	5.7	SW.	35	W.	3	3	9	12	5	6	8	8	3	4	17	10	2	1	1	4	1	0	0	0	12	0	27	0	0
March	6.6	NE.	32	SW.	1	4	11	6	3	9	12	10	6	1	12	12	7	5	3	8	5	0	0	0	6	0	30	0	0
April	6.7	SW.	33	S.	2	1	5	4	8	3	12	15	8	2	8	10	12	10	7	9	6	0	0	0	0	0	17	2	0
May	6.0	SW.	40	SW.	1	3	2	6	2	4	18	15	10	2	12	13	6	8	8	5	5	0	0	0	0	0	3	3	1
June	5.4	SW.	27	W.	0	5	7	6	1	3	22	8	7	1	12	13	5	6	4	0	0	1	0	0	0	4	0	8	0
July	6.2	SW.	35	SW.	2	1	2	1	4	11	23	13	7	0	15	12	4	2	2	0	0	0	0	0	0	9	0	5	0
August	5.8	SW.	35	SW.	2	3	4	3	1	7	25	14	5	0	17	14	0	4	2	0	0	0	0	0	0	9	1	8	0
September	5.0	SW.	36	NW.	1	6	6	3	1	8	21	9	6	0	20	9	1	0	0	0	0	0	0	0	0	0	0	1	0
October	5.0	SW.	29	S.	0	2	10	4	3	12	18	10	3	0	15	9	7	6	4	9	5	0	0	0	1	0	22	0	0
November	5.9	SW.	34	SW.	3	4	1	2	1	15	17	7	10	3	5	19	6	2	2	2	2	0	0	0	1	0	28	0	0
December	3.9	SW.	27	W.	0	4	4	6	4	10	23	5	3	3	11	11	9	9	7	9	9	0	0	0	22	0	31	0	0
Year	5.5	SW.	40	SW.	15	41	67	58	37	97	216	117	74	25	158	141	67	62	46	57	42	1	0	0	66	22	190	27	1

LANSING, MICH.

[H_b=878 ft.; h_t=6 ft.; h_r=3 ft.; h_a=88 ft.]

January	10.9	SW.	30	SW.	0	0	1	5	7	10	19	12	8	0	1	5	25	17	11	15	5	0	7	0	6	0	23	1	0
February	11.4	SW.	35	SW.	2	3	4	3	6	8	12	7	15	0	4	10	15	11	8	15	4	0	5	1	10	0	24	1	0
March	11.1	W.	29	W.	0	0	1	7	4	3	11	15	15	0	0	13	18	15	11	21	12	0	2	0	13	0	30	1	0
April	10.4	NE.	24	NW.	0	7	15	8	7	3	2	2	16	0	10	9	11	12	8	7	4	0	1	0	1	0	17	1	0
May	8.3	S.	30	SW.	0	7	5	3	3	17	15	6	6	0	9	12	10	12	10	0	0	1	1	0	0	0	1	6	1
June	7.4	W.	21	W.	0	6	6	7	10	6	4	11	10	0	7	16	7	8	7	0	0	0	2	0	0	0	0	6	0
July	8.6	W.	25	W.	0	8	1	1	4	6	17	10	14	1	10	16	5	8	7	0	0	0	0	0	0	6	0	6	0
August	7.4	SW.	28	NW.	0	6	4	1	6	12	17	7	9	0	10	17	4	12	6	0	0	0	0	0	3	0	0	7	0
September	7.8	NW.	22	E.	0	7	6	4	5	8	7	7	16	0	10	12	8	7	5	0	0	0	1	1	0	0	0	3	0
October	9.7	SW.	25	W.	0	1	7	6	6	12	10	12	8	0	3	7	21	16	10	4	0	0	3	1	0	0	2	0	0
November	10.4	SW.	24	SE.	0	8	1	4	8	13	16	3	7	0	6	8	16	11	5	9	4	0	3	0	6	0	22	0	0
December	10.7	SW.	30	SW.	0	3	1	3	4	14	24	3	10	0	7	4	20	15	10	14	9	0	6	2	12	0	35	1	0
Year	9.5	SW.	35	SW.	2	62	52	52	70	112	154	95	134	1	77	129	160	144	98	85	38	1	31	5	48	9	144	33	1

Annual meteorological summaries for the year ending December 31, 1932—Continued

LEWISTON, IDAHO

[ϕ=46° 25′ N.; λ=117° 02′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.31	29.93	28.44	30.1	36.2	.....	38.2	27.7	33.0	56	15	24	25	...	77	62	...	0.129	0.135	.....	0.97	0.20	4.6	6.9	8.5	.....	8.3
February	29.27	29.62	28.57	31.7	39.1	.....	42.5	28.1	35.3	66	0	25	26	...	74	59	...	.143	.149	.....	.93	.24	4.1	8.0	7.7	.....	7.5
March	29.26	29.65	28.85	39.0	48.7	.....	52.7	37.5	45.1	66	28	34	31	...	82	52	...	.198	.179	.....	2.14	.57	3.8	7.8	7.7	.....	8.1
April	29.14	29.56	28.73	44.1	60.0	.....	65.0	42.0	53.5	80	34	37	36	...	77	42	...	.220	.215	.....	.61	.19	.0	6.8	8.3	.....	7.0
May	29.17	29.51	28.85	48.8	66.0	.....	71.4	47.4	59.4	86	39	43	45	...	82	48	...	.282	.300	.....	2.56	1.05	.0	6.3	6.1	.....	6.2
June	29.12	29.36	28.85	56.1	73.9	.....	84.7	54.8	69.8	101	46	47	44	...	72	32	...	.326	.301	.....	.50	.50	.0	3.4	3.9	.....	3.0
July	29.12	29.40	28.60	61.1	82.5	.....	88.6	59.9	74.2	103	52	41	40	...	48	23	...	.258	.251	.....	.08	.07	.0	1.9	2.2	.....	2.8
August	29.09	29.36	28.74	59.4	82.6	.....	88.6	58.1	73.4	109	46	44	44	...	57	27	...	.286	.287	.....	.27	.15	.0	2.7	1.9	.....	2.6
September	29.28	29.55	29.00	48.9	73.2	.....	81.5	46.9	64.2	97	36	37	38	...	66	29	...	.226	.230	.....	.07	.07	.0	2.5	2.2	.....	2.4
October	29.29	29.75	28.88	45.3	59.9	.....	65.0	43.0	54.0	86	30	38	38	...	76	47	...	.232	.232	.....	1.17	.40	.0	6.8	6.0	.....	6.8
November	29.31	29.75	28.73	40.9	49.1	.....	53.5	37.7	45.6	67	31	35	36	...	80	64	...	.206	.219	.....	2.68	.84	.0	7.2	8.1	.....	8.5
December	29.36	29.76	28.69	26.2	33.7	.....	37.9	22.6	30.2	61	−4	19	22	...	72	60	...	.121	.130	.....	.70	.24	2.6	6.8	7.1	.....	6.8
Year	29.23	29.93	28.44	44.3	59.2	.....	64.1	42.1	53.1	109	−4	35	35	...	72	45	...	.219	.219	.....	12.58	1.05	15.1	5.6	5.8	.....	5.9

LEXINGTON, KY.

[ϕ=38°02′ N.; λ=84°33′ W.]

January	29.09	29.63	28.49	40.0	44.8	43.7	50.9	34.6	42.8	68	17	36	37	...	84	75	...	0.228	0.243	.....	8.46	1.92	0.1	6.1	6.0	.....	6.7
February	29.00	29.59	28.50	40.3	46.9	46.1	53.4	35.7	44.6	75	21	34	34	...	79	62	...	.213	.210	.....	3.01	.94	T	5.6	4.6	.....	4.7
March	28.90	29.35	28.14	32.4	39.6	39.3	45.8	28.2	37.0	71	5	28	29	...	83	69	...	.163	.175	.....	4.05	1.72	2.0	6.5	6.2	.....	5.7
April	28.94	29.26	28.55	48.7	57.5	56.6	63.0	44.8	53.9	78	31	40	42	...	72	60	...	.258	.287	.....	3.32	1.01	T	5.8	5.0	.....	4.8
May	29.02	29.30	28.75	59.0	69.1	67.8	73.4	54.5	64.0	84	41	48	48	...	68	50	...	.347	.358	.....	.60	.19	.0	3.5	3.6	.....	3.1
June	28.91	29.11	28.67	70.1	78.8	75.0	82.7	64.8	73.8	89	55	61	59	...	73	54	...	.547	.526	.....	6.80	2.42	.0	4.2	4.4	.....	4.1
July	28.94	29.18	28.52	72.6	81.9	80.1	86.0	67.9	77.0	96	56	64	63	...	75	55	...	.611	.605	.....	2.58	1.16	.0	3.5	3.1	.....	2.9
August	28.99	29.22	28.80	70.1	80.2	78.1	84.1	67.1	75.6	96	55	63	75	...	79	61	...	.586	.623	.....	8.96	8.06	.0	3.9	3.4	.....	3.6
September	29.04	29.24	28.73	63.4	74.2	70.5	77.7	60.4	69.0	99	46	56	57	...	78	56	...	.470	.479	.....	2.76	1.00	.0	4.0	3.8	.....	3.9
October	28.98	29.26	28.52	51.6	60.3	57.5	64.8	47.5	56.2	77	34	46	48	...	81	67	...	.324	.349	.....	2.28	1.04	T	4.1	4.5	.....	4.2
November	29.13	29.64	28.56	37.7	44.9	44.3	50.9	34.2	42.6	70	18	32	33	...	82	66	...	.196	.210	.....	2.09	.66	.4	5.1	5.5	.....	4.8
December	29.11	29.54	28.45	33.5	38.8	37.5	44.5	28.8	36.6	66	0	30	31	...	89	76	...	.182	.191	.....	2.33	.82	1.6	7.1	6.0	.....	5.9
Year	29.00	29.64	28.14	51.6	59.8	58.0	64.8	47.4	56.1	99	0	45	46	...	79	63	...	.344	.355	.....	48.14	8.06	4.1	4.9	4.7	.....	4.5

LINCOLN, NEBR.

[ϕ=40°49′ N.; λ=96°45′ W.]

January	28.79	29.39	28.00	18.0	23.5	23.0	27.8	12.6	20.2	42	−9	15	18	18	86	76	82	0.088	0.101	0.106	1.92	0.77	14.5	6.9	6.2	6.4	6.5
February	28.73	29.11	27.90	26.2	35.2	34.2	38.9	22.9	30.9	68	−2	23	25	28	85	67	77	.129	.144	.160	.68	.37	4.9	5.2	5.9	6.3	5.9
March	28.74	29.28	28.09	26.3	36.1	36.7	40.9	23.5	32.2	75	0	21	22	24	79	59	66	.125	.132	.138	.81	.40	6.7	4.7	6.4	5.2	5.9
April	28.66	29.16	28.14	47.2	60.1	60.2	65.0	44.2	54.6	82	30	39	40	41	74	51	54	.252	.260	.280	1.20	.64	.0	5.8	6.8	6.3	6.6
May	28.71	29.11	28.31	57.1	71.7	71.5	76.3	53.2	64.8	93	38	49	49	49	75	48	48	.355	.362	.360	2.82	1.28	.0	5.3	6.1	4.1	5.3
June	28.62	28.83	28.38	67.0	80.1	78.6	83.3	63.1	73.2	96	37	62	62	63	84	56	61	.552	.571	.581	4.46	1.89	.0	5.8	6.5	4.7	5.9
July	28.67	28.91	28.25	71.8	86.1	85.6	90.3	69.2	79.8	101	54	65	66	65	80	55	53	.624	.658	.627	5.68	1.53	.0	5.2	4.1	2.6	4.2
August	28.67	28.95	28.33	67.7	81.6	80.8	85.8	65.6	75.7	98	52	62	63	64	83	56	58	.566	.596	.604	4.36	1.69	.0	4.3	4.8	3.4	4.2
September	28.81	29.19	28.28	56.3	74.1	70.0	77.5	52.8	65.2	94	42	50	50	51	83	45	52	.372	.376	.379	1.83	1.22	.0	3.9	3.7	2.6	3.4
October	28.71	29.10	28.32	44.0	58.7	55.6	63.5	40.6	52.6	88	30	37	39	38	77	50	54	.233	.248	.245	1.58	1.18	.1	5.4	4.9	3.7	4.8
November	28.86	29.39	28.40	30.5	43.7	41.2	48.5	27.0	37.8	67	8	22	25	23	70	48	47	.126	.138	.124	.04	.03	.1	6.2	6.2	5.0	5.9
December	28.81	29.36	28.16	19.0	29.0	26.9	32.8	14.8	23.8	63	−14	14	18	18	82	64	69	.092	.107	.108	.81	.44	6.8	4.4	5.3	4.5	4.9
Year	28.73	29.39	27.90	44.3	56.7	55.4	60.9	40.8	50.8	101	−14	38	40	40	80	56	60	.293	.308	.309	26.19	1.89	32.2	5.3	5.6	4.6	5.3

LITTLE ROCK, ARK.

[ϕ=34°45′ N.; λ=92°16′ W.]

January	29.74	30.24	29.13	42.7	49.5	50.3	55.7	40.3	48.0	74	25	36	37	37	78	64	62	0.231	0.244	0.227	11.38	3.35	T.	5.5	5.9	4.4	6.2
February	29.67	30.13	29.18	46.3	56.4	58.3	62.3	44.3	53.3	80	25	38	37	39	74	53	52	.243	.240	.257	4.81	1.36	0.0	6.0	6.2	6.0	6.3
March	29.62	30.12	28.89	42.5	53.0	53.9	58.7	40.1	49.4	84	15	33	31	32	68	46	46	.216	.204	.208	5.23	2.12	.1	4.9	6.0	4.8	6.0
April	29.58	29.97	29.19	57.6	70.1	70.7	75.0	55.8	65.4	87	47	48	46	44	71	43	42	.349	.317	.304	1.70	.74	.0	5.7	5.0	5.6	5.4
May	29.64	29.89	29.45	63.7	76.2	75.5	79.8	61.5	70.6	87	54	54	54	55	72	47	51	.433	.434	.452	3.23	1.53	.0	5.7	5.7	6.3	6.3
June	29.53	29.71	29.34	74.0	85.1	82.4	88.7	70.9	79.8	96	63	68	65	66	80	54	60	.678	.635	.654	3.70	1.64	.0	6.7	6.5	6.5	6.7
July	29.60	29.82	29.28	77.5	88.2	87.0	92.4	74.8	83.6	99	68	70	70	72	79	57	62	.750	.747	.779	7.76	4.33	.0	4.6	5.6	4.8	4.9
August	29.59	29.79	29.43	75.4	88.3	87.5	92.4	73.2	82.8	97	62	68	67	68	78	50	53	.699	.669	.699	1.25	.56	.0	3.2	5.0	4.8	4.9
September	29.66	29.91	29.38	66.9	79.5	77.8	83.6	65.3	74.4	94	55	60	60	60	79	53	56	.531	.538	.529	2.65	.67	.0	5.4	5.9	6.8	6.0
October	29.65	29.94	29.28	53.6	67.4	65.2	72.4	51.1	61.8	85	39	47	46	46	78	49	52	.325	.329	.327	3.34	1.54	.0	4.7	3.7	3.4	4.2
November	29.81	30.27	29.33	40.7	52.0	51.0	57.0	37.9	47.4	74	25	33	33	34	74	51	53	.201	.208	.208	1.23	.43	.0	4.0	5.6	4.6	5.1
December	29.79	30.26	29.23	35.9	42.8	42.4	46.8	33.5	40.2	72	12	31	31	32	81	66	70	.186	.193	.207	0.40	3.11	5.9	6.8	6.2	4.9	6.5
Year	29.66	30.27	28.89	56.4	67.4	66.8	72.1	54.1	63.1	99	12	49	48	49	76	53	55	.404	.396	.405	52.68	4.33	6.0	5.2	5.6	5.2	5.6

Annual meteorological summaries for the year ending December 31, 1932—Continued

LEWISTON, IDAHO

[H_b=757 ft.; h_t=40 ft.; h_r=32 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 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	4.9	E.	19	W.	0	5	6	11	0	1	1	4	2	1	2	5	24	12	9	12	6	0	1	0	4	0	23	0	0
February	5.6	E.	19	NW.	0	1	7	15	1	3	0	2	0	0	5	4	20	11	7	8	5	0	0	0	5	0	16	0	0
March	5.8	E.	27	SW.	0	1	1	14	5	1	4	1	1	3	3	6	22	11	9	1	1	0	0	0	0	0	7	1	0
April	4.7	NE.	32	NW.	1	1	4	5	4	1	2	2	2	8	2	14	14	10	5	0	0	0	0	0	0	0	0	0	0
May	4.5	NE.	24	NW.	0	1	4	5	4	0	0	3	1	13	7	10	14	15	9	0	0	0	1	0	0	0	0	0	2
June	4.2	E.	23	NW.	0	1	8	10	2	2	0	0	2	5	16	8	6	1	1	0	0	0	0	0	0	12	0	1	0
July	5.5	E.	23	NW.	0	0	3	12	5	0	2	3	3	3	21	6	4	2	1	0	0	0	0	0	0	13	0	1	0
August	4.6	E.	26	NW.	0	2	3	10	6	2	1	1	0	6	22	7	2	3	2	0	0	0	0	0	0	16	0	1	0
September	3.5	W.	26	NW.	0	0	4	3	2	2	1	1	2	15	21	6	3	1	1	0	0	0	0	0	0	6	0	0	0
October	3.6	E.	21	NW.	0	0	2	11	3	1	2	5	0	7	8	6	17	10	8	0	0	0	2	1	0	0	1	1	0
November	4.6	E.	27	NW.	0	1	5	8	1	1	3	6	1	4	2	3	25	13	10	0	0	0	3	3	0	0	2	0	0
December	4.7	E.	27	NW.	0	0	4	10	5	2	3	2	1	4	6	5	20	9	7	7	3	1	2	0	11	0	20	1	0
Year	4.7	E.	32	NW.	1	13	51	114	38	16	19	31	15	69	115	80	171	98	69	28	15	1	9	4	20	47	69	8	0

LEXINGTON, KY.

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

January	14.1	SW.	47	W.	6	1	0	3	4	3	11	5	3	1	6	10	15	14	12	2	1	1	5	1	1	0	11	0	0
February	13.5	SW.	43	W.	2	4	1	4	1	3	8	3	5	0	15	3	11	8	8	1	0	0	4	1	0	0	13	1	0
March	14.6	NW.	44	W.	3	2	2	3	3	4	3	4	10	0	9	11	11	15	11	9	6	0	7	0	0	0	18	0	0
April	12.5	E.	44	SW.	1	3	2	6	2	5	5	5	2	0	13	9	8	13	12	1	0	2	6	0	0	0	1	2	0
May	12.2	SW.	30	NW.	0	3	2	3	2	5	9	3	4	0	22	5	4	7	5	0	0	1	2	0	0	0	0	4	0
June	10.4	E.	34	SW.	1	2	1	7	2	5	6	4	2	1	12	15	3	14	11	0	0	0	2	0	0	0	0	9	0
July	11.4	SW.	43	NW.	1	1	2	3	3	3	7	6	5	1	21	7	3	10	7	0	0	1	1	0	0	0	0	8	0
August	9.8	E.	30	NW.	0	0	4	11	1	3	8	3	0	1	18	11	2	10	5	0	0	0	1	0	0	2	0	3	0
September	10.8	S.E	35	S.	1	3	3	7	7	4	3	1	2	0	18	5	7	7	7	0	0	0	5	0	0	2	0	5	0
October	12.8	S.	35	W.	3	1	1	1	3	11	7	1	6	0	18	3	10	7	6	1	0	0	5	0	0	0	0	0	0
November	12.7	S.	32	SW.	1	1	2	4	4	9	3	4	3	0	12	7	11	12	9	6	3	0	11	2	1	0	12	0	0
December	13.9	SW.	38	S.	4	1	5	4	2	7	7	3	2	0	10	6	15	13	11	5	4	0	12	6	8	0	19	1	0
Year	12.4	SW.	47	W.	23	22	25	56	34	62	77	42	44	4	174	92	100	130	104	25	14	5	59	10	19	13	74	33	0

LINCOLN, NEBR.

[H_b=1,189 ft.; h_t=11 ft.; h_r=4 ft.; h_a=81 ft.]

January	9.3	NW.	27	NW.	0	10	1	8	1	18	4	7	13	0	7	9	15	7	5	17	7	0	8	1	20	0	31	0	0
February	9.0	S.	30	NW.	0	8	4	8	3	11	6	11	7	0	8	10	11	7	4	9	4	0	9	2	9	0	23	0	0
March	11.5	NW.	34	N.	4	15	3	6	2	11	3	4	18	0	7	16	8	6	4	10	2	1	5	0	9	0	21	1	0
April	11.4	SE.	30	SE.	0	11	6	9	16	7	0	5	5	1	6	10	14	6	3	0	0	1	5	0	0	0	3	2	0
May	10.2	S.	36	NW.	1	7	1	4	10	22	5	8	4	1	9	13	9	9	7	0	0	2	0	0	0	2	0	6	0
June	8.0	S.	38	W.	1	8	4	9	9	16	4	3	6	1	5	13	12	12	11	0	0	3	4	2	0	6	0	13	0
July	9.5	S.	32	NW.	2	6	6	8	13	23	1	0	3	2	16	9	6	10	7	0	0	1	0	0	0	16	0	10	0
August	8.9	S.	30	N.	0	7	2	9	9	22	4	8	0	1	16	8	7	14	11	0	0	1	3	1	0	9	0	10	0
September	8.3	S.	32	S.	1	12	4	3	14	16	3	1	4	3	18	7	5	8	8	0	0	0	1	0	0	1	0	5	0
October	10.5	S.	35	NW.	1	11	3	3	10	13	3	8	11	0	13	9	9	6	4	1	1	0	1	0	0	3	0	3	0
November	11.6	S.	35	NW.	3	12	1	1	10	14	8	3	10	1	8	12	10	2	0	3	1	0	1	0	3	0	21	0	0
December	9.0	S.	29	NW.	0	13	2	4	2	21	10	3	7	0	12	12	7	7	5	7	5	0	4	2	14	0	29	0	0
Year	9.8	S.	38	W.	13	120	37	72	99	194	51	61	88	10	125	128	113	94	67	47	20	9	40	8	55	34	131	50	0

LITTLE ROCK, ARK.

[H_b=357 ft.; h_t=94 ft.; h_r=87 ft.; h_a=102 ft.]

January	9.0	N.	30	SE.	0	12	4	9	8	8	6	5	10	0	10	6	15	13	13	1	1	0	18	4	0	0	5	5	0
February	9.3	SW.	29	N.	0	8	8	12	3	11	6	5	5	0	11	2	16	12	9	0	0	0	5	2	0	0	2	2	0
March	11.0	N.	38	SW.	2	19	4	3	2	12	10	3	9	0	9	8	14	11	8	4	2	1	9	0	1	0	10	3	0
April	9.8	SW.	32	SW.	1	6	6	8	4	11	15	4	5	1	10	9	11	6	5	0	0	0	4	0	0	0	0	6	0
May	9.0	S.	38	NW.	2	11	14	3	4	18	6	1	4	1	7	9	15	8	6	0	0	1	1	0	0	0	0	4	0
June	7.7	S.	30	NW.	0	6	1	6	5	14	14	4	9	1	4	14	12	10	9	0	0	1	2	1	0	0	13	0	11
July	7.2	SW.	23	N.	0	7	3	6	2	21	16	1	4	2	12	10	9	9	8	0	0	0	1	0	0	0	25	0	8
August	6.9	S.	21	N.	0	2	14	6	10	17	9	1	2	1	16	12	3	5	4	0	0	0	0	0	0	0	26	0	8
September	7.5	NE.	31	NW.	0	15	12	8	9	3	3	1	5	4	7	12	11	12	8	0	0	0	7	0	0	0	6	0	5
October	8.7	S.	27	N.	0	13	4	3	8	12	7	4	11	0	15	7	9	8	7	0	0	0	6	1	0	0	0	4	0
November	9.6	N.	27	S.	0	19	7	8	4	9	3	5	5	0	13	6	11	7	4	0	0	0	6	1	0	0	7	0	0
December	9.6	N.	32	SW.	1	17	8	5	7	11	6	0	8	0	10	3	18	16	11	4	2	1	19	5	6	0	14	1	0
Year	8.8	N.	38	SW.	6	135	85	77	66	147	101	34	77	10	124	98	144	117	92	9	5	4	78	14	7	71	38	57	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

LOS ANGELES, CALIF.

[ϕ=34°03′ N.; λ=118°15′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.76	30.05	29.31	48.0	58.8	57.0	61.5	45.1	53.3	75	34	34	34	38	60	44	52	0.201	0.207	0.236	2.94	2.09	2.0	2.7	3.2	2.9	3.1
February	29.65	29.94	29.27	51.0	61.2	59.0	64.6	48.4	56.5	86	39	40	40	42	70	51	57	.255	.254	.275	5.53	2.17	.0	4.4	4.9	5.8	5.0
March	29.67	29.89	29.44	55.2	68.6	65.8	71.5	52.8	62.2	86	48	43	42	44	68	42	50	.290	.280	.299	.01	.01	.0	3.0	2.5	2.8	3.0
April	29.61	29.80	29.26	54.5	69.9	66.3	72.5	52.8	62.6	91	45	43	40	44	70	40	48	.286	.270	.296	.30	.21	.0	3.2	2.5	2.2	2.8
May	29.61	29.75	29.46	56.8	69.0	66.8	71.5	55.8	63.6	92	51	51	51	50	83	56	59	.376	.377	.373	.02	.01	.0	5.9	4.3	3.0	4.7
June	29.52	29.73	29.29	59.0	72.5	70.5	74.7	57.7	66.2	93	55	55	55	54	85	57	59	.427	.440	.427	.13	.11	.0	7.3	2.6	1.6	3.5
July	29.55	29.73	29.40	61.1	75.2	71.2	78.3	59.9	69.1	84	58	58	58	58	89	55	60	.477	.480	.465	T	T	.0	7.3	1.4	.3	3.1
August	29.51	29.65	29.30	61.4	76.4	73.2	78.8	60.3	69.6	96	58	58	57	58	87	53	59	.475	.470	.477	.00	.00	.0	6.7	1.6	.8	3.1
September	29.55	29.72	29.29	61.2	73.3	69.9	76.6	60.0	68.3	84	56	58	58	59	89	60	68	.479	.487	.493	.14	.12	.0	7.7	1.9	1.5	4.2
October	29.60	29.85	29.42	60.7	73.1	68.4	75.6	58.9	67.2	90	53	46	44	47	66	43	54	.346	.322	.360	.08	.08	.0	5.3	2.6	1.9	3.5
November	29.69	29.89	29.51	60.7	77.3	70.2	79.9	58.0	69.0	91	49	36	35	43	46	27	43	.229	.222	.293	.00	.00	.0	2.5	2.2	2.0	2.5
December	29.72	30.06	29.21	49.8	61.0	57.6	63.5	46.9	55.2	83	39	37	36	39	63	44	54	.227	.220	.248	1.77	.66	.0	3.4	3.2	3.1	3.2
Year	29.62	30.06	29.21	56.6	69.7	66.4	72.4	54.7	63.6	96	34	47	46	48	73	48	56	.339	.336	.354	10.72	2.17	2.0	5.0	2.7	2.3	3.5

LOUISVILLE, KY.

[ϕ=38°15′ N.; λ=85°45′ W.]

January	29.56	30.19	28.98	40.6	45.4	45.1	51.1	35.5	43.3	69	18	35	37	36	81	72	70	0.223	0.242	0.224	6.54	1.13	T	6.7	6.4	5.7	6.8
February	29.48	30.11	28.91	41.8	47.3	49.0	54.6	37.3	46.0	78	23	34	36	34	73	66	59	.210	.227	.217	2.85	1.05	T	5.5	5.5	4.4	5.8
March	29.40	29.88	28.52	53.5	41.6	42.2	47.3	30.1	38.7	71	6	27	31	30	77	66	63	.159	.193	.187	3.92	2.08	1.6	6.2	7.3	5.6	7.1
April	29.42	29.78	28.95	49.1	59.0	59.6	64.8	46.5	55.6	79	34	40	44	41	73	62	55	.263	.314	.282	3.39	.95	.0	6.3	6.1	4.6	6.1
May	29.49	29.81	29.23	59.8	70.7	70.7	75.4	56.3	65.8	86	45	49	53	50	69	56	50	.360	.424	.380	.63	.32	.0	4.6	5.3	4.4	5.5
June	29.36	29.56	29.14	69.6	80.0	78.0	84.4	65.9	75.2	91	54	63	65	64	79	62	63	.579	.631	.606	2.78	.71	.0	5.8	6.5	5.0	6.2
July	29.40	29.65	29.03	74.0	84.9	84.1	89.4	69.9	79.6	97	60	65	67	65	75	56	54	.638	.673	.622	3.68	1.99	.0	3.9	4.6	2.9	4.5
August	29.44	29.70	29.23	69.8	81.8	80.0	85.8	67.2	76.5	96	54	64	64	63	81	57	58	.598	.606	.589	5.22	2.20	.0	4.7	5.7	3.3	5.3
September	29.51	29.71	29.15	62.9	75.3	72.2	78.5	60.7	69.6	97	48	57	60	57	83	60	62	.489	.527	.489	3.01	.93	.0	4.7	5.3	4.3	5.4
October	29.45	29.76	28.99	50.9	62.4	59.4	66.8	47.9	57.4	80	36	40	50	46	83	60	63	.322	.377	.329	3.05	1.12	.0	4.9	5.3	4.2	5.0
November	29.62	30.17	29.05	38.3	46.4	45.3	50.7	35.2	43.0	74	22	32	34	35	78	64	70	.190	.217	.225	1.91	.70	T	5.8	5.5	5.4	6.2
December	29.61	30.10	28.89	32.6	38.4	38.3	44.6	28.9	36.8	69	0	28	31	31	85	74	76	.173	.195	.194	5.27	3.44	3.6	7.1	7.2	5.7	7.3
Year	29.48	30.19	28.52	51.9	61.1	60.3	66.1	48.4	57.3	97	0	45	48	46	78	63	62	.350	.386	.362	42.26	3.44	5.2	5.5	5.9	4.6	5.9

LUDINGTON, MICH.

[ϕ=43°57′ N.; λ=86°27′ W.]

January	29.31	29.96	28.65	32.0	32.8	32.5	36.7	27.8	32.2	50	3	28	28	28	86	82	83	0.161	0.157	0.158	2.35	0.75	4.7	9.5	8.6	8.3	8.9
February	29.25	29.96	28.22	26.8	29.8	30.2	35.4	22.6	29.0	57	10	22	24	24	80	77	77	.123	.135	.134	1.66	.96	2.6	8.3	8.3	7.1	7.5
March	29.21	29.66	28.79	25.4	28.1	28.2	32.6	21.7	27.2	57	5	20	21	22	80	72	75	.112	.116	.120	1.47	.46	12.3	7.5	8.0	7.3	7.8
April	29.32	29.76	28.96	37.9	45.3	42.6	49.5	33.8	41.6	71	21	29	29	30	71	57	64	.160	.164	.168	1.07	.42	1.9	3.7	4.3	4.8	4.4
May	29.32	29.70	28.97	50.5	52.7	54.5	60.0	44.9	52.4	73	32	43	44	43	78	74	69	.290	.300	.289	2.13	.56	.0	4.8	5.3	5.0	5.1
June	29.21	29.52	28.71	64.2	67.5	69.2	73.7	56.4	65.0	82	44	57	56	55	79	67	64	.480	.451	.452	3.20	1.08	.0	3.7	2.5	2.6	2.9
July	29.22	29.53	28.08	66.2	69.8	70.6	74.9	60.9	67.9	87	53	59	60	59	78	72	68	.508	.525	.507	1.65	.53	.0	2.8	3.1	2.8	2.9
August	29.28	29.61	29.00	66.1	71.6	70.6	74.9	61.7	68.3	84	51	60	62	60	81	72	71	.528	.561	.530	2.99	1.38	.0	3.2	3.8	3.6	3.7
September	29.39	29.69	29.08	57.6	64.8	62.1	67.9	52.8	60.4	82	39	50	50	51	77	60	68	.373	.375	.386	.73	.39	.0	3.3	2.8	1.7	2.9
October	29.24	29.63	28.77	46.6	50.1	49.5	54.8	42.5	48.6	72	34	41	42	43	83	74	79	.270	.275	.287	5.14	1.26	T	7.1	6.4	6.8	6.8
November	29.42	30.07	28.79	33.0	37.8	37.1	41.2	29.8	35.5	57	15	28	30	30	81	71	75	.160	.172	.174	1.96	.86	.9	7.3	6.7	6.4	7.0
December	29.32	29.91	28.58	27.3	28.6	28.3	33.2	23.2	28.2	52	1	24	23	23	86	79	81	.138	.135	.137	2.10	.66	9.0	8.0	7.5	6.9	7.7
Year	29.29	30.07	28.22	44.5	48.2	48.0	52.9	39.8	46.4	87	1	38	39	39	80	71	73	.276	.280	.278	26.45	1.38	31.4	5.8	5.6	5.2	5.6

LYNCHBURG, VA.

[ϕ=37°25′ N.; λ=79°09′ W.]

January	29.43	29.85	28.85	43.7	49.7	48.8	56.5	39.8	48.2	79	29	36	36	38	75	62	70	0.230	0.232	0.257	4.29	1.01	0.6	5.8	5.9	4.9	6.3
February	29.30	29.93	28.80	40.4	50.0	50.9	57.8	37.8	47.8	82	23	30	32	37	67	53	60	.179	.198	.231	1.25	.44	.5	5.8	4.8	2.7	5.1
March	29.15	29.58	28.10	38.3	47.5	45.7	53.1	33.8	43.4	73	15	27	29	30	62	51	55	.162	.178	.184	4.80	1.66	.8	5.1	4.4	4.6	5.5
April	29.23	29.75	28.75	49.2	61.1	61.0	68.0	44.5	56.2	84	35	35	35	41	60	40	52	.216	.209	.270	1.01	.70	.0	4.4	3.4	3.7	4.3
May	29.31	29.64	28.97	60.9	71.9	68.9	77.2	54.7	66.0	90	43	52	50	54	73	49	62	.395	.379	.427	1.38	.51	.0	4.7	3.9	4.3	4.7
June	29.20	29.50	28.80	69.9	79.3	77.0	84.6	63.4	74.0	93	53	60	60	62	71	54	62	.528	.526	.562	2.54	1.08	.0	4.7	4.8	4.6	4.8
July	29.19	29.49	28.73	74.7	85.1	81.6	90.4	68.0	79.2	101	58	63	61	63	67	46	56	.582	.549	.590	.75	.47	.0	3.7	4.2	2.9	4.2
August	29.28	29.58	29.01	70.8	84.0	81.0	89.1	65.5	77.3	104	57	62	60	60	75	46	52	.568	.521	.538	1.70	.69	.0	3.2	3.3	2.9	3.2
September	29.35	29.76	28.95	63.6	76.0	71.4	80.5	59.0	69.8	102	43	55	55	57	75	50	64	.455	.461	.490	2.22	.62	.0	3.6	3.8	4.4	4.2
October	29.31	29.69	28.84	52.2	63.5	60.6	68.6	49.0	58.8	78	36	45	47	50	78	57	60	.322	.347	.378	8.86	4.78	.0	5.1	4.1	3.8	4.6
November	29.44	30.02	28.80	39.0	50.2	46.3	55.6	34.6	45.1	98	16	31	35	37	74	57	71	.196	.226	.234	4.63	1.50	.0	4.0	4.4	3.8	4.6
December	29.43	29.85	28.80	35.9	45.7	43.3	50.8	31.6	41.2	71	8	28	32	34	72	62	69	.168	.191	.203	3.86	1.12	11.9	4.7	5.8	5.8	6.4
Year	29.30	30.02	28.10	53.2	63.7	61.4	69.4	48.5	58.9	104	8	44	44	47	71	52	62	.333	.334	.364	37.28	4.78	13.2	4.6	4.4	4.1	4.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

LOS ANGELES, CALIF.

[H_b=338 ft.; h_t=159 ft.; h_r=151 ft.; h_a=191 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32°: Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	6.4	NE.	27	NW.	0	9	13	4	5	6	9	10	6	0	16	11	4	8	4	1	1	0	1	0	0	0	0	0	0
February	6.3	NE.	22	SE.	0	8	13	10	4	3	10	6	4	0	12	6	11	11	11	0	0	1	6	1	0	0	0	0	2	0
March	6.0	SW.	28	NW.	0	1	14	8	3	0	24	7	5	0	20	7	4	1	0	0	0	0	3	1	0	0	0	0	0	0
April	6.2	SW.	21	SW.	0	6	6	6	5	1	23	7	6	0	19	9	2	3	3	0	0	0	4	2	0	1	0	0	2	0
May	6.0	SW.	15	W.	0	0	3	16	9	5	16	12	1	0	14	9	8	2	0	0	0	0	10	1	0	1	0	0	2	0
June	5.5	SW.	14	SW.	0	1	3	7	9	4	28	7	1	0	19	6	5	2	1	0	0	0	10	1	0	1	0	0	0	0
July	5.4	SW.	13	W.	0	1	0	9	10	7	27	7	1	0	18	13	0	0	0	0	0	0	17	2	0	0	0	0	0	0
August	5.4	SW.	14	SW.	0	0	0	11	10	4	32	1	4	0	17	12	2	0	0	0	0	0	8	0	0	1	0	0	0	0
September	5.2	SW.	21	NW.	0	0	2	4	8	7	30	7	2	0	11	17	2	3	1	0	0	1	18	6	0	0	0	0	2	0
October	5.3	SW.	18	NW.	0	6	5	7	7	3	24	6	3	1	16	11	4	2	1	0	0	0	12	0	0	1	0	0	2	0
November	5.6	NE.	15	NE.	0	13	5	6	4	2	13	13	4	0	21	7	2	0	0	0	0	0	5	1	0	1	0	0	0	0
December	6.4	NE.	22	NW.	0	7	22	2	1	3	15	7	5	0	19	7	5	8	7	0	0	0	0	0	0	0	0	0	0	0
Year	5.8	SW.	28	NW.	0	52	86	90	75	45	251	90	42	1	202	115	49	40	28	1	1	2	95	15	0	6	0	10	6	

LOUISVILLE, KY.

[H_b=525 ft.; h_t=188 ft.; h_r=183 ft.; h_a=234 ft.]

January	10.8	S.	43	NW.	3	4	5	6	6	18	12	8	3	0	5	9	17	14	11	3	0	1	3	2	0	0	10	3	0
February	11.2	S.	40	S.	2	5	7	6	2	11	12	5	10	0	10	6	13	7	5	1	0	0	3	1	0	0	9	2	0
March	12.5	NW.	37	N.	3	10	4	4	5	9	7	12	11	0	4	11	16	10	9	7	2	1	0	0	8	0	13	1	0
April	10.8	N.	42	SW.	2	9	10	7	4	7	8	3	12	0	8	8	14	15	14	0	0	0	0	0	0	0	0	3	0
May	10.2	S.	36	NW.	1	9	10	1	7	17	5	5	8	0	6	17	8	6	5	0	0	0	0	0	0	0	5	1	
June	8.2	N.	43	SW.	2	16	7	4	5	11	8	1	8	2	5	14	11	13	9	0	0	0	3	3	0	2	0	9	0
July	9.3	SW.	32	NW.	1	11	6	3	2	11	13	8	7	1	12	15	4	7	5	0	0	0	0	0	0	15	0	7	0
August	8.0	N.	32	N.	1	19	11	3	3	11	8	2	1	2	11	11	9	8	8	0	0	0	2	1	0	5	0	6	0
September	9.2	N.	32	S.	1	22	9	3	3	10	1	2	7	0	11	10	9	8	8	0	0	0	1	1	0	2	0	3	0
October	10.4	S.	30	N.	0	6	3	3	8	22	2	9	9	0	13	7	11	9	7	0	0	0	2	1	0	0	0	0	0
November	10.2	S.	30	N.	0	8	7	8	6	14	5	6	5	1	9	6	15	10	8	5	2	0	2	1	0	0	12	0	0
December	11.4	S.	42	SE.	4	14	3	6	5	18	6	6	4	0	5	8	18	14	12	6	5	0	6	3	8	0	18	2	0
Year	10.2	S.	43	NW.	20	133	82	54	61	159	87	67	83	0	99	122	145	121	101	22	9	2	22	13	16	24	62	41	1

LUDINGTON, MICH.

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

January	12.3	W.	35	S.	4	4	5	7	7	4	10	21	4	0	3	0	28	20	14	18	13	0	2	2	8	0	25	1	0
February	12.6	W.	40	SW.	4	7	1	5	11	5	6	9	14	0	2	10	17	15	4	18	9	0	2	2	11	0	26	2	0
March	11.6	W.	31	S.	0	9	10	7	3	7	2	13	11	0	2	8	21	17	11	21	15	0	1	0	15	0	28	0	1
April	10.6	N.	29	N.	0	19	3	14	8	6	3	5	2	0	16	2	12	10	7	7	5	0	2	1	0	0	12	1	0
May	10.3	S.	26	S.	0	11	4	4	4	25	7	5	2	0	13	8	10	16	12	0	0	0	6	2	0	0	1	2	3
June	8.1	N.	25	S.	0	17	2	11	9	6	7	5	3	0	19	10	1	11	7	0	0	0	4	3	0	0	0	5	0
July	9.8	S.	26	N.	0	12	3	4	4	17	8	8	6	0	20	8	3	8	7	0	0	0	1	0	0	0	0	7	0
August	9.5	S.	25	SW.	0	7	1	7	7	26	6	3	5	0	14	13	4	12	9	0	0	0	0	0	0	0	0	8	2
September	9.4	N.	26	SW.	0	16	2	10	6	9	5	8	4	0	19	10	1	10	5	0	0	0	2	0	0	0	0	2	1
October	11.3	E.	31	SW.	0	9	8	12	5	10	4	6	8	0	7	7	17	16	12	2	0	2	0	0	0	0	0	2	0
November	12.7	SE.	37	SW.	3	3	4	13	11	9	8	4	8	0	7	5	18	14	7	11	7	0	1	0	5	0	22	1	0
December	13.7	W.	34	SW.	2	4	2	9	5	12	9	13	8	0	4	7	20	17	10	16	13	0	0	0	12	0	21	0	0
Year	11.0	S.	40	SW.	13	118	45	103	80	136	75	100	75	0	126	88	152	166	105	93	62	3	20	10	51	0	135	29	7

LYNCHBURG, VA.

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

January	7.3	W.	37	NE.	1	7	8	4	3	1	12	13	14	0	9	5	17	12	9	0	0	0	6	2	0	0	4	0	0
February	7.9	W.	30	NW.	0	2	5	2	3	6	13	20	7	0	11	8	10	9	7	2	1	0	4	0	0	0	4	0	0
March	9.7	NW.	39	NW.	2	6	6	5	1	4	8	17	15	0	10	11	10	8	8	3	1	0	1	0	1	0	11	0	0
April	8.0	NW.	39	N.	0	7	6	8	1	6	9	7	15	1	15	8	7	6	5	0	0	0	7	0	0	0	0	0	0
May	6.9	SW.	23	NW.	0	9	9	6	2	10	7	9	10	0	12	15	4	7	7	0	0	0	4	0	0	1	0	1	0
June	6.4	W.	32	N.	1	4	7	5	3	9	17	6	0	0	14	8	8	8	6	0	0	0	2	0	0	7	0	4	0
July	6.6	W.	40	N.	2	6	7	9	1	2	9	17	11	0	12	16	3	5	4	0	0	0	3	2	0	16	0	7	0
August	5.3	W.	18	W.	0	10	3	9	2	4	12	14	6	2	17	11	3	8	4	0	0	0	1	1	0	14	0	2	0
September	5.7	NW.	29	NE.	0	5	3	7	2	6	8	7	15	7	14	10	6	10	9	0	0	0	9	2	0	4	0	5	0
October	6.8	NW.	28	S.	0	3	10	5	2	7	10	7	13	5	17	4	10	11	9	0	0	0	10	1	0	0	0	0	0
November	6.7	NW.	25	NE.	0	9	7	6	0	4	8	11	13	2	18	4	11	9	8	0	0	0	6	2	0	0	12	0	0
December	6.1	SW.	30	NW.	0	2	5	5	0	4	17	16	11	2	8	5	18	12	12	3	3	0	5	2	2	0	15	0	0
Year	7.0	W.	40	N.	6	70	78	71	20	63	122	155	136	19	154	105	107	105	88	8	5	0	58	12	3	42	46	19	0

Annual meteorological summaries for the year ending December 31, 1933—Continued

MACON, GA.

[ϕ=32°50′ N.; λ=83°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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.80	30.21	29.29	49.2	60.7	57.9	65.5	46.3	55.9	81	29	44	44	46	84	56	66	0.321	0.323	0.335	6.66	2.58	0.0	5.7	5.4	6.4	6.0
February	29.68	30.23	29.29	50.5	62.7	60.5	67.2	47.4	57.3	81	29	45	44	45	83	54	61	.324	.307	.316	2.60	1.63	.0	6.8	6.9	6.2	7.0
March	29.58	29.95	28.76	45.1	59.1	56.9	64.8	41.1	53.0	82	19	36	33	35	70	38	46	.235	.215	.237	4.09	1.86	T	4.4	4.2	4.2	4.1
April	29.60	29.96	29.21	57.2	72.4	70.3	77.4	52.8	65.1	89	39	46	43	44	69	37	41	.332	.298	.302	.74	.25	.0	5.3	5.1	4.0	5.1
May	29.64	29.85	29.31	65.4	76.8	75.0	81.5	60.5	71.0	92	49	57	54	54	75	49	52	.473	.440	.441	2.21	1.13	.0	5.8	5.7	4.3	5.5
June	29.56	29.82	29.22	74.3	83.3	79.2	88.5	69.2	78.8	98	59	69	67	67	84	60	70	.712	.678	.680	6.04	1.11	.0	5.8	6.7	7.3	6.4
July	29.59	29.78	29.36	78.2	88.5	84.4	93.8	72.9	83.4	102	66	71	69	70	79	55	64	.758	.723	.742	4.09	1.66	.0	5.3	5.0	6.5	5.5
August	29.61	29.81	29.40	75.2	84.6	80.1	87.9	71.6	79.8	94	69	71	68	71	86	60	75	.754	.703	.760	5.48	2.59	.0	6.1	6.7	7.0	6.4
September	29.64	29.89	29.38	69.4	80.4	76.1	83.9	66.2	75.0	94	59	64	62	65	82	56	70	.598	.574	.624	2.57	1.74	.0	6.1	6.1	6.1	6.3
October	29.63	29.95	29.06	57.0	71.1	66.0	74.8	53.1	64.0	83	40	52	52	55	84	59	70	.410	.419	.453	5.03	2.78	.0	4.5	4.8	3.5	4.8
November	29.76	30.22	29.34	44.4	57.0	53.7	61.8	41.5	51.6	73	26	38	40	41	79	56	64	.257	.280	.289	2.07	1.21	.0	4.8	5.6	4.7	5.2
December	29.79	30.15	29.39	48.1	57.6	54.6	61.8	44.3	53.0	74	28	44	45	46	86	67	74	.316	.330	.335	5.05	1.24	.0	7.9	8.5	7.7	8.2
Year	29.66	30.23	28.76	59.5	71.2	67.9	75.7	55.6	65.7	102	19	53	52	53	80	54	63	.458	.441	.460	46.63	2.78	T	5.7	5.9	5.7	5.9

MADISON, WIS.

[ϕ=43°05′ N.; λ=89°23′ W.]

January	28.96	29.63	28.34	24.5	27.9	26.9	31.5	20.3	25.9	46	−10	22	23	23	91	82	85	0.129	0.129	0.129	1.04	0.26	3.9	7.5	7.2	7.2	7.7
February	28.92	29.62	27.91	22.5	30.1	30.0	36.3	17.9	27.1	58	2	19	21	23	87	69	74	.115	.125	.130	.74	.49	1.4	5.8	5.2	4.8	5.3
March	28.88	29.36	28.44	20.6	28.1	26.6	31.3	17.6	24.4	64	−4	17	17	19	85	65	71	.103	.104	.109	1.38	.95	5.1	6.8	5.9	4.5	6.0
April	28.96	29.30	28.60	38.5	48.0	48.6	53.0	36.1	44.6	73	27	30	30	32	72	52	55	.169	.172	.186	1.04	.64	T	6.0	6.2	6.4	6.0
May	28.90	29.31	28.62	53.3	64.3	64.0	68.7	48.6	58.6	87	39	44	44	45	74	50	54	.303	.298	.317	3.67	1.51	.0	5.7	5.7	5.6	6.1
June	28.87	29.13	28.45	65.3	75.2	75.3	79.3	61.4	70.4	87	51	58	58	59	78	56	68	.493	.491	.512	3.15	1.04	.0	6.2	6.2	5.4	5.9
July	28.90	29.20	28.41	68.4	78.4	78.9	83.1	64.3	73.7	95	53	59	60	60	72	54	53	.505	.527	.527	4.06	1.75	.0	3.0	4.6	3.2	3.8
August	28.94	29.23	28.67	65.9	75.5	74.5	79.8	62.6	71.2	90	55	60	59	58	82	58	59	.524	.508	.498	2.51	1.38	.0	5.2	6.5	4.1	5.5
September	29.03	29.37	28.70	55.1	67.5	65.5	70.9	52.9	61.9	86	42	48	45	46	77	46	51	.343	.312	.327	.18	.08	.0	3.1	3.0	2.3	3.0
October	28.91	29.25	28.42	43.5	51.9	50.1	55.4	40.5	48.0	78	30	38	38	40	82	62	71	.239	.243	.263	3.68	1.27	T	6.2	6.7	6.8	7.5
November	29.00	29.67	28.46	27.6	35.2	34.2	39.2	24.7	32.0	58	7	23	25	24	83	66	67	.131	.141	.138	1.42	1.29	.7	5.5	6.6	5.3	6.5
December	28.98	29.56	28.16	19.0	24.5	23.3	29.6	15.1	22.4	52	−12	16	19	18	88	78	81	.107	.117	.114	1.89	.95	3.0	4.6	5.1	4.7	5.5
Year	28.95	29.67	27.91	42.0	50.1	49.8	54.8	38.5	46.7	95	−12	30	37	37	81	62	65	.263	.264	.271	24.76	1.75	14.1	5.5	5.7	5.0	5.7

MARQUETTE, MICH.

[ϕ=46°34′ N.; λ=87°24′ W.]

January	29.16	29.81	28.41	25.0	28.3	28.0	32.7	22.0	27.4	47	−4	21	23	23	84	79	79	0.116	0.125	0.125	2.86	0.90	22.9	9.4	9.1	8.7	9.1
February	29.10	29.82	27.89	19.0	23.7	22.7	29.8	13.8	21.8	48	−3	15	18	18	82	77	81	.091	.103	.103	1.99	.52	19.3	7.7	8.3	6.8	7.8
March	29.09	29.53	28.41	20.2	25.0	22.6	29.5	17.0	23.2	50	1	15	18	18	79	72	81	.088	.098	.100	2.00	.46	19.7	7.9	8.8	6.3	8.0
April	29.26	29.67	28.72	36.4	39.1	38.5	43.4	31.0	37.2	61	18	25	28	29	63	65	69	.134	.155	.161	2.06	1.27	6.5	4.8	6.1	5.8	5.8
May	29.20	29.62	28.65	49.4	54.4	51.0	60.1	42.0	51.0	91	30	40	42	40	71	65	69	.250	.275	.255	3.42	.80	.4	7.0	7.9	7.2	7.6
June	29.12	29.44	28.50	59.9	62.8	62.8	69.8	52.8	61.3	84	39	49	52	52	69	68	69	.358	.390	.397	.87	.35	.0	3.8	6.5	5.3	5.5
July	29.10	29.43	28.48	65.2	68.0	66.9	74.7	57.0	65.8	96	45	54	55	55	69	66	68	.432	.448	.442	4.26	1.54	.0	5.5	6.1	5.3	5.8
August	29.14	29.55	28.80	65.7	71.9	68.3	75.7	59.5	67.6	91	52	57	60	59	74	68	74	.475	.532	.510	3.66	1.44	.0	4.7	6.3	5.1	5.9
September	29.24	29.56	28.78	55.5	65.4	59.8	68.7	51.9	60.3	84	41	46	49	49	72	57	69	.321	.356	.361	1.86	.79	.0	3.7	5.1	4.3	4.7
October	29.14	29.57	28.50	42.2	47.9	44.2	51.6	38.6	45.1	77	31	36	38	38	78	70	78	.215	.237	.234	1.93	.74	2.1	8.0	9.3	8.5	9.1
November	29.27	29.93	28.58	27.9	33.4	31.6	37.0	24.8	30.9	57	9	23	26	26	79	74	78	.129	.148	.145	1.43	.44	5.3	8.4	8.6	8.0	8.5
December	29.15	29.73	28.41	19.3	24.8	22.2	28.4	14.4	21.4	57	−12	15	18	17	82	73	79	.097	.108	.103	1.59	.54	10.6	6.3	7.3	6.2	6.6
Year	29.16	29.93	27.89	40.5	45.4	43.2	50.1	35.4	42.8	96	−12	33	36	35	75	70	74	.226	.248	.245	27.9	1.54	86.8	6.4	7.4	6.5	7.0

MEDFORD, OREG.

[ϕ=42°23′ N.; λ=122°52′ W.]

January	28.74	29.14	28.05	32.4	37.5	39.3	41.4	29.8	35.6	52	19	31	32	34	95	82	81	0.176	0.184	0.194	2.03	0.54	12.4	7.5	8.7	7.7	8.5
February	28.67	28.99	28.10	32.3	44.8	40.3	51.8	29.6	40.7	74	19	29	33	34	89	64	57	.165	.194	.205	.26	.11	.8	5.8	6.4	5.8	6.5
March	28.70	29.08	28.36	39.8	52.4	56.4	58.5	36.9	47.7	75	22	37	38	38	89	61	55	.223	.238	.239	2.43	.65	T	6.7	7.5	7.7	8.1
April	28.59	28.99	28.32	40.0	55.3	59.3	62.4	37.5	50.0	78	28	37	39	39	89	56	50	.221	.237	.246	2.44	.56	.9	6.3	7.5	7.6	7.3
May	28.60	28.90	28.25	45.2	64.0	67.6	70.6	43.9	57.2	86	36	42	44	44	90	50	46	.273	.289	.289	3.05	.71	T	5.0	5.4	5.7	5.3
June	28.55	28.83	28.28	51.1	76.1	81.2	83.2	50.5	66.8	100	40	47	48	48	86	38	34	.324	.339	.350	1.77	1.61	.0	2.6	3.0	2.8	3.9
July	28.57	28.81	28.17	52.9	77.4	83.6	85.0	51.4	68.2	96	42	46	47	45	77	35	27	.309	.327	.303	.04	.04	.0	2.2	2.4	2.3	2.4
August	28.54	28.78	28.29	53.6	78.4	84.6	86.4	51.9	69.2	107	41	46	46	44	75	33	26	.309	.316	.288	.12	.12	.0	1.4	.7	1.0	1.2
September	28.61	28.93	28.35	49.8	77.3	86.9	88.6	47.0	67.8	109	40	41	43	41	73	31	21	.262	.282	.258	.00	.00	.0	.7	.7	.7	.8
October	28.70	29.15	28.30	43.2	62.5	68.5	70.9	39.6	55.2	95	27	40	42	40	87	50	40	.250	.273	.256	.70	.29	.0	3.1	4.2	4.6	4.3
November	28.72	29.03	28.19	41.6	49.3	51.5	53.9	37.9	45.9	63	28	40	42	43	94	77	74	.248	.288	.279	3.64	1.04	.0	6.7	8.1	7.9	8.1
December	28.74	29.15	28.16	31.2	38.0	39.3	42.2	27.4	34.8	54	3	28	30	30	90	75	71	.169	.180	.177	2.93	.94	T	6.6	7.9	6.8	7.7
Year	28.64	29.15	28.05	42.8	59.4	64.0	66.2	40.3	53.3	107	3	39	40	40	86	54	48	.244	.261	.257	19.41	1.61	13.2	4.6	5.2	5.0	5.3

Annual meteorological summaries for the year ending December 31, 1932—Continued

MACON, GA.

[H_b=370 ft.; h_t=76 ft.; h_r=58 ft.; h_a=84 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.3	NW.	24	S.	0	6	1	9	3	13	5	4	21	0	11	6	14	8	7	0	0	0	5	2	0	0	3	2	0
February	7.2	N.	21	SW.	0	11	7	7	0	6	7	8	11	1	5	9	15	10	9	0	0	0	4	2	0	0	1	0	0
March	8.8	NW.	31	S.	0	7	0	3	3	12	7	5	24	1	17	6	8	11	9	1	0	0	0	0	0	0	7	3	0
April	7.3	NW.	22	NW.	0	6	3	6	2	13	2	8	17	3	11	9	10	8	5	0	0	0	0	0	0	0	0	3	0
May	7.1	NW.	20	W.	0	4	10	11	8	9	0	1	18	1	10	8	13	7	7	0	0	0	0	0	0	0	1	0	0
June	6.2	S.	21	NW.	0	3	7	5	3	15	8	10	9	0	5	11	14	14	14	0	0	1	3	0	0	14	0	17	0
July	6.2	NW.	24	N.	0	4	3	4	7	5	15	7	17	0	9	10	12	12	10	0	0	0	0	0	0	25	0	11	0
August	5.5	E.	23	NW.	0	0	7	21	10	10	2	4	8	0	8	6	17	12	11	0	0	0	2	1	0	10	0	7	0
September	6.5	NE.	21	S.	0	13	18	13	6	8	1	0	0	1	8	5	17	11	9	0	0	0	2	0	0	8	0	4	0
October	6.7	NW.	21	SE.	0	1	8	11	4	10	7	1	19	1	14	5	12	7	5	0	0	0	3	2	0	0	0	1	0
November	7.5	NE.	22	NE.	0	7	22	3	0	2	0	6	19	1	12	6	12	9	6	0	0	0	3	0	0	6	0	6	0
December	6.8	N.	23	NW.	0	11	10	5	2	10	10	8	6	0	4	3	24	16	11	0	0	0	7	2	0	0	5	3	0
Year	6.9	NW.	31	S.	0	73	96	98	48	113	64	62	169	9	114	84	168	125	103	1	0	1	29	9	0	58	22	63	0

MADISON, WIS.

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

January	8.9	W.	27	S.	0	3	3	1	11	7	12	15	10	0	5	5	21	12	6	19	5	0	19	4	13	0	29	0	0
February	9.9	NW.	30	SW.	0	8	2	2	11	6	8	7	14	0	10	10	9	8	3	13	2	0	14	6	11	0	26	2	0
March	10.3	NW.	25	NE.	0	4	4	5	8	2	7	13	19	0	8	8	15	7	5	17	7	1	8	4	15	0	30	0	4
April	10.0	NW.	29	N.	0	7	13	7	11	3	4	3	11	1	8	7	15	9	5	3	0	0	10	1	0	0	8	2	2
May	8.8	S.	27	N.	0	3	6	2	7	17	10	6	9	2	7	10	14	14	10	0	0	0	8	3	0	0	0	7	4
June	6.8	SE.	21	SE.	0	3	4	9	9	8	10	11	6	0	7	15	8	12	8	0	0	0	5	0	0	0	8	1	1
July	7.8	SW.	25	SW.	0	3	2	2	4	9	15	12	14	1	14	14	3	8	5	0	0	1	2	0	0	7	0	4	2
August	7.6	SW.	25	NE.	0	2	2	3	7	13	13	11	11	0	10	10	11	9	6	0	0	0	7	0	0	1	0	7	4
September	7.7	NW.	24	SW.	0	8	3	1	7	11	9	8	13	0	18	9	3	6	2	0	0	0	3	0	0	0	0	2	5
October	9.6	NW.	26	NW.	0	8	6	5	4	8	7	13	11	0	4	6	21	13	8	1	0	0	13	2	0	0	3	1	2
November	9.8	S.	22	S.	0	5	2	3	13	11	10	7	9	0	8	8	14	6	4	5	3	0	9	2	7	0	22	1	0
December	9.8	SW.	22	NW.	0	6	3	2	4	14	14	9	10	0	12	6	13	8	5	10	4	0	14	4	15	0	28	1	0
Year	8.9	NW.	30	SW.	0	60	50	42	96	109	119	115	137	4	111	108	147	112	67	68	21	2	112	26	61	8	146	35	24

MARQUETTE, MICH.

[H_b=734 ft.; h_t=77 ft.; h_r=70 ft.; h_a=111 ft.]

January	10.1	W.	32	S.	1	2	1	7	4	11	7	23	7	0	0	4	27	18	13	18	14	0	0	0	15	0	29	0	0
February	11.4	W.	40	SW.	4	0	0	0	7	14	4	22	11	0	4	5	20	15	12	18	14	0	0	0	2	18	0	26	0	0
March	11.9	W.	29	NW.	0	3	0	7	3	6	4	21	18	0	2	6	23	17	9	21	16	0	0	0	21	0	31	0	0
April	8.5	NW.	27	SE.	0	5	5	7	5	7	1	9	21	0	11	5	14	9	8	8	6	0	0	0	4	0	18	0	0
May	9.4	NW.	32	SW.	1	8	3	12	8	3	6	8	14	0	3	9	19	14	12	2	2	1	1	4	0	1	2	1	0
June	6.8	W.	31	SW.	0	4	2	10	11	6	3	10	12	2	9	13	8	6	5	0	0	0	0	4	0	0	0	1	0
July	9.2	W.	34	NW.	1	0	0	4	7	6	4	17	24	0	7	16	8	13	13	0	0	0	0	0	0	2	0	10	0
August	9.4	W.	26	SW.	0	4	2	6	6	11	3	19	11	0	7	12	12	13	12	0	0	0	0	0	0	2	0	7	0
September	10.8	W.	27	SW.	0	1	1	2	4	12	8	28	4	0	11	12	7	16	10	0	0	1	0	0	0	0	0	3	0
October	9.7	W.	31	W.	0	4	4	2	8	9	6	23	6	0	1	3	27	20	10	7	7	0	0	2	0	0	4	2	0
November	10.7	S.	35	SW.	1	2	1	3	5	18	5	20	6	0	1	7	22	15	12	14	12	0	0	0	9	0	21	0	0
December	11.6	W.	34	S.	3	0	1	2	4	8	18	23	6	0	7	9	15	13	11	18	12	0	0	1	15	0	29	0	1
Year	10.0	W.	40	SW.	11	33	20	62	72	111	69	223	140	2	63	101	202	169	127	106	83	2	1	13	82	5	160	24	1

MEDFORD, OREG.

[H_b=1,329 ft.; h_t=29 ft.; h_r=26 ft.; h_a=58 ft.]

January	4.5	NW.	36	SE.	1	9	2	3	5	6	4	8	19	6	2	4	25	13	11	11	9	0	21	13	0	0	21	0	0
February	5.8	NW.	36	SE.	1	11	6	0	8	5	7	10	9	2	4	13	12	5	3	6	1	0	6	1	0	0	17	0	0
March	5.7	NW.	24	SE.	0	9	2	2	4	9	5	10	17	4	2	9	20	15	11	2	1	0	7	2	0	0	7	0	0
April	6.2	NW.	37	SE.	1	10	4	1	4	10	6	10	15	0	3	9	18	14	12	0	0	2	1	0	0	0	3	0	0
May	6.1	NW.	27	NW.	0	5	3	1	7	7	5	15	18	1	9	11	11	12	9	1	0	2	1	0	0	0	0	4	0
June	6.2	NW.	30	W.	0	6	1	0	3	7	4	23	14	2	13	13	4	4	4	6	0	1	0	0	0	11	0	3	0
July	7.0	NW.	27	NW.	0	4	0	0	3	3	6	25	19	2	21	7	3	1	1	0	0	1	0	0	0	8	0	0	0
August	6.6	NW.	32	SE.	1	6	0	1	4	5	8	13	21	4	25	6	0	1	1	0	0	0	0	0	0	11	0	2	0
September	5.0	S.	23	N.	0	8	0	1	3	17	6	10	15	2	27	3	0	0	0	0	0	0	0	0	0	15	0	0	0
October	4.6	S.	28	S.	0	5	2	1	5	18	7	4	13	7	13	13	5	6	4	0	0	0	7	3	0	4	5	1	0
November	4.7	N.	35	SE.	1	14	6	1	2	7	5	12	7	6	0	11	19	16	13	6	0	0	20	11	0	0	4	0	0
December	5.8	N.	35	SE.	3	13	2	5	10	9	6	6	6	5	6	1	24	13	10	5	2	0	20	10	4	0	19	0	0
Year	5.7	NW.	37	SE.	8	98	28	16	58	103	69	146	173	41	125	100	141	100	79	25	13	6	83	40	4	49	76	10	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

MEMPHIS, TENN.

[ϕ=35° 09′ N.; λ=90° 03′ 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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.71	30.22	29.10	44.9	49.4	50.5	56.0	41.0	48.5	75	25	39	39	39	79	70	67	0.258	0.263	0.264	11.87	3.22	0.0	6.0	6.4	5.0	5.9
February	29.63	30.11	29.18	48.6	55.3	57.1	61.7	45.9	53.8	77	30	40	44	45	74	68	66	.267	.303	.315	5.37	1.24	.0	5.3	5.8	5.4	5.6
March	29.57	30.02	28.79	43.2	50.0	51.9	56.2	39.4	47.8	83	14	33	37	38	68	62	59	.221	.261	.254	4.28	1.88	T	4.8	6.2	5.6	5.7
April	29.54	29.92	29.15	58.3	67.9	69.1	73.2	55.2	64.2	85	43	48	52	51	70	58	55	.353	.397	.378	2.53	.61	.0	5.7	5.6	4.7	5.0
May	29.61	29.86	29.42	64.3	75.2	75.1	79.5	61.9	70.7	89	52	54	57	56	70	54	53	.427	.476	.463	.58	.26	.0	4.1	6.3	5.0	5.1
June	29.49	29.66	29.28	74.5	83.4	82.8	88.1	71.6	79.8	96	63	67	66	67	77	58	60	.663	.651	.662	4.16	1.52	.0	4.8	6.2	6.7	5.6
July	29.55	29.79	29.27	77.4	86.1	85.4	90.5	74.7	82.6	97	66	70	73	73	79	66	68	.749	.820	.815	5.20	2.44	.0	3.6	4.5	4.8	4.2
August	29.55	29.77	29.38	75.1	85.8	84.7	89.9	73.5	81.7	97	62	69	71	71	81	62	64	.707	.772	.757	2.27	1.16	.0	3.6	4.7	4.2	4.1
September	29.61	29.82	29.19	67.1	77.2	75.6	81.3	65.5	73.4	91	55	62	63	64	83	64	70	.561	.603	.618	5.66	2.30	.0	5.6	5.8	6.9	5.6
October	29.60	29.87	29.13	55.4	65.7	64.1	70.4	52.8	61.6	82	42	49	53	52	78	65	66	.358	.415	.400	3.06	1.06	.0	4.2	5.4	4.3	4.5
November	29.76	30.24	29.20	42.1	50.8	49.4	55.8	39.0	47.4	70	27	35	39	40	77	67	73	.220	.255	.265	4.15	1.83	T	4.4	5.1	4.8	5.0
December	29.75	30.17	29.12	37.1	42.0	41.4	47.0	34.4	40.7	69	11	32	34	35	83	76	81	.199	.217	.222	6.97	3.46	1.8	6.7	6.6	6.0	6.6
Year	29.61	30.24	28.79	57.3	65.7	65.6	70.8	54.6	62.7	97	11	50	52	53	77	64	65	.415	.453	.451	56.10	3.46	1.8	4.9	5.7	5.2	5.2

MERIDIAN, MISS.

[ϕ=32° 21′ N.; λ=88° 40′ W.]

January	29.76	30.23	29.19	47.9	58.3	54.8	62.0	44.0	53.0	79	28	44	42	45	86	58	70	0.320	0.313	0.331	6.19	2.10	0.0	5.6	6.9	4.5	6.6
February	29.66	30.13	29.35	53.4	65.0	63.7	69.6	51.0	60.3	82	31	48	46	49	83	54	61	.359	.341	.368	3.40	1.29	.0	6.6	6.8	5.0	6.6
March	29.61	30.01	29.02	45.5	57.5	56.1	63.4	41.9	52.6	83	20	38	36	35	75	47	51	.268	.250	.250	5.58	3.72	T	4.5	5.4	4.5	4.7
April	29.59	29.96	29.28	58.1	72.9	71.1	77.6	54.6	66.1	89	40	51	47	48	80	42	47	.396	.348	.360	2.96	1.78	.0	4.7	4.5	4.0	4.4
May	29.62	29.83	29.30	64.5	75.9	73.0	79.5	59.9	69.7	88	46	58	56	58	82	52	62	.501	.457	.491	4.14	1.66	.0	6.0	5.2	4.7	5.4
June	29.54	29.75	29.30	74.4	84.8	82.0	89.1	69.7	79.4	94	62	68	66	68	82	55	64	.696	.649	.685	2.92	1.01	.0	3.8	4.9	5.1	4.3
July	29.61	29.80	29.41	78.2	89.4	82.2	92.5	73.2	82.8	97	70	72	71	72	83	54	72	.795	.754	.782	4.18	1.23	.0	4.0	4.4	6.6	4.8
August	29.59	29.75	29.37	74.9	86.8	82.0	90.8	71.5	81.2	96	66	70	69	71	86	56	71	.743	.708	.762	4.06	3.12	.0	4.3	5.1	5.7	4.9
September	29.60	29.77	29.14	68.4	79.6	75.4	82.8	65.8	74.3	93	52	64	64	65	85	61	73	.604	.608	.638	5.65	3.37	.0	4.5	5.4	5.0	5.2
October	29.62	29.92	28.97	54.4	69.1	63.7	73.4	50.8	62.1	83	36	51	51	55	88	56	74	.395	.398	.448	8.76	5.46	.0	4.0	4.9	3.3	4.4
November	29.77	30.19	29.33	42.4	55.9	51.7	60.4	40.6	50.5	71	27	38	38	40	84	54	65	.247	.254	.261	2.10	.58	.0	4.7	4.1	2.2	4.1
December	29.76	30.12	29.29	44.3	51.3	48.7	56.2	39.6	47.9	73	20	42	43	43	91	76	81	285	.300	296	8.93	2.71	T	8.6	8.0	6.6	8.1
Year	29.64	30.23	28.97	58.9	70.5	67.0	74.8	55.2	65.0	97	20	54	52	54	84	55	66	.467	.448	.473	58.87	5.46	T	5.1	5.5	4.8	5.3

MIAMI, FLA.

[ϕ=25° 48′ N.; λ=80° 12′ W.]

January	30.13	30.31	29.83	70.0	74.9	72.3	76.1	67.2	71.6	82	43	62	63	63	76	66	72	0.559	0.582	0.575	2.24	1.37	0.0	6.3	6.1	5.4	6.0
February	30.05	30.35	29.71	69.0	77.8	73.9	79.0	67.2	73.1	82	52	64	64	65	83	63	74	.593	.603	.618	.86	.55	.0	3.8	4.6	2.3	4.1
March	29.97	30.23	29.35	63.8	74.4	70.4	77.1	60.3	68.7	84	39	57	58	61	80	58	72	.503	.513	.553	1.85	.70	.0	5.3	5.8	4.8	5.9
April	29.98	30.22	29.70	70.3	76.5	73.4	79.3	65.8	72.6	85	52	61	62	62	73	61	70	.546	.562	.577	2.48	.88	.0	4.0	5.8	4.2	4.8
May	29.97	30.13	29.80	74.9	80.3	78.2	82.6	69.5	76.0	90	63	68	67	67	79	65	74	.678	.665	.659	15.40	3.17	.0	6.3	7.1	6.9	6.9
June	29.95	30.10	29.76	80.9	83.6	80.2	86.3	76.3	81.3	90	69	74	73	73	79	72	79	.830	.818	.811	8.49	3.19	.0	7.0	7.5	7.6	7.6
July	30.00	30.15	29.87	83.8	87.4	83.3	89.5	78.2	83.8	93	74	74	73	73	72	62	70	.824	.806	.801	.48	.28	.0	3.7	5.1	4.6	4.6
August	29.95	30.06	29.56	82.6	86.9	81.9	88.4	75.8	82.1	91	71	74	74	74	77	66	76	.851	.834	.829	15.05	10.24	.0	6.9	6.6	6.7	7.0
September	29.91	30.08	29.60	80.7	85.0	81.3	86.7	76.8	81.8	93	72	73	72	72	78	67	75	.817	.799	.799	8.92	2.89	.0	5.6	7.6	6.4	6.9
October	29.94	30.15	29.71	77.6	82.4	79.1	83.6	74.5	79.0	86	66	70	70	70	78	67	73	.732	.732	.737	17.43	7.64	.0	5.7	6.2	5.2	5.9
November	30.00	30.19	29.68	67.5	74.5	69.9	76.0	63.4	69.7	84	47	60	62	61	79	65	73	.557	.572	.555	6.14	2.95	.0	5.4	5.8	4.6	5.5
December	30.12	30.30	29.96	70.3	76.2	72.8	77.2	68.1	72.6	81	53	62	62	64	76	63	74	.566	.572	.597	.56	.17	.0	6.2	6.8	4.7	6.3
Year	30.00	30.35	29.35	74.3	80.0	76.2	81.8	70.3	76.0	93	39	67	67	67	78	65	74	.671	.672	.676	79.90	10.24	.0	5.5	6.2	5.3	6.0

MILES CITY, MONT.

