UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

REPORT

OF THE

CHIEF OF THE WEATHER BUREAU

1929-30

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LETTER OF TRANSMITTAL

UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU,
Washington, D. C., September 15, 1930.

SIR: I submit herewith a report of the work of the Weather Bureau during the fiscal year ended June 30, 1930.

Respectfully,

C. F. MARVIN,
Chief of Bureau.

Hon. ARTHUR M. HYDE,
Secretary of Agriculture.

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PART I

ADMINISTRATIVE REPORT

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REPORT

OF THE

CHIEF OF THE WEATHER BUREAU

The topics chosen for particular discussion in this report are the drought of 1930 and expansions of service in aid of aviation.

THE UNPRECEDENTED DROUGHT OF THE SUMMER OF 1930

Basing the statement on weather reports up to August 31, we may say that the drought and heat wave are over, but reports for the remainder of the year will be required before a full history can be written.

The central and eastern portions of the country have now passed through the most severe drought in the climatological history of the United States. By the 1st of September the drought had continued for nine months in the middle Atlantic area, six months over the Ohio and middle Mississippi Valleys, and for shorter periods in nearly all other sections east of the Rocky Mountains. The middle Atlantic area was dry during the winter season. In March the drought extended westward over the Ohio and middle Mississippi Valleys, and thence in other directions as the season progressed.

For the spring months, March to May, West Virginia, Kentucky, Indiana, Illinois, and Missouri had the least precipitation of record, with the average for the group only 57 per cent of normal, while the middle Atlantic area had only slightly more than 60 per cent. In June, the Ohio and lower Mississippi Valleys suffered most, while by July deficiencies in precipitation extended to all States east of the Rocky Mountains, except New England and Georgia. In this month 18 States had only 20 to 50 per cent of normal rainfall, with an average of 39 per cent. In August the drought continued in nearly all sections and was greatly intensified in some Northern and Southeastern States not theretofore serious affected.

For the summer, June to August, a belt of States extending from Maryland and Virginia southwestward to the lower Mississippi Valley established new rainfall records for the season, while in a group of 16 States, including Pennsylvania, Maryland, Virginia, West Virginia, Tennessee, Kentucky, Ohio, Michigan, Indiana, Illinois, Missouri, Oklahoma, Arkansas, Texas, Louisiana, and Mississippi, the average precipitation was only 54 per cent of normal. Not a single State east of the Rocky Mountains had as much as normal precipitation for this period of the three principal growing months, and some half dozen States had less than half the normal. The summer season was generally warm, with the period from about the middle of July to middle of August having abnormally high temperatures, the previous maximum records being equaled or exceeded in many places. These unusually high temperatures greatly intensified the effect of the deficient moisture.

July and August combined brought the driest weather of record to Pennsylvania, Maryland, Virginia, West Virginia, Kentucky, Missouri, and Arkansas, with an average for these seven States of only 41 per cent of normal. The growing season, as a whole, March to August, was the driest of record over a large area, comprising the Middle Atlantic States and the Ohio and middle Mississippi Valleys.

Table 1 contains a summary of drought data by months. The deficiencies in rainfall, in percentages of normal, are shown for each State for all successive months when the amounts

were continuously below normal, the italic type indicating the greatest deficiencies of record for the respective months. This tabulation shows graphically the spread of the drought as the season progressed. For example, in January, only 3 States that continued dry thereafter had deficient precipitation, while for March the number had increased to 8, May to 10, June to 19, and July to 30. It will be noted that South Dakota and Nebraska had more than normal rainfall in August, hence experienced only two consecutive months with deficiencies.

Considering the New England States as a unit, and also Maryland and Delaware, there are 32 units (most of them States) east of the Rocky Mountains. Of these, 27 had deficient rainfall in March, with an average deficiency of 40 per cent; 27 in April, with an average deficiency of 38 per cent; 20 in May, with an average deficiency of 29 per cent; 24 in June, with an average deficiency of 34 per cent; 30 in July, with an average deficiency of 52 per cent; and 30 in August, with an average deficiency of 45 per cent.