[ϕ=46° 25′ N.; λ=105° 49′ W.]

January	27.46	27.92	26.48	10.5	17.3	17.9	24.9	5.4	15.2	48	−20	8	12	13	88	77	81	0.066	0.078	0.84	0.76	0.47	8.6	4.8	5.5	5.3	5.5
February	27.39	27.89	26.73	16.8	26.3	28.5	34.4	12.1	23.2	71	−12	12	16	19	81	66	69	.089	.101	.112	.36	.20	1.8	4.9	5.3	5.7	5.2
March	27.50	28.16	26.88	19.7	28.3	30.3	34.5	16.7	25.6	62	−15	16	20	21	87	72	71	.110	.123	.131	.85	.18	4.3	7.6	7.1	6.5	6.8
April	27.40	27.93	26.79	41.5	53.8	56.3	59.1	39.6	49.4	81	26	34	34	34	75	53	50	.200	.203	.203	3.44	1.12	T	5.3	6.6	6.5	6.2
May	27.43	27.81	27.03	50.3	65.6	67.7	71.1	47.5	59.3	91	34	42	42	40	73	44	40	.268	.273	.257	.72	.28	.0	4.5	5.2	5.2	5.0
June	27.38	27.66	27.00	59.9	75.1	75.6	79.4	57.4	68.4	98	48	53	50	51	79	44	48	.407	.374	.387	2.29	.84	.0	4.3	4.8	5.3	4.8
July	27.39	27.63	26.97	65.0	83.2	85.0	89.3	62.9	75.6	103	49	51	49	48	62	33	32	.382	.358	.353	1.37	.86	.0	2.7	2.9	3.7	3.0
August	27.40	27.65	26.98	62.1	80.4	83.1	85.5	60.6	73.0	100	46	52	51	49	72	38	34	.404	.388	.364	2.09	.84	.0	3.7	2.7	2.7	2.8
September	27.53	27.37	26.89	47.6	68.9	69.2	74.3	45.7	60.0	97	34	39	38	40	73	36	37	.245	.239	.254	.16	.14	.0	3.1	3.3	3.9	3.5
October	27.51	27.94	27.04	35.4	47.1	44.4	51.6	32.4	42.0	80	13	30	31	32	82	57	61	.172	.177	.182	2.32	.89	18.9	5.6	6.4	6.3	6.2
November	27.51	27.99	27.00	28.3	38.1	37.0	44.3	24.7	34.3	60	−3	23	23	25	86	56	64	.124	.129	.141	.16	.09	.7	5.5	6.4	5.6	6.3
December	27.47	28.11	26.94	13.0	21.4	19.7	26.6	7.3	17.0	56	−26	8	13	14	81	68	77	.071	.065	.088	.51	.46	5.4	5.2	5.2	5.7	5.4
Year	27.45	28.16	26.48	37.5	50.5	51.2	56.2	34.3	45.3	103	−26	31	32	32	78	54	55	.212	.211	.213	15.03	1.12	39.7	4.8	5.1	5.2	5.1

Annual meteorological summaries for the year ending December 31, 1932—Continued

MEMPHIS, TENN.

[H_b=399 ft.; h_t=78 ft.; h_r=70 ft.; h_a=86 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.7	E.	32	SW.	1	7	4	13	8	8	11	4	4	3	11	5	15	13	12	0	0	0	5	3	0	0	4	4	0
February	8.6	SW.	25	NW.	0	5	10	13	3	7	14	1	5	0	10	9	10	11	11	0	0	0	3	1	0	0	1	0	0
March	9.9	N.	38	W.	1	11	8	6	4	10	7	4	12	0	11	8	12	11	9	5	2	0	0	0	2	0	11	3	0
April	8.6	SW.	36	W.	2	8	7	7	6	12	12	4	2	2	11	13	6	8	7	0	0	1	0	0	0	0	0	4	0
May	7.3	E.	21	N.	0	9	10	14	10	14	4	0	1	0	8	16	7	9	6	0	0	0	0	0	0	0	0	6	0
June	6.4	SW.	25	NW.	0	5	5	6	4	8	16	4	8	4	7	13	10	10	9	0	0	0	0	0	0	10	0	15	0
July	6.4	SW.	31	SW.	0	5	4	7	2	3	16	11	6	8	15	10	6	10	8	0	0	0	0	0	0	18	0	11	0
August	5.9	SW.	16	NW.	0	5	11	11	7	10	11	2	1	4	13	14	4	7	5	0	0	0	0	0	0	18	0	11	0
September	6.4	E.	20	N.	0	9	20	10	7	3	5	2	2	2	9	9	12	8	7	0	0	0	0	0	0	2	0	3	0
October	7.7	S.	25	NW.	0	10	4	3	7	13	11	2	8	4	15	5	11	7	7	0	0	0	0	0	0	0	0	1	0
November	8.5	NE.	27	NW.	0	13	8	9	5	6	8	3	7	1	14	3	13	6	6	1	1	1	2	1	0	0	6	1	0
December	8.6	NE.	25	N.	0	13	9	10	6	11	6	1	5	1	8	6	17	17	16	6	1	0	9	6	9	0	15	1	0
Year	7.7	SW.	38	W.	4	100	100	109	69	105	121	38	61	29	132	111	123	117	103	12	4	2	19	11	11	48	37	60	0

MERIDIAN, MISS.

[H_b=375 ft.; h_t=87 ft.; h_r=64 ft.; h_a=95 ft.]

January	7.0	S.	30	SW.	0	9	9	6	6	15	6	2	8	1	7	8	16	10	9	0	0	0	9	2	0	0	5	3	0
February	7.0	NE.	24	NW.	0	6	14	6	3	11	8	2	3	5	5	10	14	11	10	0	0	0	6	0	0	0	1	2	0
March	7.9	NW.	34	W.	1	7	9	0	2	10	10	5	13	6	14	6	11	7	7	2	0	0	4	0	0	0	9	6	0
April	6.7	SW.	26	SW.	0	6	7	1	3	9	17	4	4	9	13	9	8	7	5	0	0	0	6	1	0	0	0	2	0
May	6.1	NE.	19	E.	0	4	14	8	10	10	4	1	7	4	11	10	10	11	9	0	0	0	6	1	0	0	0	6	0
June	5.6	SW.	26	NW.	0	1	5	4	7	9	19	9	5	1	11	16	3	9	8	0	0	1	5	0	0	16	0	13	0
July	5.3	SW.	26	W.	0	12	7	5	3	5	17	5	5	3	12	13	6	10	10	0	0	0	2	0	0	27	0	15	0
August	4.7	NE.	26	NW.	0	4	13	4	15	5	11	6	2	2	9	15	7	11	9	0	0	1	3	0	0	23	0	9	0
September	6.5	NE.	26	NE.	0	11	17	13	4	3	2	2	4	4	9	11	10	10	5	0	0	0	3	0	0	4	0	3	0
October	5.3	NE.	28	NW.	0	8	15	6	5	5	1	2	9	11	16	4	11	9	7	0	0	1	7	2	0	0	0	2	0
November	6.5	NE.	21	NW.	0	4	18	10	2	5	5	2	7	7	15	6	9	10	7	0	0	0	6	1	0	0	6	1	0
December	6.2	NE.	22	S.	0	10	12	7	9	7	3	1	6	7	3	6	22	19	17	2	0	0	11	3	2	0	8	0	0
Year	6.2	NE.	34	W.	1	82	140	70	69	94	103	41	73	60	125	114	127	124	103	4	0	3	68	10	2	70	29	62	0

MIAMI, FLA.

[H_b=25 ft.; h_t=124 ft.; h_r=117 ft.; h_a=168 ft.]

January	12.0	E.	26	NE.	0	8	10	24	15	3	0	1	1	0	5	18	8	10	6	0	0	0	1	0	0	0	0	1	0
February	9.9	SE.	29	S.	0	6	7	8	12	7	6	4	8	0	13	11	5	5	4	0	0	0	1	2	0	0	0	2	0
March	12.0	SE.	41	SW.	2	9	9	5	9	12	3	4	11	0	9	9	13	6	6	0	0	0	1	1	0	0	0	2	0
April	10.8	SE.	29	NW.	0	4	13	8	12	9	2	5	7	0	11	12	7	8	6	0	0	0	0	0	0	0	0	4	0
May	10.4	NE.	30	S.	0	0	17	11	12	7	7	3	5	0	5	8	18	16	15	0	0	0	0	0	0	0	0	14	0
June	8.9	SE.	30	SW.	0	5	4	9	19	9	10	2	2	0	0	12	18	15	12	0	0	0	0	0	0	1	0	17	0
July	7.7	SE.	21	SE.	0	8	7	10	17	6	4	4	6	0	12	11	8	5	4	0	0	0	0	0	0	7	0	10	0
August	8.1	SE.	40	NE.	1	9	10	14	15	3	3	1	5	2	5	7	19	19	17	0	0	0	0	0	0	7	0	14	0
September	9.2	E.	24	NE.	0	7	15	21	7	3	4	2	1	0	1	15	14	16	16	0	0	0	0	0	0	2	0	5	0
October	10.6	SE.	27	NE.	0	8	13	17	16	3	1	4	0	0	12	4	15	13	9	0	0	0	0	0	0	0	0	4	0
November	12.1	NW.	26	NE.	0	14	13	7	8	1	2	3	12	0	9	10	11	15	12	0	0	0	0	0	0	0	0	1	0
December	11.2	E.	27	NE.	0	9	14	19	12	4	3	0	1	0	5	16	10	8	5	0	0	0	1	0	0	0	0	0	0
Year	10.2	SE.	41	SW.	3	87	132	153	154	67	45	33	59	2	87	133	146	136	112	0	0	0	4	3	0	17	0	74	0

MILES CITY, MONT.

[H_b=2,371 ft.; h_t=48 ft.; h_r=41 ft.; h_a=55 ft.]

January	5.3	S.	27	NW.	0	6	5	2	1	21	9	4	4	10	9	13	9	7	4	11	6	0	1	0	22	0	31	0	0
February	5.2	S.	20	N.	0	6	8	5	4	13	7	9	2	4	10	11	8	3	3	7	2	0	0	0	14	0	23	0	1
March	6.8	W.	31	W.	0	6	7	2	2	12	7	9	13	4	4	14	13	14	7	15	10	1	0	0	12	0	24	0	0
April	8.1	NW.	36	W.	1	2	6	4	10	10	7	5	16	0	8	9	13	9	8	4	1	2	0	0	6	0	3	3	1
May	6.8	NE.	32	SW.	1	8	12	5	6	13	6	5	4	3	9	16	8	9	4	0	0	1	2	1	0	1	0	6	1
June	5.8	S.	26	NW.	0	5	8	1	8	8	7	8	7	10	11	12	7	11	8	0	0	0	0	0	0	5	0	9	0
July	6.4	S.	31	SW.	0	6	10	4	8	8	4	8	6	8	17	13	1	7	4	0	0	0	0	0	0	15	0	8	0
August	6.7	NE.	26	SW.	0	7	14	10	8	6	1	6	6	4	21	9	1	12	7	0	0	0	0	0	0	11	0	14	0
September	5.4	S.	33	NW.	1	7	6	2	5	9	6	11	3	11	17	9	4	3	1	0	0	0	0	0	2	0	0	0	0
October	6.8	S.	29	NW.	0	7	6	5	3	12	10	8	5	6	7	12	12	11	6	9	6	0	0	0	11	0	16	0	1
November	6.4	S.	27	NW.	0	2	10	3	3	17	9	11	5	0	6	10	14	6	2	8	3	0	0	0	3	0	24	0	0
December	5.7	S.	29	W.	0	4	5	0	0	22	10	14	4	3	9	13	9	3	3	11	3	0	0	0	19	0	30	0	0
Year	6.3	S.	36	W.	3	66	95	43	58	151	83	98	75	63	128	141	97	95	57	65	31	4	3	1	71	34	151	40	4

Annual meteorological summaries for the year ending December 31, 1932—Continued

MILWAUKEE, WIS.

[ϕ=43° 02′ N.; λ=87° 54′ W]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.28	29.96	28.63	29.0	32.3	31.2	36.1	24.7	30.4	52	−6	25	26	26	85	76	80	0.146	0.147	0.147	1.55	0.49	7.4	7.7	7.4	7.9	7.6
February	29.25	29.95	28.18	26.3	33.1	34.1	40.2	22.0	31.1	62	5	20	23	26	78	67	71	.121	.137	.145	.94	.37	2.2	6.1	5.3	5.4	5.8
March	29.19	29.67	28.77	24.5	29.1	29.0	34.3	21.1	27.7	58	−2	18	19	20	76	64	67	.110	.112	.116	2.20	1.12	17.5	6.0	6.4	5.5	6.4
April	29.28	29.69	28.93	40.0	45.6	44.5	50.2	38.2	44.2	65	29	31	31	30	69	59	59	.174	.177	.170	.54	.19	T	4.6	5.5	5.4	5.3
May	29.28	29.65	28.95	53.6	59.1	57.4	64.9	48.6	56.8	88	38	44	44	42	73	61	60	.295	.296	.278	1.53	.55	.0	5.2	5.5	6.0	5.7
June	29.18	29.45	28.72	65.8	71.6	70.6	75.9	62.3	69.1	88	52	57	57	56	74	61	64	.473	.472	.475	1.67	.86	.0	5.1	4.5	5.3	4.8
July	29.19	29.51	28.71	70.2	77.9	76.8	82.9	65.7	74.3	98	55	58	58	59	66	54	57	.493	.501	.516	3.12	1.54	.0	2.8	4.5	4.1	3.8
August	29.24	29.56	28.96	68.5	77.1	74.5	80.4	65.3	72.8	94	57	60	58	59	74	53	61	.520	.489	.515	1.94	.55	.0	4.7	5.1	4.5	5.1
September	29.36	29.66	29.04	58.4	67.5	65.2	70.5	55.7	63.1	88	45	49	49	50	72	54	60	.363	.370	.375	.90	.71	.0	3.2	3.1	2.9	2.2
October	29.22	29.59	28.75	45.8	52.7	51.4	56.6	43.2	49.9	78	30	40	40	41	80	65	70	.257	.262	.267	4.85	1.57	T	7.0	7.0	7.4	7.2
November	29.39	30.00	28.78	31.1	38.1	37.2	41.6	28.7	35.2	60	14	25	28	28	76	63	69	.138	.150	.162	.86	.69	.6	6.3	6.1	6.0	6.9
December	29.31	29.90	28.53	23.2	27.9	26.6	33.1	19.1	26.1	57	−8	18	18	19	78	67	72	.115	.120	.123	2.15	.76	7.9	5.3	6.0	6.3	5.8
Year	29.26	30.00	28.18	44.7	51.0	49.9	55.6	41.2	48.4	98	−8	37	37	38	75	62	66	.267	.269	.274	22.35	1.57	25.5	5.3	5.5	5.6	5.6

MINNEAPOLIS, MINN.

[ϕ=44° 59′ N.; λ=93° 18′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
January	29.01	29.73	28.33		21.5	19.8	25.2	11.0	18.1	42	−17		16	16		79	83		0.095	0.094	1.70	0.63	18.7		7.6	7.4	7.8
February	28.96	29.57	28.01		22.0	23.2	28.6	10.2	19.4	57	−7		14	17		72	75		.097	.101	.74	.32	8.1		6.7	5.3	6.4
March	28.97	29.46	28.36		24.4	25.5	29.2	14.5	21.8	62	−6		14	16		62	67		.091	.100	1.42	.65	13.4		7.4	6.7	7.2
April	29.00	29.36	28.61		50.8	51.6	55.6	37.7	46.6	78	24		31	32		50	50		.179	.185	2.15	.78	2.2		7.2	6.5	6.9
May	28.97	29.27	28.49		63.4	64.5	68.7	49.5	59.1	95	37		43	44		52	53		.280	.302	2.05	.60	.0		6.6	6.0	6.4
June	28.89	29.17	28.50		78.0	77.4	81.9	62.7	72.3	93	56		57	55		49	48		.470	.446	1.56	.53	.0		7.6	4.9	6.2
July	28.91	29.22	28.50		80.1	81.7	84.8	64.6	74.7	101	50		57	57		46	45		.478	.490	4.36	1.90	.0		4.3	3.8	4.0
August	28.94	29.24	28.54		78.	77.5	82.1	63.2	72.6	93	51		55	55		48	49		.458	.451	3.87	2.18	.0		5.4	4.1	5.3
September	29.05	29.47	28.51		67.7	66.9	72.5	51.0	61.8	85	41		43	44		43	47		.292	.312	.85	.23	.0		4.8	3.7	3.8
October	28.95	29.30	28.41		50.1	49.5	54.2	38.5	46.4	80	29		34	33		55	55		.205	.194	.89	.30	1.6		7.8	7.3	7.4
November	29.07	29.72	28.41		34.7	33.2	39.1	22.3	30.7	63	−5		22	22		60	63		.127	.128	2.28	1.51	.8		7.0	5.2	6.7
December	29.01	29.58	28.32		20.3	19.5	25.2	8.4	16.8	49	−14		12	14		69	77		.086	.093	1.52	1.03	13.7		6.0	4.6	5.7
Year	28.98	29.73	28.01		49.3	49.2	53.9	36.1	45.0	101	−17		33	34		57	59		.239	.241	23.39	2.18	58.5		6.5	5.5	6.2

MOBILE, ALA.

[ϕ=30° 41′ N.; λ=88° 02′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
January	30.09	30.51	29.66	53.6	61.4	59.0	64.9	50.1	57.5	75	37	49	50	50	84	68	75	0.377	0.398	0.401	4.55	1.26	0.0	6.7	6.5	5.0	6.5
February	30.00	30.42	29.73	58.7	67.2	64.7	71.4	56.3	63.8	79	36	54	54	55	86	66	76	.449	.446	.474	2.54	1.19	.0	5.1	6.3	7.2	6.7
March	29.95	30.34	29.38	50.1	59.8	58.2	64.4	46.8	55.6	78	24	44	45	45	79	60	65	.327	.345	.345	3.33	2.31	.0	5.6	5.2	5.6	5.1
April	29.94	30.31	29.62	61.9	73.5	69.4	77.0	59.1	68.0	88	48	57	57	56	85	58	65	.485	.483	.471	3.76	2.91	.0	4.2	4.1	3.7	4.5
May	29.93	30.14	29.47	67.7	76.9	74.1	80.4	65.0	72.7	88	55	62	60	63	83	60	70	.570	.538	.585	10.59	5.37	.0	5.3	5.0	5.0	5.2
June	29.88	30.08	29.64	77.5	86.4	81.7	89.7	73.4	81.6	95	67	71	70	71	81	58	70	.771	.730	.754	2.66	.80	.0	3.3	4.7	4.9	4.1
July	29.93	30.13	29.73	80.6	89.6	84.1	93.1	76.2	84.6	99	72	74	71	74	79	59	71	.825	.820	.826	6.14	2.45	.0	3.3	5.0	7.9	5.6
August	29.90	30.07	29.20	77.0	86.4	80.8	89.7	74.5	82.1	95	70	74	73	74	90	64	80	.833	.802	.835	8.53	7.60	.0	5.3	6.3	8.1	6.5
September	29.90	30.08	29.15	72.3	82.1	78.8	84.9	70.4	77.6	94	58	68	69	70	88	60	76	.704	.727	.750	10.76	2.73	.0	6.1	5.6	5.4	5.8
October	29.94	30.24	29.32	60.7	72.6	68.1	75.8	57.1	66.4	87	43	57	59	59	87	65	74	.486	.517	.521	10.08	5.62	.0	4.4	4.6	3.5	4.3
November	30.08	30.47	29.72	48.2	58.2	56.8	62.7	45.7	54.2	74	34	44	49	47	85	73	72	.305	.372	.344	2.41	1.26	.0	5.5	4.3	3.7	4.7
December	30.06	30.43	29.77	51.0	56.9	55.7	62.5	48.1	55.3	72	26	50	53	52	93	83	88	.379	.424	.409	4.90	1.80	.0	7.8	8.0	6.6	8.4
Year	29.97	30.51	29.15	63.3	72.6	69.3	76.4	60.2	68.3	99	24	59	59	60	85	65	74	.543	.550	.560	70.25	7.60	.0	5.2	5.5	5.6	5.6

MODENA, UTAH

[ϕ=37° 48′ N.; λ=113° 54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
January	24.60	24.99	23.89	11.6	25.6	21.4	29.3	3.0	16.2	43	−12	8	18	16	86	73	79	0.064	0.098	0.090	0.41	0.11	10.8	3.6	4.7	5.8	5.4
February	24.58	25.01	24.19	21.8	34.7	34.1	38.2	16.7	27.4	56	−6	19	26	26	88	70	72	.106	.142	.142	2.19	.63	19.8	5.1	5.3	5.6	5.5
March	24.60	24.92	24.11	29.1	47.8	48.3	52.3	26.3	39.3	69	16	22	23	21	73	37	36	.116	.122	.115	.26	.16	1.6	2.8	5.2	5.9	5.5
April	24.53	24.82	23.94	33.0	58.1	58.0	61.8	30.1	46.0	73	18	21	21	19	62	26	25	.114	.111	.103	.25	.18	4.4	3.3	5.7	5.9	5.4
May	24.55	24.81	24.30	42.1	65.1	65.1	69.1	39.7	54.4	82	29	32	29	28	68	28	27	.180	.161	.151	1.01	.51	2.0	2.9	3.6	4.0	3.6
June	24.56	24.73	24.28	48.0	75.1	75.9	79.7	45.7	62.7	94	29	34	34	32	62	25	24	.201	.198	.185	1.12	.70	.0	2.8	3.8	4.5	3.6
July	24.63	24.82	24.35	56.5	82.0	82.9	86.7	54.4	70.6	96	39	41	40	37	58	26	24	.278	.265	.235	1.12	.90	.0	2.8	3.9	3.8	3.4
August	24.61	24.79	24.29	53.7	83.4	83.4	86.7	52.1	69.4	95	35	36	39	36	52	22	21	.217	.244	.225	.60	.58	.0	1.3	2.1	2.2	2.0
September	24.68	24.84	24.42	46.0	76.0	76.5	79.7	44.2	62.0	89	36	28	32	30	50	24	23	.157	.187	.176	.76	.51	.0	2.0	3.1	2.7	2.7
October	24.65	24.91	24.21	35.5	61.0	58.6	64.5	32.8	48.6	78	19	24	25	25	62	27	30	.133	.140	.141	.29	.28	T	1.5	2.3	3.0	2.1
November	24.74	24.94	24.42	27.9	53.8	47.9	57.5	24.4	41.0	68	14	15	18	18	88	25	30	.086	.099	.098	.04	.04	.0	2.5	3.6	3.2	3.4
December	24.60	24.94	24.16	11.0	26.8	21.6	30.1	5.1	17.6	56	−20	9	17	15	91	69	76	.070	.100	.090	1.26	.76	11.3	2.7	4.6	4.3	4.2
Year	24.61	25.01	23.89	34.7	57.4	56.1	61.3	31.2	46.3	96	−20	24	27	25	68	38	39	.143	.156	.146	9.40	.90	49.9	2.8	4.0	4.2	3.9

Annual meteorological summaries for the year ending December 31, 1932—Continued

MILWAUKEE, WIS.

[H_b=681 ft.; h_t=97 ft.; h_r=89 ft.; h_a=221 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi*																										
January	13.5	W.	35	SW.	5	4	4	3	2	5	9	26	9	0	5	6	20	10	7	15	5	0	13	1	8	0	26	0	0
February	14.0	W.	45	W.	2	9	2	3	3	10	8	13	10	0	9	8	12	8	5	10	3	0	10	4	7	0	23	1	0
March	14.2	NW.	39	SW.	2	7	5	4	5	4	3	16	18	0	7	10	14	10	7	15	8	0	9	0	11	0	24	0	0
April	13.6	N.	32	SE.	1	20	8	10	6	5	1	4	6	0	13	6	11	7	5	4	0	0	3	1	0	0	3	1	0
May	12.7	N.	34	N.	2	14	4	5	4	13	10	8	4	0	8	13	10	11	8	0	0	0	7	0	0	0	0	4	0
June	9.2	E.	27	SE.	0	11	6	13	6	9	5	9	1	0	10	14	6	8	7	0	0	1	5	2	0	0	0	4	0
July	12.3	W.	34	S.	2	9	5	3	6	4	7	22	6	0	14	13	4	9	7	0	0	0	1	0	0	0	0	7	0
August	11.4	W.	30	SW.	0	5	4	2	5	14	7	16	9	0	11	13	7	10	7	0	0	0	9	1	0	4	0	6	0
September	11.5	N.	32	S.	1	14	2	6	4	10	4	10	10	0	19	6	5	4	3	0	0	0	4	0	0	0	0	1	1
October	14.0	W.	32	NW.	2	13	4	3	3	7	9	11	12	0	6	8	17	13	7	2	0	0	13	0	0	0	1	1	0
November	13.8	SW.	38	SE.	1	7	3	1	6	12	11	13	7	0	7	5	18	6	3	7	3	0	6	3	5	0	19	1	0
December	14.3	W.	38	SW.	1	5	0	5	2	7	15	19	9	0	10	5	16	9	8	10	4	0	10	2	13	0	23	0	0
Year	12.9	W.	45	W.	19	118	47	58	52	100	89	167	101	0	119	107	140	103	74	63	23	1	90	14	44	13	119	26	1

MINNEAPOLIS, MINN.

[H_b=918 ft.; h_t=102 ft.; h_r=92 ft.; h_a=208 ft.]

January	10.5	W.	27	NW.	0	4	1	2	4	4	3	6	7	0	4	7	20	11	7	15	11	0	13	0	25	0	30	0	0
February	11.0	W.	32	W.	1	3	0	0	6	6	1	9	4	0	6	10	13	9	3	11	9	0	11	2	15	0	25	0	0
March	12.3	NW.	30	N.	0	5	1	1	1	5	2	7	9	0	4	10	17	10	5	13	8	0	5	0	19	0	29	0	0
April	11.5	SE.	30	SE.	0	3	1	5	10	1	1	4	5	0	5	9	16	9	7	3	2	1	5	0	0	0	8	4	0
May	11.2	S.	25	NW.	0	5	1	3	3	7	5	3	4	0	10	4	17	14	11	0	0	0	4	0	0	1	0	5	2
June	9.2	SE.	32	SE.	3	4	2	1	6	7	2	4	4	0	5	11	14	9	8	0	0	0	1	0	0	2	0	6	0
July	10.4	S.	37	E.	1	5	2	1	2	5	7	4	5	0	14	13	4	8	4	0	0	0	0	0	0	11	0	7	0
August	9.9	S.	31	NW.	0	5	0	1	4	5	6	4	6	0	11	10	10	7	5	0	0	2	4	0	0	6	0	6	0
September	10.3	S.	34	SE.	2	2	1	1	6	7	7	3	3	0	16	8	6	6	6	0	0	1	4	0	0	0	0	5	0
October	11.3	SE.	32	NW.	1	4	0	2	6	3	2	11	3	0	5	6	20	10	6	6	3	0	5	0	0	0	8	2	1
November	11.9	S.	28	NW.	0	1	1	1	7	6	3	5	6	0	5	11	14	9	6	8	4	0	5	0	9	0	21	0	0
December	10.3	W.	27	NW.	0	1	0	1	3	9	1	11	5	0	10	9	12	8	5	13	8	0	12	2	16	0	29	0	0
Year	10.8	S.	37	E.	8	42	10	19	58	65	40	71	61	0	95	108	163	110	73	69	45	4	69	4	84	20	150	35	3

MOBILE, ALA.

[H_b=57 ft.; h_t=125 ft.; h_r=119 ft.; h_a=161 ft.]

January	10.8	N.	34	SE.	2	13	7	9	13	7	3	1	9	0	7	8	16	13	10	0	0	0	12	7	0	0	0	2	0
February	9.8	S.	27	NW.	0	14	6	3	5	19	7	2	2	0	6	6	17	9	7	0	0	0	15	7	0	0	0	0	0
March	11.4	S.	31	NW.	0	12	5	5	1	13	12	4	10	0	12	7	12	9	7	0	0	0	6	1	0	0	4	2	0
April	9.5	SW.	29	SW.	0	8	2	2	3	10	19	7	6	3	14	8	8	4	4	0	0	0	9	4	0	0	0	2	0
May	10.2	S.	40	SE.	1	15	7	6	5	14	6	4	5	0	12	8	11	10	8	0	0	0	7	4	0	0	0	7	0
June	8.0	SW.	26	NW.	0	9	7	3	1	1	24	9	6	0	12	17	1	9	8	0	0	0	4	0	0	13	0	11	0
July	8.2	SW.	30	SW.	0	13	4	1	2	3	14	11	14	0	7	17	7	12	10	0	0	0	0	0	0	23	0	18	0
August	7.2	E.	44	NE.	2	14	15	7	1	5	10	5	5	0	6	11	14	14	14	0	0	0	4	0	0	17	0	17	0
September	10.4	N.	52	E.	2	25	5	11	3	7	4	3	2	0	10	9	11	9	9	0	0	0	3	0	0	2	0	4	0
October	9.3	N.	39	SE.	1	23	8	7	4	8	4	4	4	0	16	3	12	10	8	0	0	0	5	0	0	0	0	3	0
November	9.7	N.	29	N.	0	16	14	2	3	3	4	3	15	0	13	6	11	5	4	0	0	0	8	0	0	0	0	0	0
December	9.9	N.	28	NW.	0	16	13	2	6	15	3	1	5	1	3	3	25	12	12	0	0	0	17	9	0	0	3	0	0
Year	9.5	N.	52	E.	8	178	93	58	47	105	110	54	83	4	118	103	145	116	101	0	0	0	90	32	0	55	7	66	0

MODENA, UTAH

[H_b=5,473 ft.; h_t=10 ft.; h_r=3 ft.; h_a=46 ft.]

January	8.7	W.	31	SW.	0	5	14	4	2	1	14	20	2	0	12	8	11	8	6	15	8	0	2	1	22	0	31	0	0
February	8.6	W.	40	S.	2	9	8	2	4	1	14	15	5	0	11	3	15	14	10	12	10	0	0	0	9	0	26	0	0
March	9.3	W.	36	NW.	1	6	10	6	1	2	12	16	8	1	7	16	8	3	2	5	1	1	1	0	0	0	28	0	0
April	11.3	SW.	37	SW.	2	2	3	6	0	6	22	20	1	0	10	8	12	5	2	7	4	0	0	0	0	0	20	0	0
May	11.1	SW.	47	SW.	7	4	6	2	2	10	18	14	6	0	17	11	3	5	4	2	2	2	0	0	0	0	2	4	0
June	9.1	SW.	43	NW.	3	3	3	3	2	6	20	15	7	1	17	10	3	6	5	0	0	2	0	0	0	7	1	10	0
July	10.1	SW.	35	SW.	2	3	2	2	4	6	25	19	1	0	19	7	5	6	4	0	0	1	0	0	0	9	0	8	0
August	10.7	SW.	33	W.	1	3	2	4	2	4	27	18	2	0	23	8	0	3	3	0	0	0	0	0	0	14	0	4	0
September	8.2	W.	25	NW.	0	4	7	7	4	6	13	15	4	0	20	3	7	7	4	0	0	0	1	0	0	0	0	5	0
October	9.8	SW.	29	SW.	0	4	12	6	3	3	13	17	4	0	22	7	2	2	1	2	1	0	0	0	0	0	14	1	0
November	9.1	W.	32	S.	1	4	13	4	1	2	13	20	3	0	17	7	6	1	1	1	0	0	0	0	0	0	29	0	0
December	8.8	W.	34	SW.	1	7	9	5	1	1	19	15	4	1	16	6	9	6	4	10	6	0	1	0	16	0	31	0	0
Year	9.6	SW.	47	SW.	20	54	89	51	26	48	210	204	47	3	191	94	81	66	46	54	32	6	5	1	47	30	182	32	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

MONTGOMERY, ALA.

[ϕ=32°23′ N.; λ=86°18′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.94	30.42	29.41	50.2	59.5	57.8	63.7	46.9	55.3	80	32	45	46	45	83	63	65	0.329	0.349	0.337	5.86	1.97	0.0	5.3	6.8	5.3	6.3
February	29.83	30.31	29.55	53.8	63.3	63.5	69.3	51.9	60.6	81	34	48	49	48	81	62	61	.357	.367	.361	5.17	3.15	.0	6.2	7.2	5.7	6.9
March	29.76	30.15	29.17	46.7	58.2	57.7	64.1	43.2	53.6	83	20	38	38	36	71	48	47	.264	.253	.242	4.17	1.66	.1	5.7	4.9	4.9	4.9
April	29.75	30.11	29.45	58.9	72.2	71.7	77.1	55.7	66.4	89	44	49	48	48	71	44	46	.371	.360	.360	2.86	1.59	.0	5.2	4.8	4.7	4.8
May	29.78	29.99	29.52	66.4	77.2	74.6	81.1	62.5	71.8	87	54	59	56	56	76	51	56	.505	.468	.464	3.16	1.61	.0	4.7	4.8	5.3	4.8
June	29.70	29.92	29.44	74.7	85.8	80.8	89.9	70.7	80.3	98	65	69	67	68	82	54	57	.710	.677	.691	7.62	2.93	.0	4.9	4.2	7.2	5.2
July	29.75	29.94	29.52	77.8	89.1	84.7	93.6	74.8	84.2	100	70	73	72	72	84	58	57	.805	.786	.776	3.49	.97	.0	5.5	4.9	6.9	5.5
August	29.74	29.92	29.53	76.0	85.9	81.4	89.9	73.4	81.6	96	68	72	72	71	87	63	73	.780	.774	.769	5.26	1.63	.0	5.7	6.0	7.1	6.1
September	29.77	29.99	29.59	70.2	81.8	78.0	85.2	68.3	76.8	95	57	64	63	64	82	56	65	.619	.598	.618	2.97	1.36	.0	5.5	6.2	6.0	5.9
October	29.78	30.10	29.11	57.1	70.8	67.1	75.3	54.4	64.8	83	41	52	53	53	85	55	62	.412	.422	.416	4.67	1.85	.0	4.4	4.8	3.7	4.5
November	29.93	30.35	29.52	45.3	55.4	53.6	60.5	42.3	51.4	75	31	39	40	39	78	61	61	.262	.280	.263	1.77	.81	.0	5.3	5.3	4.1	5.0
December	29.93	30.24	29.54	49.0	66.0	54.6	61.2	45.4	53.3	77	29	46	47	46	89	75	76	.333	.351	.339	7.76	1.50	.0	8.5	8.7	7.5	8.5
Year	29.80	30.42	29.11	60.5	71.3	68.8	75.9	57.5	66.7	100	20	54	54	54	81	58	62	.479	.475	.470	54.76	3.15	.1	5.6	5.7	5.7	5.7

MOORHEAD, MINN.

[ϕ=46°52′ N.; λ=96°44′ W.]

January	28.99	29.78	28.04	9.0	14.3	13.9	19.6	3.1	11.4	35	−21	8	10	11	94	82	88	0.065	0.072	0.075	0.32	0.23	5.4	7.1	7.8	6.4	7.5
February	28.94	29.63	28.15	9.7	17.1	17.3	22.9	3.4	13.2	56	−18	8	12	14	93	81	87	.075	.087	.093	.00	.28	10.5	6.1	6.5	6.2	7.0
March	29.00	29.52	28.34	13.6	21.5	21.7	26.3	9.3	17.8	53	−10	10	14	16	83	71	77	.073	.089	.096	.74	.20	11.4	6.5	8.5	6.9	7.6
April	28.99	29.42	28.54	37.2	48.4	48.1	53.2	33.9	43.0	75	14	32	32	34	81	56	61	.180	.189	.201	1.06	.39	1.9	7.0	6.8	6.8	7.1
May	28.94	29.29	28.40	49.8	64.4	64.0	69.3	44.7	57.0	93	31	41	43	42	73	50	50	.265	.287	.274	2.05	1.46	.0	5.9	7.1	6.6	6.7
June	28.85	29.18	28.41	63.3	75.5	76.2	80.1	57.7	68.9	90	50	57	56	58	82	53	55	.478	.467	.494	2.16	.63	.0	5.6	7.2	5.8	6.0
July	28.88	29.16	28.53	63.9	79.0	80.9	84.7	59.5	72.1	104	46	56	54	55	75	45	44	.454	.433	.453	1.36	.59	.0	3.4	4.3	4.9	4.3
August	28.90	29.31	28.35	61.9	77.5	77.9	82.5	58.9	70.7	96	45	54	52	52	76	44	43	.432	.410	.405	2.48	1.05	.0	3.8	4.9	4.6	4.5
September	29.01	29.44	28.36	48.8	65.8	64.6	70.9	46.6	58.8	87	36	41	43	42	75	47	46	.266	.291	.277	1.93	.99	.0	4.6	4.2	3.8	4.4
October	28.94	29.37	28.39	36.8	45.5	43.2	49.5	33.0	41.2	75	20	32	32	32	82	62	68	.185	.187	.189	1.37	.41	3.2	7.1	7.4	6.2	7.0
November	29.02	29.65	28.34	21.4	27.5	26.2	33.9	16.7	25.3	53	−10	18	21	22	86	75	83	.107	.121	.124	.84	.51	11.1	7.1	6.9	5.9	7.4
December	28.98	29.57	28.42	8.6	14.5	12.4	21.0	2.0	11.6	48	−17	7	10	10	92	80	89	.066	.075	.073	.14	.06	2.0	4.7	6.1	4.3	6.0
Year	28.95	29.78	28.04	35.3	45.9	45.5	51.2	30.7	41.0	104	−21	30	32	32	83	62	66	.220	.226	.230	15.05	1.46	45.5	5.7	6.5	5.7	6.3

NANTUCKET, MASS.

[ϕ=41°17′ N.; λ=70°06′ W.]

January	30.09	30.60	29.34	39.1	42.6	40.0	45.7	34.9	40.3	64	24	35	35	34	84	77	80	0.212	0.218	0.204	6.30	1.71	T	6.9	7.7	5.9	8.3
February	29.94	30.54	28.95	31.0	35.3	33.7	39.2	27.0	33.1	51	16	24	25	28	73	67	79	.136	.150	.163	1.60	.42	0.7	5.5	5.6	4.6	6.3
March	29.69	30.30	28.35	33.7	38.3	35.5	41.3	29.2	35.2	53	15	26	27	28	72	65	75	.149	.157	.163	4.52	1.26	4.5	5.7	5.9	3.5	5.7
April	29.88	30.32	29.09	44.0	47.7	43.2	50.8	38.5	44.6	68	31	35	34	36	72	60	78	.210	.198	.219	1.27	.33	.2	4.8	5.7	3.7	5.8
May	30.02	30.41	29.61	53.7	57.2	50.7	59.0	47.0	53.0	68	40	46	46	46	78	67	85	.326	.316	.320	2.66	1.19	.0	4.3	4.3	4.2	5.2
June	29.87	30.30	29.40	61.9	66.8	59.0	69.2	55.0	62.1	78	44	56	56	55	82	71	88	.455	.455	.442	3.56	1.81	.0	4.4	5.6	3.8	6.1
July	29.81	30.04	29.24	69.6	73.8	66.5	76.3	62.6	69.4	81	56	60	58	61	74	62	83	.533	.503	.543	.66	.41	.0	2.9	3.2	3.7	4.0
August	29.98	30.30	29.67	70.8	76.8	67.9	78.3	64.9	71.6	84	60	64	62	64	80	62	87	.600	.564	.599	1.54	.94	.0	2.9	3.3	2.7	3.7
September	30.02	30.43	29.25	63.2	68.2	61.8	69.8	58.5	64.2	80	47	56	55	56	79	65	82	.473	.456	.466	3.51	1.83	.0	4.8	5.0	4.2	5.1
October	30.02	30.44	29.50	56.5	60.8	55.5	62.6	51.7	57.2	73	42	49	48	49	78	64	80	.378	.356	.368	7.66	4.25	.0	4.5	4.4	3.1	5.2
November	30.14	30.73	29.54	45.8	49.5	46.0	52.5	40.2	46.4	63	22	40	40	39	81	70	78	.266	.267	.258	4.72	2.11	T	5.7	6.5	4.8	6.8
December	30.12	30.57	29.41	38.8	43.8	40.7	46.4	35.1	40.8	59	14	34	35	36	82	71	83	.207	.213	.221	3.06	.76	4.5	5.7	5.3	4.9	6.4
Year	29.96	30.73	28.35	50.7	55.1	50.0	57.6	45.4	51.5	84	14	44	43	44	78	67	82	.329	.321	.330	41.06	4.25	9.9	4.8	5.2	4.0	5.7

NASHVILLE, TENN.

[ϕ=36°10′ N.; λ=86°47′ W.]

January	29.58	30.13	28.97	43.3	50.1	48.5	54.6	38.2	46.4	71	26	39	40	40	85	70	72	0.262	0.278	0.262	7.74	2.56	T	5.7	6.4	5.4	6.3
February	29.50	30.05	29.05	45.6	54.3	54.9	60.6	42.0	51.3	76	27	40	40	41	80	60	61	.260	.264	.274	5.80	2.41	.0	5.3	5.5	4.8	5.3
March	29.42	29.85	28.65	48.9	47.6	48.2	53.7	35.1	44.4	80	12	32	34	35	77	60	62	.199	.220	.233	4.89	2.13	.3	5.3	6.2	5.2	5.9
April	29.42	29.78	29.00	53.7	64.2	63.8	69.0	50.4	59.7	81	37	44	45	46	72	53	55	.310	.324	.329	7.20	2.57	.0	6.4	5.9	5.4	6.1
May	29.49	29.70	29.24	61.9	73.1	71.8	77.4	57.6	67.5	84	47	51	51	52	68	48	52	.366	.393	.408	1.32	.77	.0	3.3	5.0	5.3	4.8
June	29.37	29.62	29.15	72.6	83.1	80.8	87.3	68.2	77.8	95	61	64	63	64	75	52	58	.604	.584	.608	2.91	1.07	.9	4.8	6.3	6.1	5.6
July	29.42	29.67	29.13	75.5	86.2	85.2	90.3	71.9	81.1	96	58	68	66	67	77	53	57	.683	.656	.679	3.40	2.15	.0	4.1	4.9	4.4	4.3
August	29.43	29.66	29.23	72.9	85.5	82.8	89.9	69.9	79.9	97	62	66	54	66	80	51	58	.651	.616	.641	1.70	.90	.0	4.5	5.1	4.5	4.6
September	29.50	29.67	29.16	65.0	77.7	74.4	80.9	63.0	72.0	91	47	59	57	58	80	51	60	.509	.475	.505	4.32	2.62	.0	5.3	5.9	4.9	5.4
October	29.46	29.74	28.91	51.8	64.6	61.4	69.0	48.2	58.6	80	36	48	49	48	88	60	65	.351	.364	.355	4.94	3.05	.0	4.6	4.8	4.7	5.1
November	29.62	30.00	29.11	39.7	50.8	49.2	55.8	37.4	46.6	72	26	34	36	38	81	59	67	.210	.229	.246	1.88	.61	T	5.2	4.9	4.8	5.2
December	29.61	29.96	29.00	37.6	43.6	43.0	48.6	33.2	40.9	70	12	34	34	35	89	72	77	.220	.213	.221	4.43	1.66	.8	6.9	6.8	5.9	7.2
Year	29.48	30.13	28.65	54.9	65.1	63.7	69.8	51.3	60.5	97	12	48	48	49	79	57	62	.387	.385	.397	50.53	3.05	1.1	5.1	5.6	5.1	5.5

Annual meteorological summaries for the year ending December 31, 1932—Continued

MONTGOMERY, ALA.

[H_b=223 ft.; h_t=100 ft.; h_r=71 ft.; h_a=109 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.7	S.	25	SW.	0	9	5	8	18	9	3	1	9	0	8	9	14	12	10	0	0	0	6	3	0	0	1	2	0
February	7.7	NE.	25	SW.	0	4	12	5	9	10	9	4	2	3	5	10	14	10	9	0	0	0	3	0	0	0	0	1	0
March	9.0	NW.	28	NW.	0	8	7	3	6	7	10	6	15	0	15	5	11	11	9	3	1	0	2	0	0	0	0	6	0
April	7.6	SW.	27	NW.	0	5	6	6	8	11	11	7	6	0	12	9	9	5	5	0	0	1	2	0	0	0	0	3	0
May	7.2	E.	27	NE.	0	7	14	11	12	2	4	4	6	2	14	7	10	9	8	0	0	0	2	0	0	0	0	3	0
June	6.6	SW.	32	NE.	1	2	8	5	5	11	12	14	3	0	7	20	3	16	11	0	0	1	2	0	0	17	0	20	0
July	6.4	NW.	30	N.	0	8	11	0	2	11	8	13	9	0	8	13	10	10	10	0	0	0	3	0	0	26	0	15	0
August	5.5	E.	27	NE.	0	9	9	9	14	9	4	5	2	1	8	10	13	13	12	0	0	0	8	0	0	16	0	12	0
September	7.4	E.	21	SW.	0	16	10	15	8	6	0	1	3	1	8	10	12	8	5	0	0	0	1	1	0	7	0	2	0
October	6.9	E.	25	NW.	0	7	10	10	12	4	4	3	11	1	15	3	13	8	7	0	0	0	1	0	0	0	0	1	0
November	7.7	NE.	24	N.	0	7	12	13	4	2	4	7	11	0	13	4	13	12	8	0	0	0	5	1	0	0	3	0	0
December	7.4	E.	25	N.	0	10	7	12	7	9	6	2	9	0	2	5	24	17	15	0	0	0	10	0	0	0	3	3	0
Year	7.3	NE.	32	NE.	1	92	111	97	105	91	75	67	86	8	115	105	146	131	109	3	1	2	45	5	0	66	16	68	0

MOORHEAD, MINN.

[H_b=940 ft.; h_t=50 ft.; h_r=43 ft.; h_a=58 ft.]

January	8.8	S.	21	S.	0	7	2	0	5	19	5	7	17	0	5	8	18	6	2	25	6	0	12	1	27	0	31	0	0
February	9.5	S.	27	NW.	0	10	1	2	4	16	3	11	11	0	3	10	16	7	3	16	7	0	10	3	21	0	26	0	2
March	10.7	NW.	28	NW.	0	16	2	2	4	11	1	6	20	0	3	9	19	10	6	24	9	1	3	0	19	0	31	1	0
April	10.0	SE.	21	N.	0	10	7	10	18	7	1	0	7	0	5	7	18	11	7	6	4	0	8	2	1	0	13	2	2
May	9.4	S.	24	S.	0	7	10	4	10	10	5	5	10	1	5	12	14	10	6	0	0	0	5	0	0	2	1	4	1
June	7.5	S.	31	NW.	0	3	2	4	8	21	2	6	7	7	6	13	11	6	6	0	0	0	4	0	0	1	0	4	0
July	7.8	S.	22	S.	0	11	4	2	8	18	1	4	11	3	14	13	4	9	7	0	0	0	0	0	0	11	0	4	1
August	7.8	S.	28	N.	0	3	4	6	12	13	6	7	9	2	13	12	6	9	5	0	0	0	2	1	0	4	0	5	0
September	7.9	S.	24	SE.	0	6	1	0	6	19	8	4	14	2	15	5	10	7	5	0	0	0	5	0	0	0	0	1	3
October	9.0	N.	24	N.	0	13	4	3	7	12	6	6	8	3	6	7	18	9	7	8	4	0	4	0	3	0	17	2	2
November	11.0	S.	27	S.	0	12	0	1	5	24	1	6	11	0	2	10	18	8	3	12	8	0	0	0	15	0	25	0	1
December	9.2	S.	25	NW.	0	10	2	0	4	20	9	8	8	1	9	9	13	6	1	19	6	0	1	1	25	0	31	0	0
Year	9.0	S.	31	NW.	0	108	39	34	91	190	48	70	133	19	86	115	165	98	58	110	44	1	54	8	111	18	175	23	12

NANTUCKET, MASS.

[H_b=12 ft.; h_t=14 ft.; h_r=4 ft.; h_a=90 ft.]

January	17.0	W.	57	NE.	9	6	5	4	8	7	11	11	10	0	5	2	24	16	16	5	2	0	11	6	0	0	9	0	0
February	15.1	NW.	56	NE.	4	5	5	2	3	7	6	9	21	0	10	5	14	11	9	8	5	0	7	7	6	0	19	0	0
March	18.3	W.	47	E.	11	10	1	1	3	10	6	20	11	0	10	7	14	11	9	8	5	0	4	1	3	0	22	0	0
April	15.8	SW.	49	SW.	6	0	6	6	3	8	12	10	9	0	9	8	13	10	7	2	2	0	5	4	0	0	2	0	0
May	15.7	SW.	41	NE.	2	7	8	5	3	7	23	7	2	0	13	9	9	8	6	0	0	0	10	8	0	0	0	1	0
June	12.9	SW.	33	N.	2	5	4	3	6	9	23	8	2	0	9	9	12	11	7	0	0	0	13	12	0	0	0	2	0
July	12.8	SW.	30	S.	0	4	1	1	5	19	16	15	1	0	18	8	5	5	4	0	0	0	8	9	0	0	0	2	0
August	11.3	S.	24	S.	0	6	4	1	7	22	10	8	4	0	18	7	6	7	4	0	0	0	11	9	0	0	0	1	0
September	15.0	N.	56	NE.	5	10	7	2	6	9	10	9	7	0	15	4	11	10	7	0	0	0	10	7	0	0	0	1	0
October	15.8	W.	44	E.	4	1	7	6	9	12	5	14	8	0	13	8	10	10	7	0	0	0	8	6	0	0	0	0	0
November	17.9	N.	51	E.	9	7	11	4	4	8	7	10	9	0	7	7	16	10	6	2	0	0	6	1	0	0	4	0	0
December	15.2	NW.	38	NE.	4	5	6	2	4	7	10	13	15	0	12	3	16	17	13	4	3	0	7	6	2	0	8	0	0
Year	15.2	SW.	57	NE.	56	72	65	37	61	125	139	134	99	0	139	77	150	126	95	29	17	0	100	76	11	0	64	7	0

NASHVILLE, TENN.

[H_b=546 ft.; h_t=168 ft.; h_r=161 ft.; h_a=191 ft.]

January	10.2	S.	34	SE.	1	2	2	9	7	17	5	9	10	1	9	6	16	11	9	1	0	0	6	2	0	0	11	1	0
February	10.1	S.	34	S.	2	7	9	5	4	9	6	11	7	0	10	8	11	11	9	7	2	0	1	1	0	0	4	3	0
March	11.2	NW.	38	NW.	4	1	5	2	6	9	5	9	24	1	9	11	11	10	9	7	2	0	0	0	2	0	12	3	0
April	9.6	NW.	38	S.	2	4	7	14	5	7	8	3	11	1	9	4	17	9	9	0	3	0	0	0	0	0	9	0	0
May	9.3	S.	38	NW.	1	6	9	8	7	12	4	3	12	1	10	15	6	8	5	0	0	0	0	0	0	0	0	6	0
June	7.5	W.	41	NE.	1	8	7	4	3	5	14	6	11	2	7	15	8	11	9	0	0	0	0	0	0	0	0	0	0
July	7.8	W.	29	N.	0	9	7	3	2	2	8	18	12	1	14	11	6	7	5	0	0	0	0	0	0	20	0	6	0
August	6.7	NW.	33	NW.	1	7	7	7	10	5	4	7	13	2	12	11	8	8	6	0	0	0	2	0	0	15	0	6	0
September	8.9	NW.	32	SE.	1	9	9	8	5	3	2	10	10	4	11	7	12	9	6	0	0	0	0	1	0	2	0	3	0
October	8.8	NW.	41	SE.	1	1	6	5	7	11	5	4	19	4	14	4	13	7	6	0	0	0	7	5	0	0	0	0	0
November	9.1	NE.	31	W.	0	12	9	4	7	8	3	5	11	1	11	5	14	10	6	3	1	0	4	0	0	0	10	0	0
December	9.9	S.	33	S.	4	8	8	4	6	12	3	6	13	2	8	3	20	14	13	5	1	0	9	4	4	0	14	0	0
Year	9.1	NW.	41	SE.	18	74	85	73	69	100	67	91	153	20	124	100	142	115	92	16	4	3	29	14	6	46	51	51	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

NEW HAVEN, CONN.

[ϕ=41°18′ N.; λ=72°56′ 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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.01	30.50	29.37	37.9	41.9	41.0	45.4	33.9	39.6	67	23	32	34	33	80	73	74	0.195	0.203	0.204	5.63	1.90	2.3	7.5	7.6	6.1	7.4
February	29.88	30.46	29.22	29.1	35.6	34.5	40.2	25.7	33.0	54	15	24	27	26	78	71	70	.133	.156	.151	2.51	.95	5.4	5.1	5.7	5.0	5.7
March	29.65	30.24	28.38	31.9	38.1	36.9	43.2	28.3	35.8	58	14	26	29	28	76	70	69	.145	.165	.160	6.28	3.18	1.9	5.1	5.8	3.9	5.5
April	29.81	30.29	29.10	43.6	51.0	48.2	55.3	38.4	46.8	75	29	34	36	34	69	58	60	.200	.219	.204	1.93	1.22	T	6.2	6.7	3.8	6.0
May	29.92	30.31	29.64	57.0	64.2	59.9	68.6	50.3	59.4	83	39	45	43	43	66	49	57	.315	.300	.298	2.64	.81	.0	4.5	5.6	4.7	4.9
June	29.79	30.19	29.34	64.6	71.2	68.4	75.7	58.4	67.0	87	43	55	56	56	74	61	67	.457	.465	.465	2.16	1.14	.0	6.2	6.2	5.3	5.8
July	29.73	29.97	29.23	70.6	77.7	74.3	81.5	63.5	72.5	90	58	59	59	60	69	55	62	.513	.512	.522	2.79	.88	.0	4.0	4.5	4.5	4.4
August	29.88	30.22	29.62	70.3	78.1	73.9	81.0	64.6	72.8	88	57	62	60	63	76	56	70	.564	.537	.580	3.88	1.49	.0	4.2	5.4	3.9	4.5
September	29.96	30.41	29.31	61.7	70.3	66.3	73.9	56.3	65.1	92	39	54	53	54	76	57	68	.440	.436	.451	3.55	2.28	.0	5.1	4.4	4.5	4.8
October	29.92	30.36	29.47	53.0	60.7	57.0	63.3	48.9	56.1	77	35	47	49	49	82	67	74	.351	.372	.365	5.51	3.23	.0	6.3	6.5	5.0	6.1
November	30.08	30.72	29.35	38.3	46.6	43.5	50.1	33.3	41.7	62	12	32	34	34	79	64	69	.201	.221	.215	6.45	2.78	.0	5.4	5.6	4.5	5.2
December	30.04	30.53	29.33	32.5	40.0	37.0	43.5	28.7	36.1	62	3	27	29	28	78	65	71	.159	.176	.170	2.25	.70	8.7	5.7	5.5	5.9	6.1
Year	29.89	30.72	28.38	49.2	56.3	53.4	60.1	44.2	52.2	92	3	41	42	42	75	62	68	.306	.314	.315	45.58	3.23	18.3	5.4	5.8	4.8	5.5

NEW ORLEANS, LA.

[ϕ=29°57′ N.; λ=90°04′ W.]

January	30.07	30.47	29.63	56.8	64.8	61.7	67.3	54.1	60.7	81	40	52	54	54	83	70	78	0.409	0.457	0.454	5.25	1.69	0.0	5.8	6.6	5.1	6.5
February	30.00	30.42	29.71	61.2	71.4	68.2	75.3	59.2	67.2	84	40	58	57	58	88	61	73	.498	.482	.507	2.54	1.50	.0	5.0	7.3	5.0	6.9
March	29.97	30.39	29.44	52.8	63.4	60.8	67.5	50.1	58.8	83	28	47	46	45	80	55	59	.358	.351	.344	2.54	.79	T	5.4	5.1	5.3	5.1
April	29.95	30.31	29.69	63.3	75.4	72.7	78.7	61.1	69.9	88	51	57	54	57	82	49	59	.488	.432	.477	5.88	4.62	.0	4.0	5.1	4.9	5.3
May	29.93	30.14	29.62	69.6	78.4	75.6	81.4	66.8	74.1	88	61	63	60	62	81	56	66	.585	.528	.569	15.06	6.78	.0	5.6	5.9	5.4	5.5
June	29.88	30.08	29.68	78.7	87.0	83.1	90.0	74.3	82.2	96	66	72	69	70	80	55	66	.789	.704	.734	3.73	1.49	.0	2.7	5.4	5.3	4.8
July	29.94	30.11	29.74	80.8	89.6	85.4	92.6	77.8	85.2	100	73	75	73	74	82	60	69	.858	.815	.829	6.57	1.27	.0	4.9	2.8	7.0	5.6
August	29.90	30.05	29.63	79.0	86.2	82.2	89.2	76.9	83.0	95	74	74	73	73	86	65	74	.847	.803	.804	8.21	2.15	.0	4.1	7.9	6.8	6.7
September	29.90	30.05	29.60	74.5	83.4	80.6	85.9	72.8	79.4	95	64	69	68	69	83	60	69	.709	.683	.712	6.14	2.88	.0	4.8	5.3	5.0	5.3
October	29.94	30.22	29.36	63.2	74.5	70.4	77.2	61.2	69.2	86	47	58	57	59	84	56	68	.504	.494	.518	8.43	4.10	.0	3.8	4.5	3.9	4.0
November	30.10	30.46	29.78	50.2	60.1	57.8	63.7	48.6	56.2	74	36	44	46	46	81	63	67	.308	.340	.330	3.02	1.78	.0	4.5	4.6	3.9	4.2
December	30.08	30.48	29.72	54.4	60.7	57.1	64.7	50.6	57.6	78	27	51	53	52	90	78	83	.406	.430	.409	4.15	1.74	.0	7.6	7.9	7.1	8.2
Year	29.97	30.48	29.36	65.4	74.6	71.3	77.8	62.8	70.3	100	27	60	59	60	83	61	69	.563	.543	.558	72.12	6.78	T	4.8	5.7	5.4	5.7

NEW YORK, N.Y.

[ϕ=40°43′ N.; λ=74°00′ W.]

January	29.78	30.27	29.17	41.4	44.0	43.9	48.8	36.9	42.8	68	21	34	34	33	73	69	68	0.204	0.211	0.211	4.23	1.21	1.0	7.2	7.2	6.3	7.7
February	29.65	30.24	29.05	33.0	38.1	37.2	43.3	28.8	36.0	58	17	23	26	26	67	61	64	.135	.150	.151	2.38	.81	2.2	6.4	5.6	5.1	6.4
March	29.44	30.00	28.17	33.6	39.1	37.5	44.7	29.3	37.0	61	13	22	22	24	62	52	58	.132	.134	.142	5.52	2.68	.7	5.4	5.8	4.8	5.8
April	29.59	30.10	28.97	45.6	52.2	49.1	57.0	39.9	48.4	75	31	32	33	33	60	50	57	.186	.195	.198	2.69	.99	T	5.1	5.5	4.1	5.8
May	29.70	30.08	29.41	57.7	64.8	62.5	69.2	52.6	60.9	85	42	46	46	47	67	52	59	.327	.325	.338	1.81	.52	.0	5.3	4.5	3.8	5.1
June	29.57	29.94	29.13	65.6	73.1	70.4	77.5	60.6	69.0	88	47	57	57	56	75	59	63	.479	.486	.469	3.57	1.26	.0	5.0	5.1	5.0	5.8
July	29.51	29.76	29.02	70.4	78.2	76.1	82.0	65.8	73.9	88	58	60	58	60	71	51	59	.526	.488	.526	.85	.27	.0	3.6	3.7	4.5	4.5
August	29.66	29.98	29.42	71.4	78.6	75.0	82.3	67.5	74.9	87	62	62	60	61	73	54	64	.563	.520	.549	2.72	1.04	.0	3.4	4.1	3.4	4.3
September	29.73	30.19	29.16	63.6	71.5	68.1	75.8	59.6	67.7	92	41	56	54	56	77	53	67	.471	.440	.470	1.56	.62	.0	3.8	4.3	3.9	4.7
October	29.69	30.09	29.22	54.7	61.1	58.0	64.6	50.6	57.6	76	39	47	46	47	76	61	69	.345	.342	.348	5.03	3.05	.0	6.2	6.4	5.6	6.3
November	29.84	30.45	29.06	41.2	46.3	44.7	51.1	36.3	43.7	61	12	33	33	33	72	61	64	.207	.212	.209	5.87	1.93	.0	4.6	5.1	3.3	5.1
December	29.82	30.28	29.14	36.9	41.0	39.7	45.9	32.2	39.0	62	12	27	28	30	66	60	69	.160	.164	.179	2.62	.73	9.4	6.1	5.6	6.5	6.3
Year	29.66	30.45	28.17	51.3	57.3	55.2	61.8	46.7	54.2	92	12	42	41	42	70	57	63	.311	.306	.316	38.85	3.05	13.3	5.2	5.2	4.7	5.6

NORFOLK, VA.

[ϕ=36°51′ N.; λ=76°17′ W.]

January	30.08	30.46	29.55	50.1	55.3	52.5	60.6	45.1	52.8	77	32	44	42	41	80	63	68	0.313	0.295	0.283	4.53	1.37	0.0	7.2	5.4	5.3	6.1
February	29.95	30.61	29.41	44.2	51.7	50.3	57.4	41.5	49.4	80	30	36	37	38	72	58	65	.220	.239	.250	2.15	.85	.0	6.4	5.8	4.7	6.1
March	29.80	30.27	28.26	41.8	49.0	46.4	55.3	37.4	46.4	80	18	35	32	33	76	53	60	.218	.203	.198	3.13	1.14	1.7	6.1	5.9	4.2	5.7
April	29.89	30.40	29.38	50.8	60.1	57.6	65.8	46.8	56.3	84	38	41	38	42	70	47	58	.269	.243	.277	1.63	.76	.0	5.4	4.4	4.0	4.8
May	29.96	30.28	29.60	62.4	68.9	64.9	73.9	56.4	65.2	88	49	54	53	54	76	59	70	.434	.410	.427	2.48	1.46	.0	5.4	5.4	5.3	5.3
June	29.85	30.17	29.48	71.8	79.5	75.0	83.9	67.0	75.4	91	58	65	62	65	79	57	72	.625	.573	.630	3.28	1.13	.0	6.0	5.8	5.7	5.6
July	29.83	30.08	29.37	75.8	82.9	79.6	88.0	70.4	79.2	96	62	67	63	66	74	53	64	.963	.894	.846	3.21	1.81	.0	5.6	4.9	5.2	5.1
August	29.92	30.19	29.71	75.5	82.6	77.3	86.6	71.1	78.8	100	67	67	64	67	76	54	72	.969	.897	.869	1.69	.86	.0	5.5	5.1	4.9	5.4
September	29.99	30.37	29.53	68.9	76.4	71.2	80.1	65.4	72.8	96	55	61	59	62	78	56	73	.565	.513	.571	1.51	1.16	.0	6.6	5.5	4.4	5.2
October	29.96	30.34	29.53	59.3	67.1	63.2	71.1	55.7	63.4	81	44	54	54	55	84	65	76	.443	.441	.450	3.96	1.84	.0	4.7	5.3	3.1	6.0
November	30.09	30.61	29.48	47.9	54.2	51.9	59.1	44.0	51.6	73	27	42	42	42	79	65	70	.291	.295	.297	2.34	1.17	T	5.8	5.2	5.4	5.3
December	30.11	30.54	29.54	43.4	51.4	47.8	55.6	39.3	47.4	73	22	37	40	38	80	68	73	.240	.266	.246	3.70	1.42	3.9	6.4	6.1	6.5	6.7
Year	29.95	30.61	28.26	57.7	64.9	61.5	69.8	53.3	61.6	100	18	50	49	50	77	58	68	.412	.389	.412	33.50	1.84	5.6	5.8	5.4	4.9	5.5

Annual meteorological summaries for the year ending December 31, 1932—Continued

NEW HAVEN, CONN.

[H_b=106 ft.; h_i=74 ft.; h_r=68 ft.; h_a=153 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	10.0	N.	33	W.	1	13	7	4	5	8	7	10	8	0	4	9	18	16	12	7	4	0	18	7	2	0	11	0	0
February	9.3	N.	31	N.	0	16	4	2	2	5	6	8	14	1	11	8	10	10	8	12	6	0	14	3	6	0	21	1	0
March	11.6	NW.	35	SW.	4	8	2	0	0	0	13	17	22	0	12	8	11	12	9	10	3	0	13	0	2	0	22	0	0
April	10.1	NW.	31	NW.	0	6	6	3	1	2	13	3	26	0	7	12	11	9	7	4	0	0	8	0	0	0	3	1	0
May	9.1	S.	21	NE.	0	8	7	8	1	16	10	1	11	0	8	17	6	9	7	0	0	1	9	1	0	0	0	5	0
June	8.1	S.	30	NW.	0	6	7	2	5	13	9	5	13	0	6	14	10	12	6	0	0	0	14	0	0	0	0	7	0
July	8.7	S.	24	N.	0	15	1	1	2	15	10	8	9	1	13	14	4	8	7	0	0	0	9	0	0	0	0	7	0
August	7.9	S.	22	S.	0	14	4	2	1	20	5	3	12	1	11	14	6	6	6	0	0	0	12	0	0	0	0	4	0
September	8.7	N.	30	NE.	0	22	4	2	7	9	5	3	7	11	13	9	8	8	6	0	0	0	11	1	0	1	0	3	0
October	10.0	S.	32	NE.	0	7	6	6	7	10	6	9	10	1	9	10	12	7	6	0	0	0	13	1	0	0	0	9	0
November	10.8	N.	34	S.	2	24	8	1	2	6	5	3	11	0	11	10	9	10	6	0	0	0	15	1	1	0	10	0	0
December	9.0	N.	27	NW.	0	15	9	0	3	7	14	4	9	1	10	6	15	15	10	6	5	0	18	4	6	0	18	0	0
Year	9.4	NW.	35	SW.	7	154	65	31	36	111	103	74	152	6	115	131	120	122	90	39	18	1	154	18	17	1	85	28	0

NEW ORLEANS, LA.

[H_b=53 ft.; h_i=76 ft.; h_r=71 ft.; h_a=84 ft.]

January	7.9	SE.	23	E.	0	7	16	7	19	2	5	3	3	0	8	5	18	16	12	0	0	0	10	6	0	0	0	3	0
February	7.4	SW.	22	NW.	0	5	10	6	3	9	16	6	3	0	2	15	12	9	7	0	0	0	15	9	0	0	0	1	0
March	8.5	SW.	24	SW.	0	9	9	6	8	7	12	5	5	1	9	12	10	9	8	1	0	0	4	2	0	0	2	2	0
April	7.0	SE.	18	E.	0	2	5	9	15	10	7	6	4	2	8	14	8	5	4	0	0	0	5	5	0	0	0	4	0
May	7.6	SE.	28	NE.	0	7	13	8	17	5	4	6	1	1	10	11	10	9	9	0	0	0	4	2	0	0	0	6	0
June	6.6	SW.	26	W.	0	1	7	5	6	12	17	6	6	0	8	20	2	11	9	0	0	0	1	0	0	19	0	11	0
July	6.1	SW.	25	NE.	0	1	6	2	4	14	11	20	4	0	5	18	8	12	11	0	0	0	0	0	0	25	0	15	0
August	6.0	E.	22	NE.	0	4	12	11	10	5	13	5	2	0	2	19	10	19	17	0	0	0	0	0	0	15	0	17	0
September	7.8	NE.	24	SE.	0	6	22	12	8	3	3	3	3	0	11	7	12	11	9	0	0	0	1	1	0	7	0	3	0
October	7.4	NE.	21	E.	0	5	19	12	7	1	5	9	4	0	17	6	8	10	9	0	0	0	2	1	0	0	0	5	0
November	7.8	NE.	20	E.	0	5	20	9	5	5	4	5	7	0	15	6	9	9	7	0	0	0	4	2	0	0	0	0	0
December	7.3	NE.	21	S.	0	5	20	11	11	5	6	1	3	0	3	3	25	16	13	0	0	0	12	9	0	0	2	1	0
Year	7.3	NE.	28	NE.	0	57	159	98	113	78	103	75	45	4	98	136	132	136	115	1	0	0	58	37	0	66	4	68	0

NEW YORK, N.Y.

[H_b=314 ft.; h_i=414 ft.; h_r=407 ft.; h_a=454 ft.]

January	16.8	NW.	60	NW.	16	11	5	8	4	5	6	7	16	0	6	4	21	16	12	6	3	0	16	5	0	0	7	0	0
February	16.3	NW.	51	NW.	12	7	2	5	3	8	1	12	20	0	6	12	11	13	9	10	7	0	12	4	1	0	17	1	0
March	20.8	NW.	62	NW.	19	13	4	1	3	4	7	4	23	0	11	8	12	10	8	7	4	0	8	1	3	0	18	1	0
April	17.0	NW.	56	NW.	11	9	7	6	3	7	2	10	16	0	9	13	8	6	5	3	0	0	6	0	0	0	2	3	0
May	13.1	SW.	49	NW.	2	9	8	8	2	12	9	6	8	0	9	14	8	9	9	0	0	2	7	0	0	0	0	5	0
June	12.1	SW.	40	NW.	4	9	6	3	4	8	7	13	10	0	8	11	11	7	5	0	0	0	16	0	0	0	0	6	0
July	13.9	NW.	50	NW.	5	9	0	2	4	8	7	9	23	0	10	17	4	7	5	0	0	0	6	0	0	0	0	7	0
August	12.1	S.	44	W.	3	13	2	4	5	21	5	0	12	0	12	14	5	6	6	0	0	0	9	0	0	0	0	4	0
September	13.3	N.	46	NW.	7	14	5	6	3	12	9	3	8	0	11	15	4	8	7	0	0	0	15	0	0	1	0	4	0
October	15.3	NW.	50	NW.	10	5	6	6	7	6	11	6	15	0	7	10	14	9	5	0	0	0	12	1	0	0	0	0	0
November	15.8	N.	56	NW.	7	18	8	7	3	1	11	0	12	0	11	8	11	10	8	0	0	0	14	2	1	0	9	0	0
December	14.5	NW.	44	NW.	5	9	8	4	3	2	12	12	12	0	10	5	16	15	11	5	5	0	14	5	3	0	14	0	0
Year	15.1	NW.	62	NW.	101	126	61	60	44	94	87	82	178	0	110	131	125	116	90	31	19	2	135	19	8	1	67	31	0

NORFOLK, VA.

[H_b=91 ft.; h_i=170 ft.; h_r=178 ft.; h_a=205 ft.]