TABLE 1.—*Deficiencies in precipitation, in percentages of normal, for the drought of 1929–30, by States and months for the period continuously below normal*

State	December	January	February	March	April	May	June	July	August	Number of successive months with deficiencies	Average monthly deficiency
Maryland and Delaware	27	18	30	42	26	38	15	*64*	*76*	9	37
Virginia	34	18	52	44	33	36	23	*62*	*60*	9	40
West Virginia	24	49	17	16	45	46	*36*	*59*	45	9	37
Missouri			19	53	47	28	22	*76*	44	7	41
Kentucky				53	68	27	*58*	*76*	39	6	52
Ohio				18	34	50	42	*62*	32	6	40
Indiana				54	26	55	32	47	36	6	42
Illinois				53	21	55	13	*70*	41	6	42
Alabama					65	5	53	26	22	5	34
Montana						41	43	32	10	4	32
North Dakota							11	58	36	3	26
Arkansas							*79*	*80*	32	3	64
Tennessee							*68*	46	35	3	50
Mississippi							*87*	50	27	3	55
Louisiana							*88*	39	11	3	46
Texas							36	58	43	3	46
Oklahoma							7	62	40	3	36
Kansas							2	41	10	3	18
Minnesota							5	29	*67*	3	34
Iowa								61	29	2	45
Wisconsin								30	67	2	48
Michigan								54	73	2	64
Pennsylvania								50	*66*	2	58
New Jersey								13	33	2	23
New York								23	36	2	30
North Carolina								38	49	2	44
South Carolina								18	58	2	40
Florida								*40*	39	2	40
Georgia									63	1	
Nebraska							16	56	[47]	2	
South Dakota							23	66	[18]	2	

Italic number indicates greatest deficiency of record. Number in brackets indicates an excess.

The drought has established the following low precipitation records for the periods named:

Maryland and Delaware: December to August; March to August; summer (June to August); July; August; July and August combined.

Virginia: December to August; March to August; summer (June to August); July; August; July and August combined.

West Virginia: December to August; March to August; spring (March to May); summer (June to August); June; July; July and August combined.

Kentucky: March to August; spring (March to May); summer (June to August); June; July; July and August combined.

Ohio: March to August; July.
Indiana: March to August; spring (March to May).
Illinois: March to August; spring (March to May); July.
Missouri: March to August; spring (March to May); July; July and August combined.
Arkansas: Summer (June to August); June; July; July and August combined.
Tennessee: Summer (June to August); June.
Mississippi: Summer (June to August); June.
Louisiana: June.
Minnesota: August.
Pennsylvania: March to August; July and August combined.

Other noted droughts.—Previous outstanding droughts in the United States are of record for the years 1881, 1894, 1901, 1911, 1916, and 1924.

Table 2 contains data comparing these with the drought of 1930. It shows the percentage of normal precipitation for each of the droughts for the spring months, March to May, combined and for June, July, and August separately. A comparison of the figures shows that the 1930 drought, when considered in all its details, easily takes first place in the climatological drought history of the country.

TABLE 2.—*Percentage of normal precipitation for March to May, June, July, and August in 27 States, 1930, 1881, 1894, 1901, 1911, 1916, and 1924*

State	1930				1881				1894				1901				1911				1916				1924			
	March to May	June	July	August	March to May	June	July	August	March to May	June	July	August	March to May	June	July	August	March to May	June	July	August	March to May	June	July	August	March to May	June	July	August
Maryland [1]	64	85	36	24	79	182	54	26					128	79	123	135	94	105	61	230	98	151	125	51	153	136	57	95
Virginia	61	77	38	40	68	74	74	27	72	46	89	76	138	108	104	198	80	83	68	136	79	135	121	73	137	107	77	98
West Virginia	64	64	41	55	89	131	90	30	84	73	48	52	144	126	70	127	80	98	61	167	102	120	76	120	140	104	98	115
Kentucky	51	42	30	61	73	123	49	33	77	68	49	81	80	100	41	138	95	102	56	108	79	122	102	113	98	110	88	81
Ohio	64	58	38	68	78	147	95	34	82	65	41	52	96	110	69	100	81	97	62	164	104	122	49	94	99	160	72	64
Indiana	54	68	53	64	85	134	38	33	90	68	41	55	64	116	38	94	87	100	50	97	84	174	71	97	96	163	56	112
Illinois	57	87	30	59	83	123	88	62	84	59	45	53	66	85	73	53	82	72	70	124	77	141	36	120	78	174	100	150
Missouri	59	78	24	56	80	114	38	44	88	80	62	42	70	43	50	50	73	37	100	110	98	143	30	105	82	151	135	106
Arkansas	94	21	20	68	92	105	37	22	133	33	105	124	79	33	66	81	90	58	126	222	62	121	55	70	88	84	63	65
Tennessee	86	32	54	65	89	100	36	44	81	55	93	93	91	70	45	239	96	86	109	110	79	127	166	119	97	77	86	59
Alabama	77	47	74	78	111	79	33	147	76	51	93	153	118	65	63	189	92	91	106	111	74	79	310	80	93	125	67	64
Mississippi	96	13	50	73	83	54	38	80	84	55	116	134	80	52	80	159	94	102	128	145	92	93	204	82	91	80	34	41
Louisiana	79	12	61	89	71	23	50	43	100	88	98	125	80	63	114	106	95	96	151	154	95	81	129	87	92	62	24	44
Texas	95	64	42	57	102	9	81	73	107	79	81	200	76	39	96	62	102	27	142	81	87	67	104	104	100	54	35	50
Oklahoma	95	93	38	60	98	21	181	33	101	42	55	50	96	53	61	53	59	29	171	124	73	174	26	40	95	90	94	80
Kansas	94	98	59	90	114	73	85	63	69	120	48	23	86	57	53	84	61	15	118	116	86	147	24	68	86	54	109	132
Nebraska	130	84	44	147	159	134	85	54	54	84	41	25	86	118	47	79	75	47	88	125	76	90	53	125	61	113	112	79
Iowa	78	129	39	71	84	164	130	79	74	60	16	47	72	82	60	38	83	40	60	97	97	82	47	76	61	130	98	159
South Dakota	90	77	34	118	121	86	93	127	102	83	33	55	69	183	67	114	63	51	78	155	113	103	89	150	56	140	63	109
North Dakota	81	89	42	64	77	109	38	104	125	97	23	48	46	174	166	78	92	89	69	156	106	112	123	122	79	120	77	70
Montana	84	57	68	90									114	112	67	42	104	112	67	150	95	154	47	100	65	107	74	84
Minnesota	88	95	71	33	81	88	49	154	148	64	20	40	74	142	95	67	93	93	103	131	133	120	80	113	87	106	80	149
Wisconsin	83	136	70	33	101	103	157	91	133	83	25	25	72	108	117	52	92	86	103	116	108	157	44	94	116	108	98	222
Michigan	84	106	46	27	90	155	97	75	133	90	46	18	83	81	140	91	92	100	94	97	122	155	40	90	95	78	117	129
Pennsylvania	80	102	50	34	81	171	50	40	130	64	53	43	139	86	89	162	77	115	64	181	100	149	100	62	117	137	78	91
New Jersey	68	114	87	67	97	153	42	24	113	63	37	55	148	44	129	196	80	146	79	178	92	114	118	26	129	114	57	88
New York	97	116	77	64	86	97	62	40	105	93	67	43	145	93	122	135	72	110	72	122	114	128	85	58	108	76	88	95

[1] Delaware included.

In 1881, June was very dry in the Southwest, and July and August in the central valleys and in the East.

In 1894, severely droughty conditions were confined to the central valleys and the Northwest.

In 1901, the central valleys, especially the western Corn Belt, suffered most.

In 1911, the greatest deficiencies in precipitation occurred rather early in the season.

In 1916 and 1924, the droughts covered comparatively small areas.

Results of this drought.—The 1930 drought seriously affected all growing crops, and the scarcity of water for livestock and in some sections for domestic use became a serious problem, especially in Kentucky and some other parts of the interior valleys. Winter wheat was not affected by the drought; in fact, the weather was favorable for ripening which gave a good quality of grain and better yields than expected in many places. Early spring wheat also

largely escaped, but heat and drought damaged the late crop considerably, especially in the shriveling of grain. In general, oats were less harmed than spring wheat, though the late crop was badly damaged in the North Central States, notably in the upper Mississippi Valley, and late flax was materially reduced in yield. Potatoes also suffered serious harm in the interior valleys, but continued fairly good in many heavy producing sections. Late truck crops and gardens, pastures and hay, and corn were the hardest hit, and the damage to these, together with the shortage of water for livestock and other uses in many places, constituted the most serious aspects of the drought.