January	13.5	S.	39	W.	3	3	11	6	5	16	6	10	5	0	9	7	15	10	8	0	0	0	2	0	0	0	1	0	0
February	12.1	NE.	42	NW.	1	8	11	5	4	8	10	7	5	0	9	7	13	10	7	0	0	0	3	0	0	0	1	2	0
March	15.8	S.	56	W.	7	7	9	7	3	13	3	12	8	0	8	10	13	10	8	5	3	1	0	0	0	0	10	3	0
April	12.8	S.	39	W.	2	8	7	5	11	11	6	6	5	0	14	7	9	5	5	0	0	0	1	0	0	0	0	4	0
May	11.6	S.	30	NE.	0	4	12	9	9	11	10	6	1	0	13	7	11	11	9	0	0	0	4	0	0	0	0	3	0
June	11.3	S.	32	W.	1	1	8	5	8	17	12	7	2	0	10	9	11	11	9	0	0	0	1	0	0	0	6	7	0
July	11.0	S.	48	NW.	3	7	5	5	7	13	8	9	8	0	7	17	7	7	7	0	0	1	0	0	0	11	0	8	0
August	9.9	S.	21	SW.	0	3	12	5	15	15	9	2	1	0	12	9	10	8	8	0	0	0	1	1	0	8	0	5	0
September	11.3	S.	35	N.	2	5	10	15	11	7	4	4	4	0	11	8	11	5	4	0	0	0	5	3	0	4	0	0	0
October	11.8	S.	30	NW.	0	12	9	5	10	11	6	2	6	1	12	8	11	8	5	0	0	0	10	3	0	0	0	1	0
November	12.7	N.	39	N.	3	18	10	5	6	10	2	2	6	1	14	3	13	8	7	1	0	0	3	1	0	0	3	0	0
December	11.0	NE.	37	SW.	2	14	13	2	3	12	8	6	3	1	8	5	18	13	9	3	2	0	10	3	0	0	4	0	0
Year	12.1	S.	56	W.	24	90	117	74	92	144	84	73	55	3	127	97	142	106	86	9	5	2	38	11	0	29	18	34	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

NORTH HEAD, WASH.

[ϕ=46°16′ N.; λ=124°04′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.86	30.40	29.14	40.4	41.7	40.8	44.3	37.3	40.8	52	23	37	38	37	88	87	88	0.223	0.232	0.227	8.37	1.82	3.0	8.5	7.9	8.5	8.5
February	29.84	30.17	29.22	39.5	42.4	42.5	44.6	37.2	40.9	54	22	36	38	38	88	84	84	.221	.230	.230	6.60	1.72	1.0	7.3	6.5	7.3	7.3
March	29.84	30.29	29.47	44.4	47.2	47.2	49.4	41.8	45.6	57	35	40	41	41	85	82	82	.246	.262	.263	8.81	1.65	.0	8.1	9.2	9.1	9.1
April	29.77	30.20	29.27	45.8	50.4	49.0	52.3	44.0	48.2	62	39	43	43	44	90	78	83	.277	.284	.286	5.22	1.27	.0	8.2	7.1	8.0	7.9
May	29.87	30.19	29.52	49.2	53.7	53.0	55.4	48.0	51.7	66	44	45	47	46	86	78	78	.299	.320	.313	1.66	.60	.0	7.0	5.8	6.0	6.6
June	29.84	30.05	29.68	52.4	55.7	55.1	57.8	50.2	54.0	76	46	48	50	50	89	83	84	.343	.369	.362	1.32	.55	.0	7.4	5.6	6.4	7.1
July	29.86	30.07	29.43	53.9	57.7	57.7	59.8	52.8	56.3	65	47	52	52	52	93	83	83	.383	.397	.393	1.40	.32	.0	7.9	7.1	6.0	7.4
August	29.81	30.00	29.57	55.8	59.4	59.3	61.6	53.8	57.7	76	47	54	56	55	94	88	88	.415	.444	.439	2.76	1.39	.0	7.9	5.9	5.7	7.2
September	29.91	30.24	29.61	53.2	58.2	56.8	60.8	50.8	55.8	83	46	50	52	51	91	81	84	.363	.386	.383	.99	.88	.0	3.3	3.0	3.7	4.7
October	29.88	30.37	29.40	51.0	54.7	54.0	57.1	48.9	53.0	85	43	49	49	49	93	85	87	.354	.355	.356	5.58	1.23	.0	6.8	5.8	6.5	8.0
November	29.80	30.22	29.22	49.1	51.7	50.5	53.6	45.7	49.6	60	39	46	46	47	89	84	88	.310	.320	.321	13.88	3.27	.0	8.2	7.3	8.0	7.8
December	29.88	30.26	28.02	39.6	42.1	41.3	44.1	36.4	40.2	52	19	35	34	33	83	76	75	.217	.218	.211	10.10	2.14	0	5.8	6.3	6.5	6.8
Year	29.85	30.40	28.92	47.9	51.2	50.6	53.4	45.6	49.5	85	19	45	46	45	89	82	84	.304	.318	.315	66.69	3.27	4.0	7.2	6.5	6.8	7.4

NORTH PLATTE, NEBR.

[ϕ=41°08′ N.; λ=100°45′ W.]

January	27.05	27.50	26.13	17.5	28.3	25.1	31.7	14.0	22.8	56	−8	15	18	18	88	66	74	0.088	0.102	0.101	0.41	0.30	4.7	5.7	5.6	4.6	5.8
February	27.02	27.34	26.34	23.1	39.2	38.0	44.7	20.9	32.8	70	−2	20	24	26	87	56	64	.114	.131	.145	.39	.27	3.7	5.1	5.8	5.3	5.8
March	27.04	27.53	26.45	20.0	38.4	36.4	43.5	18.3	30.9	70	−6	18	19	20	87	49	56	.108	.108	.113	.54	.18	4.0	4.7	5.5	5.5	5.5
April	26.98	27.45	26.45	43.1	59.9	59.2	64.6	40.7	52.6	89	26	36	34	35	75	44	48	.222	.208	.223	1.80	.79	.1	7.3	6.6	6.9	6.8
May	27.03	27.41	26.58	52.6	71.3	71.5	76.6	49.8	63.2	91	32	48	45	46	84	42	44	.336	.311	.319	1.11	.60	.0	4.8	5.4	5.4	5.3
June	27.00	27.21	26.89	60.8	78.1	78.1	82.4	58.1	70.2	94	51	58	57	58	90	49	50	.485	.466	.481	2.75	1.47	.0	5.5	5.5	5.5	5.4
July	27.03	27.28	26.64	67.6	86.0	85.5	90.8	65.8	78.3	101	54	63	59	61	84	43	46	.571	.507	.541	6.09	2.75	.0	5.0	2.3	4.4	4.0
August	27.03	27.31	26.61	64.9	84.5	82.7	88.5	64.1	76.3	98	52	60	60	58	86	47	45	.531	.538	.497	2.10	.92	.0	4.0	3.3	4.5	3.8
September	27.15	27.49	26.64	51.7	73.6	71.5	77.6	49.9	63.8	95	35	46	44	46	81	37	43	.314	.298	.319	.71	.69	.0	3.8	3.4	3.7	3.6
October	27.07	27.51	26.70	37.4	57.5	51.6	62.1	34.7	48.4	88	20	31	31	31	78	42	49	.178	.180	.180	1.03	.86	.4	4.2	3.3	3.6	3.9
November	27.15	27.59	26.75	28.9	48.6	42.1	53.4	26.2	39.8	71	14	21	22	20	70	36	42	.110	.123	.110	T	T	T	5.1	5.0	4.1	5.6
December	27.08	27.53	26.55	13.2	28.5	24.2	32.3	9.9	21.1	60	−24	9	16	15	83	59	67	.068	.094	.088	.27	.18	3.8	3.9	5.0	3.0	5.4
Year	27.05	27.59	26.13	40.1	57.8	55.5	62.4	37.7	50.0	101	−24	35	36	36	83	48	52	.260	.256	.260	17.80	2.75	16.7	4.9	4.7	4.7	5.1

OKLAHOMA CITY, OKLA.

[ϕ=35°26′ N.; λ=97°33′ W.]

January	28.76	29.33	28.05	34.4	41.6	41.2	48.4	31.2	39.8	69	17	29	30	32	82	65	72	0.168	0.168	0.188	4.92	1.87	T	4.5	5.6	5.4	5.5
February	28.71	29.17	28.17	42.7	52.9	53.4	59.8	39.3	49.6	84	18	36	40	39	77	66	62	.220	.266	.251	1.33	.46	0	5.2	7.1	6.9	6.7
March	28.70	29.32	27.92	36.2	51.5	50.3	58.1	32.9	45.5	84	11	27	29	27	70	43	44	.160	.179	.163	.39	.30	T	5.3	4.7	3.5	5.3
April	28.63	29.00	28.23	54.1	69.6	69.0	74.4	52.6	63.5	87	37	44	45	44	71	45	45	.308	.322	.312	.93	.50	0	4.9	5.5	5.7	6.3
May	28.71	29.02	28.39	61.2	76.3	74.8	80.1	58.6	69.4	89	47	54	56	56	79	52	55	.433	.460	.466	5.50	2.18	.0	4.9	4.9	5.8	5.4
June	28.61	28.85	28.39	70.2	82.2	80.3	86.7	66.9	76.8	95	59	66	66	66	86	61	65	.640	.657	.653	14.12	6.93	.0	4.9	5.5	5.7	6.2
July	28.68	28.92	28.26	75.4	90.1	88.2	93.6	73.4	83.5	102	66	68	68	68	81	50	53	.707	.688	.683	2.40	2.09	.0	3.8	3.7	2.6	2.6
August	28.66	28.88	28.43	73.2	87.9	85.6	91.3	71.5	81.4	101	56	66	66	65	80	50	52	.653	.652	.619	2.74	1.79	.9	3.8	4.4	3.5	2.5
September	28.76	29.01	28.43	64.9	80.5	77.3	83.9	63.0	73.4	95	48	59	60	59	82	52	56	.512	.523	.511	1.20	.62	.0	5.5	5.4	4.1	3.6
October	28.73	29.17	28.34	49.9	67.7	64.1	72.9	47.9	60.4	91	35	42	42	42	74	42	47	.277	.287	.287	1.89	1.57	.0	3.9	3.5	2.7	2.7
November	28.87	29.30	28.39	36.6	52.7	50.1	57.3	34.2	45.8	73	14	28	29	28	69	42	43	.157	.168	.167	.10	.07	T	3.6	5.7	3.2	1.8
December	28.81	29.36	28.22	30.5	40.1	37.7	44.8	27.3	36.0	73	6	26	28	27	85	63	68	.156	.165	.163	4.86	3.10	5.4	5.5	6.3	5.5	5.6
Year	28.72	29.36	27.92	52.4	66.1	64.3	70.9	49.9	60.4	102	6	45	47	46	78	53	55	.366	.378	.372	40.38	6.93	5.4	4.6	5.2	4.6	4.5

OMAHA, NEBR.

[ϕ=41°16′ N.; λ=95°56′ W.]

January	28.88	29.50	28.12	18.5	22.9	23.5	28.3	14.2	21.2	43	−9	16	18	19	88	80	84	0.093	0.105	0.111	2.80	1.06	25.4	6.9	6.7	6.1	6.8
February	28.83	29.34	27.98	26.6	34.1	33.5	38.4	23.2	30.8	64	0	22	24	26	82	66	74	.126	.137	.149	.97	.48	4.7	4.7	6.0	6.1	5.9
March	28.83	29.36	28.20	25.7	34.6	35.3	39.7	23.0	31.4	75	1	20	19	22	78	54	58	.116	.120	.126	.85	.33	5.6	4.5	6.1	6.3	6.0
April	28.76	29.26	28.26	47.4	58.5	59.4	63.6	44.6	54.1	81	32	38	38	39	71	50	51	.244	.247	.257	1.79	.52	.0	6.2	6.3	6.8	6.5
May	28.80	29.20	28.42	57.7	70.8	71.1	75.4	54.2	64.8	92	40	47	46	47	69	45	47	.333	.330	.339	4.29	1.30	.0	5.3	5.3	4.8	5.1
June	28.72	28.91	28.45	68.0	79.6	78.8	83.4	65.0	74.2	96	58	61	61	61	78	55	57	.535	.540	.543	4.79	1.67	.0	5.7	6.1	4.8	5.7
July	28.76	29.04	28.32	72.3	84.7	85.3	88.6	69.9	79.2	101	59	62	61	63	71	46	49	.567	.646	.585	2.84	1.53	.0	4.5	3.6	3.1	3.9
August	28.77	29.07	28.44	67.9	79.1	79.8	84.0	66.0	75.0	94	52	61	62	64	79	59	59	.542	.572	.604	12.26	6.64	.0	4.6	4.7	3.8	4.5
September	28.91	29.30	28.41	57.1	72.4	69.7	76.3	54.5	65.4	94	42	49	47	49	78	43	50	.362	.338	.360	1.98	1.72	.0	3.6	3.5	3.3	3.1
October	28.81	29.16	28.40	44.1	56.8	55.8	63.2	42.0	52.6	88	29	36	36	37	74	49	52	.227	.231	.232	1.36	.93	T	5.3	4.5	3.5	4.7
November	28.95	29.50	28.43	30.0	41.2	40.2	45.9	27.3	36.6	64	8	23	23	23	73	48	50	.128	.127	.123	.56	.51	3.6	3.6	5.1	4.3	5.4
December	28.90	29.47	28.25	19.9	27.7	27.1	31.4	16.3	23.8	58	−12	15	17	17	79	63	68	.096	.104	.106	.71	.39	9.0	3.1	5.1	3.6	5.4
Year	28.83	29.50	27.98	44.6	55.2	55.0	59.8	41.7	50.8	101	−12	38	38	39	76	55	58	.281	.284	.295	35.20	6.64	48.3	4.8	5.2	4.7	5.2

Annual meteorological summaries for the year ending December 31, 1932—Continued

NORTH HEAD, WASH.

[H_b=211 ft; h_t=11 ft; h_r=3 ft; h_a=56 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	15.7	SE.	56	S.	14	12	4	6	15	10	3	0	12	0	2	6	23	24	22	8	6	0	3	3	0	0	4	0	0
February	16.9	S.	54	S.	15	11	5	2	10	15	6	7	2	0	6	3	20	20	20	3	2	0	5	4	0	0	4	0	0
March	18.5	S.	49	S.	20	1	0	14	4	18	8	10	7	0	0	4	27	24	21	0	0	0	11	7	0	0	0	0	0
April	15.8	S.	55	S.	11	13	0	1	8	18	9	6	5	0	1	11	18	19	17	0	0	0	3	1	0	0	0	0	0
May	15.7	N.	49	S.	9	31	3	0	5	11	2	2	7	1	5	14	12	11	5	0	0	0	1	0	0	0	0	1	0
June	15.1	N.	34	NW.	5	39	0	1	1	11	0	3	5	0	6	4	20	10	8	0	0	0	10	6	0	0	0	0	0
July	14.7	N.	46	S.	5	27	0	0	1	14	5	6	9	0	4	10	17	16	11	0	0	0	11	4	0	0	0	0	0
August	12.5	N.	42	S.	4	31	0	0	2	11	3	7	7	1	5	8	18	17	8	0	0	0	16	10	0	0	0	1	0
September	11.6	N.	33	S.	2	41	4	2	4	2	2	1	3	1	12	9	9	5	3	0	0	0	15	16	0	0	0	0	0
October	12.7	S.	45	NW.	9	13	1	4	13	20	5	2	4	0	2	8	21	18	16	0	0	0	12	12	0	0	0	0	0
November	16.9	S.	63	S.	15	7	0	3	15	21	6	2	5	1	2	10	18	24	24	0	0	0	9	4	0	0	0	3	0
December	17.3	E.	79	S.	14	7	2	16	7	9	6	8	7	0	8	4	19	22	19	0	0	0	4	2	3	0	7	2	0
Year	15.3	N.	79	S.	123	233	19	49	85	160	55	54	73	4	53	91	222	210	174	11	8	0	100	69	3	0	15	7	0

NORTH PLATTE, NEBR.

[H_b=2,821 ft.; h_t=11 ft; h_r=3 ft.; h_a=51 ft.]

January	7.3	W.	27	N.	0	10	3	3	4	4	11	15	11	1	9	9	13	7	3	14	7	0	10	2	17	0	31	0	0
February	7.6	W.	29	NW.	0	6	7	2	8	6	5	20	4	0	8	11	10	3	3	6	3	0	9	3	7	0	22	1	0
March	8.7	NW.	32	N.	1	19	3	1	6	2	2	13	12	4	6	17	8	11	5	10	7	0	3	0	10	0	27	0	0
April	10.6	SE.	30	NW.	0	11	4	7	15	5	3	6	8	1	6	7	17	8	7	3	3	2	11	1	0	0	2	3	0
May	8.9	SE.	28	W.	0	10	2	5	14	12	3	8	5	3	9	14	8	8	6	0	0	3	1	0	0	5	0	7	0
June	7.3	S.	29	NW.	0	7	2	8	9	15	2	6	9	2	7	17	6	12	8	0	0	0	2	0	0	2	0	14	0
July	7.1	SE.	30	NE.	0	6	7	14	18	12	0	2	2	1	13	15	3	11	11	0	0	2	2	0	0	21	0	15	0
August	7.0	SE.	28	W.	0	4	7	10	16	10	6	3	5	1	14	13	4	8	4	0	0	1	4	0	0	16	0	7	0
September	6.4	S.	20	NE.	0	8	9	5	12	8	8	6	2	2	17	8	5	3	2	0	0	0	3	1	0	3	0	3	0
October	8.0	W.	32	N.	1	12	5	4	4	6	5	17	8	1	19	4	8	6	4	2	2	0	4	0	0	0	14	3	0
November	8.4	W.	28	NW.	0	6	4	2	9	9	9	13	8	0	9	10	11	0	0	3	0	0	0	0	1	0	26	0	0
December	6.3	W.	18	NW.	0	3	8	0	4	5	11	24	7	0	11	8	12	5	2	11	5	0	7	0	12	0	30	0	0
Year	7.8	W.	32	N.	2	102	61	61	119	94	65	133	81	16	128	133	105	82	55	49	27	8	56	7	47	47	152	53	0

OKLAHOMA CITY, OKLA.

[H_b=1,214 ft.; h_t=10 ft.; h_r=3 ft.; h_a=47 ft.]

January	10.4	S.	24	W.	0	12	1	7	5	17	6	1	11	2	12	6	13	11	7	0	0	0	11	4	0	0	18	1	0
February	9.9	S.	28	W.	0	13	3	3	7	20	4	1	4	3	8	3	16	7	6	0	0	0	8	6	0	0	5	2	0
March	11.7	N.	30	NW.	0	28	3	1	2	16	5	1	4	2	13	4	14	3	2	4	0	1	2	1	5	0	13	0	0
April	11.5	S.	30	SW.	0	9	4	5	10	21	2	3	6	0	6	11	13	8	3	0	0	0	3	0	0	0	5	0	0
May	9.4	S.	24	S.	0	7	10	6	17	18	2	0	0	2	11	8	12	8	7	0	0	2	1	1	0	0	0	6	0
June	8.9	S.	30	W.	0	4	6	7	13	21	1	5	3	0	6	11	13	16	14	0	0	0	1	0	0	8	0	18	0
July	9.1	S.	26	NE.	0	0	1	5	14	41	0	0	0	1	22	4	5	3	3	0	0	0	0	0	0	25	0	3	0
August	9.0	S.	27	SW.	0	5	9	4	14	30	0	0	0	0	23	6	2	6	5	0	0	0	0	0	0	21	0	7	0
September	7.2	S.	24	SW.	0	13	8	8	6	18	4	1	1	1	16	7	7	6	5	0	0	0	1	0	0	9	0	4	0
October	10.1	S.	32	NW.	1	16	3	1	7	29	2	1	3	0	21	6	4	4	3	0	0	0	0	0	0	1	0	4	0
November	10.2	S.	29	N.	0	13	3	5	5	23	2	1	8	0	24	3	3	2	1	2	0	0	2	1	0	0	11	0	0
December	9.9	N.	26	NW.	0	18	4	1	2	17	5	3	12	0	12	4	15	10	8	6	4	0	1	3	8	0	20	3	0
Year	9.8	S.	32	NW.	1	138	55	53	102	271	33	17	52	11	174	73	119	84	64	12	4	3	30	16	13	64	67	53	0

OMAHA, NEBR.

[H_b=1,105 ft.; h_t=115 ft.; h_r=107 ft.; h_a=122 ft.]

January	8.5	NW.	25	NW.	0	14	3	3	5	8	8	3	18	0	8	4	19	9	5	17	9	0	6	3	19	0	31	0	0
February	8.4	NW.	28	NW.	0	7	3	4	9	9	7	5	14	0	9	8	12	6	3	7	4	0	4	1	11	0	23	0	0
March	11.1	NW.	30	NW.	0	11	4	5	2	7	5	2	25	1	7	14	10	7	3	13	3	0	3	0	10	0	21	0	0
April	9.6	E.	28	N.	0	14	2	15	11	4	0	4	9	1	8	7	15	8	5	0	0	2	0	0	0	0	1	4	0
May	8.1	S.	30	N.	0	7	3	7	10	16	5	4	9	1	12	9	10	10	8	0	0	0	1	0	0	2	0	8	0
June	6.5	S.	26	W.	0	8	5	10	9	6	9	2	8	3	8	10	12	14	9	0	0	0	1	3	0	6	0	12	0
July	7.5	S.	25	NW.	0	8	3	13	11	15	5	1	5	1	16	9	6	7	7	0	0	1	2	0	0	15	0	8	0
August	7.2	S.	28	N.	0	9	2	10	12	16	4	1	6	2	15	9	7	13	11	0	0	2	5	0	0	8	0	11	0
September	6.8	S.	21	N.	0	6	1	6	9	18	1	2	16	1	20	5	5	6	3	0	0	0	1	0	0	1	0	5	0
October	8.8	NW.	32	NW.	1	9	1	3	11	9	5	7	16	1	14	8	9	6	4	2	0	0	5	0	0	0	2	1	2
November	9.7	S.	30	NW.	0	6	0	1	13	16	2	1	19	2	11	10	9	5	2	6	3	0	2	0	5	0	21	0	0
December	8.2	NW.	30	N.	0	6	6	4	5	12	12	2	13	2	12	5	14	5	3	6	3	0	5	3	15	0	28	0	0
Year	8.4	NW.	32	NW.	1	105	33	81	107	136	63	34	158	15	140	98	128	96	63	51	22	7	42	7	60	32	127	49	2

Annual meteorological summaries for the year ending December 31, 1932—Continued

OSWEGO, N.Y.

[ϕ=43°29′ N.; λ=76°35′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.70	30.25	29.03	34.6	36.5	35.9	41.6	29.8	35.7	63	12	28	30	29	78	76	74	0.164	0.171	0.163	4.50	0.88	15.0	9.1	9.6	7.9	9.3
February	29.60	30.26	29.00	26.1	29.1	28.5	35.6	21.9	28.8	57	5	21	21	21	80	69	70	.119	.118	.121	2.12	.70	16.6	8.7	8.4	8.2	8.2
March	29.44	29.90	28.65	27.3	30.1	29.9	34.4	23.5	29.0	55	9	21	22	22	75	70	70	.115	.117	.118	4.96	1.26	42.5	8.6	8.2	7.8	8.2
April	29.58	30.20	28.97	38.5	41.3	41.2	45.9	34.2	40.0	71	24	28	28	32	67	61	72	.159	.159	.188	2.46	.03	0.1	7.2	7.2	6.6	7.1
May	29.67	30.09	29.34	54.2	58.4	55.5	63.1	47.6	55.0	87	37	42	41	42	63	56	65	.287	.276	.290	1.68	.48	.0	6.9	6.3	6.4	6.5
June	29.53	29.85	29.17	62.9	67.3	65.1	72.0	56.2	64.1	87	47	54	54	55	73	65	70	.430	.442	.446	1.77	.76	.0	5.8	5.9	7.3	6.5
July	29.48	29.78	28.93	65.6	70.2	67.3	74.7	60.6	67.6	87	54	57	56	58	74	63	72	.468	.458	.483	2.14	.05	.0	5.6	5.3	6.5	5.6
August	29.60	29.97	29.27	68.0	73.7	71.2	78.1	61.7	69.9	91	53	60	60	61	75	63	70	.514	.520	.536	3.10	1.26	.0	4.3	4.9	5.7	5.0
September	29.69	30.10	29.34	60.6	66.7	64.1	70.3	55.4	62.8	87	37	51	52	52	72	61	66	.397	.413	.406	2.47	1.22	.0	5.6	5.0	4.2	5.5
October	29.61	30.07	29.14	50.8	57.2	54.0	61.2	47.1	54.2	80	35	43	45	44	76	65	70	.294	.314	.300	4.34	2.69	.0	8.4	7.9	7.1	8.1
November	29.82	30.52	29.20	34.5	39.6	37.8	44.0	30.4	37.2	59	10	28	28	28	78	64	68	.163	.164	.163	2.98	1.05	.6	7.6	7.2	5.4	7.4
December	29.74	30.28	29.03	29.9	34.9	32.0	39.9	25.2	32.6	65	−1	24	25	25	78	68	76	.138	.144	.144	2.60	1.20	11.4	9.1	8.5	6.7	8.4
Year	29.62	30.52	28.65	46.1	50.4	48.6	55.1	41.1	48.1	91	−1	38	38	39	74	65	70	.271	.275	.280	35.12	2.69	92.2	7.2	7.0	6.6	7.2

PALESTINE, TEX.

[ϕ=31°45′ N.; λ=95°40′ W.]

January	29.57	30.05	29.10	45.2	54.3	54.4	60.8	42.4	51.6	75	27	42	44	44	89	69	69	0.291	0.310	0.312	10.90	5.07	0.0	5.6	5.5	4.6	5.5
February	29.50	29.95	29.15	53.3	62.6	62.4	68.2	50.4	59.3	84	29	49	49	49	84	66	67	.364	.372	.372	6.77	3.56	.0	6.6	6.4	5.6	6.2
March	29.49	30.04	28.90	46.4	58.3	58.9	63.9	42.9	53.4	84	21	41	41	40	81	56	52	.291	.295	.277	3.50	1.23	1.2	4.7	4.8	3.6	4.5
April	29.43	29.83	29.09	59.3	72.0	73.2	77.2	57.1	67.2	85	43	54	51	51	82	52	48	.432	.398	.393	1.83	1.20	.0	5.8	4.4	3.1	4.5
May	29.47	29.67	29.25	66.4	78.3	77.6	82.3	63.9	73.1	90	58	60	59	60	81	54	57	.529	.517	.532	2.61	1.26	.0	4.0	5.0	3.6	4.3
June	29.38	29.55	29.19	74.2	86.3	85.1	90.6	71.6	81.1	96	64	69	67	68	85	54	58	.714	.666	.679	1.44	.74	.0	5.8	4.8	3.1	4.7
July	29.45	29.69	29.11	77.3	89.7	90.1	94.3	75.3	84.8	102	72	71	69	69	82	51	52	.770	.702	.718	1.06	.58	.0	3.3	3.3	3.4	3.4
August	29.42	29.60	29.27	75.2	88.7	88.1	93.3	73.5	83.4	100	66	71	68	68	88	53	53	.770	.701	.687	1.13	.66	.0	4.1	5.0	4.2	4.7
September	29.48	29.68	29.25	69.3	81.3	78.6	84.8	67.9	76.4	97	57	64	64	65	85	59	66	.618	.617	.630	7.49	6.44	.0	5.7	5.8	5.2	5.8
October	29.50	29.84	29.20	57.4	72.2	68.6	77.2	54.0	65.6	87	40	51	50	50	80	48	54	.400	.380	.379	1.58	1.12	.0	3.3	2.9	2.6	3.0
November	29.65	30.05	29.18	45.7	59.4	56.5	64.5	41.9	53.2	80	23	39	38	36	74	48	50	.250	.256	.237	1.65	1.35	.0	2.8	3.5	1.8	3.2
December	29.60	30.14	29.06	41.3	48.9	47.4	52.5	37.7	45.1	74	12	38	39	39	87	72	76	.250	.267	.267	6.73	2.28	3.2	6.2	7.3	6.2	6.8
Year	29.50	30.14	28.90	59.2	71.0	70.1	75.8	56.6	66.2	102	12	54	53	53	83	57	58	.473	.457	.457	46.69	6.44	4.4	4.8	4.9	3.9	4.7

PARKERSBURG, W.VA.

[ϕ=39′16° N.; λ=81°36′ W.]

January	29.50	30.03	28.88	40.1	46.8	45.1	51.6	36.2	43.9	73	20	35	33	35	81	61	70	0.215	0.209	0.221	4.20	1.27	T	7.1	6.8	6.5	6.2
February	29.40	30.07	28.88	37.8	46.4	44.4	51.9	33.3	42.6	77	19	30	29	29	73	51	55	.173	.175	.171	1.58	.78	T	6.9	5.6	5.2	5.7
March	29.28	29.76	28.50	32.2	38.9	39.9	46.5	28.6	37.6	75	9	25	25	26	76	61	60	.142	.141	.155	3.72	1.10	3.0	6.9	7.5	5.9	6.4
April	29.34	29.80	28.92	45.2	57.7	56.2	63.6	40.3	52.0	80	28	36	34	37	71	44	52	.224	.214	.233	1.69	.51	T	5.4	6.1	4.4	5.3
May	29.42	29.80	29.12	57.4	70.9	69.0	76.3	51.6	64.0	88	36	47	45	47	69	42	47	.332	.313	.339	1.22	.63	.0	4.3	5.3	4.2	5.2
June	29.30	29.55	29.03	67.2	79.6	75.7	83.9	62.3	73.1	91	48	58	58	60	73	49	61	.498	.503	.535	4.05	1.28	.0	5.0	5.6	5.0	5.5
July	29.32	29.60	28.84	69.4	81.6	77.5	85.9	63.9	74.9	97	55	62	62	64	78	54	64	.572	.576	.603	6.42	1.53	.0	4.2	4.7	4.5	5.1
August	29.38	29.65	29.15	66.6	82.0	78.2	85.7	62.5	74.1	97	52	59	60	62	76	49	59	.503	.533	.569	2.49	1.54	.0	2.4	4.0	3.0	4.1
September	29.46	29.73	29.12	60.4	76.4	71.0	80.4	57.8	69.1	98	38	53	51	53	77	43	56	.427	.395	.434	.94	.45	.0	3.5	4.6	2.9	4.8
October	29.39	29.71	28.98	48.7	63.6	57.3	67.6	46.2	56.9	82	34	42	44	46	78	52	67	.282	.310	.322	2.46	.79	.0	5.5	6.4	4.8	6.6
November	29.56	30.16	29.00	35.6	45.5	42.8	51.5	32.3	41.9	75	15	30	31	31	80	61	64	.177	.188	.190	2.71	1.09	T	6.5	5.9	4.6	6.5
December	29.54	30.05	28.82	31.8	39.2	37.4	45.2	26.9	36.0	69	−3	25	28	28	78	67	72	.151	.165	.168	2.51	.73	6.3	6.9	6.6	4.7	7.9
Year	29.41	30.16	28.50	49.4	60.7	57.9	65.8	45.2	55.5	98	−3	42	42	43	76	53	61	.308	.310	.328	33.99	1.54	9.3	5.4	5.8	4.6	5.8

PENSACOLA, FLA.

[ϕ=30°25′ N.; λ=87°13′ W.]

January	30.10	30.50	29.69	55.6	62.2	60.9	65.5	52.4	59.0	73	35	52	52	52	87	72	76	0.420	0.434	0.434	11.90	8.00	.0	6.5	6.0	5.2	6.1
February	30.01	30.43	29.76	61.3	67.5	65.5	69.9	58.5	64.2	77	37	56	57	59	85	72	81	.488	.499	.521	1.18	.64	.0	5.1	5.9	4.9	6.0
March	29.96	30.32	29.29	51.3	58.9	58.8	63.1	48.2	55.6	75	23	47	48	50	85	69	75	.356	.376	.398	2.02	1.01	.0	4.7	4.4	4.0	4.6
April	29.95	30.31	29.64	63.1	67.9	68.9	73.4	61.1	67.2	84	48	56	56	59	80	64	73	.484	.479	.519	2.52	2.19	.0	3.6	4.3	3.5	4.0
May	29.94	30.15	29.58	69.6	75.2	73.6	77.9	66.9	72.4	85	59	63	63	65	81	68	77	.589	.593	.635	8.50	3.66	.0	4.5	4.6	4.5	4.5
June	29.89	30.08	29.67	77.9	81.9	81.0	85.0	73.6	79.3	89	64	72	71	73	81	70	78	.777	.764	.820	4.93	1.65	.0	1.6	3.6	3.9	3.2
July	29.94	30.15	29.75	81.2	86.4	83.6	89.4	77.6	83.5	99	72	74	73	75	79	67	76	.837	.823	.869	2.00	.61	.0	2.8	4.5	5.6	4.3
August	29.90	30.07	29.33	78.4	82.8	81.0	85.4	75.4	80.4	92	68	75	75	75	89	77	82	.860	.858	.864	8.76	1.90	.0	4.5	5.5	6.2	5.8
September	29.91	30.09	29.37	74.2	80.9	78.7	83.1	71.9	77.5	92	60	70	73	72	89	77	82	.757	.816	.806	5.22	2.75	.0	4.6	6.1	5.5	5.8
October	29.94	30.26	29.36	62.6	71.7	69.3	75.1	59.1	67.1	83	43	58	62	62	87	73	77	.514	.576	.564	5.89	3.29	.0	4.4	4.7	3.5	4.2
November	30.08	30.46	29.72	50.0	57.6	56.8	62.2	47.0	54.6	76	34	46	50	50	86	77	79	.336	.379	.380	1.57	.93	.0	5.0	4.6	3.7	4.6
December	30.09	30.39	29.81	55.3	59.5	59.1	63.5	51.7	57.6	72	28	53	54	55	92	84	88	.437	.453	.464	3.37	1.09	.0	7.0	7.8	6.6	7.3
Year	29.98	30.50	29.29	65.0	71.0	69.8	74.5	62.0	68.2	99	23	60	61	62	85	72	79	.571	.588	.606	57.86	8.00	.0	4.5	5.2	4.8	5.1

Annual meteorological summaries for the year ending December 31, 1932—Continued

OSWEGO, N.Y.

[H_b=335 ft.; h_t=71 ft.; h_r=69 ft.; h_a=85 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Snow: Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	12.8	S.	34	W.	1	9	4	4	13	12	9	5	6	0	0	2	29	19	16	11	8	0	4	1	4	0	24	0	0
February	12.6	S.	31	N.	0	8	4	2	11	11	4	6	12	0	2	6	21	14	9	17	11	0	0	0	8	0	25	1	0
March	14.1	NW.	38	N.	4	11	4	0	8	6	2	12	19	0	2	4	25	19	13	22	17	0	0	0	12	0	29	0	0
April	11.0	W.	25	NW.	0	7	5	3	6	5	8	18	8	0	6	6	18	13	10	7	4	0	3	0	3	0	15	1	1
May	8.7	W.	22	N.	0	7	2	2	11	13	6	21	0	0	7	9	15	11	9	0	0	0	1	0	0	0	0	1	2
June	8.2	W.	30	NW.	0	4	1	4	9	13	6	18	5	0	3	16	11	11	6	0	0	0	5	4	0	0	0	3	0
July	8.8	W.	22	SW.	0	5	2	1	5	8	8	24	8	1	10	8	13	10	8	0	0	0	2	0	0	0	0	4	0
August	7.9	S.	18	W.	0	2	1	2	8	22	9	11	6	1	9	13	9	9	7	0	0	0	1	0	0	1	0	4	3
September	9.3	S.	27	NW.	0	6	5	2	10	19	1	5	12	0	9	11	10	10	7	0	0	2	1	0	0	0	0	3	2
October	11.4	S.	31	W.	0	2	0	1	13	18	4	11	7	0	2	8	21	15	12	0	0	2	1	0	0	0	0	1	0
November	11.5	S.	34	SE.	1	7	4	3	12	19	6	3	6	0	6	3	21	14	10	11	2	1	4	0	2	0	15	0	0
December	11.9	S.	30	W.	0	0	2	0	12	25	11	8	4	0	2	4	25	16	11	12	10	0	4	0	10	0	22	0	0
Year	10.7	S.	38	N.	6	68	40	24	118	171	74	142	93	2	58	90	218	161	118	80	52	5	26	5	39	1	130	18	8

PALESTINE, TEX.

[H_b=510 ft.; h_t=64 ft.; h_r=57 ft.; h_a=72 ft.]

January	8.6	S.	22	NW.	0	8	5	10	7	12	4	8	8	0	13	6	12	12	12	0	0	0	4	3	0	0	2	1	0
February	8.9	S.	27	S.	0	13	9	5	4	12	9	3	3	0	11	2	16	11	9	0	0	0	4	2	0	0	2	2	0
March	10.3	S.	30	NW.	0	18	3	2	1	23	6	1	7	1	16	5	10	10	8	4	1	0	0	0	1	0	8	3	0
April	9.4	S.	25	NW.	0	2	5	6	6	28	5	0	7	1	12	11	7	5	4	0	0	0	2	0	0	0	3	0	0
May	7.8	S.	22	S.	0	14	11	8	4	19	1	3	1	1	13	11	7	5	4	0	0	0	0	0	1	0	4	0	0
June	7.7	S.	26	S.	0	4	2	3	12	25	8	4	2	0	11	12	7	6	4	0	0	0	0	0	0	18	0	6	0
July	7.2	S.	32	SW.	1	3	3	4	5	32	11	2	1	1	19	10	2	6	3	0	0	0	0	0	0	27	0	6	0
August	7.4	S.	21	SE.	0	0	7	11	8	32	4	0	0	0	8	20	3	5	3	0	0	0	0	0	0	27	0	2	0
September	6.2	NE.	19	SE.	0	10	25	7	3	6	2	2	2	3	11	6	13	9	6	0	0	0	0	0	0	7	0	4	0
October	7.4	S.	21	N.	0	11	8	3	7	17	5	2	8	1	21	5	5	5	4	0	0	0	0	0	0	0	0	1	0
November	8.4	S.	26	SW.	0	13	13	6	3	15	3	1	6	0	19	5	6	4	2	0	0	0	3	3	0	0	3	2	0
December	8.3	N.	28	SE.	0	14	18	6	8	7	2	2	5	0	8	5	18	13	12	1	1	0	4	7	4	0	9	3	0
Year	8.1	S.	32	SW.	1	110	109	71	68	228	60	28	50	8	162	98	106	91	71	5	2	0	17	15	5	80	24	37	0

PARKERSBURG, W.VA.

[H_b=637 ft.; h_t=77 ft.; h_r=70 ft.; h_a=84 ft.]

January	7.3	SE.	28	NW.	0	4	2	3	17	5	19	7	5	0	9	5	17	15	13	1	0	0	2	0	1	0	11	1	0
February	7.4	SE.	28	SW.	0	6	5	2	11	5	8	7	12	0	11	4	14	9	8	1	0	0	4	0	0	0	17	2	0
March	8.8	SW.	35	SE.	1	6	2	1	9	2	19	8	15	0	9	5	17	17	12	12	6	0	3	1	7	0	14	1	0
April	7.0	NW.	27	NW.	0	11	5	0	11	3	9	6	15	0	12	7	11	8	6	2	1	0	2	0	0	0	6	2	0
May	5.9	SE.	27	NW.	0	6	3	0	15	7	9	4	17	1	12	10	9	10	6	0	0	0	4	0	0	0	5	0	0
June	5.3	SE.	28	SW.	0	2	6	3	15	6	9	5	14	0	10	12	8	12	8	0	0	0	3	0	0	2	0	0	0
July	5.8	SE.	32	NW.	1	2	1	2	19	4	13	4	17	0	14	8	9	14	10	0	0	1	2	1	0	9	0	10	0
August	4.7	SE.	18	NW.	0	10	4	3	23	1	7	5	8	1	17	8	6	6	5	0	0	0	2	0	0	5	0	4	0
September	5.4	SE.	24	SE.	0	13	2	1	19	2	8	4	12	1	14	10	6	6	4	0	0	0	8	2	0	4	0	3	0
October	6.6	SE.	34	NW.	1	9	5	1	22	4	9	5	5	2	8	8	15	12	8	0	0	1	9	2	0	0	0	1	0
November	6.0	SE.	19	SW.	0	9	6	2	19	0	10	3	10	1	9	4	17	11	7	4	1	0	6	0	0	0	18	0	0
December	6.2	SE.	24	SW.	0	11	3	0	20	4	9	3	12	0	4	6	21	16	13	5	5	0	8	2	8	0	23	0	0
Year	6.4	SE.	35	SE.	3	89	44	18	200	43	127	63	142	6	129	87	150	135	100	25	13	2	53	8	16	20	89	38	0

PENSACOLA, FLA.

[H_b=56 ft.; h_t=149 ft.; h_r=131 ft.; h_a=185 ft.]

January	14.0	E.	41	S.	4	12	10	15	9	9	2	2	3	0	10	7	14	9	9	0	0	0	4	2	0	0	0	5	0
February	12.6	SW.	31	SE.	0	6	12	5	5	9	10	9	2	0	9	5	15	9	6	0	0	0	8	6	0	0	0	0	0
March	14.0	N.	35	SW.	4	19	6	4	1	6	10	11	5	0	14	8	9	5	5	0	0	0	4	4	0	0	0	2	0
April	12.5	W.	43	SW.	1	8	9	2	1	9	9	17	4	1	14	10	6	3	2	0	0	0	4	4	0	0	0	2	0
May	12.6	S.	40	SE.	4	9	9	5	8	16	4	10	1	0	16	6	9	7	7	0	0	0	2	2	0	0	0	6	0
June	11.1	W.	43	SW.	2	4	4	4	2	4	10	26	5	1	18	11	1	8	8	0	0	0	0	0	0	0	0	13	0
July	10.8	W.	40	SE.	2	16	2	1	9	3	10	21	7	2	10	12	9	7	3	0	0	0	0	0	0	10	0	20	0
August	10.2	S.	71	SE.	1	7	17	6	3	8	5	14	0	2	9	10	12	13	12	0	0	0	0	0	0	1	0	16	0
September	13.6	N.	62	S.	2	19	7	12	6	8	3	3	2	0	9	10	11	11	9	0	0	0	1	0	0	2	0	6	0
October	12.6	N.	45	SE.	2	14	20	3	8	5	4	3	5	0	16	4	11	9	7	0	0	0	2	0	0	0	0	1	0
November	12.9	NE.	35	E.	3	13	23	3	2	9	1	8	10	0	14	5	11	6	6	0	0	0	3	1	0	0	0	0	0
December	12.8	NE.	33	W.	1	13	15	5	7	11	3	5	3	0	8	7	21	9	7	0	0	0	9	6	0	0	2	2	0
Year	12.5	N.	71	SE.	26	140	134	65	52	88	71	129	47	6	142	102	122	99	85	0	0	0	37	25	0	13	6	73	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

PEORIA, ILL.

[ϕ= 40°43′ N.; λ=89°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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.42	30.06	28.80	30.0	35.5	34.3	40.0	26.5	33.2	60	1	26	28	29	86	73	79	0.150	0.157	0.167	2.51	0.95	1.6	7.5	7.3	6.9	7.3
February	29.37	29.99	28.50	30.3	41.2	39.6	46.4	27.2	36.8	74	14	27	29	31	86	60	72	.154	.170	.187	1.40	.77	3.4	5.2	5.7	5.4	5.9
March	29.32	29.83	28.65	26.1	34.7	33.6	40.0	23.6	31.8	72	3	22	23	25	83	63	70	.129	.138	.144	2.51	.92	5.9	5.5	7.2	4.7	6.5
April	29.34	29.73	28.87	44.2	57.1	56.6	62.3	40.4	51.4	80	28	37	39	38	77	55	54	.231	.260	.250	1.99	.63	T	4.7	5.2	5.7	5.4
May	29.38	29.75	29.09	56.2	70.9	69.4	75.9	51.5	63.7	91	35	48	49	49	75	48	50	.346	.361	.361	3.61	1.15	.0	4.0	3.9	3.4	3.9
June	29.26	29.47	28.96	68.0	80.6	77.5	84.7	62.2	73.4	95	51	61	62	63	80	55	62	.552	.567	.576	4.75	2.47	.0	4.4	4.9	4.5	4.9
July	29.31	29.55	28.84	70.1	83.2	81.9	88.1	65.3	76.7	98	51	62	63	65	77	53	58	.580	.597	.630	3.41	1.40	.0	3.0	3.7	2.7	3.3
August	29.34	29.61	29.06	66.6	81.5	77.1	85.3	63.1	74.2	95	52	63	64	65	87	57	66	.575	.601	.618	3.14	.90	.0	4.5	4.3	3.6	4.1
September	29.45	29.75	29.15	56.2	73.8	66.7	77.4	52.2	64.8	90	36	52	51	52	85	47	59	.397	.392	.397	1.78	1.20	.0	3.3	3.5	2.3	3.2
October	29.33	29.65	28.98	45.0	59.3	54.9	63.4	42.2	52.8	82	25	41	43	43	86	56	66	.267	.292	.296	3.18	1.13	T	4.8	4.6	4.9	4.8
November	29.51	30.08	28.93	29.6	41.0	37.7	44.9	27.0	36.0	64	16	26	28	29	85	59	70	.147	.158	.166	.94	.46	5.6	4.4	4.1	4.1	4.6
December	29.46	30.05	28.69	23.9	31.3	28.1	35.7	20.0	27.8	60	−13	20	22	22	86	68	78	.136	.143	.139	4.46	2.30	5.9	5.2	5.0	5.5	5.2
Year	29.37	30.08	28.50	45.5	57.5	54.8	62.0	41.8	51.9	98	−13	40	42	43	83	58	65	.305	.320	.328	33.68	2.47	22.4	4.7	5.0	4.5	4.9

PHILADELPHIA, PA.

[ϕ=39°57′ N.; λ=75°09′ W.]

January	30.03	30.50	29.41	44.1	47.5	47.3	52.2	40.2	46.2	73	23	35	35	36	72	64	66	0.217	0.223	0.229	4.69	1.22	0.7	7.6	7.9	6.8	7.2
February	29.90	30.55	29.35	35.5	41.5	42.4	46.6	32.6	39.6	64	23	24	26	28	64	56	57	.146	.158	.162	1.58	.69	T	5.3	7.0	4.2	6.0
March	29.72	30.25	28.41	35.7	41.5	40.8	46.5	32.4	39.4	63	17	24	26	26	61	50	56	.142	.158	.155	7.43	2.74	5.8	4.9	6.6	4.1	6.0
April	29.84	30.37	29.25	47.4	55.9	54.2	60.9	43.1	52.0	79	33	33	33	34	60	44	49	.198	.196	.206	2.37	1.51	T	4.6	6.8	5.0	5.6
May	29.93	30.33	29.60	59.4	68.1	65.3	72.3	54.5	63.4	87	44	48	47	46	66	49	53	.347	.338	.333	3.81	1.17	.0	5.7	5.4	4.7	5.1
June	29.79	30.13	29.37	69.0	77.4	74.3	81.0	64.1	72.6	92	56	57	56	58	67	50	59	.481	.471	.502	3.30	1.27	.0	5.5	5.7	6.2	5.7
July	29.75	30.00	29.25	73.1	81.3	79.5	85.5	69.1	77.3	93	62	60	58	60	65	47	53	.531	.503	.528	2.25	1.25	.0	4.2	5.2	5.1	4.6
August	29.88	30.21	29.53	72.5	82.4	78.4	86.0	69.4	77.7	95	65	62	60	61	70	48	58	.562	.522	.557	3.07	1.35	.0	4.0	4.5	4.0	4.4
September	29.96	30.40	29.45	64.8	75.3	71.9	79.6	62.1	70.8	97	45	56	53	53	74	47	54	.478	.433	.440	1.05	.36	.0	4.6	5.8	4.3	5.0
October	29.93	30.33	29.45	55.2	63.4	59.7	66.9	52.3	59.6	81	41	48	46	48	77	56	66	.356	.336	.352	4.30	2.33	.0	6.0	5.6	4.5	5.7
November	30.08	30.70	29.34	41.8	48.7	47.0	53.4	38.2	45.8	67	16	33	34	33	79	59	60	.210	.222	.215	7.45	2.31	T	4.9	5.5	3.9	5.0
December	30.07	30.54	29.40	37.6	42.4	41.7	47.0	33.8	40.4	67	15	28	29	30	67	61	66	.164	.173	.187	3.13	1.21	9.5	6.3	6.4	5.2	6.4
Year	29.91	30.70	29.41	53.0	60.4	58.5	64.8	49.3	57.1	97	15	42	42	43	68	53	58	.319	.311	.322	44.52	2.74	16.0	5.3	6.0	4.9	5.6

PHOENIX, ARIZ.

[ϕ=33°28′ N.; λ=112°00′ W.]

January	28.88	29.21	28.41	36.6	55.1	56.3	60.3	33.8	47.0	73	27	26	25	24	66	32	29	0.144	0.136	0.131	0.10	0.10	0.0	2.3	2.2	2.3	1.9
February	28.81	29.12	28.48	48.1	63.0	64.3	68.1	45.5	56.8	80	30	40	39	39	74	45	44	.254	.245	.249	2.12	.91	.0	4.5	5.8	5.8	5.2
March	28.77	29.09	28.47	50.3	70.7	72.6	76.1	47.7	61.9	87	36	33	29	29	52	23	21	.191	.189	.162	.05	.05	.0	1.0	2.4	3.4	2.2
April	28.69	28.96	28.27	55.3	80.1	81.2	84.9	53.6	69.2	95	45	32	29	27	43	17	15	.180	.166	.151	.05	.05	.0	2.4	3.2	2.6	2.6
May	28.65	28.81	28.52	62.7	87.9	89.8	93.0	61.6	77.3	104	51	33	32	30	34	15	12	.190	.153	.169	.00	.00	.0	1.7	1.2	1.4	1.3
June	28.58	28.74	28.35	70.8	95.2	97.7	100.9	69.2	85.0	113	55	40	37	33	34	16	12	.257	.236	.198	.23	.17	.0	1.5	2.5	1.6	1.7
July	28.64	28.85	28.40	80.9	98.5	100.5	104.2	79.5	91.8	112	75	60	58	55	51	28	24	.530	.489	.445	.11	.14	.0	4.2	3.5	3.9	3.4
August	28.60	28.83	28.41	80.8	99.7	101.3	105.0	79.2	92.1	111	69	58	55	53	48	24	22	.500	.455	.421	.10	.06	.0	3.4	1.6	2.6	2.2
September	28.66	28.86	28.47	74.7	95.9	97.3	101.5	72.4	87.0	110	65	49	48	44	42	21	18	.354	.336	.297	.34	.33	.0	1.6	1.2	2.3	1.2
October	28.72	29.02	28.34	60.3	80.6	79.7	85.5	57.5	71.5	96	45	46	43	44	61	29	32	.327	.298	.311	1.73	1.45	.0	2.3	2.3	2.4	2.1
November	28.86	29.05	28.64	48.7	75.2	72.4	80.2	45.7	63.0	86	40	30	20	34	51	17	25	.171	.149	.197	.00	.00	.0	0.9	2.4	2.0	1.9
December	28.87	29.25	28.46	41.2	56.5	55.3	60.2	38.4	49.3	79	28	32	32	34	71	43	47	.182	.188	.200	1.84	.79	.0	4.1	3.5	2.4	3.2
Year	28.73	29.25	28.27	59.2	79.9	80.7	85.0	57.0	71.0	113	27	40	38	37	52	26	25	.273	.254	.244	6.67	1.45	.0	2.5	2.6	2.7	2.4

PIERRE, S.DAK.

[ϕ=44°22′N.; λ=100°21′ W.]

January	28.35	28.99	27.33	11.8	18.1	17.5	23.5	5.7	14.6	42	−15	5	8	9	72	65	69	0.060	0.072	0.074	0.17	0.07	2.5	5.5	5.9	5.9	5.7
February	28.29	28.83	27.51	18.2	26.2	26.7	32.4	13.1	22.8	68	−12	11	16	19	72	63	69	.086	.106	.117	.12	.12	1.6	4.4	5.7	5.4	5.4
March	28.36	28.92	27.69	20.5	29.0	29.6	35.5	17.3	26.4	63	−8	14	18	20	73	63	66	.097	.122	.123	.98	.50	10.1	6.1	6.3	6.2	6.0
April	28.25	28.81	27.82	43.9	56.5	57.1	62.5	40.9	51.7	79	28	38	40	39	79	57	55	.241	.259	.252	2.34	.96	T	7.2	6.0	6.5	6.5
May	28.27	28.69	27.88	53.5	67.2	68.3	73.5	49.8	61.6	94	36	46	48	48	77	54	53	.311	.349	.350	4.84	2.31	.0	5.5	4.9	5.6	5.5
June	28.20	28.42	27.88	64.1	76.3	77.8	81.5	60.8	71.2	97	50	58	57	57	80	53	50	.480	.473	.472	2.91	.84	.0	5.6	4.1	4.0	4.5
July	28.23	28.59	27.83	68.2	83.8	87.4	90.5	65.5	78.0	106	55	57	56	55	67	40	35	.477	.453	.443	1.08	.64	.0	4.2	3.3	4.1	3.6
August	28.23	28.61	27.73	65.6	81.6	83.9	87.7	63.7	75.7	101	54	56	56	54	73	44	40	.470	.460	.446	2.09	.73	.0	4.2	3.8	4.0	4.2
September	28.37	28.82	27.76	52.1	72.1	72.2	78.1	50.5	64.3	95	34	41	41	39	67	34	32	.264	.262	.248	.79	.64	.0	3.9	2.9	2.6	3.1
October	28.32	28.71	27.82	37.6	50.4	49.3	56.0	35.2	45.6	88	21	31	34	33	78	58	56	.176	.196	.188	1.25	.42	4.3	5.5	6.2	5.8	6.2
November	28.38	28.95	27.83	29.7	40.4	38.5	48.1	24.6	36.4	69	1	20	23	22	67	50	51	.112	.125	.119	.02	.01	.2	5.8	6.2	4.1	6.0
December	28.35	28.99	27.74	14.8	23.7	22.2	29.8	8.7	19.2	58	−17	6	9	10	66	51	60	.065	.075	.081	.28	.10	3.4	4.1	4.6	3.5	4.4
Year	28.30	28.99	27.33	40.0	52.1	52.5	58.3	36.3	47.3	106	−17	32	34	34	73	53	53	.237	.246	.243	16.87	2.31	22.1	5.2	5.0	4.8	5.1

*June 30th and July 1st.

Annual meteorological summaries for the year ending December 31, 1932—Continued

PEORIA, ILL.

[H_b=609 ft.; h_t=11 ft.; h_r=4 ft.; h_a=45 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.4	W.	20	W.	0	4	3	5	7	13	5	16	9	0	6	6	19	9	8	7	2	0	10	0	5	0	22	1	0
February	8.3	NW.	30	W.	0	6	4	3	7	11	8	9	10	0	9	9	11	6	4	6	2	0	12	3	3	0	22	1	0
March	9.2	NW.	23	S.	0	7	9	3	5	6	3	8	21	0	6	13	12	8	7	12	4	0	7	1	8	0	22	1	0
April	8.4	NW.	23	W.	0	7	9	12	9	7	0	6	10	0	12	4	14	10	7	1	0	0	7	0	0	0	4	4	0
May	6.8	SW.	22	W.	0	2	5	7	7	12	12	3	12	2	16	8	7	10	7	0	0	0	2	0	0	1	0	8	2
June	5.3	NE.	24	SW.	0	9	9	4	10	9	6	5	7	1	12	9	9	15	10	0	0	0	1	0	0	4	0	15	0
July	5.6	SW.	25	SW.	0	6	6	4	5	13	12	5	11	0	18	7	6	6	6	0	0	0	0	0	0	14	0	7	0
August	5.3	S.	18	W.	0	8	4	6	7	12	7	12	4	2	15	8	8	13	12	0	0	0	1	1	0	9	0	8	0
September	5.5	N.	16	S.	0	13	6	4	8	9	6	1	12	1	18	5	7	7	5	0	0	0	7	0	0	0	0	4	0
October	7.4	S.	24	W.	0	8	7	6	4	14	6	9	8	0	15	4	12	8	6	2	0	0	15	1	0	0	2	1	1
November	7.9	S.	18	W.	0	6	5	5	9	18	4	9	4	0	14	7	9	5	4	4	2	0	13	5	1	0	22	0	0
December	8.0	S.	24	W.	0	6	3	3	6	20	9	7	8	0	10	11	10	10	8	9	5	0	11	2	12	0	24	2	0
Year	7.2	S.	30	W.	0	82	70	62	84	144	78	90	116	6	151	91	124	107	84	41	15	0	86	13	29	28	118	52	3

PHILADELPHIA, PA

[H_b=114 ft.; h_t=123 ft.; h_r=114 ft.; h_a=367 ft.]

January	13.6	NW.	39	W.	7	6	3	6	3	10	10	11	13	0	5	7	19	12	12	2	2	0	6	2	0	0	1	0	0
February	12.7	NW.	43	NW.	3	7	5	3	4	8	9	7	15	0	8	8	13	9	7	2	0	0	7	3	0	0	15	0	0
March	15.8	NW.	44	NE.	8	6	7	2	0	8	5	7	27	0	7	10	14	12	9	8	6	0	5	0	4	0	12	0	0
April	14.3	NW.	42	NW.	5	13	9	1	3	7	7	10	10	0	8	12	10	8	7	1	0	0	2	0	0	0	0	1	0
May	13.3	SW.	30	N.	0	12	5	7	5	8	17	4	4	0	7	17	7	9	8	0	0	0	4	0	0	0	0	2	0
June	11.4	SW.	34	N.	1	7	8	3	1	7	22	8	4	0	9	9	12	10	7	0	0	0	2	0	0	0	0	6	0
July	11.9	SW.	38	N.	4	12	1	0	3	8	15	13	10	0	12	12	7	8	8	0	0	0	0	0	0	4	0	3	0
August	10.8	S.	30	W.	0	12	2	3	4	17	8	4	12	0	14	12	5	10	6	0	0	0	5	0	0	4	0	1	0
September	12.0	N.	40	N.	1	12	5	3	3	14	9	8	6	0	11	11	8	6	6	0	0	0	5	0	0	2	0	3	0
October	13.1	W.	38	S.	4	5	10	4	4	9	11	12	7	0	10	8	13	9	7	0	0	0	7	1	0	0	0	0	0
November	14.2	N.	42	NE.	6	14	7	4	4	5	7	5	14	0	11	9	10	11	8	2	0	0	7	1	1	0	6	0	0
December	12.8	SW.	38	NW.	1	6	8	3	3	4	18	7	13	0	8	7	16	12	10	6	2	0	9	2	2	0	14	0	0
Year	13.0	NW.	44	NE.	40	112	70	39	37	105	138	96	135	0	110	122	134	110	95	21	10	0	59	9	7	13	48	22	0

PHOENIX, ARIZ.

[H_b=1,108 ft.; h_t= 10 ft.; h_r=81 ft.; h_a=107 ft.]

January	5.6	E.	23	N.	0	5	3	14	6	4	8	11	8	3	25	2	4	1	1	0	0	0	0	0	0	0	10	0	0
February	5.8	E.	25	SW.	0	4	2	20	0	2	7	14	6	3	9	8	12	8	7	0	0	0	0	0	0	0	1	0	0
March	6.9	E.	29	W.	0	5	3	17	5	3	6	17	6	0	22	6	3	1	1	0	0	0	0	0	0	0	1	0	0
April	6.3	E.	29	SW.	0	5	2	19	6	3	6	10	9	0	20	6	4	2	1	0	0	0	0	0	0	12	0	0	0
May	6.9	W.	24	SW.	0	6	0	22	6	0	6	16	5	1	27	3	1	0	0	0	0	0	0	0	0	24	0	1	0
June	6.4	W.	21	W.	0	3	1	20	4	4	8	10	10	0	24	5	1	4	2	0	0	0	0	0	0	26	0	4	0
July	6.9	E.	32	N.	1	4	2	20	7	5	8	12	4	0	18	9	4	2	1	0	0	0	0	0	0	31	0	3	0
August	6.1	E.	30	NE.	0	6	3	17	1	9	6	12	6	2	22	8	1	3	1	0	0	0	0	0	0	31	0	6	0
September	6.4	E.	35	SW.	1	9	0	24	1	5	5	11	4	1	26	3	1	3	1	0	0	0	0	0	0	29	0	3	0
October	6.0	E.	34	N.	1	4	3	19	7	5	6	14	4	0	23	6	2	5	3	0	0	0	0	0	0	10	0	2	0
November	4.9	E.	16	E.	0	4	3	13	10	6	1	14	8	1	24	5	1	0	0	0	0	0	0	0	0	0	0	0	0
December	5.5	E.	27	SW.	0	3	5	14	6	4	6	12	12	0	20	4	7	8	6	0	0	0	3	2	0	0	6	0	0
Year	6.1	E.	35	SW.	3	58	27	219	59	50	73	153	82	11	260	65	41	37	24	0	0	0	3	2	0	163	17	20	0

PIERRE, S.DAK.

[H_b=1,572 ft.; h_t=70 ft.; h_r=63 ft.; h_a=75 ft.]

January	8.1	NW.	32	NW.	1	6	6	8	6	1	4	13	18	0	10	8	13	6	1	13	6	0	1	1	24	0	31	0	1
February	8.6	NW.	30	NW.	0	6	3	14	5	1	2	8	19	0	8	12	9	2	2	8	2	0	2	1	15	0	24	0	0
March	10.7	NW.	34	NW.	2	11	4	10	5	4	3	6	19	0	6	15	10	8	6	12	8	0	0	0	12	0	28	0	0
April	13.0	E.	35	NW.	2	15	2	20	10	1	0	2	10	0	6	11	13	13	8	1	0	0	3	0	0	0	6	2	0
May	10.4	NW.	31	NE.	0	11	5	12	12	1	2	6	12	1	10	12	9	13	8	0	0	0	1	0	0	0	3	0	0
June	8.8	SE.	43	NE.	4	9	2	14	13	4	3	6	9	0	12	12	6	12	10	0	0	0	1	0	0	0	3	0	0
July	9.4	SE.	28	SW.	0	7	9	9	18	4	4	4	7	0	18	11	2	4	3	0	0	0	0	0	0	18	0	4	1
August	9.9	E.	32	NW.	1	5	2	23	10	2	3	7	10	0	16	9	6	10	7	0	0	0	1	1	0	13	0	5	0
September	8.3	NW.	27	NW.	0	6	0	16	10	4	2	3	18	1	19	8	3	4	3	0	0	0	2	2	0	3	0	1	0
October	9.7	NW.	38	NW.	2	10	1	13	3	0	4	11	19	1	9	6	16	8	8	5	4	0	2	2	0	0	15	1	0
November	9.9	NW.	31	N.	0	4	1	18	7	1	3	3	22	1	8	8	14	2	0	5	2	0	0	0	4	0	24	0	0
December	7.9	NW.	36	NW.	1	6	1	10	6	7	7	8	15	2	13	11	7	8	3	12	7	0	0	0	15	0	31	0	0
Year	9.6	NW.	43	NE.	13	96	36	167	105	30	37	77	178	6	135	123	108	90	59	56	29	2	10	7	70	40	159	29	2

Annual meteorological summaries for the year ending December 31, 1932—Continued

PITTSBURGH, PA.

[ϕ=40°26′ N., λ=80°00′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.22	29.72	28.58	39.7	43.7	42.9	48.3	35.3	41.8	70	15	32	33	33	74	65	68	0.193	0.199	0.197	4.80	1.40	T	8.7	8.0	7.2	7.8
February	29.11	29.79	28.58	35.1	41.3	39.8	46.2	30.4	38.3	75	13	28	28	28	75	59	61	.168	.165	.161	.82	.24	1.5	7.9	7.0	7.2	7.2
March	29.00	29.48	28.22	30.4	35.2	35.7	41.8	25.5	33.6	67	5	24	22	24	75	59	62	.138	.127	.133	3.24	.62	8.2	7.6	8.5	7.5	8.3
April	29.07	29.61	28.62	42.6	52.8	52.6	59.6	38.2	48.9	78	25	32	31	32	67	48	49	.190	.185	.188	1.16	.40	2.5	5.7	7.5	5.4	6.2
May	29.15	29.54	28.86	56.5	67.0	65.9	72.4	50.9	61.6	86	35	46	43	45	69	45	51	.325	.289	.322	3.03	1.19	.0	5.2	5.8	5.5	5.4
June	29.04	29.30	28.79	66.3	76.5	74.6	81.1	61.0	71.0	89	46	56	54	56	70	48	54	.467	.445	.465	.78	.26	.0	6.6	7.1	5.8	6.7
July	29.04	29.33	28.52	68.1	78.7	76.1	83.0	62.9	73.0	93	55	60	57	58	75	48	55	.520	.472	.491	2.01	.53	.0	4.9	6.1	5.5	5.6
August	29.12	29.40	28.86	66.3	79.9	77.8	84.3	62.5	73.4	95	50	58	54	55	75	43	48	.489	.431	.452	1.72	.73	.0	3.7	5.9	4.5	5.4
September	29.20	29.50	28.90	60.3	74.0	71.4	78.4	57.3	67.8	95	40	52	48	49	77	42	47	.413	.363	.370	.59	.28	.0	4.2	5.2	3.8	4.9
October	29.13	29.44	28.74	49.9	59.7	57.0	64.0	47.0	55.5	78	37	42	42	43	74	55	62	.277	.283	.293	2.79	.99	.0	6.7	6.8	6.0	6.6
November	29.29	29.91	28.71	36.4	44.3	42.7	49.9	32.5	41.2	68	12	29	30	30	75	59	63	.172	.181	.181	3.22	1.03	T	7.2	6.1	4.3	6.1
December	29.25	29.75	28.53	32.5	38.0	37.1	44.2	27.1	35.6	66	−1	25	29	28	74	70	72	.148	.172	.170	1.73	.46	7.3	7.5	8.1	5.7	7.6
Year	29.14	29.91	28.22	48.7	57.6	56.1	62.8	44.2	53.5	95	−1	40	39	40	73	53	58	.292	.276	.285	25.89	1.40	19.5	6.3	6.8	5.7	6.5

POCATELLO, IDAHO

[ϕ=42°52′ N.; λ=112°29′ W.]

January	25.49	25.94	24.63	17.2	22.4	22.1	26.5	12.1	19.3	40	−9	15	18	18	90	82	85	0.087	0.098	0.089	1.97	0.47	27.4	7.7	7.6	7.8	7.7
February	25.48	25.94	24.93	18.8	26.0	27.5	32.5	14.1	23.3	48	−10	16	19	21	89	75	75	.101	.110	.115	.85	.37	9.4	5.7	6.2	6.1	6.2
March	25.47	25.90	25.12	29.4	37.3	37.5	41.5	20.7	31.1	58	7	25	26	27	83	64	65	.138	.145	.148	.99	.29	5.7	6.7	7.0	6.8	7.0
April	25.40	25.75	24.90	38.7	52.0	53.8	57.9	36.4	47.2	73	25	31	28	27	75	43	38	.174	.155	.147	1.75	.80	2.7	6.1	6.1	6.1	5.4
May	25.43	25.67	25.06	45.6	62.9	62.4	67.5	43.3	55.4	82	34	37	35	35	72	38	40	.220	.206	.206	.89	.32	.0	4.2	5.5	5.8	5.5
June	25.44	25.64	25.15	51.9	70.9	74.3	77.0	49.6	63.3	95	37	43	45	42	74	42	35	.286	.300	.266	1.32	.59	.0	4.7	4.7	5.1	4.5
July	25.47	25.74	25.20	59.8	81.1	81.8	86.3	57.2	71.8	96	41	43	44	41	56	28	27	.285	.295	.271	1.07	.42	.0	2.5	3.3	3.9	3.1
August	25.44	25.68	25.19	56.3	79.0	82.8	85.2	54.6	69.9	96	36	38	40	38	52	26	22	.231	.250	.235	.61	.36	.0	2.9	3.4	2.7	2.9
September	25.56	25.73	25.30	49.1	72.3	74.9	78.3	47.0	62.6	91	38	32	36	32	52	28	23	.179	.217	.187	T	T	.0	2.1	2.2	3.6	2.8
October	25.54	25.88	25.21	38.4	55.5	54.6	59.5	34.7	47.1	80	17	26	28	26	60	36	35	.140	.154	.141	.09	.06	.1	2.8	4.2	4.7	4.3
November	25.60	25.84	25.20	37.0	47.3	45.0	50.9	30.5	40.7	68	18	24	25	24	61	44	45	.128	.136	.129	.25	.09	.2	4.4	7.2	7.3	6.7
December	25.50	25.85	25.15	15.3	22.5	21.1	27.3	10.2	18.8	53	−20	10	15	14	80	70	76	.079	.089	.088	1.45	.27	17.2	5.7	6.0	5.5	6.0
Year	25.48	25.94	24.63	38.1	52.4	53.2	57.5	34.7	46.1	96	−20	28	30	29	70	48	47	.171	.180	1.69	11.24	.80	62.7	4.6	5.3	5.4	5.2

PORT ANGELES, WASH.

[ϕ=48°07′ N.; λ=123°06′ W.]

January	30.06	30.68	29.34	----	40.0	38.2	42.2	33.0	37.6	52	19	---	33	34	---	77	84	----	0.194	0.197	4.05	1.31	14.7	----	8.0	8.3	7.9
February	30.01	30.44	29.20	----	44.0	42.1	45.7	34.6	40.2	56	14	---	35	36	---	72	78	----	.212	.213	3.18	1.03	.2	----	6.6	6.7	7.0
March	30.02	30.47	29.41	----	47.4	47.4	49.9	39.6	44.8	57	31	---	39	41	---	74	78	----	.243	.257	1.93	.59	T	----	8.5	8.2	7.7
April	29.95	30.42	29.38	----	51.7	52.0	54.9	41.2	48.0	70	33	---	42	45	---	73	73	----	.274	.280	.92	.20	.0	----	7.8	7.1	7.1
May	30.08	30.38	29.67	----	55.8	55.9	59.3	43.7	51.5	79	36	---	45	46	---	68	71	----	.300	.312	.10	.04	.0	----	6.5	5.5	5.7
June	30.04	30.26	29.82	----	61.2	61.2	64.8	47.6	56.2	80	41	---	49	49	---	66	66	----	.351	.350	.64	.63	.0	----	3.5	3.7	4.2
July	30.05	30.29	29.58	----	59.8	60.8	63.4	49.3	56.4	74	42	---	50	51	---	72	71	----	.366	.374	1.08	.75	.0	----	7.1	6.4	6.6
August	30.02	30.25	29.77	----	62.4	63.4	66.1	51.9	59.0	81	48	---	55	54	---	73	72	----	.406	.419	.82	.42	.0	----	4.5	4.5	5.0
September	30.13	30.42	29.80	----	60.4	60.8	64.1	45.7	54.9	74	38	---	50	50	---	69	69	----	.359	.366	.45	.27	.0	----	3.5	3.2	4.1
October	30.07	30.58	29.51	----	55.8	53.9	57.7	43.6	50.6	74	35	---	46	46	---	72	77	----	.313	.316	2.06	.60	.0	----	6.1	6.5	7.3
November	29.97	30.52	29.28	----	49.7	47.6	52.3	40.7	46.5	65	32	---	43	43	---	79	85	----	.282	.280	5.41	.95	.0	----	8.1	7.4	8.3
December	30.06	30.62	29.05	----	42.3	38.8	43.9	32.6	38.2	54	18	---	33	32	---	70	78	----	.194	.191	4.42	1.00	T	----	7.0	6.6	7.1
Year	30.04	30.68	29.05	----	52.5	51.8	55.4	42.0	48.7	81	14	---	43	44	---	72	75	----	.291	.296	25.07	1.31	14.9	----	6.4	6.2	6.5

PORT ARTHUR, TEX.

[ϕ=29°52′ N.; λ=93°55′ W.]