A prospective corn crop of 2,802,000,000 bushels on July 1 was reduced by September 1 to 1,983,000,000, or a loss of more than 800,000,000 bushels. The condition of pastures in many central and eastern parts of the country was by far the lowest of record.

In addition to its economic effects, mention may be made briefly that river stages show the extent and severity of the drought. In the Missouri Basin above Pierre, S. Dak., and in that part of the upper Mississippi Basin above the Iowa-Minnesota line low river stages are not unusual for July and August, but in the remainder of the drainage area of the Mississippi River system, and on the Atlantic slope of Pennsylvania, Maryland, Virginia, and North Carolina the dry weather is plainly reflected in the low-water stages. Many of the small streams in the Missouri Basin are dry, and in the remainder of the drought area all streams are either as low as they have ever been in August, or are very close to the low record. In North Carolina and in the territory drained by the southern tributaries of the Ohio, low stages in 1925 appear to have been slightly lower than those prevailing in the present summer.

Wells are failing, water for stock is scarce where comparatively large streams are not available, and the matter of sewage disposal in a few places is becoming acute. The hydroelectric plants on the large streams are not suffering, but on the smaller streams they have either shut down or are drawing rather heavily on their reserves. Navigation on the controlled rivers is not interrupted, but on the Mississippi, especially north of Cairo, the low water has made it necessary to materially decrease the length of tows, which is a very serious interruption.

Causes of droughts, heat waves, etc.—Foremost in the minds of all during a summer like 1930 is the question: "What causes such abnormal conditions?" No conclusive and comprehensive answer can be given. Moreover, the answer will need to be varied and adapted more or less to particular cases. Directing our answer particularly to the extensive drought of 1930, all we can say is that these unusual conditions are best explained as a prolonged stagnation of the air over nearly the whole continental extent of the United States. In ordinary years this great blanket of atmosphere overlying the continent is in more or less active circulation. Cool air from the polar regions moves southward from time to time. This feature of circulation has been especially absent this summer. Warm air from the tropical latitudes moves northward at intervals. Air from the oceans and Gulf moves inland, and there is a more or less active and continuous interchange of these different air masses, causing the agreeable and favorable conditions that prevail in ordinary years. This circulation and interchange has been conspicuously absent for a long time during the present great drought.

During this stagnation the occasional showers and thunderstorms here and there over the drought-stricken region served only to dry out the overlying air masses. Only a part, at best, of this water is evaporated back into the free air, and with little or no moisture borne in by winds from the oceans, each successive inland shower, coupled with the stagnation and absence of general rain-causing processes, tends to further deplete the moisture supply and intensify the drought condition. It may be pointed out, also, that over most of the United States the summer heat is normally at its maximum about the last week of July. Therefore, summer-time stagnation and lack of active circulation within the continental air blanket causes the absence of precipitation and permits the culmination of excessive temperatures, but the experts are unable to assign a specific cause for the prolonged stagnation.

Cycles and seasonal weather forecasts.—The occurrence of any notable weather event, such as the drought of the summer of 1930, is always made the occasion for discussion of the possibility of predicting such happenings sufficiently far in advance to permit of steps being taken, if indeed

any such are possible, to lessen the economic loss which is bound to result so long as they arrive unheralded.

Another even more futile imagination is that these untoward happenings can be caused or suppressed by man himself. For example, many letters are received urging that by the use of explosives and aerial bombardment we can cause plentiful rain. Curiously enough, another group of writers urge us to employ aerial explosives and bombardment to destroy hurricanes, tornadoes, etc. Here we have the absurd representation that by the use of exactly the same means we can supply rainfall to drought-stricken regions or we can suppress tornadoes, hurricanes, etc., which are frequently accompanied by even torrential rainfalls.

With reference to these and the possibility of future forecasting, the Weather Bureau continues to hold an entirely open mind and to seek for promising lines of attack on the problem of such forecasts; but we can not be led away from a sane and rational conservatism in these matters, either by the occurrence of great natural disasters or the confident assertions of advocates of this, that, or the other fanciful idea. In so far as a sound physical basis for seasonal forecasts is involved, the subject can be said to be still in the speculative stage. Some practical advances have been made by means of correlations, but the sum total of results attained by this method is relatively small.

The complexity of the problem is well illustrated by the weather extremes of the past year in different agricultural areas. While a greater part of the United States was suffering for want of rain, western Europe was experiencing an extraordinarily wet harvest season, and in the great corn-growing region of Argentina the weather was so continuously wet as to delay the conditioning of corn for shipment overseas. It will be readily understood that until the different kinds of weather which occur simultaneously throughout the world have been satisfactorily correlated among themselves, forecasts therefor from a single factor, such as periodicity in sunspots or variations in solar radiation, can have no hope of success.

One line of attack on the problem of seasonal weather forecasts that is thought by meteorologists to offer some promise of success is that afforded by changes in the temperature of the surface waters of the oceans. It is well known that the oceans exert a pronounced influence on the climate of adjacent land areas. The character, amount, and extent of the influence depend on various circumstances, as latitude, direction of the prevailing winds, topography, and distance from the coast. Inadequacy of observations and other difficulties have hitherto operated to prevent any considerable investigations in this field by the Weather Bureau, although some preliminary work has been done in recent years. However, as a result of the development of commerce with Latin America and the opening of the Panama Canal observations from ships have been increasing from the strategic water areas embracing portions of the Atlantic equatorial currents and the Gulf Stream.

Much has been said by many people that weather phenomena recur in cycles. Naturally this whole subject is a very complicated one, and we all recognize the ups and downs and the frequent extremes of heat and cold, wet and dry weather phenomena. A critical study of these phenomena has failed to disclose any such orderly system of recurrences as the word "cycle" connotes in the minds of most people. Forecasts on any such basis as this will fail quite as many times as they might succeed, and even at the best the intervals between recurrences are subject to such wide changes in length of interval, and the magnitudes of the extremes, although sometimes large, are frequently entirely insignificant, so that the reality of cycles is very problematical, and forecasting by means of them is as yet unsuccessful.

The subjects of correlations and periodicities of weather phenomena are under continuous investigation by one or more of the experts of the bureau, in the hope of discovering useful information.

WEATHER SERVICE FOR AIRWAYS

In previous annual reports, particularly those issued in 1927, 1928, and 1929, the bureau's service for flying activities was discussed at some length, principally from the point of view of organization and the legislation authorizing it. It seems proper at this time to indicate the

general character of this service, as now organized, and to point out needs for expansion as the network of airways is still further extended.

As is well known, the Weather Bureau is charged with the duty of furnishing service for all interests—agriculture, commerce, and navigation, which last now includes the air as well as the sea. In doing this the bureau has organized a network of some 210 first-order stations, well distributed over the entire country. These stations regularly exchange reports twice daily and also keep continuous records of weather conditions for statistical and research purposes. The twice-daily reports are used in issuing summarized statements and forecasts, which are given wide dissemination by telegraph, telephone, radio, and the press. This may be called the bureau's general or primary service.

In addition, several more detailed and intensive services have been organized to meet special needs, including the protection of fruit and other crops from frost, warnings of conditions favorable for floods, forest fires, hurricanes, and other violent storms. For these services numerous second-order stations—several hundred of them—have been established at points from which experience shows that the information is needed. The reports are made by noncommissioned personnel, in accordance with prearranged schedules or on call.

The most recently organized of these intensive services is that for flying activities on commercial airways. The bureau's authority for this service is defined in section 5 (e) of the air commerce act of 1926. In organizing the service, close cooperation is maintained with the Department of Commerce, which is charged with providing communication, lighting, and landing facilities for the airways. As a rule, detailed surveys of proposed airways are made jointly by representatives of both departments. In the course of these surveys a study is made of past records in order to determine the general character of the weather conditions that are likely to be encountered. Pilots and officials of the air-transport companies and others who are familiar with the section are consulted with a view to determining what the needs are and how to meet them. Finally, a program of service is formulated and organized. Naturally, it is necessary to keep this program within the limit of funds appropriated for the purpose and also to distribute those funds equitably and impartially to all sections of the airways system.