January	30.04	30.47	29.58	54.6	60.2	----	65.0	51.4	58.2	76	36	50	50	---	87	69	---	0.393	0.392	----	7.54	3.06	0.6	6.0	5.4	----	6.2
February	29.98	30.34	29.73	60.1	66.9	----	71.0	57.8	64.4	84	38	56	57	---	88	72	---	.474	.488	----	8.10	3.83	.0	5.9	6.6	----	6.6
March	29.97	30.44	29.49	53.0	61.3	----	65.5	49.3	57.6	86	29	48	45	---	84	57	---	.378	.346	----	1.68	1.16	T	5.4	4.6	----	4.5
April	29.94	30.34	29.67	64.0	74.2	----	76.8	62.3	69.6	87	47	60	58	---	86	59	---	.529	.508	----	7.02	6.69	.0	4.7	4.2	----	4.3
May	29.93	30.16	29.72	71.5	80.4	----	83.0	68.8	75.9	88	61	65	64	---	80	59	---	.625	.611	----	2.04	1.63	.0	3.6	4.9	----	4.1
June	29.87	30.05	29.72	79.1	86.6	82.7	89.1	75.8	82.4	94	67	72	71	72	80	60	71	.796	.756	0.793	1.51	.63	.0	3.5	3.9	3.0	3.6
July	29.93	30.13	29.64	80.4	90.0	86.0	92.8	77.5	85.2	101	72	74	72	74	82	57	68	.841	.799	.833	6.00	3.87	.0	3.5	3.9	3.6	4.4
August	29.89	30.04	29.72	79.5	87.6	84.6	91.0	77.1	84.0	94	70	74	74	74	85	66	71	.853	.852	.845	5.37	2.13	.0	4.1	5.3	5.5	4.8
September	29.91	30.07	29.68	72.8	84.0	80.3	86.9	71.4	79.2	97	60	68	67	69	85	59	70	.697	.679	.726	2.59	1.33	.0	4.4	3.5	4.5	4.5
October	29.96	30.29	29.58	62.3	74.8	70.6	78.4	60.0	69.2	87	45	58	56	60	86	54	69	.499	.489	.533	1.62	1.04	.0	2.9	3.0	1.8	3.2
November	30.12	30.48	29.65	49.2	61.7	57.6	65.3	46.6	56.0	78	31	45	44	46	86	55	69	.318	.324	.347	2.05	1.26	.0	3.0	3.4	2.1	4.0
December	30.08	30.57	29.65	49.0	55.0	----	58.0	46.3	52.2	72	26	46	48	---	92	78	---	.336	.357	----	5.05	.70	T	6.1	7.0	----	7.4
Year	29.97	30.57	29.49	64.6	73.6	----	76.9	62.0	69.5	101	26	60	59	---	85	62	---	.562	.550	----	50.87	6.69	T	4.4	4.6	----	4.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

PITTSBURGH, PA.

[H_b=842 ft.; h_t=353 ft.; h_r=345 ft.; h_a=410 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.1	W	37	W	3	3	3	5	10	9	13	16	3	0	4	7	20	16	13	5	0	0	6	1	1	0	10	1	0
February	11.9	W	46	W	3	6	2	2	3	5	14	16	9	0	4	8	17	11	6	9	1	0	6	1	3	0	18	0	0
March	12.4	W	41	W	5	5	5	2	3	5	4	27	11	0	0	9	22	16	11	20	11	0	8	0	9	0	22	1	0
April	10.8	W	34	W	1	8	3	11	3	3	5	15	11	1	8	10	12	9	8	5	3	0	2	0	0	0	10	2	0
May	9.3	SW	30	NW	0	12	2	7	7	6	15	7	6	0	9	10	12	10	7	0	0	1	4	0	0	0	0	8	2
June	8.8	W	42	S	1	11	3	4	10	1	10	12	9	0	2	16	12	8	3	0	0	0	4	0	0	0	6	6	0
July	9.5	W	34	S	2	9	0	3	1	8	7	16	18	0	9	13	9	14	10	0	0	1	3	0	0	5	0	11	0
August	7.6	W	28	NW	0	9	8	2	3	10	15	6	9	0	9	14	8	6	5	0	0	1	3	0	0	2	0	4	0
September	8.7	NW	28	SW	0	7	11	3	10	3	11	4	11	0	10	12	8	8	4	0	0	0	0	0	0	3	0	3	0
October	11.3	SW	32	SW	1	1	6	6	13	7	14	12	3	0	5	12	14	12	10	0	0	0	1	0	0	0	0	0	0
November	9.6	W	27	W	0	2	6	8	9	8	10	11	6	0	8	11	11	8	6	5	1	0	7	2	2	0	16	0	0
December	10.4	SW	38	W	1	2	4	5	6	12	19	7	7	0	5	5	21	15	12	8	5	0	9	6	9	0	18	0	0
Year	10.0	W	46	W	17	75	53	58	80	77	137	148	103	1	73	127	166	133	95	52	21	3	59	10	24	10	94	36	2

POCATELLO, IDAHO

[H_b=4,477 ft.; h_t=60 ft.; h_r=52 ft.; h_a=68 ft.]

January	9.4	SE.	38	SW.	2	7	2	2	20	5	13	5	8	0	3	6	22	18	14	25	18	0	11	3	22	0	31	0	0
February	8.9	NW.	37	SW.	4	7	0	5	13	4	11	9	8	1	6	12	11	9	7	14	9	0	7	1	14	0	28	0	0
March	10.9	SW.	35	SW.	1	4	0	2	13	6	23	5	9	0	3	9	19	11	7	14	6	2	0	0	5	0	18	1	0
April	9.0	SE.	32	SW.	1	2	2	4	20	7	18	4	3	0	6	18	6	15	8	7	4	4	0	0	0	0	4	0	0
May	8.4	SE.	47	SW.	1	3	2	5	20	10	11	4	7	0	9	12	10	11	6	0	0	1	0	0	0	0	3	0	0
June	7.5	SE.	27	SW.	0	7	4	2	24	2	10	3	8	0	10	14	6	9	8	0	0	1	1	1	0	8	0	2	0
July	9.4	SE.	38	SE.	1	6	1	4	29	8	6	7	1	0	21	8	2	7	5	0	0	0	0	0	0	9	0	6	0
August	8.1	SE.	30	SW.	0	5	3	4	27	5	3	7	8	0	21	6	4	6	5	0	0	0	0	0	0	13	0	9	0
September	8.2	SE.	32	SW.	1	9	0	2	23	3	6	12	5	0	21	5	4	0	0	0	0	0	0	0	0	1	0	1	0
October	8.6	SE.	29	SW.	0	8	3	4	17	4	14	4	8	0	16	9	6	3	1	2	1	0	0	0	0	0	12	0	0
November	10.7	SE.	32	SW.	1	1	1	4	24	8	16	2	3	1	3	14	13	4	3	8	1	1	1	2	0	0	17	0	0
December	9.1	SE.	35	S.	1	2	0	2	28	8	12	3	6	1	11	6	14	15	11	17	15	1	6	1	20	0	29	0	0
Year	9.0	SE.	47	SW.	13	61	18	40	258	70	143	65	74	3	130	119	117	108	75	87	54	10	26	8	61	31	139	22	0

PORT ANGELES, WASH.

[H_b=29 ft.; h_t=8 ft.; h_r=3 ft.; h_a=53 ft.]

January	7.4	S.	32	W.	1	2	1	2	7	8	8	1	2	0	1	10	20	22	15	10	8	0	1	0	2	0	12	0	0
February	6.9	S.	25	SW.	0	1	3	8	3	3	2	8	1	0	5	9	15	17	11	1	1	0	0	0	0	0	8	0	0
March	6.7	S.	27	W.	0	5	5	4	1	0	4	8	4	0	1	14	16	19	14	1	0	0	0	0	0	0	1	0	0
April	6.7	S.	25	W.	0	2	1	4	0	1	1	13	8	0	2	13	15	13	9	0	0	0	1	0	0	0	0	0	0
May	8.9	SW.	34	W.	1	3	0	0	0	0	1	23	4	0	6	17	8	3	1	0	0	0	0	0	0	0	0	0	0
June	8.5	W.	23	W.	0	0	0	2	0	0	2	20	6	0	13	12	5	2	2	0	0	0	2	0	0	0	0	0	0
July	7.4	W.	24	W.	0	0	0	2	1	0	3	17	8	0	5	12	14	12	5	0	0	0	1	0	0	0	0	0	0
August	6.4	W.	22	W.	0	1	1	2	0	0	0	15	12	0	8	16	7	8	4	0	0	0	3	0	0	0	9	3	0
September	5.9	S.	25	W.	0	0	1	8	0	0	5	10	6	0	13	14	3	3	2	0	0	0	6	1	0	0	0	0	0
October	4.8	S.	18	SW.	0	0	2	7	3	1	7	8	3	0	4	10	17	15	10	0	0	0	11	2	0	0	0	0	0
November	5.1	S.	18	SW.	0	0	1	3	6	3	10	4	3	0	1	7	22	21	16	0	0	0	4	0	0	0	1	0	0
December	7.4	S.	31	S.	0	0	1	0	10	8	8	4	0	0	4	9	18	15	13	1	0	0	0	0	2	0	12	0	0
Year	6.8	S.	34	W.	2	14	16	42	31	24	51	131	67	0	63	143	160	150	102	13	9	0	29	3	4	0	34	3	0

PORT ARTHUR, TEX.

[H_b=34 ft.; h_t=58 ft.; h_r=51 ft.; h_a=66 ft.]

January	9.3	E.	24	NE.	0	5	4	6	5	3	0	1	7	0	8	10	13	11	9	0	0	0	3	4	0	0	0	2	0
February	8.9	S.	27	N.	0	8	4	1	3	8	2	2	1	0	5	11	13	9	9	0	0	0	2	6	0	0	0	2	0
March	10.2	S.	32	NW.	1	8	4	2	2	7	2	2	4	0	12	14	5	8	4	2	1	0	1	1	0	0	4	1	0
April	9.3	S.	26	N.	0	3	1	2	5	5	10	2	0	0	12	14	4	4	3	0	0	0	1	1	0	0	0	3	0
May	7.9	S.	23	E.	0	9	3	5	6	5	0	0	3	0	15	16	0	6	5	0	0	0	0	0	0	0	0	7	0
June	8.3	S.	20	N.	0	5	2	5	8	30	6	1	3	0	17	13	0	5	4	0	0	0	0	0	0	10	0	6	0
July	7.7	S.	21	S.	0	4	1	3	4	31	5	4	9	1	13	17	1	11	8	0	0	0	0	0	0	22	0	13	0
August	7.7	S.	35	NE.	1	3	8	9	11	14	10	3	4	0	7	23	1	11	10	0	0	0	0	0	0	0	0	0	0
September	8.1	E.	24	NE.	0	11	18	9	6	8	4	1	2	1	10	15	5	6	6	0	0	0	0	0	0	0	0	0	0
October	8.5	E.	24	N.	0	14	11	9	8	10	4	0	5	1	20	9	2	3	3	0	0	0	1	3	0	0	0	0	0
November	8.9	N.	25	N.	0	14	11	5	6	11	0	1	12	0	17	5	5	7	6	0	0	0	1	3	0	0	1	0	0
December	9.1	N.	26	W.	0	11	6	3	4	2	1	0	4	0	4	9	18	18	17	1	0	0	8	7	1	0	4	1	0
Year	8.7	S.	35	NE.	2	95	73	62	68	139	36	15	58	3	140	159	67	99	84	3	1	0	17	25	1	67	9	49	0

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.34	29.92	28.70	33.8	36.6	34.5	39.9	30.4	35.2	56	6	30	31	30	85	79	84	0.174	0.179	0.174	3.38	0.87	1.6	8.7	9.4	7.5	8.5
February	29.26	29.90	28.47	27.8	33.0	31.4	37.4	23.5	30.4	59	9	23	25	26	82	72	78	.134	.142	.143	1.40	.46	9.9	7.0	6.5	6.6	6.9
March	29.18	29.63	28.44	25.0	31.2	29.3	34.4	21.5	28.0	56	5	20	22	22	80	67	73	.113	.119	.123	2.86	1.57	21.4	7.6	8.6	6.9	8.0
April	29.29	29.82	28.83	37.5	44.0	41.3	47.7	33.1	40.4	68	23	29	30	31	70	60	68	.160	.169	.174	1.75	.51	5.3	5.9	6.7	6.4	6.7
May	29.34	29.75	29.01	53.1	62.3	56.8	66.1	46.3	56.2	84	32	45	45	46	75	58	68	.311	.324	.321	5.24	2.24	.0	5.8	6.3	5.5	5.9
June	29.23	29.54	28.88	64.3	71.1	66.1	75.1	57.0	66.0	85	44	56	57	55	74	61	68	.458	.473	.443	2.37	1.44	.0	4.3	5.1	4.8	5.0
July	29.21	29.49	28.64	65.8	74.0	71.4	78.4	59.9	69.2	93	48	58	58	59	76	58	66	.485	.485	.512	5.39	1.71	.0	5.1	6.0	3.8	5.0
August	29.29	29.61	28.97	65.9	75.7	71.8	80.0	60.5	70.2	93	50	59	58	60	79	57	67	.508	.496	.530	4.07	1.10	.0	3.7	4.6	4.5	4.3
September	29.39	29.71	28.85	57.6	67.7	62.7	69.8	53.5	61.6	84	38	50	51	54	78	56	73	.380	.395	.425	4.19	3.06	.0	3.5	4.7	3.6	4.2
October	29.25	29.65	28.79	47.8	55.8	52.1	59.3	43.7	51.5	74	33	42	43	44	81	63	76	.283	.291	.306	4.27	1.08	T	7.7	6.9	7.4	7.3
November	29.46	30.15	28.91	32.9	38.7	36.0	41.9	29.8	35.8	61	16	29	29	29	83	68	76	.166	.168	.169	1.99	.90	9.1	6.7	6.8	6.4	6.9
December	29.37	29.93	28.81	25.6	30.9	28.9	35.5	21.5	28.5	57	0	23	25	24	88	77	81	.133	.144	.145	2.60	.88	6.2	6.9	7.3	6.1	6.6
Year	29.30	30.15	28.44	44.8	51.8	48.5	55.5	40.1	47.8	93	0	39	40	40	79	65	73	.275	.282	.289	39.51	3.06	53.5	6.1	6.6	5.8	6.3

PORTLAND, MAINE

[ϕ= 43°39′N.; λ=70°15′ W.]

January	29.97	30.57	29.16	29.5	33.3	34.0	38.9	26.3	32.6	64	13	23	24	24	75	68	67	0.133	0.140	0.141	6.71	2.56	17.8	6.0	6.5	5.2	6.5
February	29.84	30.36	29.26	20.8	26.6	26.7	31.5	18.1	24.8	48	8	8	12	16	59	56	63	.075	.086	.098	4.48	1.36	26.4	4.1	4.9	4.6	5.2
March	29.56	30.20	28.51	27.9	34.6	32.8	38.2	24.5	31.4	56	10	16	18	20	62	52	59	.103	.102	.118	4.35	1.78	17.7	4.9	5.4	4.2	5.0
April	29.70	30.25	28.97	41.7	47.9	45.3	52.0	36.5	44.2	74	28	28	27	29	61	47	56	.164	.153	.167	2.07	1.36	.6	4.8	4.7	5.0	4.7
May	29.88	30.30	29.58	54.6	61.0	56.1	64.9	46.8	55.8	88	37	39	38	39	58	45	56	.252	.238	.251	.78	.46	.0	3.4	3.8	4.2	3.5
June	29.74	30.22	29.35	62.5	68.1	62.6	72.3	54.0	63.2	83	42	51	49	50	68	54	66	.385	.365	.367	1.57	.43	.0	3.4	5.0	4.4	4.7
July	29.67	29.95	29.06	66.9	72.3	67.5	76.3	60.1	68.2	89	51	56	54	54	69	55	65	.450	.422	.431	3.71	1.00	.0	4.0	4.2	4.3	4.2
August	29.84	30.20	29.57	67.6	74.7	68.6	77.9	61.9	69.9	87	55	59	59	58	76	60	71	.512	.502	.496	4.47	1.72	.0	1.7	1.9	3.2	2.9
September	29.93	30.30	29.22	59.1	67.1	61.9	70.1	54.3	62.2	86	39	51	50	51	77	58	70	.395	.389	.397	5.42	4.30	.0	2.7	3.3	2.7	3.6
October	29.90	30.41	29.30	49.7	56.5	52.1	59.0	46.2	52.6	74	32	44	45	44	83	68	75	.312	.318	.307	3.43	1.07	.0	4.8	4.8	4.7	5.2
November	30.07	30.75	29.30	35.3	42.1	39.7	46.8	31.1	39.0	62	8	28	30	30	73	62	67	.165	.178	.181	4.57	2.55	T	4.5	5.1	3.1	5.1
December	29.99	30.54	29.10	29.1	36.6	33.9	40.2	25.5	32.8	62	0	23	26	25	77	64	69	.137	.150	.147	1.39	.45	3.6	3.4	4.2	5.5	4.5
Year	29.85	30.75	28.51	45.4	51.7	48.4	55.7	40.4	48.1	89	0	36	36	37	70	57	65	.257	.254	.258	42.95	4.30	66.1	4.0	4.5	4.3	4.6

PORTLAND, OREG.

[ϕ=45°32′ N.; λ=122°41′ W.]

January	29.97	30.48	29.23	38.4	41.1	41.1	44.2	35.3	39.8	54	22	35	36	34	87	81	78	0.209	0.211	0.205	5.63	1.58	9.8	8.6	8.5	7.7	8.6
February	29.93	30.23	29.29	38.0	43.9	45.7	47.1	35.8	41.4	68	22	33	34	35	83	69	68	.202	.210	.216	2.58	.47	4.3	7.6	7.6	8.2	8.1
March	29.94	30.41	29.59	44.8	50.1	51.7	53.5	42.4	48.0	67	31	38	40	40	80	69	67	.241	.250	.257	6.08	1.17	T	8.1	9.3	9.0	9.1
April	29.84	30.29	29.41	46.4	56.5	59.1	61.5	44.9	53.2	75	38	42	41	42	84	58	56	.266	.261	.270	3.57	.83	.0	8.6	8.2	8.0	8.4
May	29.91	30.26	29.56	49.9	61.2	63.9	66.5	48.7	57.6	81	41	44	43	44	81	52	51	.290	.276	.294	1.50	.45	.0	7.6	7.4	7.7	7.8
June	29.85	30.10	29.63	55.7	70.1	75.0	76.5	55.2	65.8	91	46	49	49	50	80	49	44	.357	.357	.366	.07	.07	.0	5.3	4.7	4.4	4.8
July	29.88	30.11	29.40	56.4	69.2	73.9	75.7	55.8	65.8	86	49	51	51	52	82	53	47	.375	.375	.393	.48	.22	.0	5.7	5.7	4.8	5.3
August	29.83	30.01	29.60	59.7	71.4	75.5	77.3	58.8	68.0	95	54	54	54	55	81	54	52	.416	.413	.434	.45	.17	.0	6.1	6.1	3.9	5.2
September	29.93	30.28	29.65	55.4	70.3	75.2	77.2	53.9	65.6	91	46	49	49	49	81	48	41	.354	.351	.353	.11	.11	.0	2.8	2.8	2.1	2.8
October	29.95	30.47	29.56	51.9	60.9	62.0	64.5	49.8	57.2	86	40	48	47	48	87	65	64	.332	.330	.342	3.76	1.00	.0	7.5	7.0	7.1	7.5
November	29.93	30.30	29.36	46.3	52.0	52.0	55.1	43.5	49.3	67	33	43	44	45	88	74	77	.280	.290	.302	7.88	1.50	.0	7.7	8.7	7.4	8.5
December	30.00	30.36	29.14	36.4	40.4	39.4	42.7	33.5	38.1	57	16	30	29	30	78	65	70	.191	.183	.189	7.87	2.31	1.2	6.2	7.2	6.2	6.9
Year	29.91	30.48	29.14	48.3	57.3	59.5	61.8	46.5	54.2	95	16	43	43	44	83	61	60	.293	.292	.302	39.98	2.31	15.3	6.8	6.9	6.4	6.9

PROVIDENCE, R. I.

[ϕ=41°50′ N.; λ=71°25′ W.]

January	29.94	30.46	29.22	36.9	41.5	39.3	45.5	31.6	38.6	68	18	29	31	32	74	67	74	0.176	0.176	0.191	4.45	1.19	6.9	6.7	7.0	6.3	6.7
February	29.80	30.35	29.12	27.6	33.7	33.2	37.8	23.8	30.8	53	12	18	20	22	65	60	64	.105	.125	.133	1.76	.63	7.8	4.9	6.0	4.6	5.6
March	29.55	30.14	28.21	32.2	38.4	36.1	43.0	27.2	35.1	61	12	22	22	24	65	52	60	.127	.128	.138	4.09	2.26	1.3	5.0	5.3	4.0	4.7
April	29.73	30.20	28.87	44.9	52.4	47.7	56.3	38.2	47.2	76	28	32	30	34	61	46	59	.187	.179	.200	1.98	1.55	T	5.6	6.1	3.7	5.2
May	29.85	30.24	29.56	58.7	66.4	58.4	70.0	49.3	59.6	88	39	45	44	44	62	48	62	.314	.309	.304	2.51	.93	.0	4.3	4.3	4.3	4.4
June	29.71	30.14	29.25	65.1	71.9	67.2	75.8	56.7	66.2	87	41	56	57	58	73	62	75	.455	.484	.503	2.44	1.14	.0	5.4	5.5	4.4	4.7
July	29.65	29.89	29.08	71.6	77.5	72.0	80.8	62.1	71.4	88	55	56	57	58	61	52	65	.470	.480	.501	2.83	1.45	.0	3.2	4.2	3.6	3.6
August	29.82	30.15	29.54	72.0	79.1	72.2	82.0	63.7	72.8	88	55	60	60	63	68	54	73	.531	.527	.578	4.86	1.94	.0	2.9	3.0	2.8	3.5
September	29.88	30.30	29.15	61.7	69.4	64.3	72.6	55.8	64.2	88	38	52	52	53	71	57	68	.407	.422	.427	8.48	6.17	.0	4.6	3.9	3.3	3.9
October	29.86	30.31	29.36	52.9	60.5	55.3	62.9	48.2	55.6	78	33	45	46	47	74	60	75	.322	.334	.351	4.49	2.45	.0	4.7	4.7	4.3	4.8
November	30.01	30.64	29.33	39.5	46.7	42.4	50.2	32.9	41.6	63	9	30	31	31	68	57	64	.186	.202	.195	4.49	1.69	.0	4.4	5.3	3.9	4.8
December	29.96	30.45	29.20	34.2	40.2	38.0	44.3	29.8	37.0	63	0	24	27	28	65	60	67	.147	.166	.169	1.66	.38	5.5	4.7	5.1	6.0	5.0
Year	29.81	30.64	28.21	49.8	56.5	52.2	60.1	43.3	51.7	88	0	39	40	41	67	56	67	.286	.295	.308	44.64	6.17	21.5	4.7	5.0	4.3	4.7

Annual meteorological summaries for the year ending December 31, 1932—Continued

PORT HURON, MICH

[H_b=638 ft.; h_1=79 ft.; h_r=71 ft.; h_a=120 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																									
January	12.2	W.	34	W.	1	1	2	6	8	10	11	15	9	0	3	5	23	19	14	14	6	0	10	1	2	0	18	1	0
February	12.4	NW.	37	NW.	2	2	1	2	6	13	8	6	26	0	4	8	17	18	9	18	10	0	10	3	9	0	22	0	0
March	13.0	NW.	32	N.	2	8	6	4	5	4	5	14	16	0	0	11	20	14	11	23	11	0	2	0	12	0	28	1	0
April	12.2	N.	28	NW.	0	19	10	5	5	2	4	1	14	0	8	5	17	9	9	8	4	0	6	1	1	0	14	1	0
May	10.0	S.	27	W.	0	8	7	3	7	19	9	5	4	0	8	11	12	15	12	0	0	0	11	0	0	0	1	9	2
June	7.1	N.	30	NW.	0	12	13	6	6	2	7	7	7	0	12	10	8	10	8	0	0	0	17	1	0	0	0	4	0
July	9.9	NW.	37	N.	1	11	5	1	4	7	10	9	15	0	11	13	7	11	10	0	0	0	6	0	3	0	8	0	0
August	8.6	SW.	29	NW.	0	6	8	2	6	17	10	7	10	1	14	13	4	12	11	0	0	0	12	0	0	3	6	7	0
September	10.1	NW.	30	NW.	0	6	6	3	9	8	7	7	14	0	12	13	5	10	7	0	0	0	9	0	0	0	6	1	1
October	11.6	SW.	30	W.	0	1	5	5	6	13	17	8	6	0	3	11	17	12	10	1	0	0	14	0	0	0	0	0	0
November	12.2	SW.	30	SE.	0	2	5	3	6	16	13	8	7	0	6	7	17	11	7	13	6	0	4	0	5	0	20	0	0
December	12.3	SW.	35	W.	1	6	1	1	3	17	19	12	9	0	8	6	17	11	9	12	6	0	14	3	12	0	25	0	0
Year	11.0	NW.	37	N.	7	76	64	42	71	128	120	99	131	1	89	113	164	152	117	89	43	0	115	9	41	6	128	37	3

PORTLAND, MAINE.

[H_b=103 ft.; h_1= 82 ft.; h_r=75 ft.; h_a=117 ft.]

January	9.6	N.	29	NW.	0	13	9	1	3	1	9	13	13	0	9	4	18	17	14	16	7	0	3	2	7	0	25	2	0
February	9.9	N.	29	NW.	0	20	6	3	1	3	8	4	13	0	14	4	11	14	11	12	12	0	3	4	17	0	27	0	0
March	11.7	NW.	36	S.	2	12	8	2	1	5	6	9	19	0	14	8	9	13	11	10	10	0	1	1	7	0	26	3	9
April	10.4	NW.	34	S.	1	13	7	4	0	4	9	7	16	0	13	5	10	9	7	2	1	0	3	3	0	0	6	1	8
May	9.1	N.	21	S.	0	7	7	7	4	7	16	9	5	0	21	5	5	7	5	0	0	0	2	1	0	0	0	3	5
June	8.4	W.	23	NW.	0	7	3	4	0	6	13	14	9	4	12	10	8	10	7	0	0	0	1	0	0	0	5	5	0
July	9.0	S.	27	NW.	0	13	0	2	1	12	14	6	11	3	17	8	6	18	13	0	0	0	2	0	7	0	0	9	2
August	8.7	S.	30	S.	0	5	0	3	2	9	22	7	11	3	21	6	4	14	7	0	0	0	5	0	0	0	0	7	7
September	9.2	N.	30	SE.	0	21	1	2	3	4	8	8	9	4	17	8	5	9	8	0	0	0	5	0	0	0	0	7	10
October	10.4	S.	35	S.	2	7	3	0	2	10	16	10	8	4	13	7	11	11	7	9	0	0	5	6	0	0	1	4	2
November	10.7	N.	48	S.	2	24	4	1	2	3	11	9	3	3	12	8	10	8	7	2	0	0	3	0	2	0	13	1	0
December	9.1	N.	36	NW.	1	17	3	1	0	6	13	12	7	3	12	10	9	15	6	7	6	0	3	6	9	0	19	0	0
Year	9.7	N.	48	S.	8	159	53	30	19	70	145	108	124	24	175	85	106	145	103	49	36	3	42	59	42	0	117	42	43

PORTLAND, OREG.

[H_b=153 ft.; h_1=68 ft.; h_r=63 ft.; h_a=106 ft.]

January	6.5	SE.	24	SW.	0	0	1	10	18	7	8	4	13	1	3	2	26	23	20	11	11	0	10	2	2	0	7	0	0
February	7.2	S.	21	SW.	0	2	6	7	10	12	9	2	10	0	4	3	22	20	15	6	4	1	6	2	3	0	12	0	0
March	8.4	SW.	30	E.	0	0	2	9	12	14	14	6	5	0	0	4	27	24	21	2	0	2	3	1	0	0	1	0	0
April	6.7	SE.	26	SW.	0	1	3	2	13	11	15	4	11	0	1	5	24	17	17	0	0	2	2	0	0	0	0	0	0
May	6.4	NW.	21	NE.	0	6	2	2	6	5	6	5	30	0	5	5	21	11	8	0	0	1	0	0	0	0	0	1	0
June	6.9	NW.	19	NE.	0	10	3	0	2	2	3	3	38	0	11	10	9	1	1	0	0	0	0	0	0	3	0	0	0
July	7.0	NW.	19	SW.	0	4	0	2	2	3	9	7	35	0	10	9	12	8	4	0	0	0	0	0	0	0	0	0	0
August	6.6	NW.	19	NW.	0	4	0	1	6	7	5	2	36	1	9	11	11	8	4	0	0	0	1	0	0	4	0	1	0
September	6.8	NW.	18	W.	0	5	3	0	3	1	2	2	44	0	19	7	4	2	1	0	0	0	1	0	0	1	0	0	0
October	5.6	NW.	21	S.	0	3	3	3	8	10	11	4	20	0	3	7	21	13	11	0	0	0	15	2	0	0	0	0	0
November	6.6	SE.	21	SW.	0	1	2	3	17	9	15	2	9	2	1	6	23	21	18	9	0	1	15	4	0	0	0	1	0
December	8.6	E.	28	NE.	0	1	6	11	6	13	15	3	6	1	8	2	21	22	17	3	2	1	5	2	6	0	11	1	0
Year	6.9	NW.	30	E.	0	37	31	50	103	94	111	44	257	5	74	71	221	170	137	22	17	8	57	13	11	8	31	4	0

PROVIDENCE, R.I.

[H_b=160 ft.; h_1=215 ft.; h_r=211 ft.; h_a=251 ft.]

January	12.3	NW.	44	NW.	5	6	4	1	5	7	7	3	29	0	7	7	17	16	13	9	4	0	17	2	2	0	16	0	0
February	12.4	NW.	40	NW.	6	5	4	2	4	4	5	3	31	0	12	4	13	9	9	15	4	0	11	2	5	0	25	0	0
March	16.3	NW.	47	NW.	10	3	3	0	4	4	6	4	38	0	14	6	11	9	8	9	5	0	7	0	3	0	25	0	0
April	13.2	NW.	41	NW.	3	5	6	2	5	4	8	3	27	0	12	7	11	6	3	2	0	0	4	0	0	0	5	1	0
May	11.0	NW.	34	NW.	1	7	5	6	5	2	12	17	12	0	16	6	9	12	9	0	0	0	3	0	0	0	0	4	0
June	10.4	NW.	56	NW.	1	3	5	0	6	10	11	4	21	0	14	9	7	11	6	0	0	0	10	0	0	0	0	3	0
July	11.4	NW.	38	NW.	3	4	1	1	4	14	10	5	22	0	18	8	5	10	8	0	0	0	5	0	0	0	0	7	0
August	9.9	NW.	27	S.	0	2	0	1	4	17	11	4	21	2	17	9	5	11	9	0	0	0	8	0	0	0	0	6	0
September	11.3	NW.	32	N.	3	10	4	2	4	7	6	2	25	0	16	6	8	7	5	0	0	0	11	0	0	0	0	4	0
October	12.8	NW.	37	NW.	5	5	3	3	5	16	3	1	24	0	14	6	11	9	7	0	0	0	11	1	0	0	0	0	0
November	13.1	NW.	44	SE.	3	8	4	2	3	4	9	3	27	0	13	5	12	8	6	0	0	0	7	0	2	0	12	0	0
December	11.4	NW.	35	NW.	3	6	2	2	1	5	14	7	25	0	13	5	13	16	12	7	7	0	7	1	5	0	15	0	0
Year	12.1	NW.	56	NW.	43	64	42	23	47	104	107	40	303	2	166	78	122	125	95	42	20	1	101	6	17	0	98	25	0

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	25.21	25.70	24.44	20.1	35.7	34.9	41.8	14.5	28.2	71	0	12	15	16	69	45	47	0.076	0.085	0.068	0.52	0.36	6.4	3.9	4.4	3.6	4.3
February	25.21	25.56	24.72	29.7	50.9	51.8	57.7	25.8	41.8	77	3	18	20	20	64	33	30	.100	.100	.106	.05	.04	.7	3.9	3.6	3.0	4.0
March	25.22	25.66	24.62	25.7	44.5	45.8	51.4	21.8	36.6	74	−2	17	16	17	70	37	36	.096	.090	.096	.62	.37	7.5	3.5	4.3	5.1	4.5
April	25.20	25.60	24.72	39.6	60.5	62.2	67.5	37.2	52.4	82	20	25	26	26	58	31	31	.137	.142	.146	1.47	.79	5.4	4.6	4.3	5.2	4.8
May	25.26	25.53	24.91	49.1	70.5	72.4	77.4	47.8	62.6	90	40	33	32	30	64	28	24	.219	.189	.177	.32	.17	.0	4.5	4.3	5.9	4.8
June	25.23	25.47	24.95	57.2	77.4	78.0	83.2	54.9	69.5	95	42	44	40	38	65	29	29	.303	.260	.251	1.50	.94	.0	2.8	4.2	5.3	4.4
July	25.31	25.52	24.90	65.2	87.9	86.4	93.4	63.8	78.6	100	60	52	46	46	63	26	28	.389	.327	.319	1.77	1.31	.0	3.0	2.6	6.6	4.3
August	25.30	25.55	24.97	63.5	84.4	83.7	89.5	62.4	76.0	97	51	51	48	47	66	30	30	.385	.349	.332	1.32	.73	.0	2.4	2.7	4.9	3.9
September	25.33	25.69	25.04	53.3	74.2	74.1	79.2	51.0	65.1	91	43	40	40	40	63	34	33	.260	.252	.252	.23	.13	.0	2.8	2.3	3.2	3.0
October	25.30	25.72	24.86	40.7	61.2	59.2	67.3	36.6	52.0	84	26	28	28	28	65	32	34	.158	.154	.156	.54	.36	T	3.0	3.2	4.1	3.7
November	25.37	25.74	25.02	31.5	53.2	50.1	58.4	26.1	42.2	75	7	22	22	22	69	34	35	.116	.116	.115	.30	.18	2.4	3.5	4.0	3.9	4.6
December	25.26	25.66	24.85	14.8	30.0	27.7	35.4	9.4	22.4	69	−21	7	13	13	72	52	56	.062	.080	.080	.59	.25	7.5	3.1	4.4	3.8	4.9
Year	25.27	25.74	24.44	40.9	60.9	60.5	66.8	37.6	52.2	100	−21	29	29	29	66	34	34	.191	.179	.176	9.23	1.31	29.9	3.3	3.7	4.6	4.3

RALEIGH, N.C.

[ϕ=35°45′ N.; λ=78°37′ W.]

January	29.78	30.19	29.24	47.5	55.4	53.7	60.3	43.2	51.8	79	30	42	44	42	83	67	66	0.302	0.312	0.296	4.12	1.47	0.0	6.0	6.7	4.7	6.4
February	29.65	30.28	29.10	44.5	54.6	54.0	60.2	41.7	51.0	80	30	36	37	37	72	55	56	.232	.255	.242	2.84	1.07	.0	6.3	5.2	4.2	5.8
March	29.50	29.94	28.17	41.6	52.6	50.7	58.8	37.3	48.0	78	16	31	34	31	66	52	48	.195	.215	.190	6.23	3.65	3.3	5.4	5.7	3.9	5.4
April	29.58	30.03	29.13	53.1	65.2	63.4	70.5	48.5	59.5	85	38	40	42	40	62	46	46	.261	.279	.266	2.69	1.87	.0	3.8	4.5	4.6	4.7
May	29.66	29.93	29.32	62.5	72.3	69.6	77.3	57.3	67.3	92	48	54	52	53	75	52	58	.430	.396	.411	6.35	3.70	.0	5.3	5.2	5.4	5.2
June	29.55	29.86	29.17	72.6	81.8	78.7	85.9	66.9	76.4	93	59	65	63	65	78	57	69	.630	.586	.632	7.15	3.00	.0	6.6	6.0	6.1	5.7
July	29.54	29.78	29.15	77.0	87.3	83.4	92.3	70.8	81.6	102	61	65	63	64	68	45	55	.635	.583	.616	1.05	.39	.0	4.1	5.3	5.7	4.7
August	29.62	29.87	29.40	73.8	84.0	80.4	88.2	69.1	78.6	103	60	66	62	64	76	50	60	.638	.564	.616	1.70	1.01	.0	5.5	5.3	5.1	5.3
September	29.68	30.03	29.35	67.0	77.6	73.3	81.3	63.1	72.2	101	52	58	56	56	75	50	59	.508	.475	.475	2.27	1.00	.0	5.3	5.4	5.0	5.4
October	29.64	30.00	29.10	57.3	68.0	64.1	72.3	53.0	62.6	82	41	51	50	52	80	55	66	.397	.395	.401	7.42	3.22	.0	4.7	4.6	2.7	4.9
November	29.78	30.27	29.16	43.6	54.5	51.1	58.5	39.7	49.1	71	22	37	38	37	78	57	62	.255	.265	.259	3.58	.99	.0	4.8	5.1	3.8	4.7
December	29.80	30.18	29.26	42.3	51.7	48.5	56.2	38.9	47.6	73	18	35	38	38	76	64	70	.223	.256	.255	4.34	.83	T	6.7	6.2	5.8	6.6
Year	29.65	30.28	28.17	56.9	67.1	64.1	71.8	52.5	62.1	103	16	48	48	48	74	54	60	.392	.382	.388	49.74	3.70	3.3	5.4	5.4	4.8	5.4

RAPID CITY, S. DAK.

[ϕ=44°04′ N.; λ=103°12′ W.]

January	26.53	26.93	25.66	18.7	25.8	21.6	32.3	11.3	21.8	53	−14	11	14	16	73	65	77	0.075	0.086	0.091	0.51	0.20	5.2	3.9	5.2	5.2	5.5
February	26.49	26.90	25.82	25.8	35.9	31.9	41.3	18.0	29.6	71	−6	15	19	19	67	54	64	.092	.107	.111	.24	.14	3.2	4.0	6.0	5.3	5.4
March	26.57	27.04	26.02	20.8	31.8	30.5	36.4	15.7	25.0	63	−15	15	18	19	80	59	66	.099	.105	.112	.52	.18	5.7	6.4	6.6	5.5	6.0
April	26.52	27.03	26.07	42.3	55.7	54.6	59.6	39.0	49.3	80	21	32	31	32	69	46	49	.191	.189	.195	4.10	1.86	4.5	5.8	6.1	6.8	6.4
May	26.57	26.91	26.20	51.8	62.6	63.0	67.8	46.9	57.4	86	33	42	43	44	71	54	54	.268	.287	.293	5.02	1.70	.0	5.8	6.1	6.1	6.0
June	26.54	26.77	26.19	59.7	72.9	72.7	77.2	55.7	66.4	91	47	50	51	51	72	49	48	.370	.335	.379	2.03	.84	.0	4.6	4.8	4.9	4.4
July	26.59	26.88	26.21	64.9	81.8	81.8	86.2	60.5	73.4	100	48	52	53	54	66	39	41	.400	.405	.421	2.73	1.00	.0	3.6	3.7	4.3	3.9
August	26.57	26.85	26.18	62.2	78.2	78.9	83.2	59.2	71.2	94	46	52	54	54	70	46	46	.394	.437	.444	3.78	1.17	.0	3.3	3.5	3.9	3.4
September	26.68	27.05	26.14	51.0	70.6	69.1	74.6	47.4	61.0	92	37	37	38	38	62	32	34	.226	.232	.237	.25	.13	.0	3.0	2.6	3.5	3.0
October	26.61	27.01	26.21	37.6	49.8	46.2	54.3	32.1	43.2	79	13	28	30	31	71	52	58	.158	.168	.177	1.22	.63	9.5	5.4	5.6	4.9	5.5
November	26.03	27.07	26.21	36.0	46.5	40.6	52.6	27.8	40.2	75	10	22	22	23	61	42	52	.119	.122	.122	.06	.03	.5	5.8	6.4	5.1	6.2
December	26.56	27.04	26.13	17.1	28.9	22.6	32.7	10.5	21.6	60	−18	10	14	13	73	56	67	.075	.085	.082	.30	.17	4.5	3.8	5.1	4.4	5.0
Year	26.57	27.07	25.66	40.7	53.4	51.1	58.2	35.3	46.8	100	−18	30	32	33	70	50	55	.206	.217	.222	20.76	1.86	33.1	4.6	5.1	5.0	5.1

READING, PA.

[ϕ=40°20′ N.; λ=75°58′ W.]

January	29.79	30.25	29.13	40.9	43.9	44.0	48.6	37.3	43.0	71	18	35	34	36	80	70	74	0.216	0.212	0.229	3.56	1.30	T	8.5	8.1	7.5	7.9
February	29.67	30.30	29.19	32.4	38.2	38.8	44.0	29.8	36.9	62	18	24	25	26	70	59	59	.139	.144	.147	1.80	.65	0.8	6.8	6.7	5.3	6.5
March	29.48	29.99	28.39	33.0	38.1	37.9	43.6	29.0	36.3	62	11	23	25	25	66	58	60	.133	.143	.144	5.97	2.51	9.8	5.7	6.9	6.4	6.3
April	29.60	30.16	29.04	45.8	53.7	52.8	58.9	39.2	49.0	80	30	32	32	33	59	46	49	.184	.188	.192	1.26	.85	T	4.7	6.8	5.2	5.4
May	29.69	30.08	29.39	58.3	66.2	64.3	71.5	51.9	61.7	90	41	46	45	46	64	49	55	.320	.315	.336	4.94	1.84	.0	5.6	5.2	5.1	5.2
June	29.56	29.89	29.17	68.0	75.1	72.9	79.8	61.2	70.5	92	44	56	55	57	68	54	60	.470	.456	.499	4.10	1.38	.0	5.6	6.7	6.3	6.0
July	29.52	29.78	29.05	71.4	79.2	78.3	84.8	65.2	75.0	95	57	59	58	59	66	50	53	.510	.498	.510	4.23	1.55	.0	4.8	5.7	5.3	5.2
August	29.65	29.97	29.39	70.3	80.5	77.3	86.2	64.8	75.5	97	57	61	59	61	72	50	59	.539	.516	.549	6.81	3.94	.0	4.2	4.8	3.9	4.3
September	29.73	30.15	29.28	62.5	73.0	70.0	78.6	57.5	68.0	96	41	53	51	52	72	48	54	.431	.408	.418	.66	.44	.0	4.9	5.5	4.3	4.9
October	29.69	30.08	29.33	52.0	59.6	57.9	63.4	48.2	55.8	80	34	44	44	46	75	60	67	.311	.314	.337	5.64	2.56	.0	6.6	6.5	5.9	6.7
November	29.85	30.48	29.12	38.3	44.7	43.3	49.6	33.5	41.6	62	14	31	31	32	74	58	64	.191	.188	.196	5.71	1.43	T	8.0	6.0	4.1	5.6
December	29.83	30.30	29.12	34.6	40.4	38.4	45.2	29.1	37.2	67	10	26	27	28	70	60	66	.152	.155	.163	2.48	.77	8.6	6.4	6.0	6.6	6.5
Year	29.67	30.48	28.39	50.6	57.7	56.3	62.8	45.6	54.2	97	10	41	40	42	70	55	60	.300	.296	.309	46.96	3.94	19.2	5.8	6.2	5.5	5.9

Annual meteorological summaries for the year ending December 31, 1932—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.5	NW.	37	W.	2	9	6	10	6	3	4	9	15	0	16	11	5	7	2	8	6	0	1	0	7	0	31	0	0
February	8.1	NW.	46	NW.	3	11	4	10	9	2	5	5	12	0	15	10	4	2	1	3	2	0	1	0	1	0	20	0	0
March	8.0	SE.	38	W.	2	12	9	9	15	2	0	13	2	0	10	15	6	5	2	9	6	0	0	0	6	0	25	1	0
April	8.8	N.	41	NW.	2	13	5	7	12	5	2	4	12	0	11	14	5	5	3	3	3	0	0	0	1	0	8	0	0
May	7.6	SE.	31	W.	0	9	6	11	10	0	9	10	5	2	10	16	5	3	2	0	0	0	0	0	0	1	0	5	0
June	7.5	E.	30	W.	0	5	4	14	7	6	5	11	7	1	12	15	3	9	7	0	0	0	0	0	0	5	0	12	0
July	7.3	E.	31	NW.	0	11	5	14	4	6	5	6	11	0	11	19	1	7	3	0	0	0	0	0	0	25	0	9	0
August	7.1	NW.	30	NW.	0	9	2	12	9	0	3	7	19	1	13	18	0	9	8	0	0	0	0	0	0	15	0	13	0
September	6.9	E.	22	NW.	0	12	2	25	9	1	1	2	8	0	19	8	3	3	2	0	0	0	1	1	0	1	0	0	0
October	6.7	SE.	30	NW.	0	13	5	13	14	1	6	7	3	0	15	14	2	4	2	1	1	0	0	0	0	0	11	0	0
November	6.4	N.	32	NW.	1	9	13	11	5	3	3	9	7	0	14	10	6	3	2	3	3	0	0	0	0	0	26	0	0
December	6.7	NW.	30	NW.	0	9	6	7	10	6	2	7	15	0	10	15	6	9	4	10	9	0	1	1	11	0	28	0	0
Year	7.4	E.	46	NW.	10	122	67	143	110	35	45	90	116	4	155	168	43	67	41	37	30	0	4	2	26	47	149	40	0

RALEIGH, N.C.

[H_b=376 ft.; h_t=103 ft.; h_r=94 ft.; h_a=146 ft.]

January	9.2	SW.	34	NW.	1	7	4	5	5	4	16	10	9	2	10	4	17	13	10	0	0	0	4	1	0	0	1	0	0
February	8.8	SW.	32	NW.	1	7	7	2	5	2	18	8	8	1	13	3	13	10	8	0	0	0	4	1	0	0	2	2	0
March	11.2	NW.	40	NW.	3	8	7	4	2	10	9	7	14	1	11	9	11	12	9	5	3	0	0	0	0	0	10	5	0
April	9.3	SW.	32	W.	1	7	4	7	3	9	13	7	8	2	14	7	9	6	5	0	0	0	1	1	0	0	0	3	0
May	8.4	SW.	30	W.	0	7	12	4	3	12	11	6	6	1	11	10	10	12	11	0	0	0	1	1	0	0	2	0	0
June	8.0	SW.	32	NW.	1	3	5	6	7	8	18	11	2	0	8	12	10	11	11	0	0	0	0	0	0	8	0	11	0
July	8.2	SW.	29	N.	0	2	5	3	5	5	17	13	12	0	10	17	4	6	5	0	0	0	0	0	0	20	0	6	0
August	7.5	SW.	19	NW.	0	6	5	6	5	9	17	8	4	2	9	14	8	8	3	0	0	0	0	0	0	10	0	4	0
September	8.2	NE.	24	W.	0	6	18	9	7	7	5	5	3	0	9	10	11	9	6	0	0	0	1	0	0	6	0	2	0
October	8.6	SW.	25	SE.	0	11	7	7	3	6	14	5	6	3	14	6	11	8	7	0	0	0	5	2	0	0	0	1	0
November	9.5	NE.	32	NE.	1	16	14	5	9	4	4	5	11	1	13	7	10	10	9	0	0	0	4	0	0	0	7	0	0
December	8.3	SW.	30	NW.	0	16	9	2	2	3	18	5	7	0	9	4	18	13	10	2	0	0	10	5	1	0	6	0	0
Year	8.8	SW.	40	NW.	8	96	97	60	47	79	160	90	90	13	131	103	132	118	94	7	3	2	33	10	1	46	26	43	0

RAPID CITY, S.DAK.

[H_b=3,259 ft.; h_t=50 ft.; h_r=43 ft.; h_a=58 ft.]

January	7.0	W.	24	NW.	0	6	5	1	7	4	1	16	17	5	13	5	13	8	4	14	7	0	3	2	14	0	31	0	0
February	7.6	W.	27	SW.	0	8	5	2	8	6	1	12	12	4	7	17	5	3	2	8	3	0	1	0	8	0	22	0	0
March	8.5	N.	31	NW.	0	18	7	1	5	2	2	11	15	3	6	14	11	8	5	18	8	0	2	2	12	0	26	0	0
April	10.3	N.	30	S.	0	12	4	6	10	10	1	8	9	0	7	8	15	15	12	4	4	0	7	1	0	0	6	2	0
May	8.9	N.	30	N.	0	14	7	1	9	6	2	13	8	2	7	13	11	15	12	0	0	0	3	4	0	0	0	7	2
June	8.2	W.	27	N.	0	15	3	1	8	11	3	10	6	3	11	15	4	12	10	0	0	2	0	0	0	1	0	10	0
July	7.3	W.	31	NW.	0	6	8	1	8	7	7	17	8	0	14	10	7	11	7	0	0	2	1	0	0	11	0	11	0
August	6.9	W.	28	NW.	0	7	2	6	12	4	4	21	4	2	20	8	8	12	9	0	0	1	3	3	0	8	0	14	0
September	7.8	W.	35	NW.	1	10	4	5	5	7	0	19	10	0	9	7	4	4	2	0	0	0	0	0	0	1	0	1	0
October	8.8	N.	38	NW.	2	12	4	0	4	4	2	18	14	4	10	9	12	9	5	7	6	0	3	0	2	0	17	0	0
November	8.8	NW.	37	NW.	1	12	6	0	1	7	4	12	15	3	7	9	14	4	0	8	2	0	3	0	3	0	24	0	0
December	7.4	W.	32	NW.	1	15	1	1	3	1	2	20	17	2	9	15	7	10	1	13	9	0	0	0	11	0	28	0	0
Year	8.1	W.	38	NW.	5	133	56	25	80	69	29	177	135	28	130	130	106	111	70	72	39	8	27	8	50	21	154	45	2

READING, PA.

[H_b=323 ft.; h_t=283 ft.; h_r=275 ft.; h_a=306 ft.]

January	8.8	W.	28	W.	0	3	4	10	8	0	4	18	15	0	2	8	21	13	12	4	1	0	8	6	1	0	4	0	0
February	8.0	NW.	27	NW.	0	6	3	2	13	0	12	3	19	0	8	8	13	9	8	7	3	0	8	6	1	0	16	0	0
March	10.2	NW.	34	W.	1	6	4	3	9	0	8	9	23	0	7	13	11	10	9	8	4	0	3	0	7	0	17	0	0
April	8.3	NW.	23	W.	0	10	6	4	9	2	9	4	16	0	7	14	9	8	5	4	0	0	1	0	0	0	3	1	0
May	6.7	SW.	21	SE.	0	7	8	4	9	2	21	1	10	0	12	9	10	9	7	0	0	0	1	3	0	0	1	0	0
June	6.1	SW.	21	W.	0	7	3	4	10	1	20	0	15	0	7	9	14	11	9	0	0	0	1	6	5	0	1	0	0
July	6.6	NW.	26	SW.	0	8	4	0	12	1	12	5	20	0	9	14	8	8	8	0	0	0	1	3	0	0	6	0	0
August	5.8	SW.	24	NW.	0	8	0	4	17	1	14	3	15	0	14	10	7	6	6	0	0	0	0	6	1	0	5	0	0
September	6.1	SW.	21	NW.	0	9	2	0	11	3	20	1	14	0	11	9	10	3	3	0	0	0	0	5	4	0	2	0	0
October	7.7	SE.	26	E.	0	2	7	3	15	1	15	4	15	0	5	11	15	10	10	0	0	0	0	10	4	0	0	0	0
November	7.3	NW.	34	SE.	1	12	7	4	8	0	8	2	19	0	10	8	12	11	9	3	0	0	5	5	1	0	12	0	0
December	9.5	NW.	37	SW.	2	14	6	4	12	4	5	3	14	0	9	7	15	15	10	6	5	0	4	6	7	0	18	0	0
Year	7.6	NW.	37	SW.	4	92	54	42	133	15	148	53	195	0	101	120	145	113	96	32	13	2	61	38	17	15	70	28	0

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.79	30.16	29.06	39.5	48.6	50.8	53.2	36.4	44.8	71	28	34	34	34	80	61	58	0.196	0.201	0.204	1.78	0.98	12.8	5.3	5.5	5.9	5.7
February	29.70	30.00	29.28	40.5	53.2	57.8	59.1	37.9	48.5	84	27	32	32	33	72	49	43	.189	.195	.201	.58	.54	T	4.3	4.8	4.1	4.6
March	29.74	30.02	29.43	48.4	62.9	67.0	68.5	46.3	57.4	83	40	39	40	38	72	46	40	.252	.257	.246	.92	.47	.0	5.5	6.2	5.2	5.4
April	29.64	29.94	29.29	47.2	64.4	67.3	69.7	45.5	57.6	83	39	41	38	37	79	41	38	.258	.237	.234	2.29	1.70	.0	4.6	5.8	6.4	5.6
May	29.58	29.90	29.20	56.7	73.6	77.6	79.9	55.3	67.6	94	44	46	45	44	70	39	36	.313	.303	.302	2.07	.84	.0	3.5	4.2	4.6	4.0
June	29.47	29.72	29.17	64.9	86.7	92.8	94.3	63.5	78.9	112	50	49	48	46	58	28	22	.352	.346	.325	.04	.04	.0	1.6	1.3	2.4	1.8
July	29.49	29.71	29.23	67.1	88.7	95.6	96.5	65.5	81.0	106	55	48	46	43	53	25	18	.346	.320	.292	.00	.00	.0	1.3	1.0	1.2	1.3
August	29.45	29.64	29.10	66.7	88.4	96.4	96.8	64.8	80.8	110	55	48	47	45	52	25	18	.337	.335	.305	.00	.00	.0	.1	.0	.4	.3
September	29.51	29.75	29.23	65.2	88.8	95.4	96.8	62.6	79.7	106	56	43	42	42	48	22	17	.284	.277	.272	.00	.00	.0	.0	.0	.0	.0
October	29.65	30.03	29.27	54.9	73.6	77.1	80.4	52.3	66.4	97	42	39	38	37	57	31	25	.249	.250	.239	.06	.03	.0	1.8	1.9	1.8	2.4
November	29.75	30.00	29.47	49.7	64.8	65.5	69.5	46.2	57.8	83	33	39	41	41	69	45	45	.247	.264	.278	.49	.27	.0	3.8	4.1	5.0	5.1
December	29.80	30.27	29.38	35.5	45.6	47.8	50.7	32.5	41.6	74	18	28	30	32	77	61	58	.171	.194	.200	2.92	1.14	T	3.6	5.4	5.3	5.2
Year	29.63	30.27	29.06	53.0	69.9	74.3	76.3	50.7	63.5	112	18	40	40	39	66	39	35	.266	.265	.258	11.15	1.70	12.8	3.0	3.4	3.5	3.4

RENO, NEV.

[ϕ=39 32′ N.; λ=119°49′ W.]

January	25.49	25.89	24.84	25.0	34.7	35.1	39.2	20.5	29.8	60	−2	19	25	23	77	67	61	0.103	0.133	0.124	1.58	0.55	15.9	4.4	5.9	5.0	5.4
February	25.46	25.86	24.92	24.4	37.4	40.4	43.6	20.9	32.2	65	−4	19	25	24	78	61	53	.105	.134	.128	.90	.29	8.0	3.0	4.9	4.8	4.4
March	25.51	25.78	25.18	35.4	53.2	53.3	57.4	32.5	45.0	70	22	26	26	26	68	35	36	.139	.140	.143	.20	.20	.2	4.0	5.5	4.7	4.7
April	25.40	25.73	25.01	38.5	56.3	56.6	59.9	34.8	47.4	75	22	26	24	25	61	31	32	.139	.129	.134	.21	.11	.4	4.5	5.6	5.1	5.1
May	25.42	25.68	25.14	44.8	64.2	64.0	68.3	42.6	55.4	84	35	33	30	33	63	29	34	.185	.167	.186	.24	.08	.0	3.3	4.6	5.5	4.2
June	25.42	25.57	25.16	52.7	77.1	78.1	83.0	50.6	66.8	100	35	40	36	37	63	25	25	.250	.216	.222	1.40	.65	T	1.9	3.7	5.0	3.2
July	25.45	25.62	25.29	54.7	82.8	83.0	87.4	53.1	70.2	98	44	36	34	33	52	18	18	.219	.198	.192	.04	.04	.0	.5	.9	2.1	1.0
August	25.43	25.64	25.11	54.6	82.7	84.1	88.3	52.2	70.2	99	38	35	30	32	48	15	16	.206	.167	.182	T	T	.0	1.0	.8	1.7	1.0
September	25.52	25.69	25.30	50.6	80.2	81.0	85.0	48.0	66.5	93	38	32	30	32	51	18	19	.183	.170	.182	.04	.02	.0	.5	1.2	2.3	1.1
October	25.54	25.89	25.17	40.7	63.5	64.3	68.8	36.4	52.6	84	22	27	27	27	59	26	25	.150	.151	.147	.09	.09	T	1.0	2.0	2.2	1.8
November	25.50	25.84	25.26	36.9	56.6	55.7	61.2	31.5	46.4	72	23	24	28	28	60	35	35	.130	.155	.156	.02	.02	.0	1.9	3.8	3.6	3.4
December	25.50	25.85	25.01	21.7	37.0	35.5	41.3	16.7	29.0	64	−7	13	20	21	68	51	57	.082	.113	.118	.45	.17	2.8	3.1	4.2	4.6	4.1
Year	25.48	25.89	24.84	40.0	60.5	60.9	65.3	36.6	51.0	100	−7	28	28	28	62	34	34	.158	.156	.160	5.15	.65	27.4	2.4	3.6	3.9	3.3

RICHMOND, VA.

[ϕ=37°32′ N.; λ=77°27′ W.]

January	30.02	30.41	29.42	45.3	52.7	50.3	58.3	41.3	49.8	78	28	41	42	41	86	68	73	0.283	0.289	0.280	5.64	1.77	0.6	6.9	6.5	5.1	6.3
February	29.89	30.58	29.40	38.8	50.0	48.8	56.4	35.9	46.2	81	24	34	38	38	81	64	67	.206	.243	.242	1.66	.45	T	7.3	6.2	4.6	6.7
March	29.74	30.21	28.42	38.3	48.6	46.0	54.5	33.3	43.9	75	16	31	35	32	75	60	60	.195	.225	.203	6.21	2.14	2.8	5.7	5.0	4.5	5.1
April	29.83	30.37	29.37	48.5	61.4	60.5	67.0	43.1	55.0	82	34	42	48	48	78	64	67	.271	.344	.347	1.69	.53	.0	3.7	4.7	3.8	4.0
May	29.90	30.24	29.58	60.5	71.7	66.8	75.8	54.4	65.1	90	46	55	59	56	83	66	72	.443	.511	.465	4.17	2.27	.0	4.9	4.7	4.2	4.6
June	29.79	30.11	29.41	70.2	79.8	76.4	84.3	63.9	74.1	92	52	62	63	66	78	60	71	.581	.598	.644	3.17	.89	.0	5.5	5.3	4.6	5.2
July	29.77	30.05	29.32	74.4	85.6	81.2	90.2	68.0	79.1	100	58	65	64	66	75	50	62	.635	.608	.660	1.66	1.15	.0	4.2	4.0	3.8	4.4
August	29.86	30.14	29.63	72.4	86.2	79.8	89.9	67.6	78.8	103	59	64	62	65	77	46	61	.616	.571	.620	1.36	.67	.0	5.4	4.9	3.4	4.9
September	29.94	30.33	29.52	65.2	79.4	72.5	83.4	60.9	72.2	101	46	58	57	57	79	48	60	.510	.488	.491	.75	.39	.0	3.7	4.6	4.6	4.6
October	29.90	30.27	29.46	53.6	66.5	61.5	71.3	49.5	60.4	82	36	49	50	52	85	59	72	.363	.386	.411	6.58	3.19	.0	4.8	5.4	4.5	5.4
November	30.05	30.63	29.40	40.7	52.5	48.0	57.0	36.7	46.8	71	19	37	38	38	85	60	68	.244	.252	.252	3.50	1.19	.0	4.2	4.8	4.0	4.4
December	30.06	30.50	29.46	36.7	47.3	43.4	52.0	32.8	42.4	71	15	33	37	36	88	70	76	.206	.238	.225	4.84	1.49	7.5	5.5	5.6	5.6	6.2
Year	29.90	30.63	28.42	53.7	65.1	61.3	70.0	49.0	59.5	103	15	48	49	50	81	60	67	.379	.396	.403	41.23	3.19	10.7	5.2	5.1	4.4	5.2

ROCHESTER, N.Y.

[ϕ=43°08′ N.; λ=77°42′ W.]

January	29.50	30.06	28.84	36.0	38.2	36.9	43.2	31.7	37.4	64	14	29	30	30	75	72	75	0.170	0.176	0.170	3.75	0.92	6.3	8.7	9.4	8.1	8.9
February	29.40	30.05	28.80	28.9	32.5	30.5	37.9	23.6	30.8	70	13	23	24	23	77	69	71	.130	.137	.128	2.77	.69	25.3	7.8	8.8	7.2	7.4
March	29.26	29.70	28.45	28.1	31.2	29.7	35.5	23.9	29.7	65	8	21	22	22	74	68	71	.116	.120	.124	4.77	1.80	32.1	7.9	8.7	7.5	7.9
April	29.40	29.99	28.79	38.7	44.6	43.2	48.7	34.1	41.4	73	25	28	29	32	66	58	68	.154	.166	.192	2.54	.57	6.1	6.9	6.9	6.1	6.5
May	29.48	29.90	29.19	54.6	62.2	58.8	66.4	47.9	57.2	87	36	42	43	44	63	54	60	.279	.297	.302	2.22	.75	.0	6.6	6.3	5.8	5.9
June	29.35	29.66	29.01	65.5	73.4	69.6	76.8	58.3	67.6	89	45	53	53	54	65	51	58	.425	.435	.432	1.45	.85	.0	4.5	6.4	5.5	4.9
July	29.31	29.61	28.74	66.5	74.0	70.1	77.6	60.9	69.2	87	51	56	55	57	69	54	65	.451	.449	.482	3.67	1.20	.0	5.5	6.5	4.9	5.7
August	29.42	29.77	29.09	68.1	77.3	71.9	81.4	61.1	71.2	95	52	58	57	58	70	52	64	.483	.476	.500	2.47	1.12	.0	4.2	5.1	3.4	4.3
September	29.51	29.88	29.10	60.5	69.5	65.0	72.8	54.4	63.6	92	36	50	46	48	69	48	57	.380	.344	.367	1.47	.61	.0	4.3	5.0	3.6	4.5
October	29.42	29.85	28.92	50.4	57.6	53.5	61.6	46.0	53.8	79	35	42	42	43	72	58	69	.274	.277	.289	3.08	1.81	T	7.0	7.6	7.0	7.8
November	29.62	30.31	28.99	35.2	40.4	38.3	44.5	30.9	37.7	61	16	27	26	28	71	58	67	.158	.162	.162	3.56	1.47	5.0	7.2	6.7	6.1	7.3
December	29.53	30.04	28.87	31.3	36.1	33.1	40.6	27.0	33.8	64	9	22	24	24	68	61	68	.128	.135	.136	2.23	1.00	4.1	7.8	7.2	6.4	7.6
Year	29.43	30.31	28.45	47.0	53.1	50.0	57.2	41.6	49.4	95	8	38	38	39	70	59	66	.262	.264	.274	33.98	1.81	78.9	6.5	7.0	6.0	6.6

Annual meteorological summaries for the year ending December 31, 1932—Continued

RED BLUFF, CALIF.

[H_b=330 ft.; h_t=5 ft.; h_r=3 ft.; h_a=58 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.0	N.	24	SE.	0	24	2	1	6	8	3	2	16	0	11	6	14	7	5	3	3	0	4	2	0	0	8	1	0
February	7.1	N.	30	N.	0	17	2	1	4	8	1	6	19	0	15	5	9	3	2	3	0	0	0	0	0	0	4	0	0
March	6.9	NW.	25	W.	0	17	2	3	7	13	1	4	15	0	10	10	11	7	6	0	0	0	0	0	0	0	0	0	0
April	6.9	NW.	25	W.	0	9	0	4	12	12	0	8	14	1	10	9	11	11	6	0	0	1	0	1	0	0	0	2	0
May	7.3	NW.	24	NW.	0	11	1	3	11	13	2	1	16	1	17	5	9	9	6	0	0	0	0	7	0	0	4	4	0
June	6.2	NW.	21	N.	0	10	5	4	14	10	0	0	16	1	23	6	1	1	1	0	0	0	0	0	0	22	0	1	0
July	6.3	S.	30	SE.	0	3	2	4	16	21	0	3	9	4	25	6	0	0	0	0	0	0	0	0	0	25	0	0	0
August	6.4	S.	21	NW.	0	7	0	1	16	20	0	4	13	1	31	0	0	0	0	0	0	0	0	0	0	24	0	0	0
September	5.6	NW.	18	N.	0	16	0	4	6	11	2	5	15	1	30	0	0	0	0	0	0	0	0	0	0	27	0	0	0
October	6.7	NW.	21	NW.	0	8	0	2	3	16	2	4	26	1	20	9	2	2	0	0	0	0	0	0	0	4	0	0	0
November	6.8	NW.	25	SE.	0	15	1	3	10	4	3	2	21	1	13	6	11	6	5	0	0	0	0	0	0	0	0	0	0
December	6.6	NW.	22	SE.	0	20	1	3	2	8	1	2	23	2	14	3	14	10	8	1	0	0	2	0	1	0	11	0	0
Year	6.6	NW.	30	N.	0	157	16	33	110	144	15	41	203	13	219	65	82	56	39	7	3	1	6	3	1	109	23	8	0

RENO, NEV.

[H_b=4,532 ft.; h_t=74 ft.; h_r=67 ft.; h_a=81 ft.]

January	6.8	W.	32	SW.	3	1	6	5	7	6	9	19	7	2	10	7	14	9	7	14	8	0	0	0	6	0	31	0	0
February	5.5	SE.	30	SW.	0	3	4	7	13	3	15	8	5	0	16	4	9	4	4	7	3	0	1	1	7	0	28	0	0
March	8.1	W.	46	W.	2	4	1	7	6	1	16	15	11	1	11	13	7	1	1	1	1	0	0	0	0	0	16	0	0
April	9.6	W.	41	SW.	3	1	2	1	6	2	24	19	5	0	10	11	9	5	2	5	2	0	0	0	0	0	7	0	0
May	8.5	W.	32	S.	1	4	4	1	8	6	17	15	6	1	16	7	8	6	4	6	0	1	0	0	0	0	2	0	0
June	7.4	W.	31	SW.	0	5	2	2	2	3	24	17	5	0	20	7	3	6	4	1	1	1	0	0	0	11	0	5	0
July	8.6	W.	30	W.	0	1	2	1	3	3	29	22	1	0	28	2	6	1	1	0	0	0	0	0	0	14	0	1	0
August	7.4	W.	28	NW.	0	3	1	2	9	2	22	20	3	1	28	3	0	0	0	0	0	0	0	0	0	14	0	1	0
September	6.2	SW.	34	NW.	2	2	3	3	8	5	4	26	10	1	26	4	0	2	0	0	0	0	0	0	0	9	0	2	0
October	6.5	W.	31	SW.	0	10	5	6	1	4	16	12	8	0	26	2	3	1	1	1	0	0	0	0	0	10	1	0	0
November	6.1	SW.	32	SW.	1	3	4	4	4	5	20	15	4	1	18	6	6	1	0	0	0	0	0	0	0	15	0	0	0
December	5.6	SW.	32	SW.	1	1	1	0	11	10	13	15	3	1	14	11	6	4	3	8	3	0	1	1	7	0	30	0	0
Year	7.2	W.	46	W.	13	38	35	50	75	49	231	188	58	8	224	77	65	40	27	37	18	2	2	2	20	48	137	12	0

RICHMOND, VA.

[H_b=144 ft.; h_t=11 ft.; h_r=3 ft.; h_a=52 ft.]

January	8.8	SW.	27	SW.	0	4	5	6	7	3	18	9	8	2	8	4	19	12	11	2	2	0	2	0	0	0	4	0	0
February	8.1	SW.	26	NW.	0	6	5	10	7	4	16	4	4	2	4	12	13	10	8	1	0	0	11	1	0	0	7	0	0
March	10.9	NW.	38	N.	6	12	5	11	7	2	9	7	9	0	9	15	7	8	8	4	2	0	5	0	0	0	12	1	0
March	9.3	NE.	32	W.	1	7	14	6	9	4	8	8	4	0	16	8	6	8	7	0	0	0	3	0	0	0	0	2	0
April	9.3	NE.	32	W.	1	7	14	6	9	4	8	8	4	0	16	8	6	8	7	0	0	0	3	0	0	0	0	4	0
May	8.0	SW.	30	W.	0	4	12	5	10	6	15	7	3	0	11	14	6	13	9	0	0	0	1	0	0	1	0	4	0
June	7.4	SW.	24	NW.	0	1	8	7	5	4	18	12	5	0	10	12	8	9	8	0	0	0	1	0	0	7	0	7	0
July	7.7	SW.	33	W.	1	5	8	6	9	1	15	7	11	0	10	16	5	6	5	0	0	0	0	0	0	7	0	7	0
August	7.0	SW.	20	S.	0	4	8	6	16	3	14	7	4	0	9	15	7	6	4	0	0	0	4	0	0	4	0	4	0
September	7.7	NE.	28	NE.	0	2	12	6	13	2	12	7	6	0	10	12	8	9	4	0	0	0	4	1	0	6	0	3	0
October	7.8	SW.	25	SW.	0	4	11	7	11	5	13	8	3	0	13	5	13	10	8	0	0	0	11	5	0	0	0	2	0
November	8.2	NE.	26	NE.	0	3	20	8	3	9	7	2	7	1	13	7	10	10	9	0	0	0	7	1	0	0	0	8	0
December	7.9	SW.	32	SW.	1	4	17	4	2	9	16	6	4	0	9	6	16	12	10	2	2	0	9	4	2	0	16	1	0
Year	8.2	SW.	38	N.	9	56	125	82	99	52	161	84	68	5	122	126	118	113	91	9	6	0	58	14	2	48	47	31	0

ROCHESTER, N.Y.

[H_b=523 ft.; h_t=86 ft.; h_r=77 ft.; h_a=102 ft.]

January	9.7	W.	34	W.	1	5	0	5	10	9	9	15	8	1	2	3	26	20	14	18	11	0	4	1	2	0	19	2	0
February	9.6	W.	30	SW.	0	3	3	3	4	9	10	18	8	0	5	5	19	21	15	22	18	0	4	0	8	0	23	1	0
February	11.4	W.	32	SW.	1	4	7	2	6	3	9	25	6	0	3	6	22	18	13	23	17	0	2	0	12	0	26	0	0
March	11.4	W.	32	SW.	1	4	7	2	6	2	6	18	13	0	7	8	15	14	11	8	6	0	5	2	1	0	12	1	0
April	9.6	W.	30	SW.	0	1	14	4	2	2	15	19	9	0	11	10	10	12	9	0	0	0	1	0	0	0	0	3	0
May	9.2	W.	26	W.	0	1	6	3	7	2	10	10	10	0	8	16	6	5	3	0	0	0	1	0	0	0	0	3	2
June	8.2	W.	32	SW.	1	5	6	3	2	1	11	24	13	0	8	14	9	13	13	0	0	0	1	0	0	0	0	7	0
July	9.0	W.	30	W.	0	5	7	0	0	2	11	24	13	0	13	12	6	11	8	0	0	0	1	0	0	3	0	7	0
August	7.7	SW.	24	W.	0	2	4	4	0	6	20	18	8	0	13	10	7	11	7	0	0	0	1	4	0	1	0	3	0
September	7.8	NW.	26	SW.	0	4	9	1	1	4	17	11	13	0	13	10	7	11	9	1	0	0	1	1	0	0	0	1	0
October	9.8	SW.	30	W.	0	0	9	2	5	12	15	15	4	0	7	2	21	16	12	11	6	0	5	0	3	0	16	0	0
November	8.8	SW.	24	SW.	0	1	9	4	3	9	16	14	4	0	2	7	20	15	8	15	8	0	7	1	9	0	20	0	0
December	10.1	SW.	36	W.	2	0	0	2	8	11	23	16	2	0	4	7	20	15	8	15	8	0	7	1	9	0	20	0	0
Year	9.2	W.	36	W.	5	31	74	33	48	79	161	203	102	1	83	105	172	168	122	98	66	4	35	4	35	4	116	28	2

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.61	30.04	28.96	36.7	41.9	43.5	45.6	33.5	39.6	58	22	35	36	36	92	80	76	0.203	0.214	0.218	4.27	0.87	11.6	9.0	8.2	7.2	8.4
February	29.56	29.84	29.04	36.6	46.6	50.1	51.6	33.8	42.7	79	23	33	35	35	80	65	57	.191	.212	.207	1.04	.34	.5	6.2	6.5	7.0	6.8
March	29.58	29.98	29.25	44.1	53.4	56.7	58.5	41.6	50.0	77	28	41	41	41	90	64	57	.263	.262	.259	3.79	.92	.0	8.6	7.6	7.3	7.8
April	29.47	29.89	29.18	42.0	56.5	58.6	62.0	40.0	51.0	77	33	39	38	38	90	52	50	.239	.236	.232	2.67	.65	.0	6.4	6.9	7.4	6.5
May	29.51	29.83	29.12	46.8	61.2	64.1	66.7	45.3	56.0	79	38	43	44	42	88	53	48	.285	.286	.274	3.13	.94	.0	6.3	5.4	5.1	5.4
June	29.45	29.70	29.20	52.9	71.1	76.8	78.4	51.9	65.2	92	43	48	48	46	84	45	36	.338	.342	.319	.46	.24	.0	4.1	3.0	2.7	3.3
July	29.48	29.70	29.12	53.4	71.4	76.8	78.6	52.3	65.4	88	45	47	48	46	81	44	36	.329	.332	.319	.08	.05	.0	4.0	3.3	2.6	3.2
August	29.43	29.64	29.17	55.9	73.7	79.3	81.1	54.4	67.8	102	45	49	49	47	78	44	35	.347	.353	.330	T	T	.0	4.6	2.6	2.1	3.2
September	29.51	29.83	29.25	50.4	71.2	78.8	80.1	48.2	64.2	91	40	45	46	44	80	42	31	.298	.313	.297	.06	.06	.0	1.6	.7	1.1	1.2
October	29.57	30.06	29.26	46.9	60.9	64.6	67.4	44.4	55.9	94	36	44	46	45	88	60	53	.288	.309	.304	1.67	.58	.0	4.9	5.3	5.0	5.6
November	29.57	29.87	29.06	46.2	54.0	54.6	57.9	42.8	50.4	66	36	44	45	46	91	72	73	.287	.300	.310	4.64	1.02	.0	9.1	7.8	6.7	8.5
December	29.62	30.03	28.95	33.9	40.5	41.5	44.7	30.6	37.6	58	5	30	30	32	86	66	71	.186	.186	.201	4.74	1.46	T	7.2	7.3	7.2	7.5
Year	29.53	30.06	28.95	45.5	58.5	62.1	64.4	43.2	53.8	102	5	42	42	42	86	57	52	.271	.279	.272	26.55	1.46	12.1	6.0	5.4	5.1	5.6

ROSWELL, N.MEX.

[ϕ=33°24′ N.; λ=104°27′ W.]

January	26.36	26.88	25.78	29.3	44.9	45.1	51.7	25.9	38.8	69	16	20	21	22	70	42	44	0.115	0.119	0.121	0.65	0.52	2.8	4.2	4.0	3.2	3.9
February	26.33	26.76	26.00	39.4	57.1	59.7	64.3	35.7	50.0	82	18	28	29	26	66	38	32	.159	.166	.148	.65	.48	.0	4.9	5.3	4.9	4.9
March	26.33	26.78	25.70	35.1	52.7	55.8	60.3	31.4	45.8	82	3	24	23	23	66	37	35	.134	.122	.122	1.38	.71	7.9	3.6	3.4	3.8	3.6
April	26.28	26.70	25.92	45.9	70.9	73.2	77.3	43.3	60.3	88	33	26	26	25	47	22	19	.146	.142	.139	.51	.51	.0	2.9	2.8	3.2	3.1
May	26.33	26.66	26.00	54.8	74.8	76.5	81.1	53.0	67.0	91	40	44	42	39	69	35	32	.306	.279	.256	1.87	.96	.0	3.4	3.2	4.7	3.8
June	26.26	26.51	26.05	63.3	83.7	87.9	90.9	61.5	76.2	103	50	49	49	40	63	34	22	.373	.370	.278	1.33	.70	.0	2.8	1.1	3.7	2.5
July	26.35	26.61	26.02	68.8	86.7	88.9	92.9	67.1	80.0	99	63	59	56	52	72	38	31	.506	.461	.391	2.06	1.50	.0	3.5	2.4	4.2	3.4
August	26.34	26.55	26.11	67.3	84.0	85.6	89.7	65.5	77.6	100	61	58	56	53	75	41	36	.498	.462	.418	4.52	2.34	.0	5.2	2.6	4.9	4.1
September	26.43	26.66	26.15	57.8	73.2	74.4	78.8	56.3	67.6	91	48	53	53	51	86	53	49	.414	.406	.377	4.98	1.85	.0	4.8	3.7	5.2	4.5
October	26.40	26.84	26.01	45.7	63.4	63.3	69.3	43.8	56.6	85	29	41	41	42	84	46	49	.266	.269	.284	.57	.38	T	3.4	2.7	3.4	3.2
November	26.49	26.85	26.07	34.6	56.0	55.9	63.4	31.0	47.2	79	21	27	28	27	73	35	33	.152	.156	.149	T	T	.0	2.2	1.8	1.8	1.9
December	26.38	26.89	26.00	26.8	40.7	39.9	46.2	23.2	34.7	71	8	21	24	24	78	57	57	.109	.129	.124	.31	.19	4.9	4.5	4.6	3.6	4.4
Year	26.36	26.99	25.70	47.4	65.7	67.2	72.2	44.8	58.5	103	3	38	37	35	71	40	37	.265	.257	.234	18.83	2.34	15.6	3.8	3.1	3.9	3.6

SACRAMENTO, CALIF.

[ϕ=38°35′ N.; λ=121°30′ W.]

January	30.08	30.46	29.48	40.0	44.8	49.6	50.7	37.2	44.0	65	31	36	39	42	88	81	76	0.218	0.240	0.266	1.09	0.32	1.0	3.1	4.3	3.5	4.5
February	29.96	30.39	29.51	41.9	50.5	56.6	57.4	39.8	48.6	73	30	38	43	43	86	77	64	.234	.285	.291	1.76	.70	.5	2.5	3.3	2.9	3.1
March	30.02	30.27	29.70	48.8	60.5	66.8	67.7	46.5	57.1	78	37	44	48	47	84	66	53	.291	.338	.332	.34	.09	.0	2.6	3.5	3.2	3.0
April	29.94	30.18	29.60	47.0	61.2	66.6	68.3	45.3	56.8	82	38	42	49	48	85	67	55	.274	.355	.336	.76	.52	.0	3.3	3.2	3.4	3.4
May	29.86	30.16	29.57	52.6	69.4	74.8	76.8	51.5	64.2	91	46	46	52	51	80	57	49	.314	.388	.375	.30	.10	.0	1.5	2.6	2.8	2.1
June	29.75	30.01	29.51	56.9	77.5	85.8	87.3	55.8	71.6	105	48	48	53	50	75	45	32	.342	.407	.368	T	T	.0	.9	.5	.5	.5
July	29.78	30.03	29.56	58.3	79.6	88.3	89.9	56.9	73.4	106	50	50	55	54	76	44	33	.368	.436	.416	T	T	.0	.5	.1	.4	.2
August	29.74	29.91	29.42	58.8	78.1	88.4	89.8	57.1	73.4	106	52	51	55	53	77	46	32	.380	.438	.408	.00	.00	.0	.3	.0	.0	.0
September	29.79	30.02	29.55	60.0	79.2	89.9	91.4	57.7	74.6	102	49	51	54	51	74	44	29	.378	.426	.384	.00	.00	.0	.0	.2	.3	.0
October	29.92	30.22	29.58	52.7	68.7	76.3	77.7	50.5	64.1	90	44	44	46	44	73	46	34	.295	.326	.309	.00	.00	.0	.5	1.1	.7	.7
November	30.03	30.28	29.83	50.9	64.9	68.5	70.5	47.4	59.0	84	38	43	44	44	75	48	43	.278	.290	.289	.36	.27	.0	1.9	2.4	2.9	2.4
December	30.10	30.57	29.66	36.5	44.3	48.5	49.6	33.4	41.5	65	17	32	34	34	84	70	61	.188	.208	.213	2.11	.88	T	2.5	3.8	4.2	3.9
Year	29.91	30.57	29.42	50.4	64.9	71.7	73.1	48.3	60.7	106	17	44	48	47	80	58	47	.297	.345	.332	6.72	.88	1.5	1.6	2.1	2.1	2.0

ST. JOSEPH, MO.

[ϕ=39°49′ N.; λ=94°51′ W.]

January	29.02	29.58	28.30	25.2	31.2	30.8	36.3	21.6	29.0	58	−3	22	24	25	87	74	80	0.124	0.133	0.143	1.30	0.59	3.5	6.2	6.0	5.6	6.2
February	28.97	29.36	28.12	31.7	43.0	42.4	48.9	28.6	38.8	77	4	27	30	32	83	61	67	.155	.173	.188	.69	.39	6.4	5.0	5.3	4.5	5.0
March	28.96	29.47	28.26	27.8	38.7	37.9	43.8	25.4	34.6	73	2	22	25	25	81	59	61	.132	.145	.146	1.52	.95	5.4	4.6	5.2	4.6	4.7
April	28.90	29.40	28.40	48.4	61.9	61.9	66.7	45.9	56.3	83	33	40	40	41	75	49	51	.268	.271	.283	2.82	1.41	.0	5.3	5.5	3.9	5.0
May	28.96	29.33	28.63	58.1	72.4	72.4	77.1	55.0	66.0	90	43	48	50	50	71	48	48	.346	.382	.373	3.21	1.36	.0	3.4	4.2	3.1	3.8
June	28.85	29.09	28.57	68.3	80.2	79.1	84.4	65.3	74.8	94	60	63	64	65	83	59	63	.574	.603	.614	6.09	1.69	.0	3.8	4.5	4.0	4.6
July	28.91	29.19	28.48	72.9	85.2	85.9	89.5	69.8	79.6	98	55	65	67	68	77	56	57	.627	.668	.691	4.06	1.29	.0	3.0	3.1	2.3	3.3
August	28.92	29.16	28.61	69.7	83.7	82.1	88.2	66.9	77.6	96	52	63	63	65	81	52	59	.588	.590	.640	3.82	1.58	.0	3.8	2.7	2.5	3.4
September	29.04	29.38	28.64	57.1	75.1	71.5	78.6	55.1	66.8	94	45	49	50	52	76	44	53	.361	.380	.403	2.67	1.30	.0	3.4	2.4	2.5	2.9
October	28.95	29.32	28.51	46.0	60.2	56.0	64.0	42.9	53.4	84	29	39	40	40	77	49	56	.249	.260	.257	1.22	.66	T	4.8	4.4	3.2	4.2
November	29.11	29.63	28.58	31.2	44.1	40.8	48.5	27.5	38.0	66	10	23	25	25	71	49	53	.127	.144	.136	.59	.57	1.5	4.0	4.3	3.2	4.1
December	29.06	29.61	28.32	22.4	31.3	29.4	36.0	19.0	27.5	66	−9	18	20	21	84	64	71	.111	.126	.128	1.41	.66	5.3	4.1	4.7	4.1	4.9
Year	28.97	29.63	28.12	46.6	58.9	57.5	63.5	43.6	53.5	98	−9	40	42	42	79	55	60	.305	.322	.334	29.40	1.69	22.1	4.3	4.4	3.6	4.3

Annual meteorological summaries for the year ending December 31, 1932—Continued

ROSEBURG, OREG.

[H_b=510 ft.; h_t=75 ft.; h_r=60 ft.; h_a=99 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	4.3	S.	24	SW.	0	6	4	5	7	14	12	6	7	1	2	7	22	19	15	10	8	1	18	8	0	0	12	0	0
February	5.0	S.	21	N.	0	10	3	6	4	11	10	3	10	1	4	9	16	14	6	3	2	1	9	2	0	0	12	0	0
March	4.9	SW.	24	SW.	0	11	2	2	3	14	13	2	14	1	1	12	18	17	15	0	0	1	8	1	0	0	1	0	0
April	5.3	SW.	27	SW.	0	11	1	7	2	8	14	3	14	0	2	18	10	18	13	0	0	2	5	0	0	0	0	0	0
May	5.3	N.	18	SW.	0	27	9	4	2	2	4	4	8	2	11	8	12	14	10	0	0	2	0	0	0	0	0	1	0
June	5.6	N.	18	N.	0	29	6	3	1	2	1	0	12	6	17	9	4	5	3	0	0	1	0	0	0	3	0	2	0
July	5.9	N.	19	N.	0	28	5	1	2	3	1	11	8	8	18	7	6	3	1	0	0	0	0	0	0	0	0	1	0
August	5.4	N.	18	N.	0	32	6	0	0	2	1	2	12	7	19	4	8	0	0	0	0	0	0	0	0	5	0	0	0
September	4.8	N.	21	N.	0	33	3	2	0	0	3	0	12	7	27	2	1	1	1	0	0	0	1	1	0	1	0	0	0
October	3.6	NW.	18	W.	0	12	4	8	2	13	6	4	12	1	7	14	10	11	9	0	0	0	13	2	0	1	0	0	0
November	4.3	S.	24	SE.	0	8	8	6	3	16	6	4	9	0	0	7	23	16	13	0	0	0	12	2	0	0	0	1	0
December	4.8	S.	24	S.	0	6	5	5	6	17	4	4	13	2	6	4	21	17	14	1	1	0	8	2	5	0	12	0	0
Year	4.9	N.	27	SW.	0	213	56	49	32	102	77	33	134	36	114	101	151	135	100	14	11	8	74	18	5	10	37	5	0

ROSWELL, N.MEX.

[H_b=3,606 ft.; h_t=75 ft.; h_r=69 ft.; h_a=85 ft.]

January	7.8	S.	37	SW.	1	14	8	5	4	13	6	5	7	0	16	10	5	2	2	1	1	0	0	1	0	0	27	0	0
February	8.3	S.	35	NW.	1	8	4	5	3	17	12	3	6	0	11	8	10	3	2	0	0	0	0	0	0	0	9	1	0
March	9.4	SW.	49	SW.	2	6	5	4	4	11	9	9	12	2	19	5	7	6	5	6	5	0	0	0	3	0	14	0	0
April	9.0	S.	41	NW.	3	5	6	5	2	6	8	7	12	2	17	8	5	1	1	0	0	0	0	0	0	0	0	3	0
May	8.4	SE.	30	SE.	0	4	3	5	23	4	6	3	8	6	16	12	3	6	4	0	0	2	0	0	0	0	2	0	0
June	8.2	SE.	31	NE.	0	4	4	8	15	5	7	6	5	6	20	10	0	6	5	0	0	1	0	0	0	0	16	0	11
July	7.3	S.	30	SW.	0	2	5	3	21	11	4	3	6	7	18	11	2	7	5	0	0	0	0	0	0	0	27	0	14
August	7.4	S.	34	NE.	1	4	4	3	17	14	5	4	3	8	14	11	6	9	5	0	0	0	1	0	0	0	18	0	7
September	6.7	S.	32	N.	1	10	4	5	9	15	4	3	6	4	13	11	6	10	9	0	0	0	1	1	0	0	2	0	7
October	6.9	S.	30	NE.	0	5	6	1	9	21	6	4	6	4	20	7	4	5	3	1	0	1	3	2	0	0	1	2	0
November	6.7	S.	40	NE.	1	7	5	1	4	17	5	5	14	2	23	5	2	0	0	0	0	0	0	0	0	0	20	0	0
December	7.2	N.	29	NW.	0	9	10	1	3	12	4	6	16	1	15	6	10	5	2	5	3	0	9	1	7	0	29	0	0
Year	7.8	S.	49	SW.	10	78	64	46	121	146	76	58	101	42	202	104	60	60	43	13	9	4	14	5	10	65	100	54	0

SACRAMENTO, CALIF.

[H_b=69 ft.; h_t=106 ft.; h_r=100 ft.; h_a=117 ft.]

January	7.9	SE.	38	SE.	1	8	4	1	21	7	4	4	9	4	11	11	9	10	7	1	1	0	12	9	0	0	2	1	0
February	7.5	NW.	26	NW.	0	17	5	1	10	5	2	1	14	3	20	3	6	5	4	1	1	0	1	0	0	0	1	0	0
March	8.1	SE.	27	NW.	0	4	0	1	21	7	8	2	18	1	18	8	5	7	4	0	0	0	0	0	0	0	0	0	0
April	8.1	S.	21	S.	0	4	0	3	16	9	13	5	9	1	17	9	4	5	4	0	0	0	0	0	0	0	0	0	0
May	9.1	S.	26	SW.	0	3	0	0	9	19	17	1	11	2	19	11	1	5	4	0	0	0	0	0	0	0	2	0	0
June	9.1	S.	22	SW.	0	1	0	0	14	22	14	0	8	1	28	2	0	0	0	0	0	0	0	0	0	12	0	1	0
July	9.1	S.	27	SW.	0	0	0	0	19	28	9	2	4	0	31	0	0	0	0	0	0	0	0	0	0	16	0	0	0
August	8.8	S.	20	SW.	0	0	0	0	16	30	5	1	7	3	31	0	0	0	0	0	0	0	0	0	0	17	0	0	0
September	6.7	S.	16	S.	0	2	2	2	12	23	5	3	7	4	30	0	0	0	0	0	0	0	0	0	0	15	0	0	0
October	8.2	NW.	26	NW.	0	4	2	1	12	19	4	1	16	3	29	2	0	0	0	0	0	0	0	0	0	1	0	0	0
November	6.7	NW.	23	NW.	0	10	2	2	10	9	2	7	15	3	20	7	3	5	3	0	0	0	2	0	0	0	0	0	0
December	7.2	NW.	28	SE.	0	14	3	0	9	10	4	1	19	2	16	8	7	7	5	1	0	0	9	4	0	0	9	0	0
Year	8.0	S.	38	SE.	1	67	18	11	169	188	87	28	137	27	270	61	35	44	31	3	2	0	24	13	0	63	12	2	0

ST. JOSEPH, MO.

[H_b=967 ft.; h_t=11 ft.; h_r=3 ft.; h_a=49 ft.]

January	9.1	NW.	29	NW.	0	3	8	2	9	6	7	6	21	0	10	7	14	7	5	8	3	0	6	0	11	0	28	0	0
February	9.6	NW.	34	NW.	1	7	5	6	10	3	10	3	14	0	12	8	9	9	4	6	4	0	9	2	4	0	18	0	0
March	11.0	NW.	32	NE.	1	3	10	3	6	4	7	1	28	0	13	10	8	5	4	10	2	0	3	0	8	0	19	1	0
April	10.4	SE.	30	NW.	0	5	6	6	23	0	6	1	13	0	14	5	11	11	6	0	0	0	4	0	0	0	0	8	0
May	8.7	SE.	36	NW.	1	1	5	1	18	4	17	3	13	0	15	11	5	9	8	0	0	0	2	2	0	0	1	0	0
June	6.4	SE.	27	NW.	0	3	7	4	19	3	11	5	8	0	13	11	6	14	11	0	0	0	1	3	1	0	8	0	18
July	7.5	SE.	31	NW.	0	1	8	5	16	10	11	2	6	0	20	4	7	10	8	0	0	0	1	0	0	0	15	0	11
August	7.3	SE.	37	W.	1	4	9	4	16	12	10	3	4	0	17	10	4	8	8	0	0	0	2	5	1	0	12	0	8
September	7.2	SE.	32	NW.	1	6	14	6	18	6	5	2	2	1	19	8	3	7	7	0	0	0	2	2	0	0	1	0	8
October	9.2	SW.	31	NW.	0	3	7	3	11	9	10	5	14	0	17	5	9	7	6	1	0	0	4	0	0	0	2	2	0
November	9.6	SE.	28	NW.	0	8	4	0	18	15	4	2	13	1	17	5	8	3	2	5	2	0	5	1	2	0	22	0	0
December	8.4	SW.	27	NW.	0	9	6	2	6	12	11	7	9	0	12	9	10	8	6	7	4	0	8	2	11	0	24	1	0
Year	8.6	SE.	37	W.	5	48	89	45	170	84	109	40	145	2	179	93	94	98	75	37	15	8	51	7	36	37	113	65	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

ST. LOUIS, MO.

[ϕ=38°38′ N.; λ=90°12′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.48	30.09	28.79	35.1	40.9	41.5	47.2	32.4	39.8	68	13	30	30	32	80	67	71	0.170	0.179	0.199	2.50	0.60	0.1	6.6	6.3	5.6	6.5
February	29.42	29.97	28.69	38.5	47.2	48.4	53.6	35.7	44.6	82	20	32	32	33	76	56	57	.191	.190	.196	1.59	1.05	T	5.2	5.2	5.7	5.7
March	29.37	29.87	28.47	32.5	42.2	41.3	47.6	30.1	38.8	74	9	25	27	27	73	56	57	.147	.167	.159	1.33	.36	.3	5.7	5.6	5.1	5.8
April	29.35	29.79	28.85	50.9	62.6	62.3	67.5	48.5	58.0	84	38	41	41	41	70	49	49	.274	.277	.276	3.19	1.66	.0	5.1	4.6	4.6	4.8
May	29.42	29.77	29.18	61.2	73.6	72.9	77.6	58.3	68.0	89	48	49	48	47	65	43	43	.360	.353	.347	2.09	.84	.0	3.4	3.7	3.0	3.4
June	29.29	29.50	29.07	72.0	82.9	81.7	86.3	68.9	77.6	94	64	63	63	62	74	62	54	.579	.588	.574	2.45	.75	.0	4.3	5.6	4.5	5.1
July	29.35	29.58	28.95	75.7	86.9	85.8	90.6	72.6	81.6	101	62	66	66	64	72	52	50	.650	.665	.611	5.30	1.81	.0	3.0	3.6	3.8	3.5
August	29.38	29.63	29.15	71.4	83.1	80.6	86.7	69.6	77.8	94	59	65	64	65	80	54	61	.623	.608	.636	8.68	3.39	.0	3.1	3.8	4.3	3.8
September	29.47	29.72	29.19	62.2	74.6	73.4	78.5	60.7	69.6	90	50	54	54	54	77	52	53	.441	.442	.436	2.15	.77	.0	3.6	4.1	2.8	3.9
October	29.39	29.69	29.07	50.2	62.3	60.5	67.1	47.7	57.4	84	35	42	44	44	76	53	56	.288	.299	.298	4.28	2.12	.0	4.1	3.4	3.8	3.6
November	29.56	30.09	29.00	34.8	43.6	42.9	49.5	32.4	41.0	66	19	28	30	30	75	60	62	.161	.175	.177	2.08	1.37	5.3	4.8	4.6	3.6	4.9
December	29.52	30.07	28.75	30.6	37.3	35.9	41.8	26.6	34.2	69	0	24	26	26	76	64	66	.152	.161	.161	2.37	.89	3.9	5.5	5.2	4.4	6.0
Year	29.42	30.09	28.47	51.3	61.4	60.6	66.2	48.6	57.4	101	0	43	44	44	74	55	57	.336	.342	.339	38.01	3.39	9.6	4.5	4.6	4.3	4.8

ST. PAUL, MINN.

[ϕ=44°58′ N.; λ=93°03′ W.]

January	29.09	29.84	28.43	16.3	21.0		25.8	10.2	18.0	41	−16	14	16		90	81		0.088	0.097		1.94	0.70	22.6	7.2	7.5		7.6
February	29.07	29.77	28.07	14.2	22.2		28.6	10.2	19.4	58	−6	12	16		91	76		.087	.101		.96	.46	10.7	4.9	6.3		6.0
March	29.07	29.57	28.44	17.0	25.3		29.8	14.9	22.4	61	−6	14	19		86	75		.089	.113		1.45	.53	16.0	6.2	6.6		6.6
April	29.10	29.44	28.68	39.4	50.7		55.6	37.5	46.6	76	25	32	34		75	58		.181	.204		2.39	.97	1.5	6.2	5.4		5.7
May	29.06	29.39	28.59	52.4	63.8		69.0	49.0	59.0	96	38	44	43		74	51		.291	.289		2.11	.63	.0	6.9	5.8		5.9
June	28.98	29.28	28.56	65.4	77.6		82.3	62.0	72.2	93	54	58	57		78	50		.495	.474		2.20	.76	.0	5.4	6.0		5.2
July	29.01	29.34	28.63	67.1	80.4		85.4	63.8	74.6	100	51	59	59		75	49		.506	.509		3.86	1.79	.0	3.7	3.3		3.5
August	29.04	29.35	28.63	64.7	78.0		82.5	62.0	72.2	93	52	58	59		80	54		.495	.537		2.76	1.08	.0	5.5	4.5		4.9
September	29.17	29.57	28.60	51.2	67.4		72.7	49.2	61.0	83	36	47	50		85	56		.329	.377		.72	.30	.0	2.0	4.1		3.3
October	29.04	29.41	28.50	40.9	50.2		54.8	38.1	46.4	83	29	36	38		83	63		.223	.235		1.08	.39	3.4	6.7	7.6		7.1
November	29.15	29.83	28.48	26.5	34.6		39.1	22.0	30.6	63	−3	23	24		85	70		.131	.147		2.29	1.51	1.8	5.8	6.4		6.4
December	29.11	29.68	28.40	12.4	19.9		25.7	7.5	16.6	51	−18	10	14		92	78		.079	.094		1.80	1.20	16.0	3.6	5.5		5.3
Year	29.07	29.84	28.07	39.0	49.3		54.3	35.5	44.9	100	−18	34	36		83	63		.250	.265		23.56	1.79	72.0	5.3	5.8		5.6

SALT LAKE CITY, UTAH

[ϕ=40°46′ N.; λ=111°54′ W.]

January	25.65	26.07	24.75	21.8	26.6	26.2	30.2	17.6	23.9	45	1	16	18	19	78	68	73	0.092	0.097	0.103	1.27	0.35	18.7	6.3	6.8	7.5	6.9
February	25.64	25.11	25.14	31.0	35.3	34.8	39.3	26.5	32.9	54	14	24	25	26	74	66	69	.129	.138	.141	.99	.64	3.6	6.6	6.0	5.8	6.2
March	25.64	26.02	25.22	35.8	43.3	44.8	47.2	32.6	39.9	67	17	26	26	26	67	50	48	.143	.141	.143	1.51	.40	5.0	6.5	7.2	7.3	7.5
April	25.55	25.88	24.98	43.5	53.8	56.6	60.4	40.5	50.4	76	30	29	27	26	59	40	34	.163	.150	.139	2.04	.74	4.3	5.3	5.4	6.0	5.7
May	25.55	25.86	25.18	52.1	66.4	67.0	70.6	48.9	59.8	84	36	34	32	32	52	30	29	.194	.183	.184	.78	.38	T	3.0	4.0	5.7	4.4
June	25.56	25.77	25.29	59.4	74.2	75.9	78.9	56.8	67.8	95	40	40	40	38	52	32	29	.248	.248	.233	1.41	1.08	.0	4.2	3.2	3.7	3.7
July	25.60	25.87	25.30	67.6	83.4	84.9	88.2	65.2	76.7	95	94	44	44	40	45	26	23	.301	.291	.257	.52	.28	.0	4.0	2.8	3.1	3.3
August	25.57	25.80	25.22	66.3	82.5	84.8	87.4	63.3	75.4	97	42	40	40	38	40	24	22	.257	.260	.239	2.70	1.30	.0	2.8	3.3	3.1	2.9
September	25.69	25.87	25.40	56.7	75.7	77.7	79.3	54.3	66.8	92	48	35	35	32	45	24	21	.207	.209	.185	T	T	.0	1.2	1.5	2.6	1.7
October	25.67	25.99	25.25	44.9	57.8	57.5	61.1	41.1	51.1	78	28	29	29	29	54	34	35	.166	.162	.161	1.06	.92	T	2.4	3.7	3.3	3.1
November	25.77	26.01	25.30	40.3	50.5	48.5	54.2	35.7	45.0	67	26	24	25	28	54	39	46	.131	.137	.153	.79	.37	T	3.9	5.1	5.4	5.1
December	25.67	26.03	25.19	20.3	28.0	26.2	30.8	15.5	23.2	58	−8	13	14	16	71	56	64	.082	.086	.091	1.81	.60	25.4	5.0	5.5	5.2	5.4
Year	25.63	26.11	24.75	45.0	56.5	57.1	60.6	41.5	51.1	97	−8	30	30	29	58	41	41	.176	.175	.169	14.88	1.30	57.0	4.3	4.5	4.9	4.7

SAN ANTONIO, TEX.

[ϕ=29°27′ N.; λ=98°28′ W.]

January	29.32	29.79	28.81	50.3	59.0	59.4	64.3	46.4	55.4	77	33	44	48	48	80	68	68	0.314	0.363	0.364	3.30	1.64	0.0	5.4	7.0	5.8	6.3
February	29.26	29.75	28.95	57.1	64.8	67.6	71.8	54.2	63.0	88	38	51	63	54	83	67	66	.402	.416	.438	1.86	1.39	0	6.0	6.3	6.0	6.2
March	29.27	29.81	28.73	49.5	61.8	64.0	68.5	46.2	57.4	88	24	43	46	48	79	58	58	.307	.341	.388	1.06	.99	T	5.0	4.7	4.8	4.8
April	29.20	29.64	28.90	61.4	74.2	77.3	81.0	59.9	70.4	92	50	55	54	54	81	53	50	.460	.445	.460	2.61	1.51	0	5.8	4.7	4.1	4.9
May	29.22	29.44	28.93	67.0	80.1	81.7	84.9	66.0	75.4	92	58	62	61	62	83	64	53	.555	.547	.560	2.10	1.01	0	4.1	4.5	3.8	4.0
June	29.14	29.36	28.97	73.6	85.4	88.9	92.4	72.0	82.2	99	61	70	67	68	87	56	51	.723	.673	.678	1.94	1.01	0	5.8	4.1	3.5	4.0
July	29.22	29.46	28.88	75.5	88.5	91.2	96.0	74.5	85.2	105	70	71	69	67	86	54	49	.755	.703	.670	5.52	4.41	0	4.5	3.8	4.5	3.9
August	29.18	29.35	29.02	75.0	88.2	88.9	94.0	74.2	84.1	101	68	71	68	67	89	53	52	.767	.690	.669	6.71	4.06	0	5.8	4.3	5.1	4.9
September	29.24	29.41	29.02	70.5	81.0	80.5	85.4	69.2	77.3	98	62	66	66	65	87	62	62	.655	.647	.625	8.77	5.28	0	5.6	5.9	6.2	5.7
October	29.27	29.62	28.99	61.0	74.1	74.5	80.2	58.2	69.2	87	42	53	55	53	77	52	48	.434	.452	.422	.60	.38	0	3.1	2.7	2.2	2.6
November	29.43	29.76	28.98	48.8	63.4	63.3	69.5	46.1	57.8	83	28	39	43	38	70	50	42	.262	.303	.259	.10	.05	0	1.9	2.7	2.6	2.6
December	29.36	29.94	28.88	45.1	53.7	53.2	58.4	42.1	50.2	76	24	41	46	45	87	76	76	.286	.335	.318	1.01	.37	0	6.5	7.4	6.2	7.2
Year	29.26	29.94	28.73	61.2	72.8	74.2	78.9	59.1	69.0	105	24	56	57	56	82	59	56	.493	.493	.486	35.57	5.28	T	5.0	4.8	4.6	4.7

Annual meteorological summaries for the year ending December 31, 1932—Continued

ST. LOUIS, MO.

[H_b=568 ft.; h_t=265 ft.; h_r=258 ft.; h_a=303 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: Number of winds, 8 a.m. and 8 p.m.: Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		Mi.																										
January	12.3	S.	31	SE.	0	5	5	4	5	12	11	8	12	0	9	5	17	12	10	2	1	0	2	2	3	0	17	2	0
February	11.8	SW.	35	SW.	3	6	3	8	3	8	11	6	12	1	9	9	11	6	4	2	0	0	2	2	0	0	12	1	0
March	13.3	NW.	41	SW.	3	9	8	3	5	4	6	6	21	0	9	12	10	9	7	9	2	1	3	2	0	0	14	2	0
April	12.2	S.	40	SW.	2	10	7	12	7	10	5	4	5	0	11	13	6	7	4	0	0	0	0	0	0	0	0	2	0
May	12.1	SW.	32	SW.	1	4	5	11	3	16	10	2	11	0	18	8	5	8	5	0	0	0	0	0	0	0	4	1	1
June	8.6	S.	35	SW.	3	6	3	14	3	13	12	7	1	1	10	15	5	13	10	0	0	0	1	0	0	0	11	0	0
July	10.1	W.	42	SW.	3	5	6	9	4	8	10	11	9	0	18	10	3	9	7	0	0	0	0	0	0	20	0	9	0
August	8.9	S.	33	NW.	1	6	4	18	4	8	11	8	2	1	17	10	4	12	9	0	0	0	2	0	0	9	0	11	0
September	9.3	NE.	38	S.	1	14	9	10	2	11	4	2	4	4	16	9	5	10	8	0	0	0	3	1	0	1	0	4	0
October	12.7	S.	32	SW.	1	4	4	5	0	16	9	12	12	0	20	4	7	7	6	0	0	0	5	1	0	0	0	2	0
November	11.8	S.	31	SW.	0	9	6	4	3	14	6	10	8	0	12	9	9	5	4	4	1	0	2	1	0	0	16	2	0
December	12.8	S.	38	SW.	3	4	8	1	2	19	12	6	10	0	9	8	14	11	7	7	4	0	3	3	10	0	18	1	0
Year	11.3	S.	42	SW.	21	82	68	99	41	139	107	82	107	7	158	112	96	109	81	24	8	1	27	12	20	39	77	51	1

ST. PAUL, MINN.

[H_b=837 ft.; h_t=114 ft.; h_r=107 ft.; h_a=149 ft.]

January	9.2	SW.	29	SW.	0	2	4	1	3	6	8	1	6	0	5	5	21	13	9	19	13	0	6	0	22	0	30	0	0
February	9.4	NW.	30	NW.	0	2	4	1	3	4	4	2	8	1	7	12	10	9	6	10	9	0	6	2	15	0	25	0	0
March	10.4	NW.	27	NW.	0	6	1	1	5	3	0	2	13	0	6	12	13	13	5	17	12	0	3	0	17	0	29	0	0
April	9.0	SE.	23	N.	0	2	3	2	15	0	3	1	4	0	8	11	11	9	7	4	2	0	4	0	0	0	8	4	0
May	9.4	SW.	27	SW.	0	4	4	0	9	2	8	0	4	0	11	6	14	16	10	0	0	0	4	0	1	0	3	1	0
June	7.5	SE.	32	NW.	1	1	4	1	11	4	5	0	4	0	10	11	9	10	7	0	0	0	1	0	2	0	9	0	0
July	8.9	SW.	27	NW.	0	3	2	2	6	2	9	0	7	0	17	12	2	6	5	0	0	0	0	0	0	11	0	6	0
August	8.4	SW.	25	NW.	0	2	1	0	11	3	8	0	5	1	13	10	8	7	7	0	0	0	4	0	0	7	0	5	1
September	8.5	SW.	25	N.	0	2	0	0	11	2	6	2	7	0	18	8	4	6	5	0	0	0	5	0	0	0	0	4	1
October	9.2	SE.	28	SW.	0	4	4	0	8	2	6	2	5	0	6	6	19	9	6	6	4	0	9	1	0	0	8	2	2
November	9.8	SW.	24	NW.	0	3	3	0	7	5	5	2	5	0	6	8	16	9	6	8	4	0	5	0	9	0	21	0	0
December	8.8	SW.	24	NW.	0	4	0	1	5	2	8	5	6	9	12	6	13	9	6	13	9	0	7	2	16	0	30	0	0
Year	9.0	SW.	32	NW.	1	35	30	9	94	35	70	17	74	2	119	107	140	116	79	77	53	0	54	5	79	21	151	33	5

SALT LAKE CITY, UTAH

[H_b=4,360 ft.; h_t=86 ft.; h_r=74 ft.; h_a=210 ft.]

January	6.0	NW.	30	S.	0	7	3	7	7	16	0	3	19	0	5	9	17	14	10	18	14	0	1	1	18	0	30	0	0
February	7.1	NW.	35	NW.	1	3	2	2	8	12	1	6	25	0	9	6	14	11	4	15	7	0	0	0	8	0	23	1	0
March	7.4	NW.	32	NW.	1	6	8	5	6	10	1	4	22	0	2	11	18	14	11	9	6	0	0	0	1	0	12	0	0
April	8.3	NW.	32	SW.	1	9	4	8	12	8	0	3	15	1	7	14	9	9	7	7	3	0	0	0	0	0	1	1	0
May	8.7	NW.	33	SE.	2	6	5	4	9	7	5	5	18	3	14	9	8	6	3	1	0	1	0	0	0	0	0	3	0
June	7.8	NW.	44	SW.	3	9	6	7	11	4	0	5	13	5	15	11	4	8	5	0	0	0	1	0	0	9	0	7	0
July	8.4	S.	37	SW.	1	11	2	9	15	10	1	2	11	1	17	8	6	7	4	0	0	0	0	0	0	12	0	8	0
August	8.0	SE.	41	W.	2	7	3	5	15	8	2	4	15	3	17	12	2	5	5	0	0	0	1	0	0	16	0	7	0
September	6.6	SE.	29	SW.	0	7	3	4	11	12	0	5	15	3	24	5	1	0	0	0	0	0	0	0	0	1	0	0	0
October	7.4	NW.	31	NW.	0	6	3	5	11	8	1	5	21	2	19	7	5	3	3	1	0	0	0	0	0	0	5	1	0
November	6.4	NW.	28	SE.	0	9	2	6	13	7	2	5	14	2	11	10	9	5	5	1	0	0	1	0	0	0	8	0	0
December	5.8	NW.	38	NW.	1	9	6	3	11	7	1	6	19	0	10	9	12	12	11	16	12	0	0	0	0	0	28	0	0
Year	7.3	NW.	44	SW.	12	88	47	65	129	109	14	53	207	20	150	111	105	94	68	68	42	3	2	1	44	38	107	28	0

SAN ANTONIO, TEX.

[H_b=693 ft.; h_t=242 ft.; h_r=235 ft.; h_a=301 ft.]

January	11.8	N.	37	NW.	1	13	9	12	8	6	2	5	7	0	8	8	15	15	8	0	0	0	16	4	0	0	0	1	0
February	10.9	N.	35	NW.	1	17	9	6	7	8	2	4	5	0	8	10	11	7	5	0	0	0	12	5	0	0	0	2	0
March	12.9	N.	44	N.	5	15	10	6	11	7	3	3	7	0	13	11	7	4	2	2	0	0	1	1	0	0	6	2	0
April	13.2	SE.	35	NW.	2	5	4	18	17	7	2	2	5	0	9	14	7	7	6	0	0	0	11	1	0	0	2	0	0
May	12.3	SE.	56	SE.	4	8	13	15	21	3	0	1	0	1	14	12	5	6	5	0	0	0	1	2	1	0	9	0	0
June	13.4	SE.	49	NW.	6	2	4	26	22	4	0	0	0	2	13	16	1	6	6	0	0	0	0	0	0	0	8	0	0
July	11.0	SE.	43	S.	1	0	0	22	18	13	1	6	0	2	14	15	2	5	5	0	0	0	0	0	0	29	0	7	0
August	11.0	SE.	43	SE.	5	6	5	22	17	9	0	3	0	0	11	15	5	10	8	0	0	0	0	0	0	22	0	5	0
September	10.1	NE.	30	NE.	0	16	17	16	4	3	0	3	1	0	10	9	11	12	11	0	0	0	3	0	0	7	0	8	0
October	11.1	S.	31	N.	0	14	6	7	14	7	8	2	4	0	17	13	1	3	3	0	0	0	8	3	0	0	0	0	0
November	12.0	N.	40	N.	2	14	11	10	4	9	3	6	3	0	19	8	3	3	2	0	0	0	6	3	0	0	0	1	0
December	11.9	N.	38	W.	2	12	16	11	8	6	1	5	3	0	6	5	20	14	6	0	0	0	15	6	0	0	6	1	0
Year	11.8	SE.	56	SE.	29	122	104	171	151	82	22	40	35	5	142	136	88	92	67	2	0	2	74	23	0	89	13	41	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

SAN DIEGO, CALIF.

[ϕ=32°43′ N.; λ=117°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.02	30.26	29.66	46.6	56.5	56.7	60.6	43.8	52.2	71	35	39	43	44	75	59	65	0.241	0.286	0.299	1.45	1.05	0.0	3.0	4.9	4.4	4.2
February	29.92	30.17	29.61	50.7	59.5	58.6	62.5	48.6	55.6	78	37	44	46	46	78	64	66	.290	.318	.322	5.15	1.68	.0	5.7	5.7	6.2	5.7
March	29.94	30.13	29.71	54.0	63.7	62.9	66.5	51.5	59.0	77	44	46	49	50	76	60	65	.316	.348	.360	.42	.42	.0	5.2	3.4	3.6	3.9
April	29.88	30.03	29.58	54.7	64.3	63.7	67.3	53.1	60.2	83	47	48	49	49	79	61	62	.336	.356	.356	.50	.22	.0	6.6	4.2	4.5	4.8
May	29.87	30.00	29.75	57.5	64.6	63.9	67.0	56.6	61.8	82	47	52	55	54	82	70	72	.393	.430	.423	.01	.01	.0	5.2	2.5	4.2	5.0
June	29.79	30.00	29.58	60.4	65.8	65.4	68.3	59.3	63.8	79	55	56	57	57	86	73	73	.449	.465	.460	.01	.01	.0	9.6	2.7	2.9	4.7
July	29.81	29.97	29.65	62.1	68.0	67.3	70.2	61.1	65.6	74	58	58	59	59	88	74	74	.489	.504	.496	T	T	.0	9.7	2.6	3.2	4.7
August	29.77	29.88	29.58	62.3	68.5	68.0	71.0	61.1	66.0	77	58	58	59	59	86	72	74	.484	.500	.502	.00	.00	.0	9.4	2.9	3.5	5.2
September	29.81	29.97	29.58	62.4	64.8	67.1	69.9	61.3	65.6	74	58	58	59	59	87	74	75	.491	.504	.500	.00	.00	.0	9.4	3.2	2.6	5.2
October	29.85	30.05	29.66	58.9	67.2	65.0	69.5	56.8	63.2	79	50	50	53	54	77	65	72	.386	.419	.435	1.10	1.05	.0	5.5	4.3	5.2	5.2
November	29.93	30.11	29.77	57.0	71.2	67.1	73.7	54.6	64.2	87	49	43	48	52	66	50	63	.296	.349	.398	.30	.30	.0	3.4	3.4	3.4	3.5
December	29.98	30.30	29.43	49.0	60.5	57.4	62.1	46.4	54.2	73	39	39	42	44	69	52	64	.244	.271	.300	2.40	.92	.0	3.7	3.9	4.3	4.0
Year	29.88	30.30	29.43	56.3	64.7	63.6	67.4	54.5	61.0	87	35	49	52	52	79	64	69	.368	.396	.404	11.34	1.68	.0	6.6	3.6	4.0	4.7

SANDUSKY, OHIO

[ϕ=41°25′ N.; λ=82°40′ W.]

January	29.39	30.00	28.79	37.2	40.9		45.5	32.6	39.0	69	13	32	33		81	74		0.193	0.200		4.07	0.70	T	8.5	7.9		8.2
February	29.30	30.02	28.61	32.8	38.2		43.0	28.9	36.0	69	14	28	27		80	64		.160	.159		1.06	.29	3.5	7.7	7.1		7.5
March	29.23	29.71	28.41	27.9	35.1		38.4	24.8	31.6	65	5	22	23		78	60		.127	.129		3.62	1.78	4.9	7.1	7.8		7.6
April	29.31	29.82	28.88	41.5	48.1		52.5	37.6	44.8	75	26	33	34		73	61		.195	.196		2.52	.72	3.8	6.4	6.4		6.3
May	29.37	29.79	29.04	58.4	66.8		70.5	49.7	60.1	88	37	47	48		68	55		.345	.365		2.73	.61	.0	5.1	4.5		5.0
June	29.26	29.51	28.97	69.1	76.3		80.0	61.6	70.8	91	50	59	59		72	57		.521	.524		1.18	.46	.0	5.0	4.3		5.0
July	29.25	29.53	28.72	71.8	78.9		83.7	64.0	73.8	106	54	61	61		69	56		.542	.545		3.78	1.05	.0	5.1	5.6		4.9
August	29.33	29.63	29.04	70.2	79.9		83.9	63.6	73.8	97	52	59	60		69	51		.511	.523		1.83	.96	.0	4.0	4.9		4.6
September	29.42	29.72	28.92	68.0	72.7		75.3	57.4	66.4	92	42	54	53		73	53		.433	.430		2.18	1.32	.0	3.8	5.1		4.6
October	29.30	29.65	28.91	49.9	59.3		63.1	45.8	54.4	80	34	43	45		78	62		.293	.316		4.31	1.22	.0	7.2	7.0		7.4
November	29.50	30.14	28.95	34.2	42.0		45.6	31.5	38.5	63	17	29	32		80	67		.166	.190		2.54	1.12	2.3	6.9	6.4		6.9
December	29.43	29.99	28.87	29.3	35.8		40.0	23.5	31.8	63	−4	25	27		82	69		.151	.159		3.21	1.35	4.5	6.7	6.8		6.7
Year	29.34	30.14	28.41	48.8	56.2		60.1	43.4	51.8	106	−4	41	42		75	61		.303	.311		33.03	1.78	19.0	6.1	6.2		6.2

SANDY HOOK, N.J.

[ϕ=40°28′ N.; λ=74°01′ W.]

January	30.10	30.60	29.46	42.4	44.5	43.5	48.3	38.2	43.2	66	23	36	36	37	80	73	79	0.225	0.224	0.231	3.43	0.76	T	7.5	7.5	6.7	7.5
February	29.98	30.59	29.37	33.4	37.9	37.5	42.2	30.7	36.4	53	21	28	29	31	81	71	76	.163	.168	.176	1.61	.62	1.3	5.8	5.3	3.4	5.5
March	29.76	30.35	28.42	34.6	39.0	37.5	43.5	31.4	37.4	62	16	27	27	29	73	62	72	.158	.156	.171	5.66	2.49	.1	4.6	6.1	3.9	5.5
April	29.91	30.42	29.27	45.1	51.9	48.3	55.2	41.0	48.1	71	35	36	36	38	70	56	68	.215	.216	.233	2.27	.96	T	4.4	5.4	3.9	4.9
May	30.01	30.40	29.67	57.7	64.3	59.8	66.7	52.8	59.8	85	44	49	47	50	73	58	70	.355	.344	.365	2.79	1.40	.0	5.4	4.4	3.4	4.9
June	29.87	30.25	29.43	66.3	73.2	68.5	76.0	61.2	68.6	87	50	58	57	60	76	61	75	.499	.491	.523	3.55	1.47	.0	5.7	4.8	5.2	5.5
July	29.82	25.07	29.31	71.3	78.6	74.1	81.7	67.1	74.4	88	62	62	61	63	73	57	70	.550	.548	.587	.93	.41	.0	3.7	3.5	4.7	4.1
August	29.96	30.29	29.70	72.2	79.1	74.3	81.7	68.8	75.2	89	64	64	62	66	76	58	75	.599	.574	.631	1.00	.37	.0	3.5	3.5	3.7	3.7
September	30.03	30.47	29.47	64.7	71.2	68.0	74.4	61.9	68.2	87	45	57	56	58	76	61	72	.484	.485	.504	2.28	1.05	.0	4.0	4.2	4.0	4.9
October	30.01	30.40	29.50	55.7	61.1	58.6	63.5	52.4	58.0	76	43	49	49	50	78	66	76	.366	.370	.377	4.05	2.54	.0	5.6	5.5	4.6	5.5
November	30.16	30.79	29.39	42.8	46.8	45.2	50.2	38.4	44.3	61	17	26	37	37	73	69	72	.232	.239	.235	5.58	1.44	T	4.6	5.2	3.2	5.4
December	30.14	30.61	29.44	35.7	39.7	38.6	44.2	32.5	38.4	60	14	30	32	32	80	74	79	.177	.191	.196	3.01	.86	10.2	6.0	5.3	6.2	6.1
Year	29.98	30.79	28.42	51.8	57.3	54.5	60.6	48.0	54.3	89	14	44	44	46	76	64	74	.336	.334	.352	36.10	2.54	11.6	5.1	5.1	4.4	5.3

SAN FRANCISCO, CALIF.

[ϕ=37°48′ N.; λ=122°26′ W.]

January	29.99	30.32	29.41	46.7	51.2	51.9	54.7	43.9	49.3	68	38	40	40	41	80	66	68	0.253	0.248	0.261	3.23	1.23	0.0	3.4	5.1	5.0	5.6
February	29.86	30.16	29.38	46.8	53.2	55.3	58.2	44.6	51.4	75	35	39	38	40	76	60	59	.248	.245	.259	3.00	1.23	T	3.7	4.4	4.4	4.6
March	29.94	30.17	29.58	51.5	60.4	60.2	64.5	49.7	57.1	77	45	46	44	45	81	58	60	.310	.294	.304	.86	.62	.0	4.5	5.5	4.8	5.2
April	29.88	30.08	29.57	50.7	60.0	57.8	62.6	49.3	56.0	79	45	44	43	44	78	55	62	.286	.280	.296	.47	.24	.0	3.5	5.4	5.0	5.1
May	29.82	30.09	29.57	53.4	61.8	59.5	64.7	52.1	58.4	84	50	48	47	48	82	61	67	.332	.326	.334	.65	.44	.0	6.0	4.5	4.6	5.4
June	29.72	29.97	29.47	53.4	63.7	61.3	66.1	52.2	59.2	82	49	49	49	50	86	61	67	.346	.352	.360	.03	.03	.0	6.1	3.4	2.7	4.0
July	29.77	30.00	29.53	54.5	63.8	61.5	66.5	52.9	59.7	74	50	51	52	52	89	66	72	.377	.388	.389	T	T	.0	6.4	2.2	2.9	4.1
August	29.71	29.85	29.44	55.2	65.8	63.1	68.1	53.8	61.0	86	51	52	53	53	91	65	71	.389	.401	.404	.00	.00	.0	5.7	2.9	2.9	3.6
September	29.75	29.95	29.51	56.5	67.6	63.7	70.7	55.2	63.0	100	52	53	54	54	90	64	72	.407	.412	.412	.00	.00	.0	6.6	1.6	2.6	4.1
October	29.86	30.08	29.55	56.5	66.9	63.2	69.4	54.9	62.2	80	51	48	47	48	78	52	62	.346	.334	.344	.01	.01	.0	4.9	3.9	3.1	3.8
November	29.94	30.16	29.71	55.3	64.2	63.9	68.2	53.1	60.6	82	49	48	45	46	79	53	55	.337	.307	.314	1.09	.61	.0	4.5	4.3	3.9	4.3
December	29.98	30.43	29.55	43.9	49.7	50.3	53.0	41.9	47.4	65	27	37	37	37	78	64	64	.233	.228	.234	2.73	1.07	.8	3.5	5.5	5.0	4.9
Year	29.85	30.43	29.38	52.0	60.7	59.3	63.9	50.3	57.1	100	27	46	45	46	82	60	65	.322	.318	.326	12.00	1.23	.8	4.9	4.0	3.9	4.6

Annual meteorological summaries for the year ending December 31, 1932—Continued

SAN DIEGO, CALIF.

[H_b=87 ft.; h_t=62 ft.; h_r=55 ft.; h_a=70 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32°: or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	6.1	NW.	23	W.	0	0	8	9	8	2	8	6	19	2	15	8	8	8	6	0	0	1	4	0	0	0	0	0	0
February	7.2	S.	28	SW.	0	1	8	9	6	10	7	8	9	0	9	7	13	12	9	0	0	1	2	2	0	0	0	0	0
March	6.2	W.	21	W.	0	3	6	8	4	4	7	19	9	2	16	10	5	2	2	0	0	0	3	1	0	0	0	0	0
April	7.4	NW.	27	W.	0	5	1	11	1	3	7	15	17	0	10	13	7	4	4	0	0	1	4	1	0	0	0	0	0
May	7.0	W.	18	NW.	0	3	4	8	3	4	12	19	9	0	10	11	10	1	0	0	0	0	2	0	0	0	0	0	0
June	7.1	W.	17	NW.	0	8	3	1	2	5	10	21	9	1	10	16	4	1	0	0	0	0	6	1	0	0	0	0	0
July	6.8	SW.	16	NW.	0	5	1	1	1	4	19	20	11	0	10	17	4	0	0	0	0	0	0	0	0	0	0	0	0
August	7.0	NW.	18	S.	0	8	3	2	0	6	6	21	16	0	11	12	8	0	0	0	0	0	8	1	0	0	0	0	0
September	6.5	NW.	17	NW.	0	11	4	2	1	3	9	18	12	0	7	19	4	0	0	0	0	0	8	0	0	0	0	0	0
October	5.8	NW.	17	S.	0	6	3	10	0	4	6	9	24	0	11	11	9	2	2	0	0	0	10	6	0	0	0	1	0
November	4.9	NW.	16	NW.	0	8	1	10	5	4	2	5	22	3	18	6	6	1	1	0	0	0	4	3	0	0	0	0	0
December	6.3	E.	25	W.	0	7	2	15	3	1	6	9	19	0	17	6	8	9	7	0	0	1	0	0	0	0	0	0	0
Year	6.5	W.	28	SW.	0	65	44	86	34	50	99	170	176	8	144	136	86	40	31	0	0	4	51	15	0	0	0	2	0

SANDUSKY, OHIO

[H_b=629 ft.; h_t=5 ft.; h_r=3 ft.; h_a=67 ft.]

January	11.2	SW.	32	SW.	1	0	2	2	1	6	15	4	1	0	2	8	21	17	14	6	2	0	2	0	1	0	13	0	0
February	10.5	SW.	35	SW.	2	4	1	2	3	4	8	6	1	0	3	8	18	13	7	7	4	0	3	0	4	0	21	0	0
March	11.6	W.	30	SW.	0	2	5	2	0	3	9	4	6	0	0	12	19	13	8	14	7	0	2	0	9	0	23	2	0
April	10.5	E.	29	SW.	0	4	6	6	2	2	4	3	3	0	8	7	15	11	8	3	3	0	2	1	0	0	7	1	0
May	8.8	SW.	31	W.	0	2	2	2	4	8	9	3	1	0	11	13	7	13	9	0	0	0	3	0	0	0	8	1	0
June	7.3	NE.	26	SW.	0	3	3	4	2	3	7	6	2	0	8	15	7	5	5	0	0	0	0	0	2	0	3	0	0
July	7.9	SW.	27	NW.	0	3	4	0	0	1	16	4	3	0	8	17	6	11	10	0	0	0	1	0	7	0	6	0	0
August	7.3	SW.	18	NW.	0	1	1	2	4	7	14	0	2	0	11	15	5	8	5	0	0	0	0	0	5	0	4	0	0
September	8.3	SW.	21	W.	0	6	5	1	3	5	7	2	1	0	14	8	8	7	7	0	0	0	0	0	1	0	2	0	0
October	10.0	SW.	27	SW.	0	0	1	3	3	10	8	5	1	0	4	10	17	12	8	0	0	0	2	0	0	0	1	0	0
November	10.0	SW.	23	SW.	0	1	2	2	3	5	10	6	1	0	5	6	19	9	8	7	4	0	1	0	1	0	18	0	0
December	10.7	SW.	34	SW.	1	0	0	1	5	7	14	1	3	0	5	9	17	11	8	10	5	0	8	0	11	0	24	0	0
Year	9.5	SW.	35	SW.	4	26	32	27	30	61	121	44	25	0	79	128	159	130	97	47	25	4	20	1	26	15	106	27	1

SANDY HOOK, N.J.

[H_b=22 ft.; h_t=10 ft.; h_r=3 ft.; h_a=55 ft.]

January	16.3	W.	43	W.	12	5	6	4	8	4	13	11	10	1	4	5	22	16	11	2	2	0	10	7	0	0	1	0	0
February	14.6	NW.	44	NW.	7	10	5	4	2	7	6	12	12	0	9	10	10	10	8	6	3	0	13	4	1	0	16	0	0
March	19.9	NW.	53	NE.	17	5	4	4	0	7	7	10	25	0	8	12	11	10	9	7	1	0	6	2	3	0	13	0	0
April	16.0	NW.	45	N.	11	11	4	7	3	5	10	10	10	0	11	11	8	9	5	2	0	0	4	2	0	0	0	2	0
May	13.4	SW.	41	SW.	2	5	3	13	4	6	13	12	6	0	9	13	9	9	9	0	0	0	8	0	0	0	0	5	0
June	11.4	W.	40	W.	2	7	5	5	1	5	12	19	13	0	14	13	4	8	5	0	0	0	4	0	0	0	0	4	0
July	12.6	W.	37	S.	3	8	3	1	1	5	12	19	13	0	14	13	4	8	5	0	0	0	4	0	0	0	0	6	0
August	11.5	SW.	42	S.	2	9	3	3	0	16	14	6	11	0	17	11	3	8	5	0	0	0	15	1	0	0	0	4	0
September	14.4	SW.	44	NE.	6	12	10	3	3	5	18	4	5	0	12	9	9	7	5	0	0	0	9	0	0	0	0	3	0
October	15.2	W.	41	NW.	6	4	5	6	5	9	15	8	10	0	14	4	13	10	6	0	0	0	9	2	0	0	0	0	0
November	16.5	NE.	56	SW.	6	8	14	4	4	1	12	4	13	0	12	5	13	11	10	1	0	0	13	3	1	0	6	0	0
December	13.7	W.	38	NW.	2	6	10	3	3	2	13	21	4	0	9	8	14	15	9	4	3	0	19	4	4	0	15	0	0
Year	14.6	W.	56	SW.	76	90	72	57	38	76	144	127	127	1	129	110	127	121	90	22	9	0	122	25	9	0	51	24	0

SAN FRANCISCO, CALIF.

[H_b=155 ft.; h_t=208 ft.; h_r=202 ft.; h_a=243 ft.]

January	6.8	NW.	26	SE.	0	10	4	4	8	6	5	7	18	0	7	14	10	14	12	0	0	1	3	1	0	0	0	2	0
February	6.6	N.	40	N.	1	11	5	2	7	1	3	14	15	0	13	8	8	7	6	1	0	1	7	1	0	0	0	0	0
March	6.4	W.	32	NW.	1	5	4	4	4	8	5	26	5	1	10	11	10	6	3	0	0	0	1	1	0	0	0	1	0
April	8.5	W.	29	W.	0	2	2	1	2	3	9	37	4	0	10	12	8	8	5	0	0	0	0	0	0	0	0	0	0
May	7.8	SW.	24	NW.	0	0	1	0	1	8	23	27	2	0	9	12	10	6	5	0	0	0	0	0	0	0	0	0	0
June	8.2	SW.	26	NW.	0	0	0	1	1	4	27	24	2	1	14	13	3	1	0	0	0	0	0	0	0	0	0	0	0
July	8.5	SW.	25	W.	0	0	0	0	2	6	28	24	1	1	12	16	3	0	0	0	0	0	3	0	0	0	0	0	0
August	8.1	SW.	27	W.	0	0	0	0	0	4	32	24	2	0	16	10	5	0	0	0	0	0	1	0	0	0	0	0	0
September	6.7	SW.	25	SW.	0	1	0	0	0	6	35	15	1	2	10	17	3	0	0	0	0	0	1	0	0	0	0	0	0
October	6.9	W.	26	NE.	0	8	5	0	0	7	21	19	2	0	16	8	7	1	0	0	0	0	3	1	0	0	0	1	0
November	5.5	W.	24	S.	0	6	6	0	11	3	4	20	10	0	15	7	8	7	4	0	0	0	3	1	0	0	2	1	0
December	6.0	N.	26	NW.	0	16	7	3	9	3	2	6	16	0	11	11	9	9	6	3	2	1	3	1	0	0	0	0	0
Year	7.2	SW.	40	N.	2	59	34	15	45	59	194	243	78	5	143	139	84	59	41	4	2	3	25	6	0	1	2	5	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

SAN JOSE, CALIF.

[ϕ=37°20′ N.; λ=121°54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a.m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p.m.	Moisture: Relative humidity: 8 a.m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p.m.	Moisture: Vapor pressure: 8 a.m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p.m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.02	30.38	29.47	52.6	52.7	56.0	38.0	47.0	31	70	31	38	39	39	60	61	61	0.236	0.242	2.28	1.07	T		5.0	4.9	5.4
February	29.89	30.21	29.37	54.2	56.8	59.1	38.9	49.0	79	29		39	40		60	57		.253	.265	2.52	1.39	T		4.9	4.9	5.1
March	29.97	30.23	29.63	62.8	64.2	67.8	43.8	55.8	80	34		44	44		52	51		.290	.297	.45	.34	0.0		4.9	4.6	5.1
April	29.90	30.17	29.61	63.8	64.3	67.9	43.8	55.8	83	36		42	42		46	46		.271	.276	.20	.10	.0		5.0	4.4	5.2
May	29.85	30.10	29.59	69.4	68.2	72.8	50.1	61.4	91	45		48	49		47	52		.336	.353	.48	.40	.0		3.4	3.1	4.1
June	29.75	30.02	29.51	74.2	74.1	78.3	52.8	65.6	92	46		52	52		47	47		.387	.389	.00	.00	.0		1.0	.8	2.0
July	29.80	30.04	29.58	75.7	75.1	79.5	53.2	66.4	94	47		54	55		48	50		.421	.431	.00	.00	.0		.8	.6	1.4
August	29.74	29.88	29.45	76.3	77.2	80.8	52.7	66.8	95	47		53	54		46	46		.412	.421	T	T	.0		.0	.1	1.0
September	29.77	29.98	29.55	75.6	77.1	81.9	54.0	68.0	99	45		54	56		49	50		.420	.446	.00	.00	.0		.2	.3	2.2
October	29.88	30.12	29.61	68.8	68.1	73.7	48.8	61.2	83	39		44	47		46	50		.313	.338	T	T	.0		2.2	1.8	3.2
November	29.96	30.20	29.75	66.7	64.8	69.9	46.1	58.0	84	35		46	48		50	57		.316	.341	.36	.28	.0		3.6	4.2	4.2
December	30.02	30.48	29.55	50.9	50.3	54.4	34.4	44.4	70	20		36	36		59	62		.223	.229	2.02	.65	1.0		5.1	4.7	4.7
Year	29.88	30.48	29.37	65.9	66.1	70.2	46.4	58.3	99	20		46	47		51	52		.323	.336	8.31	1.39	1.0		3.0	2.9	3.6

SAN JUAN, P.R.

[ϕ=18°29′ N.; λ=66° 07′ W.]

January	29.93	30.08	29.67	74.4	78.5		79.8	70.4	75.1	83	66	69	71		84	78		0.710	0.765		6.27	2.08	0.0	5.0	4.3		5.1
February	29.94	30.11	29.72	73.3	78.4		79.9	68.7	74.3	89	63	66	68		79	71		.649	.688		1.01	.55	.0	3.8	2.9		3.6
March	29.89	30.04	29.70	75.9	79.8		81.9	71.2	76.6	89	67	69	71		80	74		.709	.752		1.08	.27	.0	3.9	3.9		4.5
April	29.86	30.00	29.66	79.1	80.7		83.0	72.7	77.8	91	68	70	71		74	73		.734	.757		5.92	2.70	.0	4.9	5.0		5.6
May	29.86	29.97	29.64	80.7	81.1		83.7	74.4	79.0	90	71	74	74		79	78		.826	.827		13.82	3.87	.0	5.6	6.0		6.1
June	29.90	30.00	29.81	82.8	83.8		85.6	76.0	80.8	92	71	75	74		76	74		.855	.854		8.98	2.20	.0	5.4	5.8		6.0
July	29.91	30.05	29.83	82.3	83.3		85.6	75.9	80.8	91	73	75	75		78	76		.860	.865		5.07	1.15	.0	4.5	5.8		5.8
August	29.86	29.94	29.74	83.2	84.4		86.5	76.7	81.6	92	73	76	76		77	76		.880	.891		4.60	1.33	.0	4.4	4.8		5.4
September	29.82	29.92	28.87	82.4	85.2		87.4	76.6	82.0	92	74	75	76		78	74		.867	.882		6.54	3.40	.0	4.9	5.5		5.7
October	29.81	29.95	29.70	81.1	84.6		86.1	75.5	80.8	90	72	75	76		81	75		.860	.883		7.45	1.92	.0	4.5	5.4		5.5
November	29.81	29.91	29.70	79.2	83.2		84.2	74.2	79.2	90	71	73	74		81	74		.806	.828		5.84	2.12	.0	5.5	5.6		5.9
December	29.89	30.04	29.78	76.5	80.1		81.5	73.3	77.4	88	71	70	70		80	73		.727	.746		3.65	.81	.0	5.7	5.1		5.5
Year	29.87	30.11	28.87	79.2	81.9		83.8	73.8	78.8	92	65	72	73		79	75		.790	.812		70.23	3.87	.0	4.8	5.0		5.4

SANTA FE, N.MEX.

[ϕ=35°41′ N.; λ=105°57′ W.]

January	23.14	23.58	22.75	17.5	29.5	26.6	33.1	12.7	22.9	46	0	12	16	15	76	56	60	0.073	0.087	0.084	0.93	0.43	15.0	3.5	4.8	4.5	4.6
February	23.20	23.54	22.86	31.2	41.9	42.0	47.1	28.3	37.7	65	8	20	23	25	63	49	52	.111	.127	.134	.74	.30	2.6	4.7	5.3	5.3	5.2
March	23.14	23.47	22.66	28.4	42.6	43.4	47.8	25.6	36.7	64	12	19	20	20	68	41	41	.103	.105	.106	.41	.17	3.2	4.1	4.9	4.9	4.7
April	23.18	23.46	22.88	37.3	55.7	57.3	61.5	34.7	48.1	72	22	21	20	22	52	27	29	.109	.109	.121	1.28	.73	4.3	4.6	4.8	4.4	4.4
May	23.26	23.45	23.00	46.4	63.5	64.1	68.1	43.2	55.6	77	30	31	30	29	57	30	30	.182	.170	.166	1.27	.69	.0	2.2	3.5	5.7	3.9
June	23.26	23.44	23.06	54.4	71.1	74.0	76.9	49.9	63.4	86	38	36	35	31	52	29	23	.219	.213	.184	1.82	.91	.0	2.2	3.6	5.1	3.7
July	23.37	23.56	23.08	59.9	77.0	75.3	81.8	57.4	69.6	90	50	48	46	46	66	36	40	.335	.314	.313	2.07	.51	.0	3.8	4.8	7.6	5.2
August	23.34	23.53	23.14	58.6	75.8	74.0	79.7	56.6	68.2	88	48	48	46	44	70	37	38	.339	.320	.300	3.36	1.67	.0	4.2	4.5	6.1	5.1
September	23.37	23.55	23.16	49.7	68.6	67.8	73.4	46.0	60.7	82	42	36	36	34	62	35	36	.217	.215	.206	1.97	.88	.0	2.9	3.5	4.8	3.9
October	23.28	23.58	22.95	38.7	54.1	52.6	59.6	35.2	47.4	73	22	30	31	32	71	44	48	.166	.177	.186	.96	.43	3.0	3.9	4.7	3.0	4.0
November	23.33	23.59	23.05	29.8	48.1	42.8	52.7	27.3	40.0	62	14	16	17	18	53	28	36	.088	.094	.100	T	T	T	1.8	2.5	2.0	2.2
December	23.16	23.56	22.83	19.9	31.4	28.2	35.4	15.1	25.2	52	3	12	17	16	69	56	59	.074	.095	.088	.55	.30	9.6	3.6	4.4	3.3	3.9
Year	23.25	23.59	22.66	39.3	54.9	54.0	59.8	36.2	48.0	90	0	27	28	28	63	39	41	.168	.169	.166	15.36	1.67	37.7	3.5	4.3	4.7	4.2

SAULT STE. MARIE, MICH.

[ϕ=46°30′ N.; λ=84°21′ W.]

January	29.29	29.88	28.50	25.8	27.8	27.6	32.5	21.7	27.1	46	0	23	24	24	86	85	86	0.124	0.132	0.137	3.79	0.78	23.6	8.8	8.7	9.2	8.4
February	29.21	29.85	28.17	16.5	22.1	21.6	27.9	11.0	19.4	47	− 8	15	16	19	92	78	87	.092	.097	.106	2.65	.48	23.6	8.1	7.5	7.7	6.9
March	29.19	29.63	28.64	17.0	25.4	22.8	28.6	13.5	21.0	50	− 7	14	18	18	88	71	80	.086	.098	.097	1.44	.51	9.9	7.8	7.9	7.5	7.1
April	29.35	29.84	28.90	32.2	41.3	38.5	44.6	28.3	36.4	67	13	23	25	26	69	53	64	.130	.139	.145	1.16	.74	2.2	4.7	4.7	5.2	4.6
May	29.34	29.74	28.89	47.3	57.0	54.1	61.3	40.3	50.8	83	28	38	40	39	72	56	60	.237	.260	.251	2.68	.85	T	5.8	6.4	6.0	5.8
June	29.23	29.57	28.73	58.7	68.7	64.8	72.2	50.8	61.5	85	41	49	51	51	73	56	63	.364	.394	.385	1.41	.73	.0	4.3	4.2	4.4	4.1
July	29.20	29.54	28.58	60.2	67.7	64.0	70.7	52.9	61.8	86	45	54	54	53	81	63	69	.427	.427	.414	3.16	1.13	.9	4.8	5.6	4.0	4.5
August	29.26	29.65	28.98	62.1	72.8	66.5	75.4	55.6	65.5	88	44	57	58	57	83	61	72	.469	.491	.470	4.04	1.07	.0	5.6	6.1	5.0	5.0
September	29.37	29.75	28.97	53.9	64.1	58.3	66.5	49.0	57.8	80	38	49	48	48	85	56	71	.362	.341	.350	2.83	.93	.0	4.7	4.4	4.1	4.3
October	29.25	29.76	28.69	42.3	48.5	44.5	51.4	38.8	45.1	74	29	38	38	39	93	68	81	.233	.236	.242	5.03	1.24	.8	7.1	7.6	6.9	7.3
November	29.42	30.04	28.76	27.5	33.0	31.5	36.9	24.5	30.7	52	3	24	26	27	86	76	82	.136	.149	.151	2.59	.71	13.9	7.8	8.4	8.0	8.1
December	29.28	29.89	28.55	20.3	24.5	23.8	28.7	16.7	22.7	45	− 6	18	20	20	90	82	86	.111	.118	.119	2.78	.90	17.9	7.3	8.0	8.2	7.7
Year	29.28	30.04	28.17	38.6	46.1	43.2	49.7	33.6	41.6	88	− 8	34	35	35	82	67	75	.231	.240	.239	33.56	1.24	91.3	6.4	6.6	6.4	6.2

Annual meteorological summaries for the year ending December 31, 1932—Continued

SAN JOSE, CALIF.

[H_b=141 ft.; h_t=12 ft.; h_r=3 ft.; h_a=110 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° or below: Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		Mi.																										
January	6.7	NW.	32	SE.	1	4	0	0	4	0	2	2	19	0	9	11	11	12	10	1	0	1	7	4	0	0	5	0	0
February	5.9	NW.	23	SE.	0	4	0	0	3	0	0	4	18	0	11	8	10	7	4	2	0	1	14	3	0	0	2	0	0
March	6.3	NW.	25	SW.	0	2	0	0	1	0	1	2	25	0	13	9	9	4	3	0	0	0	5	2	0	0	0	0	0
April	7.3	NW.	26	NW.	0	0	0	0	0	0	4	1	25	0	10	10	10	7	1	0	0	0	3	0	0	0	0	0	0
May	6.7	NW.	23	NW.	0	5	0	0	0	0	3	4	19	0	18	5	8	5	2	0	0	0	7	0	0	1	0	0	0
June	6.7	NW.	22	SW.	0	3	0	0	0	0	1	0	26	0	23	5	2	0	0	0	0	0	3	0	0	2	0	0	0
July	6.8	NW.	30	SW.	0	2	0	0	0	0	1	0	28	0	28	2	1	0	0	0	0	0	5	0	0	3	0	0	0
August	6.6	NW.	26	SW.	0	0	0	0	0	0	1	0	30	0	30	1	0	0	0	0	0	0	9	0	0	4	0	0	0
September	5.5	NW.	18	SE.	0	0	0	0	0	1	2	27	0	25	5	0	0	0	0	0	0	0	19	2	0	5	0	0	0
October	5.6	NW.	22	N.	0	5	0	0	0	0	1	1	24	0	15	12	4	0	0	0	0	0	11	0	0	0	0	0	0
November	5.3	NW.	21	SE.	0	7	1	0	0	1	2	0	19	0	14	6	10	3	3	0	0	0	8	2	0	0	0	0	0
December	5.3	NW.	24	SE.	0	4	1	0	1	0	2	1	21	1	13	7	11	7	7	3	1	1	11	4	0	0	10	1	0
Year	6.2	NW.	32	SE.	1	36	2	0	9	1	19	17	281	1	209	81	76	45	30	6	1	3	102	17	0	15	17	1	0

SAN JUAN, P.R.