The basic features of the service are timely reports of current conditions and short-period forecasts. In other words, the aim is to give the pilot the weather of the "now" and the "soon-to-be." To do this, special observing stations are established along and near the airways. The distance between these stations varies from 5 or 10 to 100 miles, depending on the topographic and meteorological characteristics of the section. The time interval between reports also varies, this depending largely on the volume of traffic. Where flying is more or less continuous, both day and night, reports are received from all observing stations on the airways once each hour, and in some cases intermediate half-hourly reports are received from the more important terminal stations. On airways having as yet but little traffic—one regular daily flight each way for example—the reports are timed to fit the schedules. This latter type of service as a rule characterizes only the earlier stages of an airway's history. As flying increases and off-schedule flights become common, experience shows that the needs for service can be met adequately only by frequent and regular reports.

Attention is invited to the accompanying plate, which shows the airways for which service is now furnished. At about 50 of the more important terminal airports on these airways the bureau has established continuous 24-hour service, with full instrumental equipment and personnel of four to seven technically trained men. At some 250 intermediate stations the observations are made by properly instructed, though not technically trained, personnel who report the conditions as observed by eye or with comparatively simple instrumental equipment. Reports from these special stations are transmitted to the bureau's more important centers on the airways.

Naturally the prompt collection of these reports (and unless they are prompt, all the effort is wasted) requires a highly efficient communication system, whose organization is a function of the airways division of the Department of Commerce. It was early found that, for this

particular purpose, dependence can not be placed on the ordinary commercial facilities. During the time of peak loads, that is in the middle of the day, absolute promptness could not be guaranteed. All types of business are entitled to equal service. It was evident, therefore, that a system of communications under absolute control is necessary. This has been accomplished on some of the main airways through the installation of a printing telegraph, or teletype, circuit. The circuits consist of leased telephone lines 500 to 800 miles in length between terminal airports with drops at the intermediate weather-reporting stations, each one of which has an automatic typewriter, or teletype machine. The messages are typed on these machines in sequence, the various stations following one another in rapid succession; and each message is received on tape by all other stations in the circuit. This system of communications is prompt and is rapidly increasing in efficiency and reliability. The Department of Commerce plans to extend it eventually to all interstate-trade air routes.

All reports, whether sent by teletype, telephone, telegraph, or radio, include information concerning the following elements: General condition of sky and weather; ceiling; visibility; surface wind direction and velocity; temperature; barometric pressure; and miscellaneous conditions, such as thunderstorms, squalls, and state of landing field as affected by rain, snow, etc.

In many cases dew point is also reported, and some of the airport stations (about 45 at present) give detailed data of wind direction and velocity at various heights.

For the general condition of sky and weather no instruments are required, but certain definite terms have become standard for expressing it, such as "clear," "broken clouds," "overcast," "fog," "heavy rain," "sleet," etc. This first word in the report tells the pilot at once whether conditions are satisfactory, impossible, or simply uncertain and therefore subject to further study.

The next two items, ceiling and visibility, usually answer this question of uncertainty. For observations of ceiling at night when clouds are present the so-called "ceiling light" is in general use. A beam of light is shot upward, in some cases vertically, in others at a 45° angle, and in still others at some intermediate angle. The use of this instrument has not as yet wholly passed the experimental stage, but the concensus of opinion is that a vertically projected beam gives the best results. There is still some uncertainty also as to the most satisfactory intensity. At present 250-watt bulbs are in general use, although a higher intensity is favored by some, especially for stations in mountainous country, where high ceilings are essential for safety. In all cases the beam makes a spot of light where it strikes a cloud. This spot is more or less definite and well marked, depending on the density of the cloud mass. The height of the spot, and therefore of the ceiling, is determined by means of an alidade or clinometer. The angular reading of this instrument, together with the known distance of the light source from the point of observation, provides the necessary data. In many cases the alidade is graduated in heights instead of degrees, and thus eliminates the need of computation or the use of tables or graphs.