[H_b=82 ft.; h_t=9 ft.; h_r=4 ft.; h_a=54 ft.]

January	14.5	E.	37	E.	5	3	2	13	6	7	0	0	0	0	6	23	2	24	20	0	0	0	0	0	0	0	0	1	0
February	10.4	E.	28	E.	0	0	4	7	4	10	4	0	0	0	13	16	0	10	5	0	0	0	0	0	0	0	0	0	0
March	11.2	E.	32	NE.	1	0	2	10	5	9	2	3	0	0	11	16	4	10	8	0	0	0	0	0	0	0	0	0	0
April	11.5	E.	24	E.	0	0	1	18	5	5	1	0	0	0	6	19	5	10	7	0	0	0	0	0	0	2	0	0	0
May	10.6	E.	30	E.	0	0	0	21	1	7	1	1	0	0	7	12	12	17	15	0	0	0	0	0	0	0	0	0	0
June	10.7	E.	29	E.	0	0	0	17	10	3	0	0	0	0	3	23	4	22	16	0	0	0	0	0	0	4	0	10	0
July	10.2	E.	27	E.	0	0	0	19	5	7	0	0	0	0	3	22	6	20	17	0	0	0	0	0	0	2	0	15	0
August	11.0	E.	31	E.	0	0	1	19	3	5	1	1	1	0	6	20	5	21	15	0	0	0	0	0	0	2	0	9	0
September	8.6	S.	120	NE.	2	0	1	5	3	14	5	1	1	0	4	20	6	14	13	0	0	0	0	0	0	5	0	13	0
October	8.2	NE.	30	NE.	0	1	2	6	7	13	2	0	0	0	6	20	5	21	16	0	0	0	0	0	0	6	0	12	0
November	9.0	E.	29	E.	0	0	1	12	8	7	2	0	0	0	2	23	5	20	17	0	0	0	0	0	0	1	0	6	0
December	12.6	E.	32	NE.	1	1	6	12	8	3	1	0	0	0	2	21	5	23	12	0	0	0	0	0	0	0	0	0	0
Year	10.7	E.	120	NE.	9	5	20	159	65	90	19	6	2	0	69	238	59	212	161	0	0	0	0	0	0	16	0	76	0

SANTA FE, N.MEX.

[H_b=7,013 ft.; h_t=38 ft.; h_r=31 ft.; h_a=53 ft.]

January	5.4	N.	19	N.	0	16	6	10	16	6	1	2	5	0	15	8	8	10	6	12	10	0	0	0	15	0	31	0	0
February	5.3	N.	16	N.	0	14	9	7	6	3	6	8	5	0	12	7	10	8	6	8	3	0	2	0	0	0	21	1	0
March	8.0	N.	30	SW.	0	14	7	4	9	8	3	5	12	0	11	14	6	6	4	12	6	0	1	0	5	0	25	0	0
April	7.6	E.	28	SE.	0	2	5	9	7	6	7	8	13	3	13	10	7	5	4	4	3	0	1	0	0	0	11	1	0
May	6.7	SE.	24	SE.	0	5	1	19	14	5	14	4	0	0	15	12	4	7	5	0	0	1	0	0	0	0	1	5	0
June	6.1	SW.	21	S.	0	6	8	8	10	5	11	4	5	3	15	11	4	7	4	0	0	2	0	0	0	0	0	10	0
July	6.0	E.	25	N.	0	7	8	16	10	9	8	1	1	2	8	17	6	12	9	0	0	1	0	0	0	0	0	24	0
August	5.9	E.	19	SE.	0	6	17	9	11	8	4	3	3	1	10	13	8	11	6	0	0	1	1	1	0	0	0	15	0
September	5.5	E.	24	NE.	0	3	9	12	15	5	11	0	3	2	15	8	7	6	6	0	0	1	1	0	0	0	0	6	0
October	5.9	E.	19	SW.	0	9	8	7	12	10	9	4	3	0	16	8	7	8	7	5	4	0	1	0	0	0	11	1	0
November	6.0	E.	19	NW.	0	5	18	10	14	1	1	6	5	0	21	7	2	0	0	1	0	0	0	0	0	0	26	0	0
December	6.8	N.	27	SW.	0	12	16	8	9	2	4	3	7	1	17	5	9	8	4	9	8	0	0	0	13	0	31	0	0
Year	6.3	E.	30	SW.	0	99	112	119	133	68	79	48	62	12	168	120	78	88	61	51	34	6	7	1	33	0	157	63	0

SAULT STE. MARIE, MICH.

[H_b=614 ft.; h_t=11 ft.; h_r=3 ft.; h_a=52 ft.]

January	10.1	SE.	29	NW.	0	2	2	14	13	4	11	4	11	1	1	7	23	26	20	26	24	0	5	1	13	0	29	0	0
February	9.5	SE.	35	SW.	4	4	5	6	17	2	8	5	10	1	4	11	14	22	17	23	19	0	11	4	19	0	27	0	0
March	9.3	NW.	30	NW.	0	8	1	8	14	0	5	5	21	0	3	13	15	15	13	23	15	0	1	0	21	0	31	0	1
April	9.3	NW.	29	NW.	0	4	5	7	8	3	3	0	18	3	15	5	10	8	4	6	4	0	1	1	4	0	21	0	1
May	7.9	SE.	26	SW.	0	0	7	10	15	0	13	8	9	0	10	7	14	13	10	2	0	0	4	0	0	0	1	3	2
June	7.3	NW.	27	NW.	0	1	3	6	14	2	4	12	18	0	15	11	4	9	7	0	0	0	4	2	0	0	0	1	0
July	7.9	NW.	26	NW.	0	7	2	6	8	2	3	12	21	1	11	14	6	13	10	0	0	1	7	3	0	0	0	6	0
August	6.9	NW.	26	NW.	0	3	1	7	14	2	6	8	18	3	9	14	8	12	10	0	0	1	9	0	0	0	0	9	8
September	8.2	NW.	32	NW.	1	5	0	6	12	3	7	7	19	1	12	13	5	16	12	0	0	3	4	1	0	0	0	3	4
October	9.1	SE.	33	NW.	1	8	6	9	14	2	5	3	15	0	3	11	17	17	15	7	1	1	5	0	1	0	5	2	0
November	9.6	SE.	30	NW.	0	7	4	4	21	7	9	0	7	1	1	7	22	18	12	17	15	0	10	1	9	0	23	0	2
December	9.1	SW.	31	NW.	0	2	3	9	15	1	18	7	7	0	4	7	20	16	12	23	15	0	12	3	14	0	29	0	0
Year	8.7	NW.	35	SW.	6	51	39	92	165	28	92	80	174	11	88	120	158	185	142	127	93	6	73	16	81	0	166	24	18

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.12	30.51	29.65	54.7	60.4	60.6	69.4	52.2	60.8	80	35	51	52	51	88	62	73	0.400	0.419	0.404	1.72	0.83	0.0	5.7	4.9	4.2	5.4
February	30.00	30.55	29.54	54.8	66.7	62.2	70.8	52.7	61.8	83	39	50	51	52	84	60	70	.374	.394	.396	1.67	1.24	.0	4.9	5.8	5.3	5.8
March	29.89	30.29	28.79	50.1	61.8	56.9	66.3	46.5	56.4	84	24	41	42	42	71	52	59	.292	.296	.296	2.34	.67	.0	4.5	4.0	4.0	3.8
April	29.92	30.30	29.53	66.4	74.0	67.5	77.6	56.9	67.2	89	48	52	51	52	74	46	62	.392	.396	.412	1.31	1.03	.0	3.8	5.3	4.8	4.5
May	29.96	30.16	29.60	69.9	78.1	72.8	81.0	64.9	73.0	92	56	63	62	62	80	59	72	.581	.561	.575	1.39	.78	.0	4.5	6.0	4.0	5.1
June	29.88	30.14	29.55	76.6	85.1	77.0	87.8	70.6	79.2	99	62	72	72	71	84	66	82	.774	.796	.756	9.14	1.82	.0	5.2	7.2	7.5	6.6
July	29.90	30.08	29.66	79.6	90.1	82.9	93.9	74.4	84.2	100	69	72	72	72	79	57	72	.798	.800	.798	2.58	.77	.0	4.0	5.0	5.7	4.6
August	29.93	30.09	29.78	78.2	85.7	79.1	87.7	73.5	80.6	96	70	74	73	73	87	67	83	.834	.816	.816	9.26	5.75	.0	4.7	7.1	5.7	6.2
September	29.95	30.20	29.62	73.1	80.6	75.7	82.9	69.5	76.2	93	59	69	68	68	87	67	79	.715	.692	.704	10.09	2.09	.0	5.5	7.0	5.8	6.7
October	29.95	30.23	29.48	64.0	74.7	69.2	77.6	60.6	69.1	87	50	60	62	62	87	65	80	.536	.564	.578	4.71	2.67	.0	4.3	5.4	3.7	5.0
November	30.06	30.45	29.64	51.2	62.4	57.6	66.2	47.4	56.8	77	32	46	51	49	83	66	74	.351	.402	.384	2.27	.84	.0	5.2	5.5	4.1	5.2
December	30.12	30.42	29.78	53.5	65.2	57.7	68.8	50.0	59.4	80	33	50	53	51	86	66	80	.379	.425	.399	.30	.17	.0	6.6	6.4	5.7	6.5
Year	29.97	30.55	28.79	63.8	74.2	68.3	77.5	59.9	68.7	100	24	58	59	59	82	61	74	.536	.546	.543	46.78	5.75	.0	4.9	5.8	5.0	5.4

SCRANTON, PA.

[ϕ=41°24′ N.; λ=75°42′ W.]

January	29.27	29.75	28.61	37.8	40.7	40.0	45.6	33.4	39.5	69	19	31	32	32	78	71	71	0.184	0.190	0.187	3.35	0.64	1.0	8.4	8.1	7.1	7.8
February	29.15	29.72	28.68	28.8	35.4	34.1	40.6	24.3	32.4	59	10	22	25	26	76	66	71	.127	.139	.147	3.03	2.01	6.1	7.6	7.3	6.2	6.1
March	28.97	29.44	28.01	29.4	35.0	33.6	39.2	25.0	32.1	59	8	21	24	24	70	64	68	.119	.136	.135	4.34	1.82	15.8	7.3	7.1	6.5	6.7
April	29.11	29.63	28.53	41.3	49.9	47.7	54.9	35.3	45.1	76	26	31	31	34	66	52	62	.176	.183	.205	.59	.20	1.5	6.1	6.9	6.3	6.2
May	29.21	29.58	28.92	54.6	65.9	63.1	70.5	47.8	59.2	90	35	43	42	46	66	46	57	.292	.293	.330	2.73	1.07	.0	6.2	6.5	6.1	5.3
June	29.09	29.43	28.72	63.8	72.7	70.4	77.7	56.9	67.3	87	38	54	53	55	72	52	60	.431	.429	.453	3.24	1.17	.0	5.2	6.3	6.7	5.7
July	29.05	29.30	28.55	67.0	77.1	73.7	81.8	60.1	71.0	92	49	57	56	56	71	49	57	.475	.462	.464	2.18	.70	.0	5.0	6.5	5.7	5.5
August	29.17	29.49	28.91	65.8	79.6	75.1	83.2	59.9	71.6	95	50	58	58	58	76	46	57	.486	.462	.495	2.60	.98	.0	4.1	5.1	4.3	4.3
September	29.25	29.65	28.84	57.9	71.4	67.2	75.6	52.5	64.0	97	32	51	46	48	77	44	52	.399	.347	.363	1.33	.65	.0	4.1	5.0	5.1	4.7
October	29.19	29.54	28.80	49.4	58.9	55.9	62.5	45.5	54.0	80	34	44	43	45	82	58	68	.305	.291	.314	5.10	3.38	T	6.8	6.7	6.7	6.4
November	29.35	29.96	28.63	34.0	42.8	39.9	47.3	29.4	38.4	64	8	30	30	30	83	61	67	.176	.177	.178	4.40	1.20	T	6.3	6.3	4.9	5.8
December	29.31	29.73	28.58	30.3	36.9	34.4	41.3	25.2	33.2	63	4	27	27	28	86	70	77	.155	.155	.162	1.12	.20	4.4	6.9	7.4	6.1	6.7
Year	29.18	29.96	28.01	46.7	55.5	52.9	60.0	41.3	50.6	97	4	39	39	40	75	57	64	.277	.272	.286	34.01	3.38	28.8	6.2	6.6	6.0	5.9

SEATTLE, WASH.

[ϕ=47°38′ N.; λ=122°20′ W.]

January	29.94	30.54	29.22	37.9	39.4	39.9	42.6	34.9	38.8	52	22	34	33	34	86	79	79	0.200	0.195	0.199	3.55	1.18	4.8	8.6	9.1	7.6	8.2
February	29.90	30.23	29.15	38.5	42.1	43.7	45.8	36.0	40.9	64	19	35	33	34	86	72	70	.211	.200	.203	3.98	1.52	1.3	7.4	7.4	7.8	7.6
March	29.91	30.35	29.45	43.4	48.3	49.6	51.5	41.4	46.4	63	31	37	37	37	81	67	66	.228	.224	.231	3.55	.59	1.8	8.6	9.0	8.6	8.7
April	29.83	30.30	29.32	45.7	52.4	55.0	57.5	43.9	50.7	70	38	41	39	38	84	61	56	.259	.237	.234	2.48	.90	.0	8.6	7.7	7.6	7.4
May	29.93	30.25	29.56	48.9	56.1	59.6	61.9	47.8	54.8	76	43	44	42	41	83	60	54	.287	.265	.267	.58	.28	.0	6.7	7.0	7.0	6.7
June	29.89	30.11	29.68	54.0	63.7	68.9	70.7	52.8	61.8	89	45	48	47	46	80	57	47	.334	.325	.314	.17	.13	.0	6.1	4.7	3.9	4.7
July	29.90	30.14	29.44	54.9	62.9	66.4	68.5	53.7	61.1	78	49	50	49	48	84	61	54	.362	.347	.340	1.88	.87	.0	6.9	6.1	6.4	6.2
August	29.86	30.10	29.65	56.8	63.7	69.6	71.0	55.4	63.2	87	49	53	53	53	88	70	57	.407	.406	.403	1.18	.38	.0	6.8	5.8	5.9	5.9
September	29.98	30.28	29.69	53.2	62.0	67.4	69.3	51.7	60.5	81	44	49	49	48	86	64	52	.349	.353	.344	.23	.12	.0	3.9	3.6	2.8	4.2
October	29.95	30.45	29.49	51.3	55.8	57.7	59.7	48.5	54.1	82	40	47	47	47	86	73	69	.327	.321	.324	3.10	.84	.0	6.8	6.8	7.8	7.5
November	29.80	30.36	29.30	47.2	50.0	50.5	53.4	44.2	48.8	66	35	43	44	44	86	80	78	.280	.287	.288	8.76	1.98	.0	7.5	8.1	8.1	8.3
December	29.96	30.43	29.01	37.6	40.8	40.3	43.2	34.5	38.8	56	19	32	31	31	79	69	70	.194	.188	.186	4.82	1.89	.2	5.7	6.5	6.5	6.8
Year	29.91	30.54	29.01	47.4	53.1	55.7	57.9	45.4	51.7	89	19	43	42	42	84	68	63	.286	.279	.278	34.28	1.98	8.1	7.0	6.8	6.6	6.8

SHERIDAN, WYO.

[ϕ=44°48′ N.; λ=106°57′ W.]

January	26.03	26.42	25.13	8.8	23.2	19.7	29.4	1.0	15.2	58	−25	4	12	10	78	60	65	0.060	0.080	0.075	1.31	0.48	15.4	5.6	5.3	5.6	5.5
February	25.98	26.30	25.36	14.9	32.3	30.2	38.2	9.8	24.0	70	−16	8	16	18	75	51	60	.076	.097	.108	.11	.06	1.5	3.1	3.6	6.0	4.4
March	26.07	26.62	25.56	18.0	32.4	31.3	37.4	14.3	25.8	65	−21	13	17	18	78	54	59	.097	.103	.111	1.65	.52	9.5	6.2	6.6	5.2	6.2
April	26.02	26.47	25.38	36.4	54.7	52.6	58.4	33.2	45.8	77	21	29	27	28	76	40	47	.160	.150	.159	2.73	1.51	.7	6.6	6.6	6.6	6.4
May	26.07	26.37	25.69	46.0	64.5	63.4	68.5	42.0	55.2	86	30	40	41	42	82	45	49	.256	.265	.269	3.35	1.40	.0	5.0	5.3	5.3	5.0
June	26.05	26.31	25.66	53.9	72.2	71.3	75.9	48.5	62.2	92	39	48	49	51	82	47	53	.342	.359	.389	3.53	1.58	.9	4.2	4.6	5.2	4.6
July	26.07	26.30	25.67	58.4	81.4	81.1	86.5	53.7	70.1	99	42	50	49	50	75	34	36	.369	.363	.368	.60	.21	.0	3.2	3.3	4.7	3.6
August	26.06	26.30	25.69	54.5	81.7	80.7	86.5	52.6	69.6	98	35	48	45	46	78	30	31	.334	.314	.319	.78	.59	.0	2.4	1.8	3.9	2.7
September	26.18	26.46	25.70	42.6	70.1	65.4	74.4	39.8	57.1	94	22	37	37	40	83	53	43	.223	.228	.256	1.15	.48	.0	2.9	2.2	3.1	3.0
October	26.14	26.52	25.76	29.9	49.3	44.2	53.5	26.0	39.8	79	4	27	29	30	89	50	60	.153	.158	.168	3.27	1.40	23.3	4.6	5.7	5.7	5.0
November	26.12	26.51	25.71	30.0	41.3	37.5	48.3	24.0	36.2	66	8	24	27	27	86	68	67	.129	.146	.145	.61	.29	5.0	6.3	7.2	6.3	6.7
December	26.04	26.53	25.59	9.8	24.5	19.0	28.6	2.8	15.5	58	−25	6	13	11	83	61	69	.067	.085	.077	.42	.16	8.0	4.7	5.6	5.2	5.5
Year	26.07	26.62	25.13	33.6	52.3	49.7	57.1	29.0	43.1	99	−25	28	30	31	80	47	53	.189	.195	.204	19.53	1.58	63.4	4.8	4.9	5.3	4.9

Annual meteorological summaries for the year ending December 31, 1932—Continued

SAVANNAH, GA.

[H_b=65 ft.; h_t=73 ft.; h_r=71 ft.; h_a=152 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	11.8	S.	30	NW.	0	6	5	8	6	14	7	13	3	0	11	9	11	6	5	0	0	0	11	6	0	0	0	0	0
February	11.4	W.	35	W.	1	10	9	5	1	13	7	9	4	0	10	7	12	8	4	0	0	0	13	4	0	0	0	0	0
March	14.2	W.	48	W.	5	5	2	3	5	14	6	17	10	0	18	6	7	10	9	0	0	0	2	0	0	0	3	1	0
April	12.7	W.	32	SW.	1	4	7	4	3	17	9	14	2	0	14	9	7	6	4	0	0	0	1	0	0	0	2	0	0
May	11.5	E.	47	NW.	1	3	8	12	13	11	3	10	2	0	13	7	11	8	7	0	0	0	1	1	0	3	0	2	0
June	11.0	S.	58	W.	3	0	8	8	2	17	14	10	1	0	4	12	14	21	18	0	0	0	1	1	0	14	0	14	0
July	10.7	W.	41	SW.	4	4	1	1	7	6	15	28	0	0	10	16	5	10	9	0	0	0	0	0	0	28	0	9	0
August	9.8	E.	27	NW.	0	5	8	14	10	12	4	5	4	0	7	10	14	12	10	0	0	0	4	1	0	10	0	9	0
September	10.4	E.	28	W.	0	10	15	15	9	4	1	3	3	0	6	8	16	12	11	0	0	0	8	2	0	5	0	1	0
October	11.3	E.	34	SE.	1	7	11	10	10	6	5	11	2	0	16	3	12	8	6	0	0	0	6	1	0	0	0	2	0
November	11.1	N.	32	N.	1	14	15	7	0	1	6	12	5	0	12	4	14	8	7	0	0	0	5	2	0	0	1	0	0
December	10.2	S.	31	NW.	0	11	8	4	7	12	13	1	6	0	7	7	17	5	3	0	0	0	7	3	0	0	0	0	0
Year	11.3	S.	58	W.	17	79	97	91	73	127	90	133	42	0	128	98	140	114	93	0	0	0	59	20	0	60	4	44	0

SCRANTON, PA.

[H_b=805 ft.; h_t=72 ft.; h_r=64 ft.; h_a=104 ft.]

January	7.6	SW.	31	SE.	0	12	4	0	4	6	19	6	11	0	3	9	19	18	13	12	2	0	4	0	1	0	14	0	0
February	7.7	NW.	34	NW.	1	12	6	0	2	5	15	4	14	0	4	15	10	14	10	14	8	0	9	0	6	0	24	1	0
March	9.2	NW.	34	NW.	2	12	7	1	5	2	13	1	21	0	5	11	15	12	9	20	9	0	2	0	9	0	25	0	0
April	8.5	NW.	26	NW.	0	11	7	1	3	5	10	2	18	3	5	12	13	8	5	7	2	0	4	0	0	0	11	1	0
May	6.8	N.	21	NW.	0	17	3	2	6	15	0	14	2	7	16	8	8	6	0	0	0	0	4	0	0	0	0	5	1
June	6.3	SW.	25	NW.	0	6	6	1	6	3	15	1	16	6	5	14	11	11	10	0	0	1	9	0	0	0	0	4	0
July	7.0	SW.	24	NW.	0	10	2	1	1	0	22	5	20	1	3	22	6	9	7	0	0	0	4	0	0	0	2	0	5
August	5.7	N.	25	NW.	0	18	3	5	2	5	9	3	11	6	12	16	3	6	6	0	0	0	13	0	0	1	0	6	0
September	6.4	N.	22	N.	0	18	7	1	6	5	12	2	7	2	9	18	3	6	5	0	0	0	14	0	0	1	1	1	0
October	7.1	SW.	24	NW.	0	8	7	3	3	8	20	2	9	2	5	13	13	10	8	2	0	0	11	0	0	0	0	0	0
November	7.1	N.	41	SE.	1	18	10	2	1	2	12	1	12	2	7	10	13	8	6	5	0	0	7	1	2	0	19	0	0
December	6.2	SW.	27	NW.	0	10	10	1	5	4	19	2	5	6	5	10	16	11	10	11	5	0	15	7	8	0	22	0	0
Year	7.1	SW.	41	SE.	4	152	72	19	40	51	181	29	158	30	70	166	130	121	95	71	26	1	98	8	26	4	116	22	1

SEATTLE, WASH.

[H_b=125 ft.; h_t=215 ft.; h_r=209 ft.; h_a=250 ft.]

January	8.6	SE.	36	SW.	2	6	7	4	16	21	6	1	1	0	2	8	21	20	15	14	8	0	10	2	2	0	12	0	0
February	10.7	S.	34	SW.	1	5	8	4	12	14	15	0	0	0	4	5	20	18	16	5	4	1	6	0	1	0	9	0	0
March	11.0	S.	41	SW.	2	6	3	5	13	22	13	0	0	0	0	6	25	24	16	1	1	0	7	0	0	0	2	0	0
April	9.5	S.	32	S.	1	7	6	0	8	11	15	6	5	2	1	15	14	13	11	0	0	1	4	0	0	0	0	1	0
May	8.3	NE.	26	SW.	0	11	13	3	8	10	4	8	4	1	5	12	14	8	5	0	0	1	4	0	0	0	0	1	0
June	7.3	NE.	18	S.	0	13	11	5	9	4	4	6	7	1	13	9	8	4	1	0	0	0	3	0	0	0	0	0	0
July	8.7	S.	31	SW.	0	10	11	1	5	11	11	5	6	2	6	10	15	9	6	0	0	0	6	0	0	0	0	0	0
August	6.2	NE.	20	SW.	0	7	7	2	8	8	9	4	14	3	9	11	11	11	8	0	0	0	10	1	0	0	0	2	0
September	6.7	NE.	34	SW.	1	18	17	2	5	3	3	4	4	4	12	13	5	4	3	0	0	0	11	2	0	0	0	0	0
October	7.7	SE.	35	S.	1	6	5	7	18	13	8	1	2	2	3	10	18	17	12	0	0	0	14	0	0	0	0	2	0
November	9.8	S.	36	SW.	3	7	4	4	12	16	12	2	0	3	1	7	22	22	18	9	0	0	9	0	0	0	0	1	0
December	10.7	S.	38	SW.	3	2	11	5	20	14	7	0	1	2	7	4	20	16	13	2	1	0	6	1	4	0	11	0	0
Year	8.8	S.	41	SW.	14	98	103	42	134	147	107	37	44	20	63	110	193	166	124	22	14	3	90	6	7	0	34	7	0

SHERIDAN, WYO.

[H_b=3,790 ft.; h_t=10 ft.; h_r=3 ft.; h_a=47 ft.]

January	5.1	NW.	30	NW.	0	3	5	3	12	10	7	3	19	0	9	11	11	13	7	15	12	0	16	0	16	0	31	0	0
February	5.1	NW.	29	SW.	0	4	6	1	16	7	6	4	14	0	11	15	3	3	1	5	3	0	8	0	11	0	25	0	0
March	6.4	NW.	30	NW.	0	2	3	1	7	12	8	1	26	0	6	13	12	14	10	20	10	0	3	0	9	0	28	1	0
April	8.3	NW.	31	NW.	0	0	6	3	10	3	5	3	27	3	5	11	14	9	9	9	2	0	0	0	0	0	14	1	0
May	6.1	NW.	27	SE.	0	2	8	6	11	11	6	4	13	1	9	16	6	11	11	0	0	2	0	0	0	0	4	9	2
June	4.5	NW.	30	NW.	0	1	2	4	7	11	7	3	17	8	11	13	6	12	7	0	0	1	0	0	0	3	0	13	0
July	4.7	NW.	21	SE.	0	2	5	3	15	5	7	6	16	3	16	10	5	7	5	0	0	0	0	0	0	13	0	12	0
August	4.7	NW.	18	SE.	0	2	7	2	11	11	6	4	15	4	20	9	2	4	4	0	0	1	0	0	0	13	0	5	1
September	4.5	NW.	32	NW.	1	2	5	2	9	9	6	3	24	1	10	12	9	12	11	12	9	0	3	0	2	0	22	0	0
October	5.9	NW.	27	NW.	0	3	6	3	4	8	10	3	20	4	19	8	3	7	6	0	0	0	4	2	2	0	29	0	0
November	5.3	NW.	26	NW.	0	3	5	1	9	14	9	3	15	1	4	13	13	8	6	10	6	0	4	2	2	0	31	0	0
December	5.0	NW.	26	NW.	0	4	6	3	10	15	3	3	17	1	9	12	10	9	5	11	9	0	12	0	16	0	31	0	0
Year	5.5	NW.	32	NW.	1	28	66	32	121	116	80	40	223	26	129	143	94	109	82	82	51	4	46	2	56	30	184	43	5

Annual meteorological summaries for the year ending December 31, 1932—Continued

SHREVEPORT, LA.

[ϕ=32°30′ N.; λ=93°40′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.84	30.30	29.30	48.1	54.1	55.5	60.8	44.6	52.7	76	30	43	44	44	82	70	07	0.304	0.313	0.318	10.51	3.70	0.0	6.1	5.5	4.4	5.5
February	29.76	30.17	29.40	53.3	62.3	62.5	67.9	50.8	59.4	85	29	47	49	48	79	64	63	.339	.364	.350	5.90	2.37	.0	7.0	5.9	5.8	6.3
March	29.74	30.23	29.15	47.5	57.5	58.5	63.4	44.6	54.0	84	20	40	38	39	76	52	51	.288	.270	.268	5.95	3.72	.1	5.0	5.2	4.5	5.1
April	29.70	30.06	29.32	59.8	72.5	72.8	77.4	58.0	67.7	86	50	52	51	50	77	50	48	.413	.395	.387	2.61	1.72	.0	5.0	4.0	4.0	4.3
May	29.73	29.95	29.52	65.6	77.6	76.9	82.8	63.9	73.4	90	56	59	57	59	81	51	56	.517	.481	.516	1.34	.85	.0	4.7	4.3	5.0	4.7
June	29.63	29.82	29.42	75.2	87.4	87.4	92.6	72.9	82.8	99	67	70	67	65	83	51	50	.727	.656	.626	3.27	2.52	.0	4.3	4.2	3.6	4.1
July	29.70	29.91	29.37	78.5	91.1	89.1	96.0	76.2	86.1	102	69	72	70	70	81	51	54	.789	.740	.723	1.04	.42	0	3.0	3.9	5.3	4.1
August	29.67	29.85	29.51	76.2	90.7	88.1	95.3	74.3	84.8	102	65	70	68	68	82	48	53	.737	.697	.679	1.58	.61	.0	2.8	4.2	4.4	3.7
September	29.73	29.93	29.50	69.3	83.9	81.0	87.7	67.9	77.8	98	57	63	61	61	81	47	53	.594	.547	.549	.61	.45	.0	4.5	4.8	5.2	4.9
October	29.75	30.06	29.36	57.1	73.5	70.2	77.9	53.9	65.9	90	41	50	48	48	80	44	48	.388	.367	.361	1.17	.59	.0	3.9	3.5	3.0	3.5
November	29.92	30.33	29.33	44.3	59.0	55.8	63.5	41.2	52.4	80	24	39	46	43	82	65	64	.254	.340	.298	1.98	1.26	.0	4.0	3.0	2.1	3.2
December	29.88	30.35	29.30	41.4	48.5	47.8	52.6	38.7	45.6	74	20	38	42	42	90	79	81	.255	.291	.289	7.01	2.01	1.8	6.9	6.8	6.1	6.7
Year	29.75	30.35	29.15	59.7	71.5	70.5	76.5	57.2	66.9	102	20	54	53	53	81	59	57	.467	.455	.447	42.97	3.72	1.9	4.8	4.6	4.4	4.7

SIOUX CITY, IOWA

[ϕ=42°30′ N.; λ=96°24′ W.]

January	28.82	29.50	28.03	14.5	18.8	18.6	24.3	9.7	17.0	39	−12	12	14	14	89	82	83	0.079	0.089	0.089	1.91	0.62	21.9	6.8	7.1	6.1	7.1
February	28.77	29.24	27.92	20.8	28.6	28.5	34.0	17.0	25.5	57	−5	18	20	22	88	71	77	.108	.119	.129	.46	.25	4.8	5.6	6.1	6.4	6.2
March	28.79	29.27	28.13	22.8	30.0	31.7	36.0	20.1	28.0	73	−3	18	19	21	81	65	64	.113	.116	.124	1.16	.51	6.4	7.5	7.3	6.6	6.8
April	28.73	29.22	28.32	44.6	55.7	56.8	61.5	42.0	51.8	75	28	38	38	39	77	55	55	.238	.247	.254	1.65	.69	T	7.5	7.5	6.6	7.3
May	28.74	29.14	28.33	56.2	68.8	70.2	74.3	52.4	63.4	92	39	48	48	48	74	50	48	.339	.343	.342	2.71	1.25	.0	6.1	5.8	5.1	5.7
June	28.66	28.88	28.41	66.7	78.7	78.4	83.2	63.2	73.2	96	56	61	61	60	83	57	55	.541	.525	.522	4.95	1.22	.0	6.1	6.4	5.5	6.2
July	28.71	28.98	28.29	70.1	82.7	83.9	88.3	67.3	77.8	101	51	60	59	60	72	47	47	.531	.522	.533	2.61	1.15	.0	4.2	4.3	3.9	4.2
August	28.72	29.04	28.33	66.2	78.9	79.0	83.3	64.1	73.7	92	49	60	60	61	80	55	57	.520	.538	.561	2.94	1.14	.0	5.1	5.0	5.0	4.9
September	28.86	29.26	28.27	53.5	70.7	69.1	74.5	51.6	63.0	91	35	46	46	48	78	44	49	.323	.327	.352	2.30	1.12	.0	3.0	3.1	2.7	2.8
October	28.75	29.10	28.30	42.2	54.2	52.9	59.8	39.4	49.6	89	28	34	35	35	73	50	52	.209	.214	.211	.95	.69	T	6.5	5.7	5.2	5.5
November	28.88	29.47	28.37	27.5	37.4	37.1	42.9	24.4	33.6	61	5	22	23	22	77	57	54	.119	.126	.120	.79	.52	5.9	6.9	7.3	5.3	6.7
December	28.84	29.43	28.17	16.3	23.6	23.2	29.0	12.0	20.5	55	−15	12	15	16	82	69	72	.085	.097	.098	.45	.22	6.6	5.0	6.2	4.0	5.5
Year	28.77	29.50	27.92	41.8	52.3	52.4	57.6	38.6	48.1	101	−15	36	36	37	80	58	59	.267	.272	.278	22.88	1.25	45.6	5.9	6.0	5.2	5.7

SPOKANE, WASH.

[ϕ=47°40′ N.; λ=117°25′ W.]

January	28.01	28.60	27.12	24.2	27.8	28.7	31.2	21.0	26.1	46	2	22	24	25	92	84	84	0.124	0.131	0.136	1.99	0.86	20.4	8.0	8.7	8.4	8.8
February	27.96	28.27	27.25	25.1	32.8	35.3	37.0	22.4	29.7	60	−9	21	24	25	87	69	64	.126	.139	.142	.82	.23	8.3	6.1	7.8	7.0	7.5
March	27.98	28.38	27.53	32.5	41.3	43.5	45.6	30.9	38.2	65	13	28	28	28	83	61	57	.159	.164	.164	2.69	.72	12.5	6.2	7.4	7.2	7.2
April	27.90	28.31	27.47	42.2	54.5	57.2	59.3	40.6	50.0	76	34	33	32	31	71	45	40	.189	.182	.176	.93	.41	.0	6.2	7.1	6.9	6.8
May	27.94	28.25	27.66	46.5	61.4	64.8	66.4	45.0	55.7	79	35	39	38	36	77	46	38	.243	.235	.219	2.74	1.41	.0	5.5	6.9	6.0	6.0
June	27.90	28.16	27.67	54.6	73.9	77.8	79.3	53.5	66.4	93	41	43	40	37	66	31	25	.286	.251	.226	.28	.19	.0	4.4	4.1	5.0	4.4
July	27.91	28.16	27.47	57.4	76.1	80.0	81.8	56.4	69.1	96	47	42	39	36	58	27	22	.271	.239	.213	.21	.11	.0	3.2	3.0	3.2	3.3
August	27.89	28.15	27.58	57.6	76.8	81.5	83.0	56.3	69.6	97	45	43	41	39	60	30	24	.282	.265	.242	.27	.23	.0	3.1	3.9	3.7	3.7
September	28.04	28.29	27.76	48.4	69.8	74.4	76.3	46.2	61.2	89	33	36	36	33	65	31	24	.220	.219	.191	.06	.04	.0	2.6	2.9	2.5	2.7
October	28.03	28.43	27.61	42.9	54.3	55.4	58.4	39.9	49.2	81	28	36	36	35	76	54	51	.215	.220	.214	1.14	.58	.0	5.0	6.6	6.1	6.5
November	28.00	28.45	27.50	38.9	44.4	44.5	47.8	36.2	42.0	58	26	34	36	36	85	76	75	.202	.219	.219	2.59	.65	.3	6.7	7.7	7.5	8.0
December	28.03	28.45	27.28	24.8	29.7	29.9	32.8	21.0	26.9	54	1	19	20	21	78	67	70	.118	.125	.128	2.13	1.10	9.9	5.9	7.3	6.0	7.0
Year	27.97	28.60	27.12	41.3	53.6	56.1	58.2	39.1	48.7	97	−9	33	33	32	75	52	48	.203	.199	.189	15.85	1.41	51.4	5.2	6.1	5.8	6.0

SPRINGFIELD, ILL.

[ϕ=39°48′ N.; λ=89°39′ W.]

January	29.40	30.03	28.74	32.5	37.6	36.9	42.3	29.6	36.0	60	6	30	30	31	88	74	80	0.170	0.174	0.188	2.16	0.76	0.2	7.3	7.3	6.2	7.5
February	29.34	29.94	28.53	34.1	43.8	43.3	49.2	31.3	40.2	75	18	30	31	33	85	63	68	.179	.188	.201	.98	.70	1.2	6.1	6.3	5.4	6.3
March	29.30	29.78	28.68	38.6	48.4	46.9	53.6	26.5	35.0	74	7	23	24	26	79	59	66	.140	.149	.161	1.59	.65	3.4	5.7	7.0	4.9	6.5
April	29.29	29.70	28.75	46.8	60.4	59.4	65.2	43.6	54.4	82	34	40	41	41	77	52	54	.269	.279	.279	1.49	.51	.0	5.3	6.3	5.9	5.8
May	29.35	29.72	29.08	59.2	73.0	71.8	77.4	55.5	66.4	91	44	48	48	49	69	44	47	.355	.353	.362	2.78	.95	.0	4.0	4.1	3.4	4.1
June	29.22	29.42	28.97	68.6	82.3	79.2	85.7	64.7	75.2	95	56	61	62	62	79	52	59	.549	.572	.567	6.39	1.89	.0	4.8	5.9	5.5	5.4
July	29.28	29.52	28.85	72.3	85.7	83.8	89.5	68.4	79.0	100	56	63	62	63	73	46	52	.582	.568	.597	2.30	1.05	.0	3.5	3.7	4.0	3.9
August	29.31	29.58	29.05	69.2	82.8	79.2	85.9	66.6	76.2	95	57	63	63	65	81	54	64	.580	.597	.633	5.42	1.37	.0	4.2	4.8	4.3	4.7
September	29.41	29.69	29.13	58.7	75.1	70.5	78.3	56.7	67.5	90	45	53	52	53	82	48	55	.418	.409	.418	1.13	.56	.0	4.0	3.8	3.3	4.0
October	29.30	29.60	29.01	47.4	61.4	57.5	65.5	45.0	55.2	82	29	43	44	44	84	54	62	.286	.301	.306	3.70	2.06	.0	5.2	4.9	4.6	5.2
November	29.48	30.02	28.90	31.7	42.2	38.7	45.5	28.6	37.0	66	15	28	30	30	84	68	71	.160	.174	.176	1.32	.81	7.6	4.7	5.3	3.2	5.2
December	29.44	30.00	28.70	27.1	34.4	31.1	38.1	23.1	30.6	67	−5	22	25	24	81	68	74	.144	.163	.154	2.79	1.09	4.2	5.7	5.6	5.5	5.8
Year	29.34	30.03	28.53	48.0	59.8	57.4	63.8	45.0	54.4	100	−5	42	43	43	80	58	63	.318	.327	.337	32.05	2.06	16.6	5.0	5.4	4.7	5.4

Annual meteorological summaries for the year ending December 31, 1932—Continued

SHREVEPORT, LA.

[H_b=249 ft.; h_t=92 ft.; h_r=90 ft.; h_a=227 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.4	SE.	34	NW.	1	4	4	7	15	11	3	8	10	0	13	7	11	14	13	0	0	0	11	3	0	0	1	5	0
February	10.4	S.	37	NW.	2	4	7	14	6	11	6	7	3	0	7	10	12	11	10	0	0	0	9	3	0	0	1	3	0
March	13.5	S.	40	NW.	5	13	3	5	5	19	3	4	10	0	13	9	9	9	7	2	1	0	4	1	0	0	1	4	0
April	11.5	S.	30	S.	0	3	4	7	7	19	9	3	9	0	13	9	8	6	6	0	0	0	7	0	0	0	0	6	0
May	9.5	S.	26	S.	0	9	14	8	13	11	7	3	3	0	11	15	5	6	5	0	0	0	2	1	0	0	0	1	0
June	9.4	S.	34	W.	2	2	4	6	7	17	17	6	1	0	13	15	2	4	4	0	0	0	1	0	0	23	0	5	0
July	8.5	S.	34	SW.	1	7	7	7	6	17	15	3	0	0	14	12	5	9	6	0	0	0	0	0	0	27	0	9	0
August	8.2	S.	34	SW.	3	1	11	6	19	8	15	1	1	0	14	16	1	8	4	0	0	0	0	0	0	29	0	3	0
September	9.2	NE.	34	NE.	2	4	30	5	5	3	5	2	6	0	14	7	9	4	3	0	0	0	4	0	0	16	0	2	0
October	11.3	S.	41	N.	1	6	9	2	18	14	2	0	11	0	18	6	7	6	4	0	0	0	2	0	0	0	0	1	0
November	12.2	NE.	33	NW.	4	8	20	4	6	11	2	4	5	0	20	5	5	5	4	0	0	0	8	1	0	0	4	0	0
December	11.3	NE.	33	SW.	2	6	18	8	12	8	4	0	6	0	9	5	17	16	14	2	1	0	11	3	2	0	9	4	0
Year	10.4	S.	41	N.	23	67	131	79	119	149	82	40	65	0	159	116	91	98	80	4	2	0	59	12	2	95	22	45	0

SIOUX CITY, IOWA

[H_b=1,135 ft.; h_t=94 ft.; h_r=86 ft.; h_a=164 ft.]

January	10.9	NW.	34	NW.	1	4	4	6	6	13	3	8	17	1	6	8	17	9	7	16	9	0	9	1	25	0	31	0	0
February	11.0	NW.	40	NW.	2	6	3	6	3	14	3	5	18	0	8	7	14	6	3	10	6	0	9	5	12	0	25	0	0
March	13.2	NW.	37	NW.	5	11	6	6	5	8	2	1	23	0	5	10	16	7	4	14	5	0	2	0	11	0	24	0	0
April	12.9	SE.	32	NW.	1	10	8	7	20	9	0	0	6	0	5	8	17	7	5	1	0	0	2	0	0	0	3	3	0
May	12.3	S.	33	S.	1	7	4	3	9	20	3	2	14	0	9	9	13	10	7	0	0	0	2	0	0	2	0	7	0
June	9.2	S.	32	SE.	1	8	6	4	12	16	5	2	6	1	6	11	13	13	10	0	0	0	3	1	1	0	6	0	0
July	10.3	S.	44	NW.	1	7	6	7	4	24	6	2	4	2	15	8	8	9	9	0	0	0	1	2	1	0	15	0	0
August	10.6	S.	40	SW.	2	6	6	9	9	22	3	1	6	0	11	10	10	8	6	0	0	0	4	0	0	5	0	8	0
September	9.5	S.	27	SW.	0	13	6	3	7	21	3	1	5	1	19	5	6	5	5	0	0	0	0	0	0	1	0	5	0
October	11.4	NW.	41	NW.	3	9	6	2	10	9	6	2	17	1	10	10	11	4	3	4	0	0	3	0	0	0	5	1	0
November	13.6	S.	41	NW.	3	10	3	3	5	23	1	2	13	0	4	12	14	5	3	6	4	0	0	0	7	0	23	0	0
December	10.4	S.	30	NW.	0	10	2	5	2	15	6	6	16	0	11	7	13	6	3	9	4	0	3	0	18	0	30	0	0
Year	11.3	S.	44	NW	20	101	60	61	92	194	41	32	145	6	109	105	152	89	65	60	28	4	37	8	73	29	141	43	0

SPOKANE, WASH.

[H_b=1,929 ft.; h_t=101 ft.; h_r=94 ft.; h_a=110 ft.]

January	5.9	S.	26	SW.	0	6	10	7	6	17	11	1	9	1	2	4	25	16	12	22	14	0	12	3	16	0	31	0	0
February	7.4	S.	21	SW.	0	6	5	1	1	31	10	1	3	0	5	4	20	10	5	8	5	0	14	1	8	0	20	0	0
March	7.7	S.	31	SW.	0	1	4	14	2	24	9	4	4	0	5	8	18	15	13	9	4	1	6	2	2	0	15	0	0
April	7.0	S.	19	NE.	0	2	12	9	3	16	14	1	3	0	3	16	11	12	6	0	0	2	0	0	0	0	0	1	0
May	7.0	SW.	25	SW.	0	6	6	12	0	12	16	3	7	0	6	11	14	13	6	0	0	1	1	1	0	0	0	0	2
June	6.7	S.	24	SW.	0	2	7	8	0	14	19	1	8	1	13	10	7	6	2	0	0	1	0	0	0	5	0	2	0
July	6.9	S.	20	S.	0	2	7	4	0	20	22	4	2	1	17	9	5	4	2	0	0	0	0	0	0	3	0	1	0
August	6.5	S.	21	SW.	0	6	7	10	0	15	14	3	5	2	16	9	6	3	1	0	0	0	0	0	0	10	0	1	0
September	5.5	E.	25	SW.	0	4	7	9	0	9	6	2	5	3	7	9	15	8	7	0	0	0	1	1	0	0	6	0	0
October	6.2	S.	24	SW.	0	4	11	8	4	15	10	2	5	3	7	9	15	8	7	0	0	0	1	2	0	0	5	0	0
November	7.3	SW.	27	SW.	0	4	8	3	2	14	18	2	7	2	2	8	20	16	12	2	2	1	8	2	0	0	5	0	0
December	8.2	S.	27	SW.	0	6	10	4	0	24	11	0	6	1	5	5	21	16	9	15	15	0	2	0	13	0	25	0	0
Year	6.9	S.	31	SW.	0	49	94	89	12	211	163	28	68	18	99	102	165	122	76	56	40	6	44	10	39	18	102	5	4

SPRINGFIELD, ILL.

[H_b=636 ft.; h_t=5 ft.; h_r=3 ft.; h_a=191 ft.]

January	11.7	S.	25	W.	0	12	4	5	5	16	3	10	7	0	5	7	19	11	9	8	1	0	3	0	4	0	19	1	0
February	11.8	S.	41	W.	2	13	4	2	8	17	4	5	5	0	7	11	11	5	5	2	2	0	2	0	0	0	17	2	0
March	12.8	NW.	34	S.	1	7	7	6	4	7	4	7	20	0	6	11	14	8	7	10	4	0	1	1	8	0	20	2	0
April	11.6	SE.	31	S.	0	10	5	9	11	9	3	3	10	0	9	8	13	9	7	0	0	0	3	2	0	0	0	3	0
May	11.5	S.	38	NW.	1	5	4	6	6	18	7	7	9	0	15	11	5	8	8	0	0	1	0	0	0	2	0	7	1
June	8.5	SW.	34	NW.	1	6	9	8	6	8	9	8	6	0	6	17	7	12	11	0	0	0	1	1	0	6	0	13	0
July	7.8	S.	34	NW.	1	6	8	3	8	9	12	6	10	0	14	15	2	8	6	0	0	0	0	0	0	15	0	9	0
August	8.7	S.	38	NW.	1	4	3	5	12	17	6	5	4	6	12	15	4	12	11	0	0	0	0	0	0	11	0	13	0
September	9.1	N.	35	S.	1	16	9	4	6	10	3	7	5	0	16	9	5	6	5	0	0	0	3	2	0	1	0	2	0
October	12.3	S.	32	NW.	1	8	4	4	5	14	7	8	12	0	11	8	12	7	4	0	0	0	4	2	0	1	1	0	0
November	11.5	S.	26	S.	0	7	5	3	9	13	6	7	10	0	9	13	8	5	4	4	2	0	1	1	3	0	19	0	0
December	11.8	S.	34	SW.	1	3	5	1	3	18	14	8	10	0	10	8	13	9	9	7	4	0	4	2	12	0	22	1	0
Year	10.8	S.	41	W.	10	97	67	56	83	156	78	81	108	6	120	133	113	100	86	31	13	1	22	11	27	35	98	53	1

Annual meteorological summaries for the year ending December 31, 1932—Continued

SPRINGFIELD, MO.

[ϕ=37°12′ N.; λ=93°18′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.64	29.13	28.01	34.1	41.6	41.4	47.2	30.5	38.8	71	9	29	30	31	82	65	68	0.169	0.182	0.184	3.79	1.38	T	6.3	5.1	4.7	5.2
February	28.60	29.00	28.00	39.2	50.3	50.5	56.4	36.0	46.2	76	11	32	35	36	77	58	59	.197	.220	.222	.54	.28	0.2	4.7	5.6	5.0	4.3
March	28.55	29.04	27.77	34.1	43.2	43.4	49.6	30.6	40.1	76	5	28	28	30	79	57	61	.171	.174	.180	2.52	1.02	2.0	5.9	5.3	4.7	4.5
April	28.54	28.96	28.19	51.8	63.0	63.3	68.4	49.4	58.9	82	37	42	40	43	69	47	51	.277	.266	.292	3.26	1.52	.0	5.3	4.6	4.2	2.9
May	28.63	28.90	28.35	59.3	71.0	71.1	75.3	55.7	65.5	84	46	49	47	48	70	45	47	.364	.344	.353	3.18	*3.99	.0	2.9	4.6	3.5	2.7
June	28.51	28.76	28.32	69.7	78.8	77.1	82.1	66.3	74.2	89	59	64	64	65	82	61	67	.593	.592	.616	10.08	6.23	.0	4.6	6.0	5.0	3.4
July	28.59	28.80	28.19	73.8	83.2	83.1	87.3	70.6	79.0	95	60	67	66	69	79	59	63	.663	.659	.710	3.88	2.05	.0	4.2	4.1	3.2	3.4
August	28.59	28.80	28.37	71.5	84.4	81.7	88.0	68.6	78.3	94	56	64	62	62	78	47	53	.608	.561	.569	3.14	1.53	.0	2.8	3.1	2.2	2.1
September	28.68	28.92	28.42	61.5	75.9	72.7	79.7	59.4	69.6	90	46	53	52	52	76	45	50	.422	.396	.400	.55	.30	.0	3.7	3.6	3.7	2.9
October	28.61	28.95	28.31	48.3	62.0	60.4	67.8	46.0	56.9	83	34	40	39	39	74	46	48	.256	.251	.250	4.86	2.90	.0	3.5	2.9	3.6	3.4
November	28.74	29.16	28.24	34.1	45.6	44.0	51.1	32.0	41.6	70	8	27	29	28	75	55	57	.154	.165	.168	3.17	1.08	6.8	4.4	4.0	3.5	4.1
December	28.70	29.15	27.90	30.3	36.7	35.3	42.2	26.1	34.2	69	0	25	26	24	79	65	65	.153	.164	.146	4.83	3.30	8.8	6.1	5.6	4.3	5.5
Year	28.62	29.16	27.77	50.6	61.3	60.3	66.3	47.6	56.9	95	0	43	43	44	77	54	57	.336	.331	.341	43.80	6.23	17.8	4.5	4.5	4.0	3.7

SYRACUSE, N.Y.

[ϕ=43°03′ N.; λ=76°09′ W.]

January	29.43	29.98	28.76	36.3	38.8		43.7	30.6	37.2	68	12	30	31		76	74		0.171	0.179		3.67	0.74	7.5	8.7	8.7		8.2
February	29.33	29.97	28.77	27.6	32.0		37.1	22.2	29.6	61	7	21	24		77	71		.124	.134		2.69	.63	20.7	8.5	7.8		8.0
March	29.15	29.61	28.36	28.3	31.8		35.6	23.4	29.5	56	8	22	24		79	71		.123	.128		5.82	1.92	41.4	8.5	8.8		8.0
April	29.31	29.90	28.72	40.4	45.5		50.7	35.6	43.2	74	23	29	32		66	62		.167	.186		1.70	.54	2.2	6.5	6.6		6.7
May	29.42	29.80	29.10	57.8	63.7		68.1	49.1	58.6	88	36	42	43		58	49		.278	.297		1.57	.54	.0	6.2	6.2		6.0
June	29.28	29.61	28.92	65.8	73.1		76.5	57.8	67.2	88	44	54	54		66	52		.429	.434		3.74	1.98	.0	5.5	5.3		5.6
July	29.22	29.50	28.71	68.2	74.9		78.1	60.6	69.4	91	52	58	58		72	57		.406	.486		4.85	1.49	.0	5.5	5.7		5.4
August	29.36	29.72	29.02	70.1	77.6		81.5	61.6	71.6	92	52	59	59		69	55		.508	.513		3.07	.97	.0	3.5	5.2		4.5
September	29.44	29.84	29.13	61.9	70.2		73.1	54.0	63.8	94	37	54	54		74	58		.429	.444		1.12	.37	.0	4.7	5.1		5.6
October	29.36	29.79	28.89	52.1	59.7		62.5	46.8	54.6	81	35	44	45		77	61		.310	.318		5.38	2.92	T	7.2	7.4		7.4
November	29.54	30.23	28.93	35.8	41.1		45.5	30.5	38.0	60	9	29	32		76	71		.172	.192		2.68	1.05	2.1	7.5	6.3		7.3
December	29.48	29.97	28.71	32.1	37.7		41.8	26.1	34.0	66	−6	25	27		75	68		.145	.155		1.24	.44	6.1	8.5	7.9		7.9
Year	29.36	30.23	28.36	48.0	53.8		57.8	41.5	49.7	94	−6	39	40		72	62		.279	.289		37.43	2.92	80.0	6.7	6.8		6.7

TACOMA, WASH.

[ϕ=47°16′ N.; λ=122°23′ W.]

January	29.88	30.45	29.16		40.1	40.1	43.1	33.9	38.5	53	24		35	34		81	80		0.205	0.201	5.06	1.46	13.0		9.0	8.0	8.5
February	29.84	30.14	29.10		43.7	43.8	46.4	35.0	40.7	66	15		36	35		73	72		.217	.212	7.33	2.91	1.3		7.8	7.0	7.5
March	29.84	30.27	29.40		49.7	50.7	52.3	40.9	46.6	62	29		39	39		70	65		.248	.251	6.09	1.37	T		9.0	8.8	8.9
April	29.77	30.21	29.25		54.3	55.9	57.8	43.4	50.6	69	37		42	42		64	61		.269	.267	3.43	.97	.0		7.9	8.1	7.8
May	29.87	30.17	29.53		58.5	60.4	63.2	46.3	54.8	73	39		42	42		57	52		.274	.269	.62	.24	.0		6.5	7.0	6.5
June	29.83	30.04	29.62		66.1	68.5	71.0	52.1	61.6	90	44		48	46		54	47		.339	.318	.10	.06	.0		4.4	4.8	4.7
July	29.85	30.09	29.40		65.8	67.5	69.8	53.1	61.4	81	47		49	50		56	55		.356	.364	1.97	.81	.0		6.2	5.5	6.0
August	29.82	30.04	29.58		66.8	69.4	71.3	55.4	63.4	84	47		54	54		66	59		.421	.415	.80	.34	.0		6.3	4.1	5.7
September	29.92	30.21	29.64		63.6	66.8	68.4	49.5	59.0	83	38		49	48		61	52		.356	.342	.23	.14	.0		3.8	3.0	4.6
October	29.89	30.39	29.44		58.0	57.9	60.5	47.4	54.0	79	37		47	47		68	69		.325	.325	4.77	1.38	.0		6.5	6.9	7.5
November	29.82	30.29	24.23		51.2	50.7	53.6	43.0	48.3	63	30		43	44		76	80		.286	.296	8.57	1.79	.0		7.9	8.4	8.7
December	29.90	30.32	28.98		40.7	40.4	43.2	32.8	38.0	56	14		31	31		70	71		.191	.186	5.59	2.02	.3		6.4	6.2	7.1
Year	29.85	30.45	28.98		54.9	56.0	58.4	44.4	51.4	90	14		43	43		66	64		.291	.287	44.56	2.91	14.6		6.8	6.5	7.0

TAMPA, FLA.

[ϕ=27°57′ N.; λ=82°27′ W.]

January	30.13	30.37	29.78	60.7	73.5	68.1	76.9	58.4	67.6	82	41	57	58	58	88	58	72	0.479	0.488	0.502	0.26	0.17	0.0	4.4	5.4	2.7	5.3
February	30.04	30.38	29.75	63.8	76.5	70.9	79.7	61.9	70.8	85	52	61	60	62	90	59	74	.541	.539	.565	.25	.10	.0	3.8	3.9	2.3	4.2
March	29.96	30.27	29.22	56.8	69.4	63.7	73.7	53.2	63.4	85	35	50	50	53	80	54	69	.403	.404	.427	2.68	1.39	.0	5.7	5.4	3.9	5.6
April	29.97	30.29	29.70	65.8	77.5	71.4	80.5	61.6	71.0	88	51	59	57	59	79	50	66	.507	.470	.514	.76	.36	.0	3.6	4.4	3.3	4.1
May	29.96	30.15	29.79	72.2	83.8	75.9	86.6	67.2	76.9	92	62	66	61	64	81	48	67	.641	.553	.596	5.20	1.60	.0	4.2	4.9	4.2	4.8
June	29.93	30.10	29.69	77.8	84.8	79.4	88.0	73.3	80.6	95	66	73	71	72	86	64	79	.814	.759	.783	5.52	3.23	.0	5.9	6.7	6.5	6.6
July	29.98	30.15	29.84	81.6	89.3	84.1	92.6	77.1	84.8	97	70	74	70	73	79	54	71	.854	.735	.822	2.06	.73	.0	3.1	5.2	5.8	4.6
August	29.94	30.08	29.64	79.0	86.8	80.1	89.8	74.4	82.1	93	70	74	72	73	86	63	81	.849	.776	.820	15.17	4.54	.0	3.9	6.4	8.0	6.0
September	29.92	30.11	29.66	76.0	85.8	78.7	87.7	72.4	80.0	92	67	72	71	72	88	62	80	.787	.755	.782	5.74	2.70	.0	4.9	7.2	7.3	6.5
October	29.94	30.15	29.56	69.9	81.6	75.8	83.8	67.2	75.5	89	51	65	65	68	96	58	76	.640	.632	.682	2.32	.99	.0	4.1	5.0	3.9	4.6
November	30.03	30.28	29.69	58.5	70.2	63.9	72.9	55.8	64.4	85	38	54	56	58	87	61	80	.462	.475	.502	1.47	.48	.0	4.5	4.5	4.3	4.7
December	30.12	30.32	29.94	59.6	73.7	67.5	76.3	57.1	66.7	82	43	57	60	59	92	63	75	.484	.529	.508	.32	.20	.0	4.6	4.6	2.8	3.9
Year	29.99	30.38	29.22	68.5	79.4	73.3	82.4	65.0	73.6	97	35	64	63	64	85	58	74	.622	.593	.625	44.72	4.54	.0	4.4	5.3	4.6	5.1

* May 31-June 1.

Annual meteorological summaries for the year ending December 31, 1932—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	11.0	S.	31	SE.	0	2	1	6	14	14	2	10	13	0	10	11	10	11	10	4	0	0	12	0	1	0	18	1	0
February	11.1	W.	38	W.	1	7	2	8	11	7	8	9	5	1	14	7	8	7	3	4	1	0	9	1	1	0	11	1	0
March	11.7	NW.	32	S.	2	11	5	3	9	8	4	5	17	0	15	8	8	11	9	10	3	1	9	0	8	0	13	4	0
April	11.2	SE.	30	SW.	0	7	3	12	12	8	7	2	8	1	17	9	4	6	6	0	0	0	3	0	0	0	0	3	0
May	10.0	S.	26	SE.	0	7	3	9	15	15	3	2	8	0	21	8	2	7	5	0	0	0	2	0	0	0	0	5	0
June	8.0	S.	30	NW.	0	6	4	5	12	14	8	5	5	1	14	13	3	15	10	0	0	0	4	0	0	0	0	15	0
July	8.0	S.	26	W.	0	2	5	8	8	18	8	9	3	1	14	15	2	10	10	0	0	0	0	0	0	15	0	7	0
August	8.5	S.	27	NW.	0	3	11	9	11	19	5	1	3	0	23	8	0	5	4	0	0	0	0	0	0	16	0	8	0
September	8.5	NE.	24	SW.	0	8	11	13	10	8	3	1	5	1	20	8	2	5	3	0	0	0	0	0	0	0	0	2	0
October	9.9	S.	28	S.	0	7	0	4	11	16	3	9	11	1	20	3	8	6	5	0	0	0	8	1	0	0	0	3	0
November	10.3	S.	24	NW.	0	9	6	4	14	12	0	7	7	1	18	3	9	5	5	4	2	0	11	2	1	0	20	1	0
December	10.5	S.	28	SW.	0	6	6	4	11	13	6	8	6	2	11	7	13	9	8	7	4	0	7	2	11	0	19	2	0
Year	9.9	S.	38	W.	3	75	57	85	138	152	57	68	91	9	197	100	69	97	78	29	10	1	71	6	22	31	81	52	0

SYRACUSE, N.Y.

[H_b=506 ft.; h_t=65 ft.; h_r=57 ft.; h_a=79 ft.]

January	8.9	W.	24	W.	0	2	0	13	5	16	5	15	6	0	1	10	20	17	11	12	6	0	0	0	1	0	21	0	0
February	8.3	W.	25	NW.	0	4	1	13	0	11	4	20	5	0	3	8	18	19	15	20	16	0	0	0	6	0	25	1	0
March	9.0	W.	28	SW.	0	4	1	8	5	4	8	24	8	0	2	10	19	19	17	21	18	0	1	1	14	0	28	0	0
April	8.5	W.	25	NW.	0	5	0	11	3	6	3	18	14	0	8	5	17	13	9	8	6	0	1	0	0	0	12	0	0
May	7.3	S.	21	S.	0	4	2	9	4	9	7	15	12	0	9	9	13	13	8	0	0	0	0	0	0	0	0	3	1
June	6.9	S.	30	NW.	0	4	1	12	2	10	5	19	7	0	8	12	10	12	8	0	0	0	0	0	0	0	0	4	0
July	7.6	NW.	22	NW.	0	3	0	8	1	5	15	16	14	0	11	12	8	11	10	0	0	0	1	0	0	1	0	4	0
August	6.8	S.	27	NW.	0	4	0	11	5	18	3	14	7	0	14	11	6	8	7	0	0	0	0	0	0	2	0	7	0
September	7.0	S.	25	NW.	0	6	0	7	6	17	6	12	6	0	9	11	10	9	6	0	0	0	1	0	0	1	0	1	0
October	8.3	S.	25	SW.	0	4	2	8	6	19	9	13	1	0	3	9	19	14	12	1	0	0	0	0	0	0	0	0	0
November	7.7	S.	28	NW.	0	8	2	11	6	10	13	4	6	0	7	5	18	14	12	9	4	0	3	0	2	0	15	0	0
December	8.3	S.	23	S.	0	2	1	11	7	16	14	9	2	0	3	8	20	11	9	11	8	0	0	0	10	0	21	0	0
Year	7.9	W.	30	NW.	0	50	10	122	50	141	92	179	88	0	78	110	178	160	124	82	58	0	7	1	33	4	122	20	1

TACOMA, WASH.

[H_b=194 ft.; h_t=172 ft.; h_r=165 ft.; h_a=201 ft.]

January	8.5	S.	37	N.	2	8	1	6	3	5	6	2	0	0	0	7	24	22	17	10	6	0	10	1	1	0	11	0	0
February	10.1	S.	34	SW.	1	7	2	1	0	6	9	3	0	1	4	7	18	19	18	4	2	0	6	0	1	0	8	0	0
March	9.5	S.	42	SW.	2	5	1	1	0	6	12	6	0	0	0	6	25	20	17	1	0	0	4	1	0	0	1	0	0
April	8.9	N.	35	S.	2	13	0	0	0	4	8	4	1	0	2	10	18	16	13	0	0	0	4	0	0	0	0	1	0
May	8.3	N.	32	SW.	1	14	1	1	0	3	5	6	1	0	6	12	13	10	3	0	0	0	4	0	0	0	0	1	0
June	8.0	N.	21	SW.	0	20	0	0	0	2	1	7	0	0	12	9	9	3	1	0	0	0	2	0	0	0	0	0	0
July	8.2	N.	40	SW.	1	12	0	0	0	2	3	12	2	0	6	11	14	11	6	0	0	0	2	1	0	0	0	1	0
August	7.5	N.	22	SW.	0	15	0	1	0	1	5	8	1	0	8	12	11	11	7	0	0	0	4	0	0	0	0	1	0
September	7.4	N.	28	SW.	0	22	0	0	0	0	3	4	1	0	12	14	4	2	2	0	0	0	15	1	0	0	0	0	0
October	7.4	S.	32	SW.	1	6	0	1	1	11	5	2	4	1	2	7	22	15	13	0	0	0	9	2	0	0	0	1	0
November	9.4	S.	38	SW.	3	4	1	0	1	14	6	3	1	0	0	3	27	22	17	0	0	0	10	1	0	0	1	2	0
December	10.4	S.	31	SW.	0	8	0	4	0	12	5	1	1	0	8	6	17	16	13	2	1	0	10	3	4	0	11	0	0
Year	8.6	S.	42	SW.	13	134	6	15	5	66	68	58	12	2	60	104	202	167	127	17	9	0	78	10	6	0	32	7	0

TAMPA, FLA.

[H_b=35 ft.; h_t=88 ft.; h_r=81 ft.; h_a=197 ft.]

January	11.9	E.	31	NW.	0	7	12	16	9	7	3	4	4	0	9	13	9	2	2	0	0	0	10	5	0	0	0	0	0
February	10.6	S.	30	NW.	0	7	10	2	6	9	5	10	9	0	12	13	4	3	3	0	0	0	9	6	0	0	0	0	0
March	12.5	N.	40	NW.	3	15	7	6	6	10	3	2	13	0	8	13	10	9	4	0	0	0	6	3	0	0	0	5	0
April	11.4	E.	26	E.	0	9	5	12	3	6	5	9	11	0	14	11	5	6	4	0	0	0	2	1	0	0	0	1	0
May	11.1	E.	40	NW.	3	7	5	19	9	4	1	6	10	1	12	15	4	11	8	0	0	0	2	1	0	0	3	0	0
June	9.4	W.	39	NE.	2	2	4	13	9	10	6	12	4	0	1	15	14	17	13	0	0	0	0	0	0	0	0	9	0
July	8.2	W.	37	SE.	1	5	1	9	10	9	3	16	9	0	8	19	4	8	7	0	0	0	0	0	0	0	27	0	0
August	10.0	E.	44	E.	6	1	10	14	11	13	4	7	2	0	2	24	5	19	17	0	0	0	0	0	0	0	21	0	0
September	11.0	E.	33	SE.	1	10	6	29	9	0	0	1	3	0	3	16	11	11	9	0	0	0	0	0	0	0	7	0	0
October	11.4	E.	32	SE.	1	10	10	16	10	3	1	7	5	0	14	10	7	8	5	0	0	0	7	0	0	0	0	2	0
November	11.3	NE.	31	NW.	0	22	14	12	1	2	1	2	6	0	12	11	7	9	6	0	0	0	5	1	0	0	0	1	0
December	11.0	S.	30	E.	0	9	15	11	8	9	4	4	2	0	14	13	4	2	2	0	0	0	6	0	0	0	0	0	0
Year	10.9	E.	44	E.	17	104	99	159	91	82	36	80	80	1	109	173	84	103	80	0	0	2	46	16	0	69	0	87	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

TATOOSH ISLAND, WASH.

[ϕ=48°23′ N.; λ=124°44′ W.]

Month	Pressure			Temperature								Moisture												Cloudiness			
		Extremes		Mean					Extremes			Dew point			Relative humidity			Vapor pressure			Precipitation						
	Monthly mean	Maximum	Minimum	8 a.m.	Noon, local time	8 p.m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a.m.	Noon, local time	8 p.m.	8 a.m.	Noon, local time	8 p.m.	8 a.m.	Noon, local time	8 p.m.	Total	Maximum in 24 hours	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.94	30.57	29.24	39.3	40.9	40.2	42.8	37.6	40.2	48	24	36	37	36	90	85	87	0.221	0.224	0.222	12.04	3.26	7.2	8.2	7.5	7.4	8.2
February	29.90	30.29	29.16	40.1	42.3	42.2	44.1	38.1	41.1	50	26	37	38	37	88	84	82	.222	.230	.224	12.28	3.20	T	6.9	7.4	7.2	7.4
March	29.90	30.35	29.28	43.9	45.9	46.1	47.5	41.3	44.4	54	36	41	43	42	90	89	88	.260	.276	.273	13.94	2.41	.0	7.9	8.7	8.7	8.4
April	29.85	30.32	29.37	45.5	49.0	48.3	50.9	44.1	47.5	61	40	42	43	43	89	81	82	.273	.280	.278	5.84	1.25	.0	7.7	7.9	8.2	8.6
May	29.99	30.30	29.59	48.1	53.0	52.9	54.8	46.9	50.8	65	43	44	46	46	88	78	77	.294	.311	.307	1.10	.32	.0	6.9	5.7	5.8	6.8
June	29.96	30.17	29.78	50.7	54.1	54.4	56.9	49.6	53.2	70	46	48	50	50	92	86	85	.340	.360	.356	2.74	2.46	.0	7.6	5.4	5.5	7.4
July	29.95	30.22	29.49	52.0	54.7	56.2	57.7	50.9	54.3	64	45	50	51	51	93	89	84	.360	.380	.380	7.73	2.00	.0	7.6	8.1	7.1	8.4
August	29.92	30.16	29.68	53.6	56.6	56.9	59.4	52.1	55.8	69	50	52	53	54	96	89	90	.392	.405	.415	.89	.38	.0	5.4	5.6	4.6	7.3
September	30.03	30.37	29.80	51.7	55.2	54.4	58.2	49.6	53.9	68	46	48	50	50	89	84	86	.340	.366	.362	2.30	1.08	.0	3.3	2.8	3.9	5.8
October	29.96	30.46	29.38	50.1	53.0	52.1	55.4	48.4	51.9	77	45	47	47	47	90	83	85	.327	.329	.328	8.31	2.51	.0	6.5	6.2	6.4	7.4
November	29.87	30.38	29.08	48.0	49.6	48.8	51.8	45.9	48.8	61	42	44	45	44	87	83	86	.292	.299	.296	15.62	3.06	.0	7.8	8.8	8.2	8.9
December	29.94	30.45	28.86	41.7	42.7	42.3	44.6	39.0	41.8	62	24	36	34	34	78	74	74	.217	.210	.209	10.44	2.00	T	5.5	6.3	7.1	6.8
Year	29.93	30.57	28.86	47.1	49.8	49.6	52.0	45.3	48.6	77	24	44	45	44	89	84	84	.295	.306	.304	93.23	3.26	7.2	6.8	6.7	6.7	7.6

TAYLOR, TEX.

[ϕ=30°35′ N.; λ=97°20′ W.]

January	29.50	29.97	29.01	45.8	54.7		60.9	42.2	51.6	76	29	42	43		86	67		0.288	0.302		7.54	3.32	0.0	6.2	6.0		5.8
February	29.43	29.91	29.10	53.5	63.7		69.1	50.3	59.7	88	33	49	65		87	63		.373	.370		3.62	2.15	.0	7.3	6.4		6.7
March	29.44	29.95	29.85	46.2	61.1		66.1	42.1	54.1	88	22	39	40		76	49		.276	.233		2.03	.88	T	5.1	4.4		4.4
April	29.37	29.77	29.05	59.6	75.2		80.2	57.1	68.6	89	40	53	51		81	46		.443	.400		2.94	2.00	.0	6.1	4.6		4.7
May	29.40	29.58	29.13	67.0	80.3		83.9	63.4	73.6	92	56	62	60		85	53		.567	.533		2.03	1.50	.0	5.2	4.8		4.6
June	29.32	29.46	29.12	74.6	87.2		91.3	71.7	81.5	97	64	70	68		86	53		.737	.676		3.69	1.82	.0	5.0	4.0		3.8
July	29.39	29.59	29.04	76.7	91.2		96.3	74.3	85.3	103	70	71	67		84	47		.770	.608		.18	.09	.0	3.3	2.7		2.9
August	29.33	29.51	28.62	75.9	90.2		94.5	73.7	84.1	102	67	72	69		89	50		.794	.703		1.98	1.24	.0	5.1	4.0		4.6
September	29.40	29.57	29.16	69.4	81.8		84.8	67.6	76.2	94	58	65	65		89	60		.649	.633		9.86	5.69	.0	4.9	4.5		4.7
October	29.44	29.77	29.11	55.6	75.5		79.7	53.3	66.5	90	39	50	51		80	43		.388	.389		.06	.06	.0	3.3	2.3		2.4
November	29.60	29.95	29.11	44.1	62.5		67.1	40.9	54.0	82	26	36	38		74	43		.235	.260		1.59	.92	.0	2.8	2.5		2.6
December	29.54	30.07	29.04	42.6	50.7		54.6	38.8	46.7	77	19	39	41		88	73		.268	.292		2.70	1.09	T	6.2	6.5		6.4
Year	29.43	30.07	28.62	59.3	72.8		77.4	56.3	66.8	103	19	54	55		84	54		.482	.459		38.22	5.69	T	5.0	4.4		4.5

TERRE HAUTE, IND.

[ϕ=39°29′ N.; λ=87°24′ W.]

January	29.48	30.08	28.85	35.7	39.9	39.8	46.5	32.2	39.4	67	12	32	32	33	84	75	77	0.190	0.196	0.206	4.15	1.17	T	6.6	7.7	5.9	7.6
February	29.41	30.04	28.67	35.8	43.0	44.0	49.9	32.6	41.2	73	19	30	31	32	80	63	63	.177	.183	.188	1.31	.74	0.1	5.3	6.4	4.5	5.9
March	29.34	29.84	28.45	29.8	38.0	37.7	43.8	26.6	35.2	69	7	24	24	27	79	58	65	.144	.146	.159	1.74	.58	3.8	6.1	7.3	5.4	6.5
April	29.36	29.74	28.80	47.5	57.9	58.3	63.7	44.6	54.2	82	31	37	38	40	68	52	54	.234	.254	.265	1.44	.75	T	6.5	6.2	5.4	5.8
May	29.43	29.79	29.20	58.9	69.7	68.8	74.5	55.5	64.9	87	40	43	45	48	68	48	51	.348	.348	.358	1.96	1.00	.0	4.2	4.5	4.5	4.3
June	29.30	29.49	29.05	69.0	80.5	79.1	84.7	64.6	74.6	91	53	61	62	62	76	56	59	.547	.581	.577	8.71	2.97	.0	5.2	5.9	5.3	5.1
July	29.34	29.59	28.92	73.4	84.9	83.5	88.7	67.9	78.3	99	57	62	60	62	69	45	49	.577	.536	.561	2.05	1.07	.0	2.9	3.8	4.1	3.4
August	29.38	29.64	29.12	69.2	81.8	79.2	85.6	65.6	75.6	94	55	62	60	63	79	50	59	.574	.540	.582	7.85	5.51	.0	3.5	4.5	4.5	3.9
September	29.47	29.68	29.07	60.0	73.6	70.0	77.1	57.4	67.2	90	45	55	53	55	85	51	61	.452	.432	.452	6.74	4.45	.0	4.7	4.3	4.1	4.2
October	29.38	29.68	29.04	49.1	60.9	57.0	65.1	46.1	55.6	79	30	44	43	44	82	54	64	.300	.303	.313	3.20	1.14	.0	5.5	5.4	4.1	5.3
November	29.56	30.12	28.98	33.5	43.0	40.2	47.0	30.2	38.6	67	17	28	31	30	81	62	67	.166	.182	.175	2.80	1.38	6.2	5.0	5.5	3.5	5.1
December	29.52	30.08	28.84	29.2	35.1	34.0	40.5	25.4	33.0	63	−6	25	26	26	83	72	73	.153	.164	.165	3.96	1.68	3.4	6.2	6.5	6.4	6.3
Year	29.41	30.12	28.45	49.3	59.0	57.6	63.9	45.6	54.7	99	−6	42	42	44	78	57	62	.322	.322	.333	45.91	5.51	13.5	5.1	5.7	4.8	5.3

THOMASVILLE, GA.

[ϕ=30°48′ N.; λ=83°58′ W.]

January	29.89	30.23	29.47	52.6	64.6	61.4	69.6	50.7	60.2	82	34	49	50	51	88	60	71	0.373	0.390	0.404	8.49	4.74	0.0	4.9	5.9	4.5	5.7
February	29.78	30.25	29.46	56.6	69.3	64.9	74.4	54.3	64.4	83	36	52	53	54	86	59	70	.417	.430	.433	1.72	.62	.0	5.3	6.4	4.6	6.4
March	29.70	30.04	28.84	49.1	61.5	58.3	67.1	45.8	56.4	83	22	43	42	44	80	51	60	.312	.300	.318	4.86	1.48	.0	5.6	4.7	3.8	5.2
April	29.72	30.06	29.42	60.5	74.3	69.8	78.8	57.0	67.9	86	45	52	49	51	75	44	54	.408	.374	.396	.51	.23	.0	5.0	4.5	5.2	5.4
May	29.72	29.92	29.47	67.9	79.9	76.0	84.5	63.2	73.8	91	55	60	56	57	78	48	56	.535	.486	.491	6.95	2.86	.0	3.5	4.9	4.8	4.7
June	29.67	29.87	29.36	75.8	84.1	77.1	88.1	70.4	79.2	96	63	71	69	70	85	62	79	.757	.712	.732	8.02	3.93	.0	6.1	7.0	7.3	7.1
July	29.71	29.91	29.54	78.8	89.3	82.1	93.1	73.3	83.2	100	68	74	72	72	85	57	74	.832	.773	.791	9.21	3.75	.0	3.2	5.9	6.5	6.5
August	29.69	29.85	29.52	76.3	84.8	79.3	88.7	72.6	80.6	95	70	74	72	74	91	67	83	.853	.786	.828	9.60	1.34	.0	6.1	7.1	7.1	7.2
September	29.70	29.90	29.45	71.1	82.2	75.8	85.3	68.7	77.0	94	64	68	68	69	90	63	81	.690	.683	.716	7.39	3.19	.0	6.7	6.5	5.4	6.7
October	29.71	29.97	29.19	61.7	74.0	68.1	77.8	58.1	68.0	85	43	58	58	59	88	60	74	.501	.513	.518	8.86	4.25	.0	4.6	5.0	4.3	4.8
November	29.83	30.17	29.48	48.8	61.1	56.2	65.6	46.4	56.0	75	31	44	46	47	83	60	74	.318	.351	.362	3.12	1.08	.0	4.3	4.8	4.0	4.9
December	29.88	30.15	29.58	54.0	64.7	59.9	69.6	51.5	60.6	81	36	51	52	52	91	67	79	.416	.494	.460	1.47	.65	.0	6.8	7.4	6.1	7.1
Year	29.75	30.25	29.84	62.8	74.2	69.1	78.6	59.3	68.9	100	22	58	57	58	85	58	71	.534	.524	.537	70.20	4.74	.0	5.2	5.9	5.3	5.9

Annual meteorological summaries for the year ending December 31, 1932—Continued

TATOOSH ISLAND, WASH.

[H_b=86 ft.; h_t=10 ft.; h_r=3 ft.; h_a=54 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction of time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunder-storm	Electricity: Aurora
	Mi.		*Mi.*																										
January	17.6	E.	54	E.	15	2	3	21	7	12	4	7	6	0	3	3	25	25	21	8	7	0	1	0	1	0	4	1	0
February	15.7	S.	46	S.	11	1	1	13	3	15	7	8	7	3	5	5	19	21	20	4	3	0	0	0	0	0	2	0	0
March	18.5	E.	57	E.	15	0	2	19	4	17	7	11	2	0	1	7	23	24	23	6	0	0	0	0	0	0	0	0	0
April	13.1	E.	40	S.	9	2	7	12	6	8	12	9	2	2	3	2	25	19	16	0	0	1	1	3	0	0	0	0	0
May	9.4	W.	35	SW.	3	2	0	9	1	10	6	20	7	7	7	7	17	12	8	0	0	0	0	1	0	0	0	0	1
June	9.6	SW.	33	E.	1	1	0	7	0	13	21	12	5	1	4	8	18	9	5	0	0	0	0	0	10	0	0	0	0
July	9.1	S.	32	S.	1	0	1	6	2	18	17	12	4	2	1	0	24	18	15	0	0	0	0	4	11	0	0	0	1
August	7.9	SW.	23	E.	0	1	3	2	0	23	17	12	1	3	5	7	19	15	8	0	0	0	0	4	17	0	0	0	2
September	10.7	S.	34	E.	5	1	4	14	2	17	15	5	2	0	11	6	13	12	8	0	0	0	0	4	12	0	0	0	0
October	12.7	E.	50	SW.	6	2	5	19	3	15	7	7	2	2	6	5	20	21	20	0	0	0	0	2	9	0	0	0	1
November	16.6	E.	63	S.	17	1	0	17	5	17	12	3	4	1	2	2	26	27	25	0	0	0	0	1	1	0	0	0	2
December	20.0	E.	65	S.	19	1	3	17	3	11	12	9	6	0	7	5	19	21	19	1	0	0	0	0	1	0	4	2	0
Year	13.4	E.	65	S.	102	14	29	156	36	176	137	115	48	21	55	63	248	224	188	13	10	1	18	63	2	0	10	10	0

TAYLOR, TEX.

[H_b=571 ft.; h_t=38 ft.; h_r=36 ft.; h_a=51 ft.]

January	8.6	N.	24	S.	0	7	3	3	2	6	3	1	6	0	10	8	13	14	10	0	0	0	3	0	0	0	1	3	0
February	9.0	N.	30	S.	0	7	2	1	1	7	5	4	2	0	3	12	14	11	9	0	0	0	0	1	0	0	0	1	0
March	11.2	S.	30	NW.	0	9	4	0	2	7	4	2	6	0	15	8	8	7	4	3	1	0	0	1	1	0	8	4	0
April	10.8	S.	30	NW.	0	1	4	0	5	11	2	2	4	1	10	13	7	5	3	0	0	0	2	1	0	0	4	4	0
May	8.7	SE.	27	NW.	0	7	1	0	1	9	6	0	1	6	14	9	8	6	4	0	0	0	1	0	0	0	5	5	0
June	9.7	SE.	26	N.	0	6	0	0	0	6	14	2	0	2	15	12	3	8	7	0	0	0	0	0	0	0	8	8	0
July	8.5	S.	21	S.	0	1	1	0	0	6	11	9	0	2	23	5	3	4	2	0	0	0	0	0	0	20	0	0	0
August	8.7	S.	37	S.	1	3	4	3	4	16	1	0	0	0	12	14	5	5	5	0	0	0	1	0	0	28	0	6	0
September	6.2	N.	24	N.	0	15	5	1	1	1	0	3	4	0	13	9	8	13	9	0	0	0	1	0	0	27	0	7	0
October	8.2	S.	29	N.	0	8	2	0	1	8	4	2	5	1	20	9	2	1	1	0	0	0	1	0	0	8	0	8	0
November	8.9	NW.	30	SW.	0	7	2	2	0	7	1	4	7	0	20	6	4	4	4	0	0	0	1	0	0	0	0	0	0
December	9.0	N.	31	S.	0	11	1	0	4	7	1	2	4	1	7	8	16	11	10	2	1	0	4	4	3	0	11	0	0
Year	9.0	S.	37	S.	1	82	26	11	41	101	32	21	43	4	162	113	91	89	68	5	2	1	13	7	4	89	25	47	0

TERRE HAUTE, IND.

[H_b=575 ft.; h_t=96 ft.; h_r=86 ft.; h_a=129 ft.]

January	10.4	S.	47	S.	1	7	2	4	7	13	12	10	7	0	5	6	20	12	11	4	0	0	12	2	3	0	16	2	0
February	9.9	NW.	31	S.	0	6	7	4	3	11	7	7	11	0	10	6	13	7	5	2	1	0	11	1	0	0	15	1	0
March	11.4	NW.	30	N.	0	5	8	2	5	8	3	10	21	0	7	5	19	14	7	9	5	0	10	0	8	0	19	1	0
April	10.2	NW.	33	SW.	1	8	9	8	9	6	3	4	13	0	9	10	11	13	5	1	0	0	2	0	0	0	1	2	0
May	9.4	S.	27	W	0	5	6	5	4	15	14	2	11	0	15	9	7	9	8	0	0	0	3	1	0	0	0	7	0
June	7.5	NE.	27	NE.	0	11	8	4	5	6	11	8	7	0	11	11	8	12	11	0	0	1	9	0	0	2	0	13	0
July	8.4	NW.	28	N.	0	11	5	3	3	10	6	10	14	0	17	11	3	4	4	0	0	1	9	0	0	12	0	4	0
August	7.3	S.	36	SE.	1	4	9	14	4	14	7	5	5	0	17	8	6	10	9	0	0	1	6	0	0	7	0	7	0
September	8.6	N.	27	SE.	0	20	6	5	4	4	8	1	12	0	15	6	9	7	7	0	0	0	7	0	0	1	0	5	0
October	10.1	S.	30	W	0	5	3	1	8	19	10	4	11	1	10	11	10	9	6	0	0	0	5	0	0	1	0	0	0
November	9.7	S.	26	N.	0	11	8	3	4	13	3	6	12	0	14	3	13	10	7	6	4	0	10	2	3	0	19	0	0
December	10.7	S.	37	S.	1	6	6	0	7	17	13	4	9	0	7	8	16	12	9	10	5	1	9	4	11	0	20	1	0
Year	9.5	S.	47	S.	4	99	77	53	65	136	97	71	133	1	137	94	135	119	89	32	15	4	75	10	25	22	91	43	0

THOMASVILLE, GA.

[H_b=273 ft.; h_t=49 ft.; h_r=41 ft.; h_a=103 ft.]

January	8.7	S.	24	SW.	0	9	8	8	10	10	3	4	10	0	8	11	12	7	5	0	0	0	4	1	0	0	0	1	0
February	8.8	SW.	24	NE.	0	11	6	6	6	9	11	4	5	0	4	12	13	9	6	0	0	0	4	4	0	0	0	1	0
March	9.7	NW.	32	S.	1	4	5	5	3	9	12	7	17	0	12	9	10	12	10	0	0	0	0	0	0	0	6	2	0
April	8.6	SW.	25	SW.	0	7	5	7	7	12	10	8	4	0	12	4	14	6	4	0	0	0	2	1	0	0	0	3	0
May	8.0	SE.	19	E.	0	7	5	11	15	2	8	2	12	0	12	10	9	11	9	0	0	0	1	1	0	2	0	8	0
June	7.3	SW.	21	E.	0	1	8	6	8	9	16	10	2	0	3	10	17	16	13	0	0	0	0	0	0	6	15	15	0
July	6.5	SW.	31	NW.	0	2	3	3	5	11	17	14	6	1	10	11	10	16	12	0	0	0	1	0	0	23	0	17	0
August	6.7	SE.	23	E.	0	3	9	15	14	6	11	1	3	0	3	10	18	19	15	0	0	0	6	0	0	14	0	13	0
September	7.4	E.	23	SE.	0	6	19	21	8	3	1	2	1	0	5	9	16	14	11	0	0	0	4	1	0	8	0	7	0
October	8.2	NW.	42	NW.	1	5	14	9	7	3	8	2	14	0	14	7	10	8	7	0	0	0	1	0	0	0	0	3	0
November	8.7	NE.	23	SE.	0	4	23	6	2	3	1	7	14	0	14	2	14	11	8	0	0	0	1	0	0	0	0	0	0
December	8.4	S.	22	NW.	0	5	10	10	8	17	5	0	7	0	5	7	19	9	7	0	0	0	8	3	0	0	0	0	0
Year	8.1	SW.	42	NW.	2	63	115	107	93	94	103	61	95	1	102	102	162	138	107	0	0	0	32	11	0	62	9	70	0

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.39	30.00	28.75	36.4	39.4	37.6	43.7	32.0	37.8	63	12	31	32	32	81	75	79	0.190	0.194	0.188	5.17	1.02	0.6	8.4	7.9	6.5	7.6
February	29.32	30.03	28.52	32.0	36.8	36.6	41.7	27.4	34.6	67	12	26	25	27	76	60	67	.151	.143	.157	1.29	.36	4.2	5.7	6.9	5.1	6.2
March	29.24	29.70	28.45	27.3	34.1	33.1	37.6	24.0	30.8	60	4	20	19	22	72	63	62	.116	.115	.126	1.96	1.12	8.2	6.9	8.0	7.5	7.3
April	29.32	29.82	28.88	40.5	49.4	48.1	53.6	36.4	45.0	73	27	31	30	32	68	51	56	.179	.177	.185	1.48	.36	.6	5.9	5.9	5.1	5.0
May	29.36	29.78	29.04	56.5	66.8	63.0	70.2	50.9	60.6	88	37	46	47	47	69	52	58	.326	.342	.335	2.01	1.17	.0	4.3	4.8	4.8	4.4
June	29.25	29.53	28.94	67.3	75.8	74.9	79.5	61.5	70.5	89	45	57	57	57	70	54	56	.483	.491	.486	1.11	.57	.0	4.4	4.4	4.1	3.8
July	29.25	29.55	28.74	68.9	78.8	78.9	83.8	63.8	73.8	98	55	58	56	57	69	49	50	.494	.470	.479	3.23	1.03	.0	3.6	4.0	2.6	3.2
August	29.33	29.64	29.04	67.9	79.6	77.9	83.3	63.8	73.6	95	53	58	58	58	71	49	52	.484	.489	.494	1.43	.57	.0	2.7	3.8	3.5	3.2
September	29.42	29.72	28.90	58.7	70.0	67.3	73.1	55.9	64.5	88	43	52	53	54	80	56	64	.409	.424	.438	4.63	3.25	.0	3.0	3.8	3.3	3.5
October	29.30	29.66	28.91	49.0	57.0	54.1	60.5	45.4	53.0	77	37	43	43	44	80	62	70	.290	.294	.299	4.68	1.01	.0	6.7	6.3	6.2	6.3
November	29.50	30.12	28.98	33.1	39.5	37.7	43.5	30.2	36.5	62	17	27	29	30	78	66	72	.156	.168	.174	2.12	1.36	12.0	6.1	5.7	6.2	5.9
December	29.43	30.02	28.86	28.4	33.9	31.7	37.8	22.9	30.4	62	−1	24	24	24	81	67	72	.143	.153	.148	3.98	1.51	5.7	6.6	5.6	6.1	5.9
Year	29.34	30.12	28.45	47.2	55.1	53.4	59.0	42.8	51.0	98	−1	39	39	40	75	58	63	.285	.288	.292	33.11	3.25	31.3	5.4	5.6	5.1	5.2

TOPEKA, KANS.

[ϕ=39°03′ N.; λ=95°41′ W.]

January				25.7			38.0	22.6	30.3	60	2										0.88	0.40	1.4				6.2
February				33.4			53.0	30.2	41.6	79	5										.56	.20	3.4				5.4
March				28.6			45.5	26.0	35.8	74	4										1.31	.97	9.9				5.0
April				49.6			67.4	47.2	57.3	84	34										2.58	1.02	.0				5.2
May				58.8			77.1	55.0	66.0	90	43										2.59	.74	.0				3.6
June				69.7			85.5	65.5	75.5	95	59										4.46	2.08	.0				4.5
July				74.1			90.6	70.9	80.8	100	60										2.89	1.23	.0				3.3
August				70.9			89.4	67.9	78.6	97	56										7.82	3.24	.0				3.6
September				58.8			79.2	56.9	68.0	95	47										1.89	.84	.0				3.8
October				46.0			65.7	43.5	54.6	85	32										1.00	.67	.0				3.9
November				31.0			50.0	28.2	39.1	66	8										.60	.40	3.0				3.5
December				23.4			37.4	20.5	29.0	69	−7										1.78	.78	6.2				5.4
Year				47.5			64.9	44.5	54.7	100	−7										28.36	3.24	23.9				4.4

TRENTON, N.J.

[ϕ=40°13′ N.; λ=74°46′ W.]

January	29.94	30.41	29.31	40.9	45.9	43.9	50.3	36.5	43.4	73	20	34	35	35	78	66	72	0.208	0.218	0.221	4.18	1.40	0.5	7.5	7.6	6.2	7.6
February	29.80	30.45	29.23	32.5	39.8	38.1	44.9	28.8	36.8	63	18	25	26	27	74	60	65	.144	.156	.155	1.51	.55	1.3	5.9	6.8	4.6	6.7
March	29.61	30.16	28.31	33.6	40.4	37.6	44.8	28.9	36.8	64	13	24	26	26	67	56	62	.141	.153	.154	5.59	2.61	1.8	4.5	6.5	4.7	5.8
April	29.75	30.27	29.14	45.4	54.7	50.5	59.1	39.3	49.2	78	30	34	35	35	67	52	58	.207	.215	.212	2.25	1.33	T	5.3	6.5	4.7	5.0
May	29.84	30.21	29.50	58.6	66.5	62.2	70.8	51.2	61.0	88	40	48	46	46	69	52	59	.348	.333	.333	3.06	1.01	.0	5.8	5.2	4.7	5.1
June	29.70	30.04	29.27	68.0	76.1	71.6	80.1	60.5	70.3	92	44	57	55	57	70	51	62	.487	.465	.485	3.49	1.54	.0	5.9	5.3	6.0	5.5
July	29.66	29.91	29.16	72.3	80.7	76.0	84.5	64.8	74.6	93	59	60	59	60	68	49	59	.528	.509	.522	3.63	1.09	.0	4.1	5.6	5.2	5.2
August	29.79	30.13	29.54	71.5	81.9	75.6	85.2	65.5	75.4	94	60	61	59	61	71	48	62	.545	.511	.550	5.55	2.93	.0	3.9	4.2	4.3	4.3
September	29.87	30.30	29.35	62.6	74.0	68.1	77.6	57.6	67.6	93	41	55	52	55	76	49	65	.455	.430	.465	2.70	1.54	.0	4.5	4.8	4.3	4.6
October	29.84	30.23	29.33	53.1	62.3	56.9	65.6	48.4	57.0	81	30	47	45	47	80	56	72	.346	.328	.349	4.69	2.00	.0	6.2	5.8	4.9	6.0
November	29.99	30.63	29.22	39.0	47.7	44.0	51.7	34.3	43.0	66	12	33	35	34	81	64	69	.213	.232	.218	7.53	2.19	T	5.0	5.7	3.2	5.0
December	29.97	30.45	29.28	33.7	41.5	38.8	45.7	29.5	37.6	65	9	28	30	30	78	64	73	.164	.175	.183	3.06	1.06	8.9	5.7	5.8	6.5	6.1
Year	29.81	30.63	28.31	50.9	59.3	55.3	63.4	45.4	54.4	94	9	42	42	43	73	56	65	.316	.310	.321	47.25	2.93	12.5	5.4	5.8	4.9	5.6

VALENTINE, NEBR.

[ϕ=42°50′ N.; λ=100°32′ W.]

January	27.27	27.77	26.37	13.6	22.1	18.9	25.5	8.6	17.0	42	−10	11	16	16	89	77	87	0.074	0.093	0.092	0.15	0.04	1.7	5.3	6.3	5.8	6.1
February	27.23	27.62	26.55	22.8	37.2	32.7	42.4	18.0	30.2	68	−4	18	23	24	83	59	71	.109	.130	.136	.16	.08	3.8	4.8	7.0	7.0	6.1
March	27.28	27.77	26.74	18.4	32.0	30.4	37.1	14.6	25.8	65	−11	16	19	20	90	61	68	.104	.112	.117	.92	*.45	8.7	5.6	6.4	9.8	6.0
April	27.22	27.71	26.76	42.9	56.2	56.5	61.5	39.2	50.4	78	24	36	34	34	77	50	50	.226	.219	.216	2.34	1.01	1.1	7.6	6.9	7.3	6.9
May	27.26	27.65	26.83	51.6	67.3	67.4	72.6	47.7	60.2	92	31	44	43	44	78	46	48	.299	.290	.299	2.66	1.53	.0	4.5	5.9	6.4	5.3
June	27.22	27.41	26.93	60.6	76.1	76.9	80.7	56.6	68.6	93	48	55	53	55	83	47	48	.440	.411	.437	4.53	1.86	.0	6.3	6.8	7.4	5.5
July	26.26	27.54	26.86	66.3	82.4	82.6	87.6	62.7	75.2	102	51	57	56	58	73	43	46	.474	.458	.483	2.05	.58	.0	4.2	3.4	4.6	4.2
August	27.25	27.57	26.83	64.0	82.2	81.6	87.4	61.8	74.6	98	49	57	55	55	79	42	42	.478	.453	.451	1.34	.90	.0	3.7	2.2	4.2	3.4
September	27.37	27.77	26.85	50.1	72.5	70.7	77.0	47.2	62.1	93	30	40	39	39	69	32	34	.254	.243	.245	.16	.14	.0	3.2	2.4	3.3	2.7
October	27.30	27.69	26.89	35.6	51.0	48.1	56.8	31.7	44.2	85	17	31	31	32	83	53	58	.175	.177	.181	1.55	.84	7.8	4.4	5.1	6.2	5.0
November	27.35	27.82	26.92	30.0	45.9	39.6	51.1	24.0	37.6	74	4	21	23	21	68	44	49	.112	.124	.114	.01	.01	T	5.3	6.5	6.1	6.1
December	27.29	27.82	26.76	15.0	27.4	22.5	31.0	9.2	20.1	59	−22	10	15	14	82	60	72	.074	.090	.087	.18	.10	2.8	4.8	6.3	5.1	5.0
Year	27.28	27.82	26.37	39.2	54.4	52.3	59.2	35.1	47.2	102	−22	33	34	34	80	51	56	.235	.233	.238	16.05	1.86	25.9	5.0	5.4	6.1	5.2

*Estimated.

Annual meteorological summaries for the year ending December 31, 1932—Continued

TOLEDO, OHIO

[H_b=628 ft.; h_t=79 ft.; h_r=72 ft.; h_a=87 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	14.5	W.	47	SW.	4	4	0	8	1	11	15	21	2	0	3	7	21	16	16	7	4	0	7	0	1	0	14	1	0
February	13.8	SW.	50	SW.	4	9	2	5	3	6	16	11	6	0	8	6	15	12	9	7	3	0	5	0	5	0	22	1	0
March	14.4	W.	41	SW.	4	10	3	6	1	5	9	18	10	0	3	12	16	10	6	16	8	0	2	0	12	0	24	1	0
April	13.0	E.	39	SW.	1	11	6	19	0	3	4	11	6	0	13	6	11	11	8	3	2	0	5	1	0	0	8	0	0
May	11.8	SW.	44	SW.	4	6	5	10	2	8	14	13	4	0	12	13	6	11	8	0	0	0	0	0	0	0	0	0	0
June	9.6	W.	28	SW.	0	12	3	15	1	7	4	12	6	0	16	8	6	7	4	0	0	0	0	0	0	0	0	6	0
July	9.2	W.	29	W.	0	8	2	6	4	4	4	20	14	0	20	9	2	10	8	0	0	0	1	0	0	0	7	0	0
August	7.6	W.	21	SW.	0	7	2	3	9	3	15	14	9	0	19	9	3	6	4	0	0	0	0	0	0	5	0	4	0
September	8.3	NW.	22	SW.	0	14	8	5	4	1	8	10	10	0	19	4	7	7	5	0	0	0	2	0	0	0	0	4	0
October	10.1	SW.	30	W.	0	2	3	8	7	8	13	12	9	0	7	9	15	17	11	0	0	0	8	2	0	0	0	0	0
November	9.7	SW.	24	W.	0	8	4	4	6	3	17	12	6	0	9	8	13	6	6	5	4	0	4	1	4	0	18	0	0
December	10.6	SW.	32	W.	1	2	4	0	3	6	21	20	6	0	10	7	14	13	9	10	6	0	14	2	11	0	22	1	0
Year	11.0	W.	50	SW.	18	93	42	89	41	65	140	174	88	0	139	98	129	126	94	48	27	1	48	6	33	12	108	36	2

TOPEKA, KANS.

[H_b=987 ft.; h_t=92 ft.; h_r=83 ft.; h_a=107 ft.]

January	9.3	NW.	24	SW.	0	2	4	3	2	1	5	6	8	0	7	9	15	8	4	7	2	0	4	2	8	0	28	0	0
February	9.7	SW.	30	NW.	0	2	3	5	4	4	3	3	5	0	10	10	9	6	5	4	2	0	5	3	3	0	17	0	0
March	11.3	NW.	35	NE.	1	4	2	2	3	2	4	1	13	0	10	12	9	5	3	8	3	0	1	0	8	0	18	1	0
April	10.3	SE.	32	NW.	1	3	3	7	4	5	2	1	5	0	11	7	12	8	6	0	0	0	1	0	0	0	1	0	3
May	8.9	S.	27	NW.	0	0	1	1	5	8	8	0	8	0	17	9	5	10	10	0	0	0	1	0	0	0	1	0	8
June	7.6	S.	38	NW.	1	4	2	1	1	10	4	4	3	1	11	15	4	13	8	0	0	0	1	0	0	0	5	0	12
July	8.5	S.	30	N.	0	1	1	6	4	4	12	2	1	0	20	7	4	9	7	0	0	0	1	0	0	0	0	0	0
August	8.2	S.	28	W.	0	3	2	0	6	11	4	4	1	0	15	11	5	12	11	0	0	0	1	1	0	0	0	0	0
September	7.7	S.	32	NE.	1	6	2	4	4	5	3	2	3	1	16	7	7	6	5	0	0	0	1	2	0	0	1	0	5
October	10.0	S.	27	N.	0	3	1	2	1	9	7	1	7	0	16	7	8	7	5	0	0	0	1	0	0	0	0	2	2
November	9.7	S.	29	NW.	0	3	1	0	5	8	5	4	4	0	17	5	8	3	2	1	1	0	1	1	2	0	22	0	0
December	8.9	SW.	27	NW.	0	4	2	1	2	6	4	7	5	0	12	5	14	6	6	5	3	0	6	3	12	0	23	0	0
Year	9.2	S.	38	NW.	4	35	24	32	41	73	61	35	63	2	162	104	100	93	72	25	11	5	26	9	34	41	110	52	0

TRENTON, N.J.

[H_b=190 ft.; h_t=159 ft.; h_r=105 ft.; h_a=183 ft.]

January	11.9	NW.	42	NW.	4	8	6	7	2	7	10	7	15	0	4	6	21	13	12	2	1	0	12	4	1	0	8	0	0
February	10.7	NW.	43	NW.	5	11	6	3	4	7	8	7	12	0	7	7	15	8	7	6	2	0	10	4	0	0	17	0	0
March	14.9	NW.	46	NE.	8	8	2	6	0	7	7	6	26	0	10	10	11	11	8	11	4	0	5	0	0	0	16	0	0
April	12.8	NW.	34	NW.	2	11	8	5	1	8	8	0	13	0	8	14	8	7	6	2	0	0	3	0	0	0	2	1	0
May	10.8	SW.	30	NE.	0	11	5	7	5	6	16	5	7	0	9	15	7	12	9	0	0	0	4	0	0	0	4	0	0
June	9.4	SW.	30	W.	0	7	4	8	3	6	11	12	9	0	8	13	8	8	8	0	0	0	2	4	1	0	2	0	8
July	9.9	NW.	37	NW.	1	10	0	2	4	8	11	11	16	0	8	15	8	8	8	0	0	0	1	2	0	0	7	0	0
August	8.9	S.	38	NE.	2	10	4	1	6	17	8	5	11	0	14	12	5	10	7	0	0	0	5	2	0	0	4	0	7
September	8.9	N.	34	N.	1	13	10	1	6	14	7	4	5	0	12	11	7	7	4	0	0	0	10	3	0	0	2	0	3
October	9.9	N.	34	N.	1	13	10	1	6	14	7	4	5	0	11	7	13	10	7	0	0	0	8	2	0	0	0	0	0
November	11.4	NW.	37	W.	1	3	11	4	3	10	10	6	15	0	12	8	10	11	10	2	0	0	7	2	1	0	11	0	0
December	11.7	N.	42	NW.	3	18	9	4	1	6	7	6	9	0	10	7	14	14	12	8	3	0	16	6	5	0	16	0	0
December	10.2	SW.	35	SW.	1	5	9	2	2	5	18	6	15	0	10	7	14	14	12	8	3	0	16	6	5	0	16	0	0
Year	11.0	NW.	46	NE.	28	115	74	50	37	101	121	81	153	0	114	119	133	123	97	31	10	2	88	25	13	15	70	31	2

VALENTINE, NEBR.

[H_b=2,598 ft.; h_t=47 ft.; h_r=36 ft.; h_a=54 ft.]

January	8.4	W.	26	SW.	0	8	2	5	2	1	9	22	11	2	7	10	14	7	1	15	7	0	4	2	21	0	31	0	0
February	9.8	W.	28	SE.	0	9	3	5	1	3	8	20	8	1	4	12	13	3	3	8	3	0	2	0	8	0	22	0	0
March	10.0	W.	32	N.	1	17	4	3	3	2	2	17	11	3	4	20	7	13	6	16	11	0	4	3	13	0	30	0	0
April	12.8	N.	38	SE.	2	13	3	4	12	9	2	7	9	1	5	8	17	9	6	3	3	0	6	1	0	0	7	1	1
May	10.4	N.	42	SW.	1	10	6	8	8	7	7	11	5	0	7	16	8	10	8	0	0	0	2	1	0	2	1	8	1
June	8.9	N.	30	S.	0	9	3	7	6	8	7	11	7	2	5	18	7	9	8	0	0	0	2	0	0	3	0	14	0
July	9.4	S.	29	SW.	0	9	4	10	8	11	9	7	3	1	8	19	4	11	8	0	0	0	2	0	0	0	14	0	0
August	9.6	S.	32	NE.	1	3	4	9	10	9	8	11	7	1	8	19	4	11	8	0	0	0	2	0	0	0	15	0	0
September	8.9	N.	28	N.	0	12	6	2	5	12	6	13	3	1	16	13	2	6	4	0	0	0	2	2	0	0	15	0	11
October	9.5	W.	40	NW.	1	15	2	3	1	6	2	19	12	2	10	11	10	7	6	6	3	0	4	1	0	0	4	1	2
November	10.8	W.	29	S.	0	7	6	1	1	7	11	13	14	0	7	9	14	1	0	6	1	0	0	0	4	0	26	0	0
December	8.7	W.	34	NW.	1	11	1	1	1	3	10	24	8	3	9	17	5	8	2	12	8	0	0	0	14	0	30	0	0
Year	9.8	W.	42	SW.	7	123	44	58	58	78	81	175	98	17	102	161	103	87	53	66	36	4	27	10	62	39	167	51	5

Annual meteorological summaries for the year ending December 31, 1932—Continued

VICKSBURG, MISS.

[ϕ=32°22′ N.; λ=90°53′ 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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.86	30.33	29.34	49.5	57.7	55.9	61.9	46.5	54.2	78	33	44	44	45	81	64	69	0.321	0.336	0.325	9.96	4.66	0.0	6.6	6.7	4.7	6.4
February	29.78	30.25	29.49	55.1	63.0	62.4	67.7	52.4	60.0	81	34	48	49	49	77	63	64	.361	.372	.360	4.12	1.44	.0	6.7	6.8	5.9	6.9
March	29.75	30.17	29.16	47.7	57.0	57.4	61.9	44.8	53.4	81	22	40	37	38	73	51	52	.278	.256	.261	6.64	4.49	T	5.5	5.7	4.7	5.7
April	29.73	30.08	29.40	59.0	71.7	72.1	76.7	57.6	67.2	87	47	52	51	53	79	50	52	.407	.391	.413	2.21	.56	.0	5.6	5.2	4.7	5.1
May	29.75	29.96	29.38	64.9	77.0	74.9	80.3	62.8	71.6	88	57	57	56	58	77	52	59	.480	.471	.501	1.40	.66	.0	6.0	3.8	5.9	6.2
June	29.67	29.87	29.45	75.3	86.4	84.0	90.1	71.8	81.0	95	67	70	68	69	82	54	62	.725	.687	.714	2.02	.71	.0	4.6	5.4	5.9	5.7
July	29.74	29.92	29.51	78.2	89.1	84.1	92.8	74.9	83.8	98	70	73	72	72	84	58	70	.802	.790	.796	2.24	.82	.0	4.2	4.5	6.9	5.2
August	29.71	29.87	29.56	75.0	87.4	84.2	91.6	72.5	82.0	96	65	70	70	71	85	58	66	.735	.746	.761	1.77	.63	.0	4.6	4.9	5.1	5.2
September	29.74	29.91	29.42	68.2	80.8	77.0	83.9	66.7	75.3	92	55	64	64	65	86	58	68	.603	.608	.630	5.78	3.16	.0	5.3	6.1	5.1	5.9
October	29.77	30.04	29.27	55.9	69.6	66.3	73.5	53.9	63.7	85	41	52	53	54	86	58	65	.405	.424	.434	5.52	2.83	.0	4.1	3.9	3.3	3.9
November	29.92	30.32	29.40	44.1	57.1	54.2	61.1	41.8	51.4	76	30	39	38	40	81	53	60	.252	.257	.268	4.10	1.89	.0	4.0	2.7	3.2	3.6
December	29.90	30.33	29.35	42.9	48.7	47.8	53.0	39.8	46.4	72	16	40	40	41	90	75	80	.268	.272	.282	11.82	1.84	2.5	8.1	8.2	7.5	8.2
Year	29.78	30.33	29.16	59.6	68.8	68.4	74.5	57.1	65.8	98	16	54	54	55	82	58	64	.470	.468	.479	67.58	4.66	2.5	5.4	5.3	5.2	5.7

WALLA WALLA, WASH.

[ϕ=46°02′ N.; λ=118°20′ W.]

January	29.03	29.60	28.26	31.8	35.1	34.8	39.2	27.0	33.1	60	14	26	26	28	80	72	76	0.145	0.146	0.156	1.51	0.50	8.3	5.7	8.6	7.7	8.3
February	28.99	29.31	28.31	34.7	40.1	40.4	43.6	31.1	37.4	70	1	26	27	29	71	60	64	.146	.157	.170	1.86	.61	6.1	6.7	8.0	6.9	7.6
March	29.00	29.36	28.57	41.4	48.3	49.7	52.8	38.4	45.6	72	26	34	34	36	74	58	59	.196	.198	.214	3.43	.81	3.3	7.1	8.1	8.4	7.7
April	28.86	29.32	28.45	47.1	58.0	62.7	64.5	43.9	54.2	83	36	35	35	34	62	43	37	.203	.204	.202	.94	.24	.0	5.5	6.9	5.4	5.8
May	28.91	29.22	28.64	50.1	63.9	68.0	70.0	48.4	59.2	83	40	40	39	39	68	43	37	.247	.247	.243	1.31	.46	.0	5.4	5.2	5.2	5.1
June	28.86	29.09	28.63	58.9	76.3	81.3	82.9	57.5	70.2	97	45	42	42	40	55	30	24	.271	.269	.250	.06	.06	.0	3.0	2.7	3.1	2.9
July	28.87	29.16	28.31	60.5	76.8	83.1	84.3	59.3	71.8	100	52	43	42	38	53	30	22	.281	.272	.238	.33	.20	.0	2.6	2.6	2.9	2.8
August	28.84	29.12	28.56	62.0	78.2	83.4	85.0	60.2	72.6	99	52	44	44	41	52	30	24	.287	.288	.256	T	T	.0	3.7	2.7	2.8	3.0
September	28.99	29.26	28.75	56.0	71.9	77.6	79.3	52.8	66.0	95	40	38	38	38	51	30	25	.230	.228	.229	.05	.05	.0	1.3	2.9	2.2	2.3
October	29.01	29.48	28.59	50.2	60.6	61.2	65.2	46.6	55.9	84	37	37	38	37	63	46	46	.229	.233	.232	1.48	.62	.0	5.6	5.5	6.0	5.8
November	29.01	29.48	28.43	45.2	51.7	49.4	54.8	41.0	47.9	68	31	36	37	38	73	61	68	.214	.227	.237	3.07	1.41	.0	6.7	7.2	7.3	7.8
December	29.07	29.40	28.26	30.9	35.2	33.7	38.5	25.8	32.2	60	−1	20	22	23	66	59	64	.123	.137	.136	.72	.23	.9	5.5	6.4	6.3	6.4
Year	28.95	29.60	28.26	47.4	58.0	60.4	63.3	44.3	53.8	100	−1	35	35	35	64	47	46	.214	.217	.214	14.76	1.41	20.6	4.9	5.6	5.4	5.5

WASHINGTON, D.C.

[ϕ=38°54′ N.; λ=77°03′ W.]

January	30.03	30.48	29.41	43.0	48.7	47.7	54.2	39.4	46.8	77	25	35	34	35	74	60	64	0.216	0.217	0.228	4.82	1.31	T	7.4	6.8	5.9	7.0
February	29.91	30.62	29.43	36.1	44.8	45.6	52.1	33.7	42.9	76	22	28	28	28	72	53	50	.165	.164	.162	2.46	1.61	T	6.0	6.0	4.2	6.0
March	29.76	30.21	28.55	34.9	43.2	41.3	48.9	31.2	40.0	71	14	26	26	24	69	51	51	.154	.154	.139	6.45	2.25	4.0	6.1	4.7	4.4	5.1
April	29.85	30.41	29.35	47.0	57.6	56.8	63.2	42.0	52.6	81	33	34	32	33	62	41	45	.209	.191	.202	2.12	1.37	.0	4.8	4.6	4.5	4.5
May	29.92	30.29	29.63	59.4	69.3	67.4	74.3	54.0	64.2	91	44	49	48	49	70	49	54	.358	.348	.365	5.07	2.19	.0	5.3	4.5	4.5	4.5
June	29.79	30.11	29.42	69.4	77.4	76.1	83.0	63.4	73.2	93	49	59	58	60	71	53	61	.506	.498	.544	2.84	1.88	.0	5.1	6.0	5.8	4.8
July	29.77	30.04	29.29	72.6	81.9	79.8	86.7	68.1	77.4	95	60	62	60	62	70	50	56	.558	.543	.571	2.43	.70	.0	4.1	4.6	4.5	4.2
August	29.88	30.17	29.62	71.7	83.4	79.9	88.3	67.3	77.8	100	58	63	59	62	74	45	56	.579	.514	.567	1.36	.48	.0	4.5	3.7	3.6	3.8
September	29.96	30.38	29.51	64.6	75.6	71.0	80.2	60.4	70.3	98	46	56	54	54	75	49	59	.483	.454	.458	4.24	1.64	.0	4.3	4.1	3.4	4.0
October	29.92	30.31	29.51	52.6	62.8	59.7	67.0	49.0	58.0	81	36	46	46	48	80	56	69	.333	.334	.368	7.40	3.68	.0	5.5	5.7	4.8	5.8
November	30.08	30.70	29.38	39.4	48.4	46.0	53.5	35.9	44.7	68	18	33	32	33	78	55	62	.206	.199	.213	6.43	1.84	.0	4.4	4.5	3.9	5.2
December	30.07	30.55	29.43	35.2	43.1	40.8	48.3	30.9	39.6	68	14	28	30	30	77	63	69	.164	.177	.186	3.98	1.66	14.5	5.7	5.9	6.8	6.8
Year	29.91	30.70	28.55	52.2	61.4	59.3	66.6	47.9	57.3	100	14	43	42	43	73	52	58	.328	.316	.334	49.55	3.68	18.5	5.3	5.1	4.7	5.1

WAUSAU, WIS.

[ϕ=44°57′ N.; λ=89°35′ W.]

January	28.63	29.30	27.96	19.6	24.5	.....	27.5	15.1	21.3	40	−19	16	21	...	86	86	...	0.098	0.121	.....	1.92	0.40	17.9	8.3	8.7	.....	8.5
February	28.60	29.30	27.49	13.5	23.2	.....	28.3	8.7	18.5	45	−10	10	18	...	84	81	...	0.82	.108	.....	1.70	.55	9.8	4.8	5.1	.....	6.4
March	28.57	29.03	28.00	16.0	25.8	.....	29.8	13.5	21.6	48	−11	13	20	...	87	75	...	.090	.112	.....	1.00	.34	7.5	5.8	4.3	.....	5.3
April	28.70	29.02	28.28	34.5	48.5	.....	52.6	31.6	42.1	75	19	27	35	...	75	62	...	.151	.215	.....	2.20	.85	3.2	4.0	4.7	.....	4.1
May	28.67	29.06	28.29	49.8	62.8	.....	66.4	44.2	55.3	88	32	44	54	...	81	74	...	.297	.421	.....	2.63	1.73	.0	6.3	6.8	.....	6.3
June	28.60	28.87	28.07	62.4	76.3	.....	80.4	55.9	68.2	87	46	56	58	...	79	54	...	.449	.491	.....	1.95	.56	.0	4.3	6.4	.....	3.8
July	28.60	28.92	28.10	64.3	79.5	.....	83.0	58.0	70.5	100	44	55	54	...	72	44	...	.445	.435	.....	1.55	.49	.0	4.6	4.4	.....	3.6
August	28.66	29.00	28.36	61.7	77.2	.....	81.0	57.3	69.2	92	45	55	58	...	80	54	...	.449	.493	.....	2.25	.86	.0	5.4	6.5	.....	5.3
September	28.76	29.08	28.35	48.6	67.5	.....	71.3	44.7	58.0	85	33	43	45	...	82	48	...	.292	.314	.....	1.92	1.08	.0	2.8	3.4	.....	3.9
October	28.61	29.00	28.07	38.9	48.8	.....	52.5	34.5	43.5	80	24	33	37	...	81	66	...	.190	.225	.....	1.10	.39	6.1	6.2	8.1	.....	8.5
November	28.74	29.36	28.12	24.5	32.8	.....	35.9	20.2	28.0	54	1	21	26	...	84	73	...	.122	.143	.....	2.62	1.38	2.8	7.0	6.3	.....	7.6
December	28.64	29.23	27.87	14.7	22.1	.....	25.4	9.6	17.5	50	−19	12	16	...	87	75	...	.089	.099	.....	2.21	1.19	6.7	5.5	4.6	.....	6.0
Year	28.65	29.36	27.49	37.4	49.1	.....	52.8	32.5	42.8	100	19	32	37	...	82	66	...	.230	.265	.....	23.05	1.75	54.0	5.4	5.8	.....	5.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

VICKSBURG, MISS.

[H_b=247 ft.; h_t=65 ft.; h_r=58 ft.; h_s=73 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.7	SE.	30	NW.	0	6	7	10	15	12	2	2	8	0	9	4	18	11	9	0	0	0	3	2	0	0	0	2	0
February	8.1	S.	21	NW.	0	9	7	9	5	15	6	4	2	1	6	7	16	12	11	0	0	0	4	4	0	0	0	0	0
March	9.6	N.	32	W.	1	16	9	2	7	10	9	4	5	0	9	10	12	9	5	2	0	0	1	0	0	0	4	2	0
April	7.8	S.	19	W.	0	5	7	4	8	17	10	3	6	0	12	6	12	6	6	0	0	0	0	0	0	0	4	4	0
May	7.2	NE.	17	E.	0	9	15	8	12	8	1	5	4	0	8	7	16	10	5	0	0	0	2	1	0	0	3	3	0
June	6.7	SW.	19	S.	0	1	2	7	12	11	19	4	4	0	6	18	6	8	7	0	0	1	6	0	0	18	0	9	0
July	6.2	SE.	25	W.	0	8	11	5	9	7	9	10	2	0	9	13	9	12	9	0	0	0	1	0	0	27	0	16	0
August	6.1	SE.	34	NW.	1	8	10	5	16	12	4	6	1	0	6	21	4	7	4	0	0	0	1	0	0	24	0	10	0
September	6.6	N.	22	E.	0	17	15	9	5	5	0	2	7	0	7	13	10	7	5	0	0	0	2	1	0	6	0	1	0
October	7.1	N.	21	NW.	0	13	10	5	9	7	4	3	11	0	17	4	10	7	7	0	0	0	3	1	0	0	0	2	0
November	7.9	NE.	21	NW.	0	12	13	6	7	7	3	4	8	0	17	7	6	11	8	0	0	0	6	1	0	0	4	1	0
December	7.8	N.	25	NW.	0	10	12	3	11	7	5	1	7	0	4	4	23	18	14	4	1	0	12	2	2	0	6	6	0
Year	7.5	N.	34	NW.	2	120	118	73	116	118	72	48	66	1	110	114	142	118	90	6	1	1	35	12	2	75	14	56	0

WALLA WALLA, WASH.

[H_b=991 ft.; h_t=57 ft.; h_r=50 ft.; h_s=65 ft.]

January	5.2	S.	30	W.	0	4	3	1	4	29	9	9	3	0	2	7	22	13	11	10	6	0	9	5	9	0	24	0	0
February	5.8	S.	27	W.	0	1	3	1	12	25	9	6	1	0	3	8	18	13	9	7	4	1	5	1	6	0	13	0	0
March	7.0	S.	30	W.	0	3	2	0	9	22	16	9	1	0	5	5	21	18	16	4	3	1	3	0	0	0	6	2	0
April	6.5	S.	26	W.	0	5	4	5	6	21	6	11	2	0	6	14	10	9	7	0	0	2	0	0	0	0	2	0	0
May	5.6	SW.	24	W.	0	4	1	5	7	19	11	13	1	1	10	12	9	10	8	0	0	0	0	0	0	0	1	1	1
June	5.7	SW.	16	W.	0	2	4	2	10	18	13	11	0	0	20	7	3	1	1	0	0	0	0	0	0	8	0	2	0
July	6.4	W.	28	W.	0	0	0	0	5	27	3	26	1	0	20	7	4	3	2	0	0	0	0	0	0	8	0	1	0
August	6.0	S.	18	W.	0	3	0	1	7	23	11	14	2	1	18	8	5	0	0	0	0	0	0	0	0	12	0	2	0
September	5.2	W.	23	W.	0	2	0	1	13	16	12	13	3	0	22	5	3	1	1	0	0	0	0	0	0	3	0	0	0
October	5.5	S.	23	W.	0	2	3	1	6	29	13	7	1	0	11	6	14	8	6	0	0	0	0	0	0	0	1	0	0
November	6.7	S.	29	W.	0	3	3	4	7	24	12	5	2	0	3	6	21	14	6	0	0	0	8	4	0	2	0	0	0
December	6.8	S.	28	SE.	0	1	3	1	8	30	10	3	4	2	7	8	16	12	6	3	3	0	2	0	12	0	14	0	0
Year	6.0	S.	30	W.	0	30	26	22	94	283	125	127	21	4	127	93	146	102	73	24	16	4	27	10	27	31	59	11	1

WASHINGTON, D.C.

[H_b=112 ft.; h_t=62 ft.; h_r=42 ft.; h_s=85 ft.]

January	7.5	NW.	30	NW.	0	6	2	7	2	13	10	5	17	0	7	6	18	12	10	2	2	0	15	1	0	0	3	0	0
February	7.8	NW.	30	NW.	0	8	4	2	2	11	12	3	15	1	8	8	13	11	7	1	1	0	8	1	0	0	14	0	0
March	8.3	NW.	36	NW.	3	5	5	3	5	7	5	4	30	1	12	10	9	11	9	4	1	0	6	1	5	0	11	2	0
April	10.5	NW.	27	NW.	0	7	5	4	4	11	6	4	19	0	13	10	7	9	8	0	0	0	2	0	0	0	3	0	0
May	8.4	NW.	27	NW.	0	7	5	4	4	11	6	4	19	0	13	10	7	10	9	0	0	0	2	0	0	2	0	6	0
June	7.0	NW.	21	NW.	0	6	7	7	7	13	8	2	11	1	14	10	7	9	7	0	0	0	1	0	0	6	0	5	0
July	6.1	SW.	19	SW.	0	1	6	9	4	7	17	6	10	0	13	10	7	9	7	0	0	0	3	0	0	11	0	5	0
June	6.1	SW.	19	SW.	0	1	6	9	4	7	17	6	10	0	13	10	7	9	7	0	0	0	3	0	0	11	0	5	0
July	6.7	NW.	25	NW.	0	2	7	3	3	5	21	4	16	1	17	8	6	7	6	0	0	0	0	0	0	13	0	3	0
August	5.7	S.	22	W.	0	9	2	3	4	20	8	7	8	1	16	12	3	5	5	0	0	0	0	0	0	0	0	0	0
September	6.4	S.	21	N.	0	11	4	3	2	16	6	4	10	4	13	14	3	8	6	0	0	0	5	1	0	4	0	3	0
October	7.1	S.	24	NW.	0	5	5	10	0	14	7	7	12	2	12	4	15	10	9	0	0	0	7	1	0	0	0	2	0
November	7.7	NW.	28	NW.	0	16	4	4	1	12	4	1	18	0	12	9	9	11	10	0	0	0	13	2	0	0	8	1	0
December	6.1	S.	25	NW.	0	9	4	2	1	10	17	2	15	2	7	7	17	11	6	3	2	0	16	0	3	0	16	0	0
Year	7.2	NW.	36	NW.	3	85	55	57	32	139	121	49	181	13	144	108	114	114	92	10	6	0	78	7	8	36	52	30	0

WAUSAU, WIS.

[H_b=1,247 ft.; h_t=4 ft.; h_r=4 ft.; h_s=62 ft.]

January	6.8	W.	21	E.	0	3	1	2	3	5	4	6	7	0	4	1	26	19	12	21	17	0	3	2	19	0	30	0	0
February	7.2	W.	26	W.	0	5	0	1	6	2	1	6	8	0	7	9	13	8	6	13	7	0	2	0	19	0	29	0	0
March	7.9	NW.	24	W.	0	3	1	2	3	5	0	2	14	1	14	6	11	7	7	10	6	0	0	0	17	0	31	0	0
April	7.7	E.	22	N.	0	11	0	9	3	1	1	2	3	0	16	5	9	7	7	7	5	3	0	0	1	0	19	1	0
May	7.7	S.	25	W.	0	4	3	4	2	10	1	5	1	1	10	8	13	13	11	6	0	0	0	0	0	0	0	1	5
June	6.5	S.	25	W.	0	5	0	10	5	4	2	1	3	0	18	8	4	8	8	7	0	0	0	0	1	0	0	0	6
June	5.9	SE.	24	W.	0	9	0	1	2	7	1	7	4	0	19	9	3	8	8	7	0	0	0	0	0	0	0	0	0
July	6.8	N.	21	SW.	0	5	0	4	4	6	0	4	4	3	12	6	13	5	7	5	0	0	0	0	0	1	0	0	0
August	5.9	S.	17	W.	0	5	1	4	5	3	0	9	4	2	16	7	7	4	9	6	3	0	0	0	1	0	0	0	0
September	6.2	W.	24	SW.	0	5	2	0	4	3	0	6	5	1	3	2	25	14	9	6	6	0	0	0	1	0	12	2	0
October	7.0	W.	22	W.	0	8	0	4	3	0	0	6	5	0	5	6	19	7	7	6	3	0	0	0	9	0	25	0	0
November	7.5	S.	21	W.	0	4	1	2	5	6	1	6	5	0	5	6	19	8	6	14	7	0	1	1	17	0	30	0	0
December	7.1	N.	21	W.	0	10	0	2	0	6	4	8	1	0	10	8	13	8	6	14	7	0	1	1	17	0	30	0	0
Year	6.9	W.	26	W.	0	72	9	41	42	58	15	62	59	8	134	75	157	114	90	75	49	0	8	13	82	10	177	28	0

Annual meteorological summaries for the year ending December 31, 1932—Continued

WICHITA, KANS.

[ϕ=37°41′ N.; λ=97°20′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.61	29.15	27.85	27.9	34.5	34.5	40.1	24.8	32.4	57	5	24	26	26	85	70	72	0.134	0.143	0.148	1.49	0.53	4.5	4.2	6.0	5.0	5.8
February	28.56	28.98	27.90	36.5	47.5	47.6	53.6	32.8	43.2	77	10	31	31	35	81	56	63	.184	.190	.212	.94	.48	2.3	4.3	6.2	6.4	6.7
March	28.56	29.14	27.92	30.9	42.2	43.4	48.5	27.7	38.1	72	5	24	23	24	78	48	50	.143	.139	.141	.77	.41	6.5	5.4	6.3	5.1	6.1
April	28.47	28.95	27.97	51.9	67.0	66.5	69.7	50.1	59.9	83	35	41	41	40	67	43	43	.270	.278	.272	2.33	.82	.0	6.4	5.6	6.3	6.6
May	28.56	28.91	28.20	59.4	73.1	73.8	77.6	56.5	67.0	89	44	49	48	49	70	44	44	.362	.352	.361	1.90	1.29	.0	4.5	5.3	3.7	4.6
June	28.46	28.68	28.20	68.7	80.2	80.2	84.6	65.4	75.0	97	59	62	61	62	81	54	57	.569	.548	.571	7.92	2.08	.0	5.5	6.6	6.0	6.2
July	28.51	28.74	28.06	74.0	88.0	88.9	93.4	72.1	82.8	101	59	66	64	64	78	47	46	.654	.607	.616	2.53	1.20	.0	3.8	4.1	3.1	3.8
August	28.51	28.72	28.21	72.3	86.9	86.1	91.2	70.0	80.6	102	55	63	60	60	73	42	43	.580	.528	.524	2.30	1.18	.0	4.4	4.4	3.9	4.0
September	28.63	28.94	28.23	61.7	78.3	77.0	82.6	60.4	71.5	95	50	52	52	52	70	42	46	.388	.396	.401	1.26	.60	.0	4.7	4.8	4.3	4.5
October	28.56	29.03	28.17	48.0	61.0	61.9	68.7	44.8	56.8	88	34	38	37	38	69	41	43	.237	.237	.239	.40	.27	.0	4.4	3.6	2.9	3.6
November	28.71	29.16	28.27	34.4	47.7	46.6	53.6	31.2	42.4	68	12	25	22	24	67	37	41	.139	.126	.133	.18	.18	T	4.3	4.2	2.0	4.0
December	28.65	29.14	28.04	26.5	35.1	33.9	39.3	23.5	31.4	67	−4	21	24	24	80	63	68	.126	.140	.139	1.67	1.00	2.3	4.5	5.9	4.3	5.5
Year	28.57	29.16	27.85	49.4	61.8	61.7	66.9	46.6	56.8	102	−4	41	41	42	75	49	51	.316	.307	.313	23.69	2.08	15.6	4.7	5.2	4.4	5.1

WILLISTON, N.DAK.

[ϕ=48°09′ N.; λ=103°35′ W.]

January	27.98	28.61	26.91	6.5	12.7	12.8	19.7	1.5	10.6	43	−24	3	6	7	86	73	76	0.053	0.062	0.064	0.59	0.41	6.3	4.3	4.5	4.9	4.5
February	27.92	28.47	27.22	10.1	19.2	19.7	25.4	4.5	15.0	66	−21	7	12	13	87	72	73	.074	.087	.094	.37	.23	4.0	5.5	5.1	5.3	5.1
March	28.03	28.68	27.40	13.6	23.0	24.5	28.7	11.6	20.2	52	−20	10	15	17	84	72	71	.081	.100	.106	.92	.23	7.6	5.7	4.9	4.8	5.2
April	27.96	28.51	27.54	37.8	51.4	52.9	57.1	35.2	46.2	72	22	32	35	35	81	57	55	.189	.207	.206	1.13	.32	1.1	4.9	4.7	5.4	5.3
May	27.97	28.36	27.60	48.2	64.1	65.7	69.0	45.6	57.0	90	31	39	38	39	72	42	40	.248	.239	.248	1.52	.72	.0	3.9	3.9	3.9	4.0
June	27.88	28.17	27.48	60.0	72.9	73.8	77.5	56.4	67.0	90	50	55	55	56	84	56	56	.437	.436	.447	6.98	3.06	.0	4.6	4.1	3.6	4.2
July	27.91	28.22	27.58	62.1	79.5	81.2	84.7	58.2	71.4	103	47	54	51	51	76	40	38	.424	.390	.377	1.75	.55	.0	2.1	1.6	1.8	1.8
August	27.94	28.28	27.44	59.0	76.0	76.4	80.6	57.0	68.8	90	46	50	50	51	75	43	45	.376	.374	.384	1.24	.26	.0	4.7	4.2	3.8	4.1
September	28.03	28.45	27.46	45.5	66.6	66.1	71.4	43.2	57.3	93	32	37	38	36	75	37	35	.226	.237	.219	.33	.19	.0	3.3	3.1	2.9	3.3
October	28.01	28.42	27.62	32.7	42.6	41.8	47.3	29.9	38.6	80	15	28	31	31	84	67	67	.160	.178	.175	2.11	.67	10.4	5.5	5.8	6.8	6.3
November	28.03	28.54	27.40	23.2	30.1	28.0	34.6	18.5	26.6	50	−7	19	22	22	82	71	76	.107	.122	.122	.62	.27	6.2	5.2	5.2	4.0	5.4
December	27.96	28.56	27.42	11.4	18.8	16.8	23.0	6.7	14.8	47	−21	7	10	11	79	67	72	.066	.079	.079	.18	.14	.5	3.2	3.3	3.2	3.8
Year	27.97	28.68	26.91	34.2	46.4	46.6	51.6	30.6	41.1	103	−24	28	30	31	80	58	59	.203	.209	.210	17.74	3.06	36.1	4.4	4.2	4.3	4.4

WILMINGTON, N.C.

[ϕ=34°14′ N.; λ=77°57′ W.]

January	30.13	30.54	29.62	53.3	63.4	56.8	66.6	48.0	57.3	78	33	48	47	48	83	57	75	0.372	0.360	0.366	2.57	0.99	0.0	4.4	4.6	3.3	5.0
February	29.99	30.64	29.42	49.8	60.3	56.3	65.0	46.8	55.9	77	33	43	42	46	78	54	69	.299	.293	.326	1.93	.77	.0	5.7	5.3	4.2	5.6
March	29.86	30.32	29.58	47.5	56.8	53.4	61.5	42.1	51.8	79	21	38	41	41	71	57	65	.266	.296	.285	3.94	2.00	T	4.3	4.4	3.8	4.7
April	29.92	30.32	29.39	57.7	68.3	62.2	71.1	52.4	61.8	85	41	48	48	50	72	50	66	.352	.353	.370	.91	.38	.0	2.7	3.9	3.2	3.7
May	29.98	30.21	29.66	66.5	73.8	68.7	77.2	60.3	68.8	91	51	60	59	60	81	62	76	.534	.508	.534	5.14	2.72	.0	4.9	5.4	4.1	5.2
June	29.88	30.19	29.44	75.7	81.6	75.8	84.0	69.7	76.8	94	58	70	68	70	82	55	84	.734	.701	.749	3.85	1.58	.0	5.6	6.0	5.8	5.6
July	29.88	30.12	29.51	78.9	87.1	79.6	90.4	72.7	81.6	96	63	72	70	72	79	58	78	.782	.735	.787	4.28	1.53	.0	3.7	4.0	4.8	4.1
August	29.95	30.14	29.79	76.4	84.4	78.4	86.9	71.3	79.1	98	66	71	69	71	84	62	79	.769	.727	.765	3.16	1.16	.0	4.3	5.1	4.1	4.7
September	29.98	30.28	29.53	70.7	79.4	73.7	81.9	65.9	73.9	94	52	65	63	66	82	59	70	.623	.592	.644	5.44	2.90	.0	4.7	5.3	5.1	5.2
October	29.97	30.31	29.55	62.3	73.0	66.7	75.6	57.6	66.6	81	45	58	58	62	86	61	84	.503	.498	.557	5.42	2.48	.0	3.8	4.7	3.5	4.1
November	30.08	30.52	29.52	49.2	60.6	55.0	63.7	44.9	54.3	76	30	44	47	47	82	62	76	.326	.361	.354	6.51	2.97	.0	4.5	3.9	3.6	4.3
December	30.14	30.48	29.68	48.8	59.1	53.6	63.1	44.6	53.8	76	26	45	46	47	85	65	80	.323	.336	.350	2.86	1.14	.0	6.1	6.5	5.2	6.5
Year	29.98	30.64	28.58	61.4	70.7	65.0	73.9	56.4	65.1	98	21	55	55	57	80	59	76	.490	.480	.507	46.01	2.97	T	4.6	4.9	4.2	4.9

WINNEMUCCA, NEV.

[ϕ=40°58′ N.; λ=117°43′ W.]

January	25.67	26.10	24.93	17.5	29.1	28.2	33.6	13.3	23.4	54	−6	16	21	22	92	70	76	0.092	0.114	0.119	1.43	0.33	13.3	4.9	6.6	7.0	6.6
February	25.65	26.09	25.08	14.5	29.1	29.7	34.3	9.6	22.0	48	−18	13	19	21	94	65	68	.086	.106	.113	.70	.31	10.5	3.2	4.4	4.1	4.1
March	25.67	25.98	25.31	33.0	47.2	47.3	51.9	29.9	40.9	73	15	28	28	29	80	48	50	.152	.156	.161	1.04	.39	.1	4.8	6.2	6.6	6.0
April	25.55	25.90	25.15	35.5	55.7	56.7	60.8	32.5	46.6	76	20	27	26	25	71	36	35	.145	.144	.139	1.26	.60	1.2	5.7	5.6	6.1	5.5
May	25.58	25.85	25.30	43.5	63.1	62.9	68.2	41.4	54.8	86	33	36	35	34	77	40	39	.216	.208	.197	1.55	.44	.0	4.4	6.0	6.2	5.3
June	25.56	25.75	25.26	51.9	75.5	76.2	81.3	50.3	65.8	99	35	43	41	39	73	33	30	.278	.256	.244	1.09	.69	T	3.6	3.3	4.2	3.4
July	25.58	25.82	25.39	54.4	83.6	84.8	89.2	52.2	70.7	98	44	34	32	33	48	17	16	.200	.185	.189	.27	.24	.0	1.4	1.0	2.0	1.2
August	25.57	25.80	25.29	51.6	82.4	83.5	88.1	48.6	68.4	99	30	30	32	30	45	17	15	.168	.179	.171	.23	.17	.0	1.5	1.2	.6	1.2
September	25.68	25.86	25.49	46.2	79.4	78.9	84.2	43.5	63.8	94	35	27	32	31	48	19	20	.149	.181	.176	.01	.01	.0	1.2	.8	1.3	1.1
October	25.70	26.07	25.35	33.0	61.8	59.6	66.8	29.2	48.0	84	15	21	27	26	62	27	29	.118	.150	.145	.06	.06	T	.9	2.0	2.1	1.9
November	25.75	26.00	25.37	31.7	53.5	50.4	59.0	25.0	42.0	69	16	21	25	24	66	35	37	.114	.140	.129	.10	.08	T	2.8	4.3	3.9	4.1
December	25.67	26.01	25.27	13.3	29.7	27.2	35.0	8.0	21.5	57	−24	11	18	18	89	60	67	.078	.104	.103	.86	.26	10.3	4.6	5.0	5.0	5.1
Year	25.64	26.10	24.93	35.5	57.5	57.1	62.7	32.0	47.3	99	−24	26	28	28	70	39	40	.150	.161	.157	8.70	.69	35.4	3.2	3.9	4.1	3.8

Annual meteorological summaries for the year ending December 31, 1932—Continued

WICHITA, KANS.

[H_b=1,358 ft.; h_t=85 ft.; h_r=78 ft.; h_a=93 ft.]

Month	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity	Wind: Direction at time of maximum velocity	Wind: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	11.1	S.	35	S.	2	17	8	6	3	17	3	2	5	1	11	4	16	10	6	7	3	0	5	1	7	0	28	0	0
February	11.9	S.	32	NW.	1	8	10	5	4	22	1	1	7	0	6	8	15	8	5	2	2	0	7	4	1	0	16	0	0
March	12.7	N.	47	SW.	2	21	16	3	4	19	3	1	4	0	10	7	14	8	6	6	5	1	3	0	8	0	15	3	0
April	13.7	S.	35	S.	5	11	6	9	6	20	4	1	3	0	7	6	17	7	7	0	0	0	0	0	0	0	0	5	0
May	11.2	S.	34	S.	1	8	6	6	6	17	15	6	2	2	13	10	8	10	9	0	0	0	3	0	0	0	0	6	0
June	9.2	SE.	28	W.	0	6	6	8	15	12	8	2	3	0	5	13	12	12	10	0	0	0	2	0	0	2	0	14	0
July	10.7	S.	33	N.	1	2	3	8	7	29	12	0	0	1	18	5	8	7	6	0	0	0	0	0	0	24	0	9	0
August	11.2	S.	30	SW.	0	0	9	4	16	26	4	3	0	0	14	12	5	7	4	0	0	0	1	0	0	18	0	5	0
September	9.8	NE.	36	SW.	2	8	13	8	14	9	4	1	1	2	16	6	8	7	6	0	0	0	0	0	6	0	6	0	0
October	11.1	N.	32	SW.	1	17	3	3	6	18	8	1	6	0	17	9	5	5	3	0	0	0	0	0	0	0	1	0	0
November	11.3	S.	27	N.	0	14	3	1	10	20	4	1	7	0	16	7	7	1	1	2	0	0	3	2	2	0	17	0	0
December	10.2	SW.	31	SW.	0	13	11	0	6	10	12	2	8	0	13	4	14	5	5	6	2	0	6	1	10	0	21	0	0
Year	11.2	S.	47	SW.	15	125	94	61	108	208	69	17	46	4	146	91	129	87	68	23	12	6	25	8	28	50	97	49	0

WILLISTON, N.DAK.

[H_b=1,878 ft.; h_t=41 ft.; h_r=33 ft.; h_a=48 ft.]

January	7.4	SW.	28	N.	0	6	3	3	9	8	15	9	9	0	15	7	9	4	3	11	4	0	2	0	28	0	31	0	1
February	9.0	W.	37	SE.	1	5	3	3	7	10	6	15	6	0	9	10	10	4	3	11	4	0	0	0	20	0	28	0	1
March	9.3	NW.	40	SE.	1	12	1	3	7	4	6	7	22	0	10	12	9	8	7	15	7	0	0	0	16	0	31	0	4
April	10.2	SE.	35	NW.	2	6	9	9	18	6	2	5	5	0	10	9	11	10	7	1	1	0	0	0	0	0	11	1	0
May	9.1	SE.	28	W.	0	7	8	7	15	6	5	9	4	0	17	9	5	6	4	0	0	0	1	0	1	1	1	1	1
June	7.4	NE.	35	NW.	1	9	12	2	8	4	10	6	7	2	16	8	6	13	13	0	0	0	3	0	0	0	0	10	0
July	7.5	SE.	34	W.	2	6	11	5	12	5	4	12	7	0	25	4	2	9	7	0	0	0	1	1	1	0	8	0	0
August	8.2	SE.	32	W.	1	8	8	14	10	2	4	6	10	0	16	11	4	12	10	0	0	0	1	0	0	2	0	8	1
September	7.3	NW.	32	W.	1	4	5	1	8	9	7	12	14	0	20	6	4	4	2	0	0	0	1	1	0	1	0	0	2
October	8.7	NW.	26	N.	0	8	8	0	8	9	6	9	12	1	8	7	16	13	9	8	7	0	1	0	4	0	19	0	1
November	7.9	SW.	31	NW.	0	6	4	3	5	13	10	8	11	0	8	13	9	5	3	7	5	0	0	0	10	0	27	0	1
December	8.1	SW.	32	NW.	1	6	2	0	1	10	18	16	9	0	18	3	10	2	2	8	1	0	0	0	20	0	31	0	2
Year	8.3	SE.	40	SE.	10	83	75	50	108	86	93	117	116	3	172	99	95	90	70	61	29	4	5	2	96	14	177	28	14

WILMINGTON, N.C.

[H_b=72 ft.; h_t=73 ft.; h_r=64 ft.; h_a=106 ft.]

January	9.8	SW.	33	SW.	2	9	8	5	1	11	16	6	3	1	14	6	11	7	6	0	0	0	15	4	0	0	0	0	0
February	9.4	SW.	33	NW.	1	8	12	4	1	4	15	8	6	0	8	9	12	11	6	0	0	0	6	2	0	0	0	1	0
March	12.7	NW.	49	SW.	7	10	7	3	0	11	13	8	10	0	12	11	8	12	11	3	0	0	8	0	0	0	8	1	0
April	10.0	SW.	27	S.	0	6	8	5	7	7	12	5	10	0	17	8	5	7	5	0	0	0	9	0	0	0	0	3	0
May	8.7	S.	32	S.	1	4	16	11	1	10	8	6	6	0	11	8	12	12	7	0	0	0	11	1	0	1	0	7	0
June	9.2	SW.	26	NW.	0	1	8	11	4	9	14	11	2	0	10	11	9	15	11	0	0	0	6	1	0	4	0	11	0
July	8.8	SW.	40	S.	2	1	4	6	8	5	20	10	6	2	13	15	3	11	9	0	0	1	6	1	0	17	0	13	0
August	7.4	SW.	28	S.	0	6	12	4	8	6	15	8	2	1	12	11	8	10	9	0	0	0	10	0	0	7	0	7	0
September	7.9	NE.	25	N.	0	9	15	12	5	8	2	2	7	0	9	12	9	11	9	0	0	0	12	0	0	2	0	2	0
October	8.4	S.	28	S.	0	12	16	1	6	12	7	3	5	0	15	9	7	9	9	0	0	0	14	2	0	0	0	2	0
November	9.3	N.	30	SE.	0	17	16	4	2	5	2	5	9	0	15	4	11	11	9	0	0	0	13	0	0	0	3	0	0
December	8.3	N.	33	SW.	1	12	9	6	3	11	7	5	8	1	6	13	12	15	9	0	0	0	18	5	0	0	3	0	0
Year	9.2	SW.	49	SW.	14	95	131	72	46	99	131	77	76	5	142	117	107	131	100	3	0	1	128	16	0	31	14	47	0

WINNEMUCCA, NEV.

[H_b=4,344 ft.; h_t=18 ft.; h_r=6 ft.; h_a=56 ft.]

January	8.2	SW.	31	SW.	0	4	23	1	0	4	19	6	5	0	6	7	18	12	10	15	11	0	3	0	14	0	31	0	0
February	9.2	NE.	22	SW.	0	1	39	0	0	2	14	2	0	0	15	7	7	8	5	10	7	0	2	0	11	0	29	0	0
March	8.8	SW.	32	W.	1	8	9	1	1	3	28	6	6	0	6	15	10	9	5	9	1	1	1	0	0	0	21	0	0
April	8.5	SW.	30	W.	0	2	8	2	1	5	28	11	3	0	9	12	9	7	6	7	4	2	0	0	0	0	11	3	0
May	7.2	SW.	27	NW.	0	8	16	3	1	7	14	8	5	0	12	9	10	12	7	0	0	0	2	0	0	0	0	1	2
June	7.0	NE.	32	SW.	1	4	23	2	1	7	12	7	4	0	19	6	5	9	7	1	1	0	0	0	0	0	10	0	5
July	7.4	SW.	32	W.	1	1	10	2	0	8	27	11	3	0	27	3	1	3	2	0	0	0	0	0	0	0	18	0	2
August	7.1	SW.	27	NW.	0	4	14	2	0	5	28	4	5	0	25	6	0	2	2	0	0	0	0	0	0	0	16	1	3
September	7.2	NE.	19	NW.	0	7	25	4	0	1	10	8	5	0	26	3	1	1	0	1	0	0	0	0	0	0	7	0	1
October	7.2	NE.	30	W.	0	7	21	1	1	3	16	5	8	0	24	5	2	1	1	1	0	0	1	0	0	0	0	0	0
November	7.9	SW.	27	SW.	0	5	21	1	0	4	21	6	2	0	14	9	7	2	1	1	0	0	1	0	0	0	24	0	0
December	8.2	SW.	30	W.	0	2	26	0	2	6	23	1	2	0	12	7	12	15	5	15	14	0	4	1	9	0	31	0	0
Year	7.8	NE.	32	W.	3	53	235	19	7	55	240	75	48	0	195	89	82	81	51	59	38	6	12	1	34	51	168	15	2

Annual meteorological summaries for the year ending December 31, 1932—Continued

WYTHEVILLE, VA.

[ϕ=36°58′ 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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	27.75	28.11	27.22	30.4	46.8	44.1	51.9	34.5	43.2	71	21	34	34	35	80	64	71	0.211	0.218	0.225	2.77	0.74	T	6.6	6.5	5.3	5.2
February	27.63	28.16	27.23	38.3	47.8	45.0	52.4	34.0	43.2	72	21	31	32	31	75	57	59	.186	.195	.180	2.74	.68	T	6.3	5.8	4.5	5.4
March	27.49	27.87	26.81	33.0	42.6	39.2	48.4	27.9	38.2	68	9	25	26	27	73	53	62	.151	.158	.163	3.41	.85	4.5	6.3	6.1	5.5	5.6
April	27.59	27.94	27.20	46.1	58.1	54.9	62.2	40.5	51.4	75	30	36	36	37	70	48	55	.228	.227	.237	2.65	1.81	.6	5.5	5.3	5.7	5.3
May	27.70	27.94	27.39	57.0	67.7	62.6	71.5	49.7	60.6	83	35	48	48	49	75	51	63	.350	.347	.355	4.16	.94	.0	5.4	5.2	5.4	5.5
June	27.63	27.87	27.34	64.6	75.3	70.6	79.9	57.0	68.4	86	45	58	56	58	80	55	67	.489	.470	.499	3.89	1.16	.0	5.6	5.4	6.7	5.6
July	27.65	27.87	27.26	69.1	79.3	74.4	84.2	61.4	72.8	92	51	61	58	61	76	51	64	.549	.500	.533	1.02	.32	.0	4.7	5.5	5.7	5.3
August	27.71	27.95	27.53	66.6	79.1	73.0	82.9	59.6	71.2	94	51	61	59	61	82	52	67	.539	.507	.545	1.86	.63	.0	3.8	4.9	4.5	4.5
September	27.76	28.04	27.55	59.5	72.6	65.8	76.0	52.6	64.3	93	39	53	52	54	81	51	67	.425	.406	.433	1.49	.46	.0	4.0	5.0	4.1	4.9
October	27.68	27.99	27.24	48.2	60.8	55.3	64.8	43.9	54.4	74	29	43	43	46	82	56	71	.291	.300	.318	5.11	2.57	.0	5.6	4.7	4.6	5.1
November	27.77	28.23	27.28	35.5	46.1	40.6	50.8	30.4	40.6	65	12	30	31	31	79	58	69	.179	.191	.189	2.74	1.07	T	6.0	4.9	4.0	5.3
December	27.76	28.15	27.30	33.2	43.5	39.7	47.9	28.7	38.3	66	6	29	33	31	84	67	74	.176	.197	.187	4.00	1.08	12.8	6.2	6.2	6.3	6.7
Year	27.68	28.23	26.81	49.2	60.0	55.4	64.4	43.4	53.9	94	6	42	42	43	78	55	66	.314	.310	.322	35.84	2.57	17.9	5.5	5.5	5.2	5.4

YAKIMA, WASH.

[ϕ=46°30′ N.; λ=120°30′ W.]

January	28.95	29.55	28.19	21.6	29.5	30.7	34.9	17.7	26.3	60	8	18	22	22	85	71	69	0.100	0.117	0.118	0.76	0.20	8.0	6.6	7.5	7.3	7.5
February	28.89	29.22	28.16	26.5	38.5	39.2	42.5	22.8	32.6	70	1	20	24	25	77	56	57	.106	.137	.142	.33	.15	4.8	6.3	5.5	5.3	5.8
March	28.91	29.28	28.48	37.7	49.6	50.6	53.6	34.9	44.2	72	25	29	28	29	72	44	43	.107	.155	.161	.49	.19	2.0	6.1	7.6	7.8	7.5
April	28.79	29.23	28.34	45.6	61.0	62.2	64.9	42.8	53.8	78	32	32	30	29	59	31	29	.180	.165	.159	.22	.17	.0	6.0	6.7	7.3	6.7
May	28.85	29.17	28.59	49.7	66.2	67.7	70.8	47.9	59.4	84	41	36	33	34	62	31	31	.220	.193	.198	.96	.41	.0	5.3	5.6	5.7	5.6
June	28.80	29.02	28.58	57.5	78.4	81.3	84.2	56.2	70.2	98	46	39	37	37	51	23	22	.244	.224	.227	.06	.06	.0	2.0	2.5	2.8	2.5
July	28.80	29.08	28.35	57.4	77.1	81.4	83.5	55.9	69.7	96	46	43	38	39	59	25	23	.276	.230	.238	.16	.08	.0	1.8	2.6	2.9	2.7
August	28.78	29.05	28.50	59.6	79.9	82.4	85.2	57.5	71.4	99	43	45	42	42	60	27	26	.300	.269	.271	.12	.09	.0	3.0	3.8	2.1	3.0
September	28.93	29.22	28.60	52.9	74.9	78.0	80.1	50.3	65.2	94	40	39	38	38	59	27	25	.241	.238	.237	T	T	.0	1.8	2.1	1.8	2.0
October	28.93	29.40	28.52	43.6	60.7	60.8	64.4	40.8	52.6	89	25	36	36	37	76	42	43	.218	.218	.229	.41	.29	T	4.0	6.1	6.4	6.2
November	28.92	29.39	28.36	37.1	48.0	47.5	51.7	33.9	42.8	68	25	33	35	35	85	63	65	.188	.207	.210	1.13	.24	T	5.7	7.7	6.3	7.1
December	28.98	29.43	28.24	24.5	33.7	33.6	37.8	20.3	29.0	63	1	17	19	20	73	55	56	.106	.114	.119	.72	.58	7.2	4.2	5.8	5.4	5.8
Year	28.88	29.55	28.16	42.8	58.1	59.6	62.8	40.1	51.4	99	1	32	32	32	68	41	41	.196	.189	.192	5.36	.58	22.0	4.4	5.3	5.1	5.2

YANKTON, S.DAK.

[ϕ=42°54′ N.; λ=97°28′ W.]

January	28.73	29.40	27.90	14.0	19.6	----	24.2	9.2	16.7	41	−13	13	16	---	95	85	---	.081	.092	----	0.93	0.36	12.0	6.8	6.8	----	7.1
February	28.68	29.15	27.90	20.6	29.4	----	34.6	16.1	25.4	60	−8	18	23	---	90	78	---	.110	.134	----	.68	.53	7.1	4.9	5.1	----	5.5
March	28.70	29.22	28.07	22.3	29.9	----	35.9	19.4	27.6	68	−2	19	22	---	86	73	---	.115	.132	----	1.16	.61	10.1	6.1	7.4	----	6.9
April	28.62	29.14	28.24	45.5	56.2	----	61.9	42.3	52.1	76	28	39	39	---	79	56	---	.253	.253	----	.70	.30	T	6.0	6.9	----	6.6
May	28.65	29.09	28.20	56.5	69.7	----	74.2	52.0	63.1	97	37	48	48	---	76	50	---	.348	.346	----	4.07	2.67	.0	5.8	6.5	----	5.9
June	28.57	28.79	28.24	67.4	78.9	----	83.2	62.6	72.9	94	56	61	61	---	81	56	---	.539	.538	----	1.37	.08	.0	5.6	5.4	----	5.2
July	28.62	28.92	28.22	71.2	83.7	----	89.1	67.7	78.4	104	53	59	60	---	67	46	---	.507	.526	----	1.16	.52	.0	4.2	3.3	----	6.3
August	28.61	28.95	28.20	66.9	81.1	----	84.8	63.6	74.2	97	50	60	60	---	79	51	---	.522	.535	----	2.70	1.13	.0	4.6	3.7	----	4.5
September	28.70	29.17	28.14	53.9	71.7	----	75.7	50.6	63.2	90	35	46	44	---	77	40	---	.325	.305	----	1.45	.81	.0	2.9	3.0	----	3.2
October	28.66	29.05	28.24	41.0	55.3	----	59.7	38.0	48.8	90	29	34	34	---	75	46	---	.200	.205	----	.86	.45	T	5.3	5.5	----	5.4
November	28.78	29.35	28.25	29.7	41.8	----	46.4	25.1	35.8	66	5	22	23	---	71	48	---	.119	.124	----	.15	.12	.3	6.6	6.4	----	6.9
December	28.74	29.33	28.09	16.0	26.5	----	31.1	10.8	21.0	59	−18	12	16	---	85	65	---	.082	.095	----	.17	.15	2.0	5.0	4.7	----	5.7
Year	28.68	29.40	27.90	42.1	53.6	----	58.4	38.1	48.3	104	−18	36	37	---	80	58	---	.267	.274	----	15.40	2.67	31.5	5.3	5.3	----	5.8

YELLOWSTONE PARK, WYO.

[ϕ=44°58′ N.; λ=110°42′ W.]

January	23.78	24.18	22.98	11.5	17.4	14.8	22.0	5.4	13.7	35	−15	6	9	9	78	68	74	0.060	0.066	0.065	0.83	0.20	20.2	8.4	7.8	6.4	7.5
February	23.78	24.26	23.20	17.4	27.1	24.7	30.3	12.2	21.2	55	−15	11	15	14	73	59	62	.077	.087	.083	.70	.39	12.4	5.8	7.8	7.4	7.7
March	23.80	24.20	23.44	16.0	26.9	24.8	31.1	12.2	21.6	48	−19	10	15	15	74	60	66	.077	.094	.094	1.23	.18	26.8	7.4	7.6	7.2	7.3
April	23.82	24.15	23.27	29.1	43.1	42.5	46.7	26.5	36.6	64	12	23	24	23	76	49	49	.121	.126	.124	1.06	.38	12.2	7.2	8.0	7.1	7.3
May	23.87	24.15	23.51	37.8	54.2	53.7	59.2	35.3	47.2	76	26	32	32	32	78	46	48	.178	.181	.185	1.69	.46	6.4	5.6	6.7	6.9	6.9
June	23.90	24.08	23.63	45.2	63.8	62.5	68.1	42.0	55.0	85	31	38	40	40	78	45	47	.235	.251	.260	2.10	.83	T	5.0	5.8	6.5	5.6
July	23.96	24.17	23.57	49.9	73.0	71.1	76.5	47.1	61.8	84	34	41	40	40	71	33	36	.257	.250	.253	1.09	.49	.0	2.5	3.9	4.8	4.2
August	23.94	24.17	23.59	47.2	72.9	71.3	76.2	44.9	60.6	87	29	36	35	34	66	28	29	.217	.206	.203	.97	.51	1.8	3.0	4.0	3.8	3.9
September	24.02	24.23	23.64	39.7	63.0	60.6	67.8	36.8	52.3	80	27	29	31	30	66	33	35	.161	.176	.168	.47	.27	T	3.6	4.6	4.2	4.6
October	23.94	24.25	23.64	29.3	43.3	39.9	46.8	25.3	36.0	71	12	22	25	24	73	50	56	.115	.132	.120	1.01	.32	17.6	5.2	6.3	5.0	6.1
November	23.95	24.20	23.55	29.0	38.1	34.3	40.4	24.0	32.2	53	4	20	19	20	68	46	56	.107	.103	.108	.46	.16	10.2	6.4	8.2	7.5	8.1
December	23.81	24.14	23.50	8.5	16.2	13.1	19.5	4.3	11.9	43	−29	3	6	6	77	62	71	.055	.062	.063	.80	.18	17.5	4.6	7.3	6.7	7.2
Year	23.88	24.26	22.98	30.0	44.9	42.8	48.7	26.3	37.5	87	−29	23	24	24	73	48	52	.138	.144	.144	12.41	.83	125.1	5.4	6.5	6.1	6.4

Annual meteorological summaries for the year ending December 31, 1932—Continued

WYTHEVILLE, VA.

[H_b=2,304 ft.; h_t=49 ft.; h_r=40 ft.; h_a=55 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.8	W.	28	W.	0	3	4	9	4	2	5	24	11	0	8	7	16	13	9	1	0	0	6	1	0	0	14	0	0
February	8.6	W.	34	W.	1	1	2	6	1	1	4	30	12	1	8	12	9	11	10	3	1	0	2	0	0	0	10	1	0
March	9.1	W.	34	W.	1	2	2	4	1	2	5	29	17	0	10	11	10	14	10	8	4	0	1	0	8	0	18	2	0
April	7.9	W.	25	W.	0	1	3	8	3	3	4	23	15	0	10	10	10	14	10	3	2	0	4	0	0	0	5	2	0
May	6.0	W.	31	W.	0	6	0	11	3	3	7	23	9	0	10	11	10	11	9	0	0	0	0	0	0	0	0	8	0
June	5.7	W.	21	W.	0	4	4	7	3	2	6	23	10	1	6	17	7	12	10	0	0	1	3	2	0	0	0	9	0
July	6.5	W.	24	NW.	0	3	0	4	0	1	10	24	18	2	8	17	6	9	6	0	0	0	0	0	0	4	0	7	0
August	4.6	W.	15	N.	0	6	4	8	3	1	6	24	8	2	13	11	7	8	8	0	0	0	0	1	0	3	0	3	0
September	5.2	NW.	19	N.	0	9	5	13	3	3	3	8	15	1	9	14	7	11	8	0	0	0	0	3	0	2	0	5	0
October	6.5	W.	27	W.	0	0	0	13	2	4	4	22	16	1	14	4	13	9	8	0	0	0	1	1	0	0	1	0	0
November	6.7	E.	22	W.	0	3	6	13	2	1	4	14	15	2	12	5	13	9	8	1	0	0	2	1	2	0	21	0	0
December	6.5	W.	23	NW.	0	2	5	11	1	0	6	21	16	0	5	9	17	13	12	3	2	0	1	4	3	0	17	0	0
Year	6.8	W.	34	W.	2	40	35	107	26	23	64	255	162	10	113	128	125	134	108	19	9	1	20	13	11	9	86	37	0

YAKIMA, WASH.

[H_b=1,076 ft.; h_t=58 ft.; h_r=52 ft.; h_a=67 ft.]

January	3.9	NW.	31	SW.	0	16	4	6	3	5	3	11	11	3	4	8	19	7	6	14	6	0	13	7	12	0	31	0	0
February	4.9	NW.	24	SW.	0	10	1	2	5	3	11	15	11	0	9	10	10	5	5	7	5	0	2	0	6	0	21	0	0
March	6.6	NW.	34	SW.	1	12	3	3	4	2	7	12	16	3	3	12	17	9	3	3	3	0	0	0	0	0	10	0	0
April	7.4	NW.	24	W.	0	7	4	1	5	7	9	7	20	0	5	10	15	4	1	0	0	0	0	0	0	0	1	0	0
May	7.3	NW.	24	NW.	0	6	8	2	2	5	4	9	31	1	9	10	12	4	3	0	0	0	1	0	0	0	1	0	0
June	7.7	NW.	22	NW.	0	9	1	0	3	1	5	9	32	0	22	5	3	1	1	0	0	0	0	0	0	11	0	2	0
July	7.2	NW.	24	W.	0	5	2	2	1	6	1	14	30	1	21	5	5	4	1	0	0	0	0	0	0	5	0	2	0
August	6.8	NW.	23	SW.	0	1	1	2	2	3	4	5	11	2	20	10	1	2	1	0	0	0	0	0	0	12	0	2	0
September	6.0	NW.	27	W.	0	3	1	2	0	5	9	14	24	2	23	4	3	0	0	0	0	0	0	0	0	2	0	2	0
October	4.9	NW.	29	W.	0	6	3	3	4	11	4	11	15	5	8	10	13	6	2	1	0	0	0	0	0	5	0	0	0
November	4.9	W.	27	NW.	0	2	4	3	8	6	15	12	8	2	5	9	16	13	9	1	0	0	10	3	0	0	12	0	0
December	5.2	NW.	27	W.	0	8	4	4	12	6	2	11	13	2	5	11	12	4	3	6	3	0	2	1	12	0	27	0	0
Year	6.1	NW.	34	SW.	1	84	31	30	50	61	75	136	244	21	136	104	126	59	35	32	17	1	28	11	30	30	107	7	0

YANKTON, S.DAK.

[H_b=1,233 ft.; h_t=49 ft.; h_r=42 ft.; h_a=57 ft.]

January	8.2	NW.	27	NW.	0	2	4	1	0	3	4	5	8	4	7	4	20	6	5	15	6	0	0	0	26	0	31	0	0
February	7.9	NW.	25	NW.	0	2	1	2	4	3	3	8	5	1	9	8	12	3	3	8	3	0	2	1	13	0	25	0	0
March	9.2	NW.	31	NW.	0	6	3	2	2	0	6	9	1	1	5	10	16	6	5	11	3	0	2	0	11	0	26	0	0
April	10.0	SE.	27	S.	0	1	3	1	4	2	2	0	6	0	8	7	15	2	0	2	0	0	2	0	0	0	1	0	0
May	9.3	NW.	24	S.	0	1	3	1	4	2	5	5	9	0	8	11	12	9	8	0	0	0	1	0	0	0	3	0	0
June	7.1	SE.	25	SE.	0	0	2	2	7	2	5	7	8	0	7	15	8	11	6	0	0	0	1	0	0	5	0	2	0
July	8.0	SE.	21	SW.	0	3	4	3	5	5	5	1	5	0	13	12	6	8	5	0	0	0	1	0	0	17	0	7	0
August	7.8	SE.	22	S.	0	2	2	4	9	5	2	4	3	0	12	13	6	7	7	0	0	0	4	0	0	0	7	0	0
September	7.1	N.	21	N.	0	6	2	7	3	2	5	3	2	0	19	6	5	4	4	0	0	0	0	0	0	1	1	0	0
October	8.8	NW.	30	NW.	0	2	3	3	3	1	4	8	7	0	9	10	12	4	4	2	1	0	1	0	0	1	7	2	0
November	10.1	NW.	30	NW.	0	6	0	0	3	5	6	2	8	0	4	12	14	3	2	4	2	0	0	0	0	6	0	23	0
December	7.8	NW.	29	NW.	0	1	0	3	0	2	7	6	12	0	7	14	10	2	2	8	2	0	1	0	14	0	30	0	0
Year	8.4	NW.	31	NW.	0	33	28	35	48	34	44	58	80	6	108	122	136	70	56	50	15	0	14	1	70	34	143	29	0

YELLOWSTONE PARK, WYO.

[H_b=6,241 ft.; h_t=11 ft.; h_r=4 ft.; h_a=48 ft.]

January	8.2	S.	30	SW.	0	7	3	0	3	20	24	2	3	0	4	8	19	16	6	26	16	0	0	0	30	0	31	0	0
February	10.8	SW.	32	S.	1	2	2	0	2	10	36	5	0	1	3	5	21	11	5	17	11	0	0	0	18	0	29	0	0
March	8.8	SW.	27	SW.	0	12	0	3	1	13	23	15	1	1	3	9	18	12	6	17	10	0	2	1	10	0	30	0	0
April	8.7	SW.	30	SW.	0	12	0	2	0	6	24	8	4	0	4	12	15	16	12	6	3	3	0	0	0	0	26	0	0
May	8.1	SW.	29	SW.	0	6	0	4	2	14	29	6	1	0	2	2	14	9	2	2	2	4	0	0	0	0	2	13	0
June	7.4	SW.	25	SW.	0	4	2	1	1	17	20	5	10	0	9	11	10	15	9	2	2	4	0	0	0	0	0	11	0
July	8.0	SW.	34	SW.	2	6	0	1	0	19	29	6	1	0	10	19	2	10	7	0	0	2	0	0	0	0	2	10	1
August	7.9	SW.	35	SW.	1	8	0	1	1	6	30	12	3	1	15	11	5	9	5	2	2	1	0	0	0	0	0	1	1
September	7.4	SW.	29	SW.	0	8	0	0	1	6	22	18	6	0	13	11	6	4	3	2	0	0	0	0	0	0	5	1	0
October	8.0	SW.	29	SW.	0	9	2	1	1	13	32	6	2	0	6	12	13	13	10	16	13	0	2	0	4	0	22	0	1
November	9.3	SW.	32	SW.	1	5	0	1	1	15	22	5	2	0	0	10	20	9	5	19	9	0	0	0	4	0	26	0	0
December	8.5	SW.	32	SW.	1	4	0	3	0	14	21	20	6	0	6	5	20	15	7	22	15	0	0	0	26	0	31	0	0
Year	8.4	SW.	35	SW.	6	83	9	18	12	144	306	118	37	5	78	119	169	143	86	153	99	10	5	1	92	0	213	41	3

Annual meteorological summaries for the year ending December 31, 1932—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	Total snowfall	8 a.m.	Noon, local time	8 p.m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.95	30.29	29.38	42.4	61.5	60.1	63.4	38.3	50.8	71	26	24	24	23	50	24	25	0.137	0.135	0.130	T	T	0.0	1.5	1.3	1.5	1.5
February	29.84	30.23	29.46	51.1	67.3	67.5	69.8	47.5	58.6	86	36	37	38	36	61	38	35	.228	.238	.224	1.06	0.80	.0	3.8	3.7	3.8	3.6
March	29.81	30.10	29.55	54.5	77.2	79.7	81.1	50.6	65.8	92	41	35	30	30	53	20	17	.217	.178	.166	.00	.00	.0	1.6	1.2	1.0	1.3
April	29.71	30.01	29.31	56.9	83.4	85.1	87.7	53.0	70.4	98	43	37	33	32	51	18	16	.232	.192	.181	T	T	.0	1.1	1.7	1.9	1.8
May	29.66	29.80	29.51	63.3	88.5	92.3	93.4	60.7	77.0	103	50	46	40	38	54	20	16	.311	.255	.227	.00	.00	.0	.6	.2	.7	.5
June	29.56	29.78	29.34	69.4	96.5	99.5	101.2	66.5	83.8	110	58	53	47	46	58	20	18	.417	.333	.326	T	T	.0	.9	.9	.9	1.0
July	29.61	29.81	29.40	79.7	99.8	101.8	104.8	76.8	90.8	112	67	65	61	58	63	30	27	.640	.559	.511	1.36	1.36	.0	1.6	1.7	1.1	1.7
August	29.56	29.78	29.36	78.8	101.4	103.9	105.6	76.2	90.9	113	64	66	60	59	65	27	24	.647	.544	.527	T	T	.0	1.4	.7	.8	1.1
September	29.62	29.80	29.38	73.5	99.2	99.4	103.2	70.6	86.9	113	61	61	59	58	66	28	27	.556	.521	.500	.03	.03	.0	.2	.2	.6	.4
October	29.72	30.12	29.43	62.5	84.3	79.4	87.0	58.6	72.8	99	48	49	48	51	66	30	40	.379	.363	.399	3.39	2.47	.0	1.8	.8	1.4	1.5
November	29.87	30.08	29.65	54.5	77.3	70.5	79.2	50.2	64.7	84	42	31	32	35	43	20	28	.178	.183	.210	T	T	.0	.6	1.5	1.5	1.5
December	29.93	30.34	29.58	43.7	60.4	56.2	61.9	39.5	50.7	79	32	32	33	32	66	38	42	.186	.192	.186	.51	.36	T	2.6	2.0	1.4	2.0
Year	29.74	30.34	29.31	60.9	83.1	83.0	86.5	57.4	71.9	113	26	45	42	42	58	26	26	.344	.308	.299	6.35	2.47	T	1.5	1.3	1.4	1.5

DUTCH HARBOR, ALASKA

[ϕ=53°55′ N.; λ=166°30′ W.]

	*			†			†														†			†	
January	29.75	30.34	28.73	32.0			33.1	40.3	27.3	33.8	56	13									2.87	0.82	12.1	7.5			7.4	7.6
February	29.93	30.70	28.74	31.0			32.9	39.2	25.5	32.4	60	13									6.56	3.75	14.2	7.2			8.2	8.4
March	29.53	30.25	28.92	33.3			36.2	42.3	29.7	36.0	58	19									4.91	1.76	5.3	7.4			6.7	7.0
April	29.63	30.23	29.01	34.5			38.9	42.9	28.8	35.8	51	17									3.33	.80	2.2	6.5			6.0	6.1
May	29.64	30.29	28.88	41.3			46.1	47.0	34.7	40.8	53	30									1.63	.61	.0	6.7			6.1	6.1
June	29.91	30.38	29.36	41.8			47.7	50.7	38.5	44.6	57	34									.53	.26	.0	5.7			5.8	5.6
July	29.99	30.48	29.50	44.3			53.4	56.7	42.4	49.6	67	39									.24	.14	.0	4.9			6.0	5.9
August	29.90	30.32	29.40	48.5			53.9	59.3	45.2	52.2	72	37									2.70	1.10	.0	6.1			7.7	6.9
September	29.78	30.28	29.03	45.3			50.4	53.2	41.9	47.6	68	32									4.43	1.31	.0	6.5			6.7	6.2
October	29.58	30.56	28.58	42.9			45.2	47.7	40.1	43.9	54	32									4.53	.74	.0	6.5			8.0	7.2
November	29.71	30.34	28.44	37.3			38.2	41.0	31.7	36.4	47	16									3.51	.66	7.1	7.1			8.7	7.7
December	29.33	30.29	28.36	35.6			36.3	39.3	30.2	34.8	46	17									9.18	1.40	4.8	6.1			6.7	
Year	29.72	30.70	28.36	39.0			42.7	46.6	34.7	40.7	72	13									44.42	3.75	45.7	6.5			7.0	

EAGLE, ALASKA

[ϕ=64°46′ N.; λ=141°12′ W.]

	*			†			†														†			†	
January	28.98	29.67	28.22	−16.2			−15.6	−8.2	−25.2	−16.7	22	−52									0.48	0.14	10.1	6.5			6.3	6.6
February	29.01	29.61	28.21	−22.8			−13.1	−8.1	−31.4	−19.8	22	−58									.41	.21	9.3	4.6			4.8	5.0
March	29.03	29.61	28.39	3.7			19.5	21.2	−1.8	9.7	40	−28									.01	.01	.3	4.0			5.4	5.5
April	28.88	29.28	28.37	23.3			43.7	46.5	18.7	32.6	62	2									.31	.24	1.2	3.6			4.4	4.4
May	28.83	29.18	28.30	34.5			55.0	58.0	32.5	45.2	68	23									.51	.16	0	7.0			8.5	7.7
June	28.84	29.26	28.49	42.6			63.7	67.5	39.6	53.6	80	31									1.88	.63	.0	4.6			8.2	6.8
July	28.83	29.21	28.43	47.4			69.2	73.4	45.6	59.5	84	37									2.20	.40	.0	6.8			7.7	7.1
August	28.86	29.32	28.57	46.4			61.1	64.2	43.7	54.0	74	28									3.54	.80	.0	8.5			9.0	8.6
September	28.79	29.16	28.20	33.3			47.8	52.1	28.8	40.4	62	18									.71	.20	4.0	5.5			7.2	6.1
October	28.88	29.54	28.14	25.5			33.0	37.0	18.8	27.9	52	−9									.41	.15	4.6	5.3			6.2	6.6
November	29.02	29.67	28.19	−14.1			−8.6	−1.5	−24.1	−12.8	30	−46									.10	.03	2.2	3.5			4.2	4.0
December	29.00	30.06	28.26	−9.6			−9.4	−2.6	−16.4	−9.5	14	−49									.11	.11	1.2	3.5			3.8	3.4
Year	28.91	30.06	28.14	16.2			28.9	33.3	10.7	22.0	84	−58									10.67	.80	32.9	5.3			6.3	6.0

FAIRBANKS, ALASKA

[ϕ=64°51′ N.; λ=147°39′ W.]

	*			†			†						†		†	†			†					†		†	
January	29.44	30.07	28.55	−20.6			−19.4	−18.4	−11.1	−31.0	−21.0	24	−54	−25	−24	−23	78	78	79	0.017	0.020	0.021	1.08	0.48	13.6	4.0	4.6	5.2	6.4
February	29.48	30.15	28.62	22.2	−13.7	−9.8	−4.9	−31.2	−18.0	33	−54	−28	−20	−16	73	73	73	.024	.024	.025	1.77	.78	26.0	4.0	4.2	4.3	4.8
March	29.35	30.00	28.74	5.2	23.6	27.1	28.8	−1.5	13.6	48	−34	1	12	13	83	56	52	.052	.077	.061	.10	.10	2.8	3.7	5.3	5.5	5.5
April	29.28	29.74	28.77	24.5	41.5	44.1	45.6	20.1	32.8	60	1	21	23	24	55	48	44	.111	.122	.124	.06	.06	.9	2.7	3.0	3.4	3.7
May	29.28	29.67	28.64	37.8	53.8	55.4	58.0	34.7	46.4	72	28	33	29	28	83	40	37	.188	.159	.156	.22	.07	T	6.0	6.7	7.3	6.4
June	29.29	29.75	28.89	45.9	61.4	63.0	65.8	44.1	55.0	79	32	42	39	39	88	47	44	.273	.246	.243	1.66	.48	.0	5.2	8.0	8.3	6.9
July	29.29	29.71	28.88	50.0	65.8	66.4	70.1	47.7	58.9	81	39	47	47	46	91	52	50	.327	.329	.312	2.33	.57	.0	5.8	6.9	7.4	6.6
August	29.31	29.72	29.04	46.7	57.3	58.5	60.3	43.3	51.8	71	33	44	44	43	90	63	60	.286	.295	.287	3.86	1.63	.0	8.5	9.0	9.3	8.9
September	29.21	29.56	28.59	34.2	47.4	49.9	51.7	30.3	41.0	62	16	32	30	30	88	52	47	.179	.170	.167	.84	.34	.3	4.8	6.7	7.3	6.5
October	29.24	30.02	28.38	26.3	33.2	34.8	36.5	21.2	28.8	57	−6	22	22	22	82	63	59	.120	.118	.118	.53	.18	6.2	6.6	7.6	7.6	7.7
November	29.36	30.04	28.45	−10.9	−4.4	−2.2	.4	−16.7	−8.2	19	−30	−15	−9	−7	80	80	78	.020	.026	.028	.30	.07	6.1	2.9	4.8	4.8	4.6
December	29.33	30.29	28.55	−12.4	−12.3	−11.4	−5.9	−20.3	−13.1	27	−47	−16	−16	−15	82	84	84	.025	.024	.025	.18	.11	2.8	4.1	5.4	6.1	5.6
Year	29.32	30.29	28.38	17.0	27.8	29.8	32.9	11.7	22.3	81	−54	13	15	15	84	62	59	.135	.134	.132	12.92	1.63	58.7	4.9	6.0	6.6	6.

*No diurnal correction applied.

†Hours at Dutch Harbor, 1 a.m. and 1 p.m., one hundred sixty-fifth meridian time; at Eagle, 2:30 a.m. and 2:30 p.m., one hundred thirty-fifth meridian time; at Fairbanks, 2 a.m. and 2 p.m., one hundred fiftieth meridian time.

Annual meteorological summaries for the year ending December 31, 1932—Continued

YUMA, ARIZ.

[H_b=141 ft.; h_t=9 ft.; h_r=2 ft.; h_a=54 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		Mi.																										
January	7.0	N.	34	N.	1	24	7	8	1	6	1	10	4	1	25	6	0	0	0	0	0	0	1	0	0	0	2	0	0
February	6.4	N.	30	NW.	0	15	8	4	7	3	4	8	7	2	16	8	5	6	4	0	0	0	0	0	0	0	0	0	0
March	6.8	N.	31	NW.	0	11	7	2	2	9	10	7	11	3	26	5	0	0	0	0	0	0	0	0	0	3	0	0	0
April	6.3	W.	30	W.	0	7	4	4	2	4	14	18	3	4	22	7	1	0	0	0	0	0	0	0	0	14	0	0	0
May	6.5	W.	19	W.	0	6	4	1	3	10	14	19	3	2	30	1	0	0	0	0	0	0	0	0	0	23	0	0	0
June	5.6	SW.	18	W.	0	7	2	8	3	6	16	14	3	1	26	4	0	0	0	0	0	0	0	0	0	25	0	1	0
July	6.2	S.	25	S.	0	2	5	4	12	11	17	7	3	1	24	7	0	1	1	0	0	0	0	0	0	31	0	2	0
August	5.5	S.	19	W.	0	6	2	4	8	16	14	8	3	1	26	5	0	0	0	0	0	0	0	0	0	31	0	2	0
September	4.8	SW.	19	E.	0	8	6	5	8	8	14	7	2	2	29	1	0	1	0	0	0	0	0	0	0	29	0	1	0
October	5.1	NE.	31	N.	0	18	13	5	1	3	10	6	3	3	25	4	2	3	3	0	0	0	0	0	0	14	0	4	0
November	5.6	N.	22	N.	0	22	17	4	0	0	2	5	9	1	26	2	2	0	0	0	0	0	0	0	0	0	0	0	0
December	6.5	N.	25	W.	0	22	9	6	4	2	3	6	9	1	24	3	4	3	3	2	0	0	0	0	0	0	0	0	0
Year	6.0	N.	34	N.	1	148	84	55	51	78	119	115	60	22	299	53	14	14	11	2	0	0	1	0	0	170	2	10	0

DUTCH HARBOR, ALASKA †

[H_b=13 ft.; h_t=4 ft.; h_r=3 ft.; h_a=—ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
January		S.				3	3	1	15	6	19	6	9	0	6	5	20	12	12	12	7	0	0	0	4	0	28	0	0
February		S.				11	2	0	12	8	10	6	9	0	2	7	20	7	7	9	5	0	0	0	8	0	23	0	0
March		SE.				5	7	4	13	12	10	3	7	1	7	8	16	9	8	8	3	0	0	0	1	0	23	0	0
April		NW.				8	7	3	7	7	9	5	13	1	10	7	13	11	10	9	2	0	0	0	0	0	25	0	0
May		SE.				2	9	6	16	9	4	6	9	1	6	18	7	9	9	0	0	0	0	0	0	0	4	0	0
June		S.				3	13	5	9	8	7	5	10	0	10	9	11	5	3	0	0	0	0	0	0	0	0	0	0
July		S.				6	10	3	11	10	13	8	1	0	9	11	11	3	3	0	0	0	2	0	0	0	0	0	0
August		NE.				4	15	3	13	2	12	7	6	0	5	9	17	18	16	0	0	0	0	0	0	0	0	0	0
September		S.				1	4	6	6	13	14	6	4	6	5	11	14	23	20	0	0	0	0	0	0	0	1	0	0
October		W.				0	8	2	14	5	6	9	11	7	3	10	18	27	19	0	0	0	0	0	0	0	1	0	0
November		NW.				1	3	0	10	5	10	4	24	3	3	10	17	19	16	8	7	0	0	0	0	0	13	0	0
December		S.				1	0	3	21	12	10	2	4	9	3	15	13	27	20	12	8	0	0	0	1	0	21	0	0
Year		SE.				45	81	36	147	97	124	67	107	28	69	120	177	170	143	58	32	0	2	0	14	0	139	0	0

EAGLE, ALASKA †

[H_b=821 ft.; h_t=4 ft.; h_r=3 ft.; h_a=38 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
January		SE.				3	2	14	16	2	0	2	11	12	8	4	19	13	4	13	13	0	0	0	31	0	31	0	5
February		SE.				3	2	14	12	3	0	1	5	18	12	4	13	6	4	8	6	0	0	0	29	0	29	0	8
March		SE.				2	2	7	29	5	1	1	6	9	8	13	10	1	0	1	1	0	0	0	22	0	31	0	14
April		SE.				2	1	10	13	3	5	2	19	5	10	12	8	4	1	2	2	0	0	0	2	0	28	0	8
May		SE.				10	2	6	10	5	2	4	21	2	1	9	21	10	4	0	0	0	0	0	0	0	18	0	0
June		NW.				7	4	3	9	1	2	2	31	1	4	13	13	17	8	0	0	0	0	0	0	0	1	0	0
July		NW.				11	4	6	6	5	0	1	24	5	3	10	18	18	14	0	0	0	0	0	0	0	0	0	0
August		NW.				4	3	5	11	4	1	8	24	2	1	5	25	18	14	0	0	0	0	0	0	0	2	0	1
September		NW.				5	4	6	14	5	0	3	19	4	7	10	13	11	7	5	2	0	0	0	4	0	23	0	5
October		SE.				4	4	12	18	4	0	5	10	5	6	7	18	7	3	6	5	0	0	0	9	0	28	0	3
November		E.				7	1	13	5	0	0	1	6	27	16	6	8	6	0	12	6	0	0	0	30	0	30	0	7
December		E.				1	2	25	12	0	0	0	1	21	20	2	9	1	1	4	1	0	0	4	31	0	31	0	6
Year		NW.				59	31	121	155	37	11	30	177	111	96	95	175	112	60	51	36	0	0	8	154	0	252	0	57

FAIRBANKS, ALASKA †

[H_b=455 ft.; h_t=11 ft.; h_r=3 ft.; h_a=44 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
January	2.1	N.	13	SW.	0	10	2	3	7	9	4	4	8	15	9	6	16	12	4	18	12	0	19	9	31	0	31	0	23
February	3.1	N.	24	SW.	0	14	1	3	1	10	5	11	13	0	15	3	11	10	9	14	10	0	18	7	28	0	29	0	25
March	4.1	N.	15	NE.	0	10	18	8	1	7	2	6	11	0	7	14	10	1	1	4	1	0	0	0	19	0	31	0	30
April	4.5	N.	18	N.	0	14	14	3	5	7	8	6	3	0	14	13	3	2	0	2	2	0	0	0	3	0	28	0	27
May	5.6	W.	18	NE.	0	11	7	6	6	9	8	9	6	0	6	11	14	8	3	1	0	0	2	0	0	0	11	0	3
June	5.5	W.	23	NE.	0	9	10	4	1	8	8	9	11	0	2	12	16	13	8	0	0	0	1	0	0	0	6	0	0
July	4.6	W.	18	S.	0	11	3	6	4	3	9	14	10	2	4	12	15	13	9	0	0	0	1	0	0	0	5	0	0
August	4.2	N.	15	SW.	0	6	6	8	5	6	9	8	11	3	0	4	27	18	15	0	0	0	0	0	0	0	0	0	13
September	4.7	E.	25	S.	0	13	6	12	6	6	7	5	5	0	7	7	16	9	5	3	2	0	2	1	6	0	18	1	20
October	4.7	NE.	24	NE.	0	12	17	8	2	7	3	2	10	1	3	8	20	9	3	11	8	0	1	0	13	0	27	0	17
November	2.6	N.	14	NE.	0	13	9	4	5	5	2	3	11	8	16	2	12	8	5	10	8	0	4	2	30	0	30	0	26
December	2.0	N.	6	NW.	0	9	5	1	3	4	5	2	13	20	12	3	16	3	2	5	3	0	4	2	31	0	31	0	26
Year	4.0	N.	25	S.	0	132	98	66	46	81	70	78	112	49	95	95	176	106	64	68	48	3	47	19	155	0	236	12	210

*By eye observations at this station.
†For hours of observation see note on preceding page.

Annual meteorological summaries for the year ending December 31, 1932—Continued

JUNEAU, ALASKA

[ϕ=58°18′ N.; λ=134°24′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
	*In.**	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.72	30.59	28.94	27.6	29.3	28.4	31.3	24.5	27.9	43	10	22	23	23	78	76	79	0.127	0.133	0.133	11.78	2.03	37.3	7.2	7.2	7.1	7.2
February	29.69	30.29	28.77	24.1	26.1	25.6	28.8	19.8	24.3	43	5	18	18	18	78	70	72	.110	.109	.107	9.31	1.67	62.4	8.3	8.1	8.4	8.2
March	29.82	30.33	29.27	31.7	35.8	35.9	37.9	29.5	33.7	46	15	24	24	25	74	62	65	.139	.136	.140	2.82	.77	7.4	7.0	7.7	7.6	7.5
April	29.78	30.10	29.25	37.1	48.3	49.5	51.2	35.0	43.1	64	29	32	31	31	83	54	51	.184	.179	.175	2.80	.88	.4	5.4	5.3	5.7	5.4
May	29.88	30.35	29.47	42.4	49.0	50.1	52.1	40.6	46.4	64	36	38	38	38	86	69	65	.233	.233	.230	4.91	.93	.0	8.5	8.3	8.5	8.3
June	29.89	30.18	29.36	46.0	51.6	52.5	54.2	44.7	49.4	65	40	44	44	43	91	79	73	.283	.296	.278	10.59	1.93	.0	9.3	9.3	9.5	9.3
July	29.84	30.19	29.44	49.6	55.8	57.2	58.5	48.4	53.4	76	44	46	47	46	89	74	70	.318	.326	.319	5.77	1.43	.0	9.1	9.3	8.6	9.0
August	29.90	30.18	29.45	52.3	59.9	61.7	63.2	50.5	56.8	75	46	49	50	50	89	70	67	.347	.356	.356	2.54	.95	.0	7.8	7.3	7.4	7.5
September	29.84	30.23	29.20	47.2	50.6	50.8	52.6	44.9	48.8	60	38	44	45	46	90	81	84	.290	.298	.308	11.77	1.52	.0	9.2	9.4	9.2	9.4
October	29.79	30.44	29.14	43.0	46.1	46.2	48.2	40.1	44.2	58	31	40	41	41	90	83	81	.254	.260	.257	9.73	2.10	T	8.1	8.5	9.1	8.6
November	29.58	30.38	28.73	31.9	32.7	32.3	35.3	28.4	31.8	43	11	23	24	22	72	70	69	.138	.140	.135	7.05	1.13	27.3	8.6	8.6	8.3	8.7
December	29.75	30.88	28.43	27.0	28.1	27.9	30.6	23.6	27.1	40	9	22	23	23	82	81	81	.124	.129	.129	5.45	1.33	29.3	8.0	8.2	8.0	8.2
Year	29.79	30.88	28.43	38.3	42.8	43.2	45.3	35.8	40.6	76	5	34	34	34	84	72	71	.212	.216	.214	84.52	2.10	164.1	8.0	8.1	8.1	8.1

KODIAK, ALASKA

[ϕ=57°48′ N.; λ=152°22′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
January	29.68	30.51	28.93	25.5	28.1	31.8	21.3	26.6	40	−1		2.03	0.54	15.0	6.5	5.9	5.8
February	29.77	30.38	28.96	26.4	30.2	33.9	22.4	28.2	49	9		.15	.06	2.5	5.8	4.7	4.6
March	29.60	30.21	28.80	34.1	37.3	39.1	31.6	35.4	43	28		7.72	1.70	10.5	8.0	7.3	7.3
April	29.65	30.23	29.03	35.0	40.4	42.8	33.1	38.0	51	26		4.49	1.38	T	8.0	7.2	7.5
May	29.76	30.15	28.82	39.8	46.2	49.0	37.7	43.4	55	34		7.89	1.85	.0	8.0	5.3	5.7
June	29.84	30.27	29.17	43.4	49.6	52.2	41.5	46.8	61	36		9.38	2.04	.0	8.7	5.6	5.8
July	29.87	30.30	29.53	49.4	57.7	62.3	47.4	54.8	71	42		2.60	.84	.0	8.2	3.3	3.7
August	29.87	30.21	29.59	50.0	56.1	59.6	47.6	53.6	68	43		2.44	.47	.0	8.7	6.1	6.5
September	29.71	30.21	29.14	44.3	51.5	54.6	41.2	47.9	61	33		4.63	.99	.0	8.5	5.9	6.1
October	29.59	30.50	28.34	41.8	46.6	49.4	38.6	44.0	55	28		7.88	2.12	.0	8.7	6.1	6.4
November	29.48	30.23	28.47	30.5	33.2	37.0	26.0	31.5	48	12		.73	.26	6.7	8.9	5.6	5.9
December	29.54	30.47	28.67	33.7	35.1	37.5	30.7	34.1	42	16		6.20	1.57	2.9	9.4	8.0	8.3
Year	29.70	30.51	28.34	37.8	42.7	45.8	34.9	40.4	71	−1		57.54	2.12	37.6	8.2	5.9	6.1

NOME, ALASKA

[ϕ=64°30′ N.; λ=165° 24′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: 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: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
January	29.82	30.47	29.17	−3.4	−3.9	3.3	−11.8	−4.2	33	−37	−7	−8	81	80	0.040		0.041	1.48	0.43	10.8	4.1		5.8	5.7
February	30.02	30.89	29.08	−7.2	−.7	3.3	−15.4	−6.0	30	−34	−13	−7	74	74	.029		.034	.81	.53	8.2	3.1		4.6	4.0
March	29.78	30.41	29.00	18.3	23.7	25.3	13.1	19.2	36	−1	12	17	74	72	.075		.094	.91	.40	9.1	4.7		6.6	6.3
April	29.73	30.16	29.04	23.2	29.0	31.1	18.8	25.0	43	−2	19	25	83	84	.106		.137	.93	.30	5.9	7.3		8.0	7.6
May	29.79	30.15	29.11	29.8	36.9	38.0	26.3	32.6	54	8	26	30	86	77	.140		.174	.36	.17	.7	7.0		6.7	6.6
June	29.83	30.14	29.49	40.4	49.3	52.0	37.2	44.6	68	28	37	41	88	76	.222		.265	.31	.11	.4	5.4		4.6	4.8
July	29.77	30.30	29.18	45.2	51.9	54.2	42.4	48.3	74	32	43	46	94	82	.284		.319	1.63	.57	.0	6.7		6.8	6.8
August	29.74	30.12	29.23	44.2	51.9	53.2	42.8	48.0	69	29	42	45	92	79	.271		.305	1.65	.40	.0	6.7		7.5	7.1
September	29.61	29.89	28.95	36.4	43.4	44.8	31.8	38.3	55	20	34	37	89	79	.197		.226	3.28	.68	1.5	6.4		7.1	6.8
October	29.66	30.43	29.10	29.1	34.6	36.8	24.5	30.6	52	9	26	30	89	83	.148		.169	2.18	.59	5.7	6.7		7.0	6.8
November	29.93	30.51	29.34	5.6	8.3	12.4	−.3	6.0	35	−13	0	2	75	73	.044		.044	.29	.23	.6	2.2		3.0	2.6
December																											
Year																											

TANANA, ALASKA

[ϕ=65°10′ N.; λ=152° 06′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a.m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p.m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Extremes: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a.m.	Cloudiness: Noon, local time	Cloudiness: 8 p.m.	Cloudiness: Daylight
January	29.72	30.28	28.97	−23.6	−22.1	−14.8	−34.5	−24.6	21	−60		1.88	0.58	27.2	3.5		5.4	4.7
February	29.80	30.41	29.03	−25.1	−16.4	−10.5	−33.7	−22.1	27	−63		2.40	.85	22.9	3.4		3.9	4.1
March	29.69	30.32	29.04	5.7	16.6	18.4	.2	9.3	36	−26		.10	.08	1.8	2.5		3.8	3.2
April	29.58	29.99	29.04	21.4	37.6	40.4	17.0	28.7	55	−8		.04	.04	.8	3.1		4.4	3.8
May	29.58	29.94	28.90	35.1	52.0	56.2	31.1	43.6	69	19		.47	.15	.0	6.8		6.4	6.4
June	29.59	30.04	29.24	44.5	63.2	67.7	42.3	55.0	82	33		4.66	2.90	.0	6.6		6.5	6.3
July	29.60	30.00	29.24	49.2	67.5	71.2	45.3	58.2	82	34		2.87	1.27	.0	5.8		6.5	6.1
August	29.63	30.00	29.32	44.5	57.3	60.7	40.9	50.8	67	28		3.87	.80	.0	7.6		7.9	7.6
September	29.51	29.85	29.06	34.0	45.9	48.7	29.8	39.2	59	12		2.55	.60	5.5	5.4		7.2	6.7
October	29.58	30.28	28.76	21.8	27.4	30.6	15.8	23.2	41	−9		1.09	.47	11.2	6.5		7.2	7.0
November	29.67	30.20	28.89	−8.3	−2.3	.6	−13.3	−6.4	10	−35		.23	.06	2.3	2.9		3.8	3.5
December	29.63	30.53	28.93	−10.0	−7.8	−3.6	−14.2	−8.9	30	−44		.17	.09	2.2	4.1		5.4	4.8
Year	29.63	30.53	28.76	15.8	26.6	30.5	10.6	20.5	82	−63		20.63	2.90	73.3	4.8		5.7	5.4

* No diurnal correction applied.

† Hours at Kodiak, 2 a.m. and 2 p.m., one hundred fiftieth meridian time; at Nome, 2 a.m. and 2 p.m., one hundred sixty-fifth meridian time; at Tanana, 1 a.m. and 1 p.m., one hundred fiftieth meridian time.

Annual meteorological summaries for the year ending December 31, 1932—Continued

JUNEAU, ALASKA

[H_b=80 ft.; h_1=96 ft. h_2=88 ft.; h_3=116 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or 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 or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.6	S.	27	SE.	0	3	7	4	13	17	2	10	4	2	8	2	21	21	21	17	17	0	1	0	13	0	24	0	0
February	8.7	S.	28	E.	0	2	11	5	16	5	2	8	5	4	4	1	24	22	22	21	20	0	0	0	17	0	24	0	1
March	7.7	S.	28	SE.	0	0	5	3	16	18	2	10	9	2	6	3	22	21	15	16	11	0	0	0	8	0	15	0	6
April	6.2	S.	23	S.	0	0	3	2	11	17	1	10	2	12	12	4	14	11	11	1	1	0	0	0	0	0	6	0	5
May	7.4	S.	30	SE.	0	1	4	3	13	25	5	10	4	2	4	1	26	21	18	0	0	0	0	0	0	0	0	0	1
June	6.9	S.	23	S.	0	2	1	4	8	31	3	8	2	1	0	2	28	25	21	0	0	0	1	0	0	0	0	0	0
July	6.1	S.	22	S.	0	1	1	3	4	22	2	17	5	7	2	2	27	24	17	0	0	0	0	0	0	0	0	0	0
August	5.4	W.	18	SE.	0	0	2	0	1	18	3	22	4	10	3	10	18	14	11	0	0	0	1	0	0	0	0	0	0
September	7.7	S.	31	SE.	0	2	1	4	19	19	0	10	9	5	0	4	26	28	25	0	0	0	0	2	1	0	0	0	0
October	7.4	S.	30	SE.	0	2	3	4	16	23	1	6	2	5	1	6	24	25	22	3	0	0	0	4	2	0	0	2	0
November	9.5	W.	29	E.	0	4	9	11	13	11	4	7	1	0	2	2	26	22	20	19	16	0	0	0	7	0	19	0	0
December	5.8	W.	26	NE.	0	6	4	4	9	13	2	18	2	4	5	1	25	19	15	21	16	0	2	2	20	0	26	0	0
Year	7.2	S.	31	SE.	0	23	59	53	157	219	29	136	31	54	47	38	281	253	218	98	81	0	12	5	65	0	116	0	14

KODIAK, ALASKA †

[H_b=15 ft.; h_1=5 ft. h_2=4 ft.; h_3=— ft.]

January		NW.*				1	1	1	1	1	13	5	13	26	13	3	15	16	16	15	11	0	0	1	13	0	30	0	0
February	10.6	NW.	46	SW.	3	0	1	0	0	0	8	9	14	26	13	10	6	3	1	6	2	0	0	1	14	0	22	0	0
March	8.0	NE.	33	W.	0	3	16	3	6	1	2	2	10	19	8	2	21	21	16	11	6	0	0	0	0	0	18	0	0
April	8.4	NE.	32	NW.	1	4	16	1	8	3	4	5	4	15	7	2	21	19	14	3	3	0	0	0	0	0	8	0	0
May	8.2	SE.	22	E.	0	1	10	8	14	9	3	2	3	21	12	7	12	22	17	0	0	0	0	0	0	0	0	0	0
June	6.8	NE.	21	SW.	0	2	13	2	7	1	1	0	9	23	13	6	11	20	16	0	0	0	0	0	0	0	0	0	0
July	6.4	SE.	29	W.	0	0	0	1	3	0	2	3	2	51	22	5	3	10	7	0	0	0	0	0	1	0	2	0	0
August	6.7	SE.	29	SE.	0	0	2	4	12	1	2	4	0	35	10	6	15	18	14	0	0	0	0	0	1	0	2	0	0
September	6.4	SW.	26	W.	0	2	4	3	5	1	6	3	3	29	11	6	13	17	13	0	0	0	0	0	0	0	0	0	0
October	8.0	NE.	34	W.	2	1	8	6	7	2	5	6	2	12	10	5	16	19	17	0	0	0	0	0	2	0	4	0	0
November	9.6	NW.	49	W.	4	0	0	0	1	4	8	19	19	14	1	1	15	9	6	8	4	0	0	0	6	0	26	0	0
December	9.9	NE.	38	SE.	4	5	10	4	8	4	9	4	3	15	6	2	23	18	15	7	4	0	0	0	2	0	20	0	0
Year		NW.				20	90	35	71	16	64	46	92	298	136	55	173	194	152	50	30	0	0	3	35	0	128	0	0

NOME, ALASKA †

[H_b=22 ft.; h_1=8 ft. h_2=4 ft.; h_3=55 ft.]

January	9.2	NE.	40	S.	3	8	22	13	1	5	2	5	8	0	8	10	13	11	6	16	11	0	3	4	29	0	31	0	14
February	8.1	NE.	43	N.	5	10	18	15	2	3	1	3	5	1	14	7	8	7	3	9	7	0	2	1	28	0	29	0	18
March	11.9	NE.	40	NE.	4	6	24	22	2	2	0	3	5	0	8	6	17	13	7	16	13	0	0	0	28	0	31	0	19
April	8.3	E.	26	E.	0	4	12	20	6	1	2	7	3	1	6	9	14	12	7	17	12	0	0	0	28	0	30	0	6
May	9.2	NE.	38	NE.	1	6	20	11	9	4	2	7	4	2	5	6	19	14	6	17	12	0	0	0	14	0	28	0	6
June	8.9	W.	36	NE.	1	6	7	1	4	5	14	16	7	0	13	7	10	13	12	2	10	0	0	0	7	0	21	0	0
July	10.0	W.	29	SE.	0	1	2	5	12	7	6	22	6	1	9	3	19	9	8	0	0	0	0	0	0	0	0	0	0
August	9.7	NE.	30	SE.	0	13	8	8	2	7	12	7	3	1	5	3	20	17	10	0	0	0	0	0	0	0	3	0	1
September	11.3	N.	38	S.	6	10	10	3	4	7	15	4	7	0	7	5	18	15	11	5	4	1	0	0	8	0	16	0	13
October	10.9	NE.	33	SW.	2	8	16	15	7	1	6	1	5	9	8	2	21	16	14	14	11	0	3	0	8	0	26	0	13
November	6.4	NE.	26	S.	0	10	25	8	5	2	1	1	7	1	21	3	6	4	2	8	4	0	2	0	29	0	30	0	10
December																													
Year																													

TANANA, ALASKA †

[H_b=228 ft.; h_1=4 ft. h_2=3 ft.; h_3=— ft.]

January		NW.*				0	11	3	12	0	1	0	17	18	14	10	7	12	7	12	12	0	2	0	31	0	31	0	10
February		SE.				3	1	1	17	2	1	1	15	17	17	4	8	8	7	9	8	0	2	3	29	0	29	0	13
March		SE.				1	2	3	33	0	0	0	3	13	15	16	0	3	1	4	3	0	0	0	27	0	31	0	21
April		SE.				0	3	0	31	0	1	0	6	22	18	11	3	1	1	1	1	0	0	0	7	0	29	0	13
May		SE.				6	1	0	16	3	8	2	14	12	5	14	12	9	4	0	0	1	0	0	0	0	20	1	0
June		SE.				4	2	0	23	1	15	2	6	11	8	13	10	14	12	0	0	1	0	0	0	0	6	0	0
July		SE.				4	0	1	16	4	11	1	6	20	2	8	21	21	16	0	0	0	0	0	0	0	4	0	5
August		SE.				3	1	1	16	4	4	0	7	11	4	15	11	16	12	5	2	2	0	0	1	0	15	0	10
September		SE.				3	6	0	25	4	1	1	3	9	6	6	18	11	8	14	11	0	0	0	16	0	30	0	4
October		SE.				1	7	0	30	1	0	1	7	11	10	4	7	7	2	10	7	0	0	1	30	0	30	0	16
November		SE.				0	7	0	32	2	0	2	10	10	12	10	9	4	2	6	4	0	0	0	31	0	31	0	16
December		SE.				1	3	1	33	0	0	2	10	10	12	10	9	4	2	6	4	0	0	0	31	0	31	0	16
Year		SE.				26	46	9	309	20	60	10	96	166	124	122	120	122	84	61	48	4	6	4	172	0	253	14	108

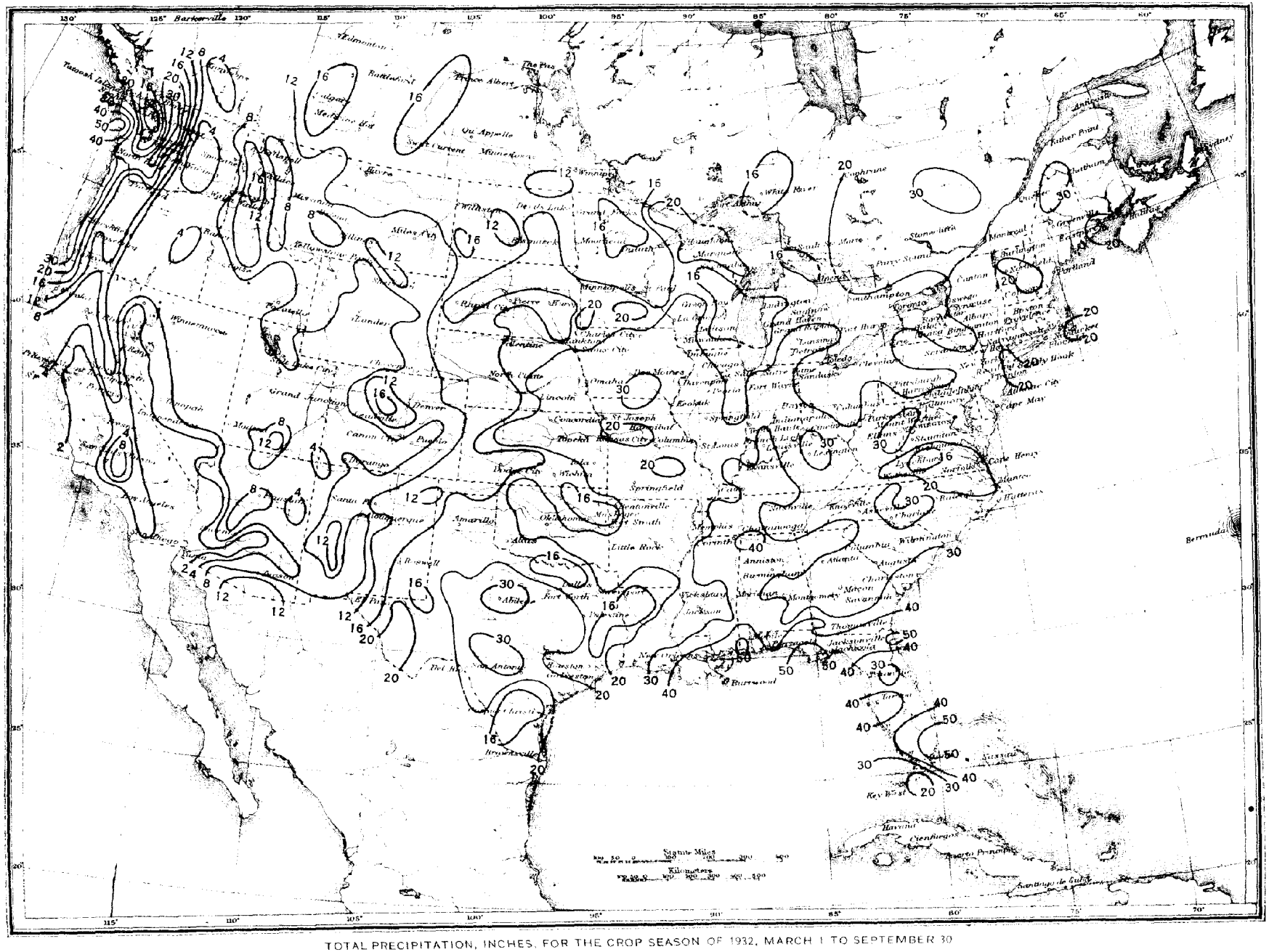
* By eye observations at this station.
† For hours of observation see note on preceding page.

CHART 1

DEPARTURE FROM NORMAL TEMPERATURE, IN DEGREES FAHRENHEIT, FOR THE CROP SEASON OF 1932, MARCH 1 TO SEPTEMBER 30

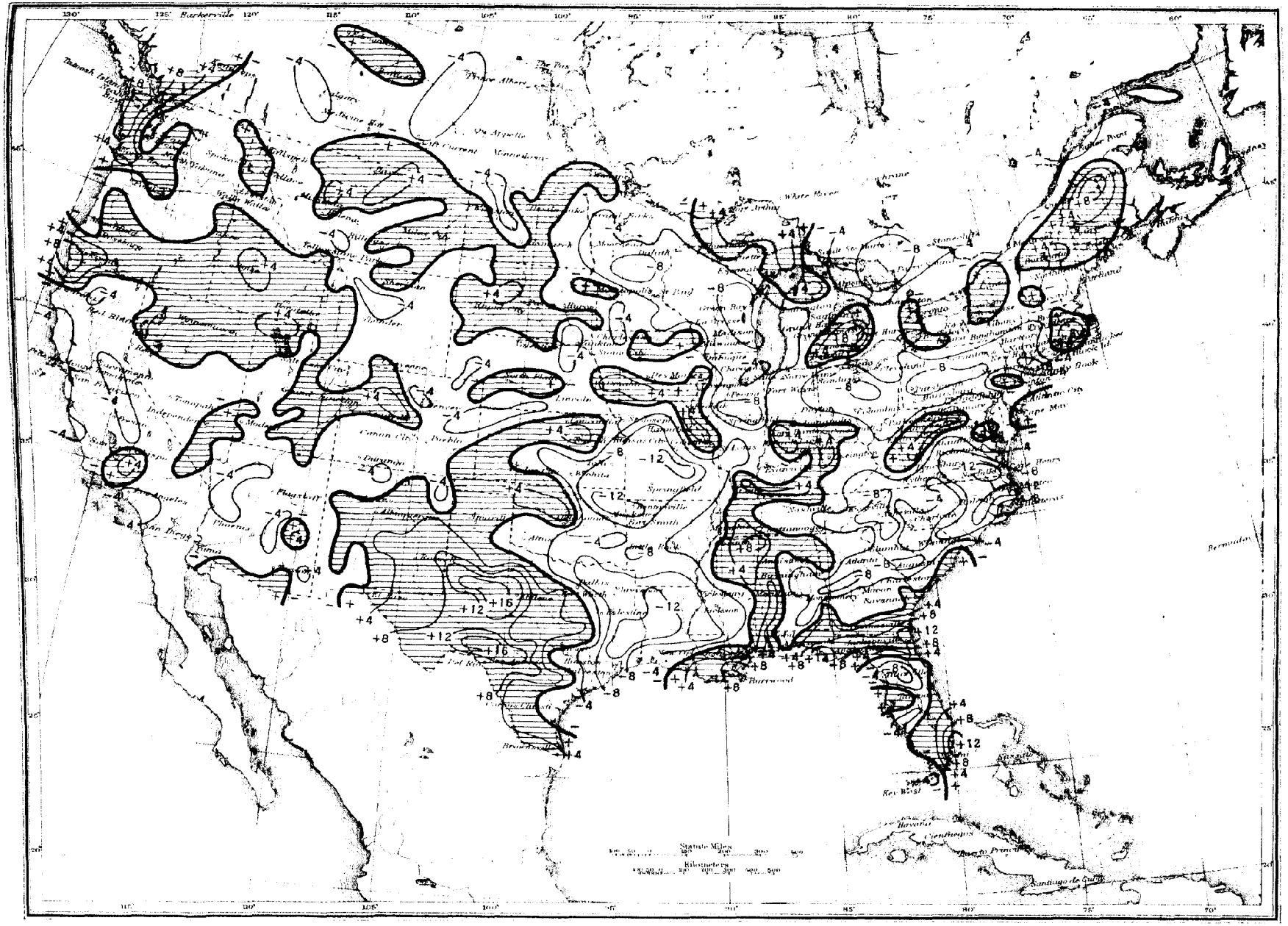
Shaded portions show excess (+) and unshaded portions deficiency (−) of temperature. Figures show mean daily excess (+) or deficiency (−) of temperature over areas bounded by light lines.

CHART 2



TOTAL PRECIPITATION, INCHES, FOR THE CROP SEASON OF 1932, MARCH 1 TO SEPTEMBER 30

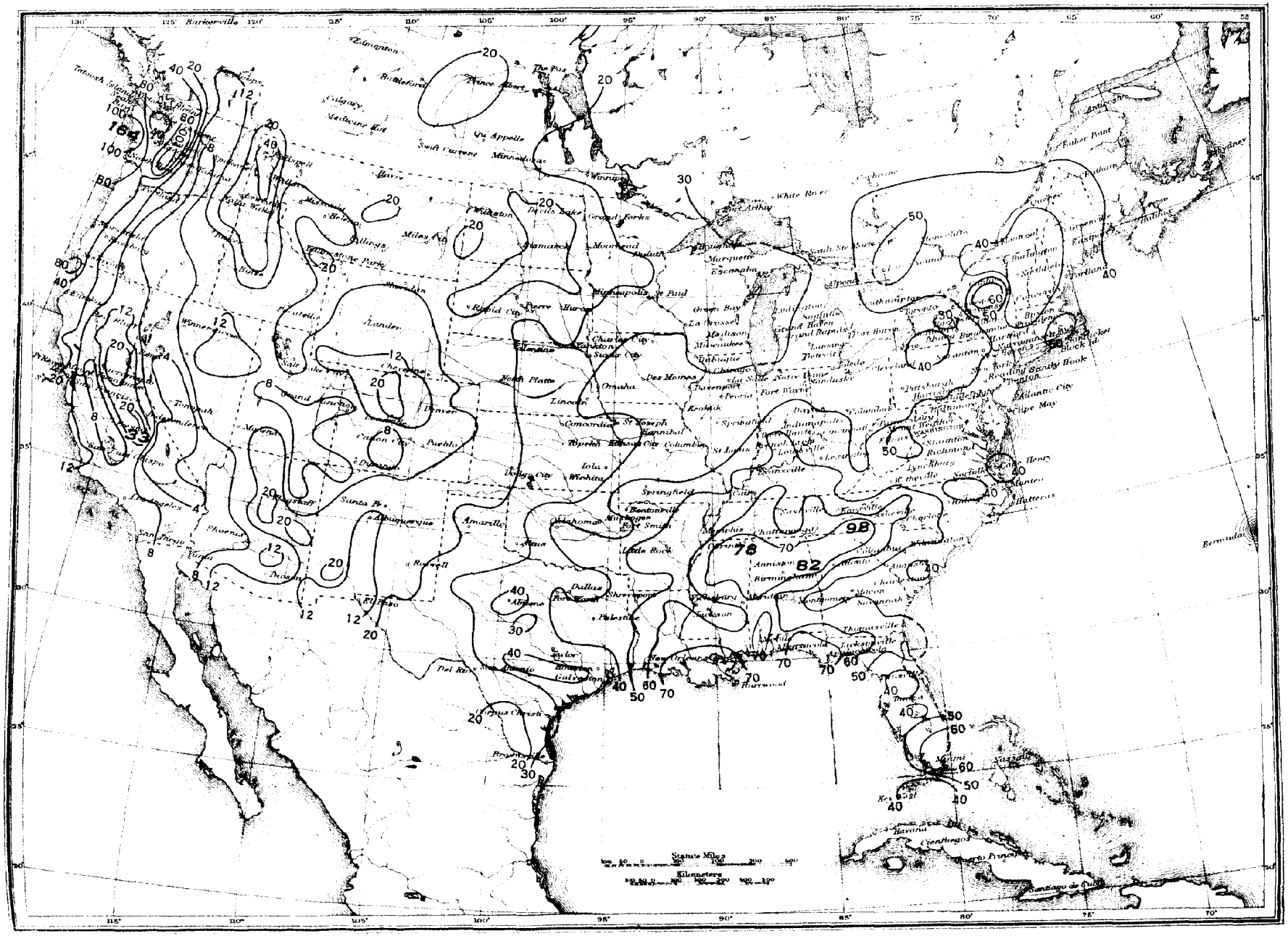
CHART 3



DEPARTURE FROM NORMAL PRECIPITATION FOR THE CROP SEASON OF 1932, MARCH 1 TO SEPTEMBER 30.

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

CHART 4



TOTAL PRECIPITATION, INCHES, FOR THE YEAR 1932