For observations of ceiling in the daytime, so-called "ceiling balloons" are used. These are about the size of ordinary toy balloons, although of a somewhat better quality. They are filled with hydrogen until just capable of sustaining a 40-gram weight. When released, they rise at a known and fairly constant rate. It is then only necessary to note accurately the exact time of their disappearance in the cloud. As in the case of ceiling lights, when the cloud mass is of a light and tenuous nature, there is some slight uncertainty as to the exact moment of disappearance, and it is general practice to report the height at which the balloon begins to be indistinct. Ceilings are usually given only to the nearest hundred feet. Greater precision is not warranted in view of the fact that the cloud base itself varies as much or more within relatively short distances.

Observations of visibility are noninstrumental. It is customary to give the greatest distance at which conspicuous objects can be clearly seen. Whenever practicable, lights are used at night. This method is approximate only, but fortunately it is most nearly accurate at times when the information is of most importance; that is, when visibility is low. It should

be stated that observations of visibility show conditions in the horizontal, not in the vertical. No attempt is made to measure vertical visibility except when clouds are low, in which case it is defined by the height of the ceiling.

These two elements—ceiling and visibility—have been dwelt on at some length for the reason that all pilots ask first for information regarding them. Many ask for nothing else if these are favorable, whereas they were never thought of in meteorology before the days of flying; now they are among the most important working elements of the meteorologist whose duty it is to tell pilots what the weather is or is going to be.

Wind direction and velocity at the surface, temperature, dew point, and barometric pressure are all so well known, as also the instruments used in observing them, that only a passing reference is necessary. Information concerning surface wind is useful principally in connection with taking off and landing. Temperature and dew point together determine the likelihood of fog and of ice formation on the planes. Reports of pressure enable the pilots to correct their altimeters, in addition to furnishing the meteorologist with basic data for synoptic charts or weather maps.

Miscellaneous phenomena are observed directly without instruments. They include thunderstorms, line squalls, exceptionally heavy rain or snow, ice formation as reported by incoming pilots, and any other conditions a knowledge of which is useful and at times vital in determining whether or not flights should be made. Special attention is always given to this part of the reports.

For measurements of upper wind direction and velocity, so-called "pilot balloons" are in general use at airports. These balloons when uninflated are about 6 inches in diameter and are made of pure rubber. Different colors are employed to give the best possible visibility against varying backgrounds of sky and cloud. The balloons, when filled with hydrogen, are about 28 to 30 inches in diameter and ascend at a nearly uniform rate of 600 feet a minute. Their ascent is watched with a theodolite, and angular readings are made each minute. By means of slide rule, portable telephone, and plotting board, computations are made while the observation is in progress, with the result that the wind conditions at various levels are known in detail within two or three minutes after the balloon disappears. For observations at night a small lantern is suspended a few feet below the ballon. Reports containing these data are received as a rule at the Weather Bureau's airport stations, where they are made available in various ways. In almost all cases the reports are posted on a bulletin board. If conditions are generally good, the pilots are usually satisfied with a reading of the bulletin; but, if conditions are uncertain in spots, individual copies are sometimes made for the pilots to take along on their flights.

Along with this organization by the Weather Bureau, the Department of Commerce has established a network of radio stations which broadcast the reports for certain airways once each hour. There are now about 40 such broadcasting stations. Some of the air-transport companies have equipped their planes with receiving sets and others are doing so as rapidly as practicable. Thus, in addition to the information given at the airport stations of the bureau, the pilots receive supplementary reports while making their flights.

The broadcasts include not only reports of current conditions but also of expected changes for the next few hours. Short-range forecasts have already proved to be a great aid, and it seems certain that, with the increased accuracy that is bound to come, they will ultimately constitute the most valuable feature of the weather service. There is some question as to most suitable period of time to include in the forecasts. Naturally the shorter the period, the more precise the forecasts; but, on the other hand, their value is limited unless they cover at least a reasonable period. As a basis for compromise, the maximum length of the great majority of flights has been chosen; that is, three to four hours.

As earlier stated, the basic material for all forecasting is the country-wide, twice-daily collection of reports which are used in constructing the well-known weather maps. The forecasts for 12 to 24 hours, based on these reports, are quite dependable, but are necessarily given in general terms. What is needed is their amplification and localization. For this purpose

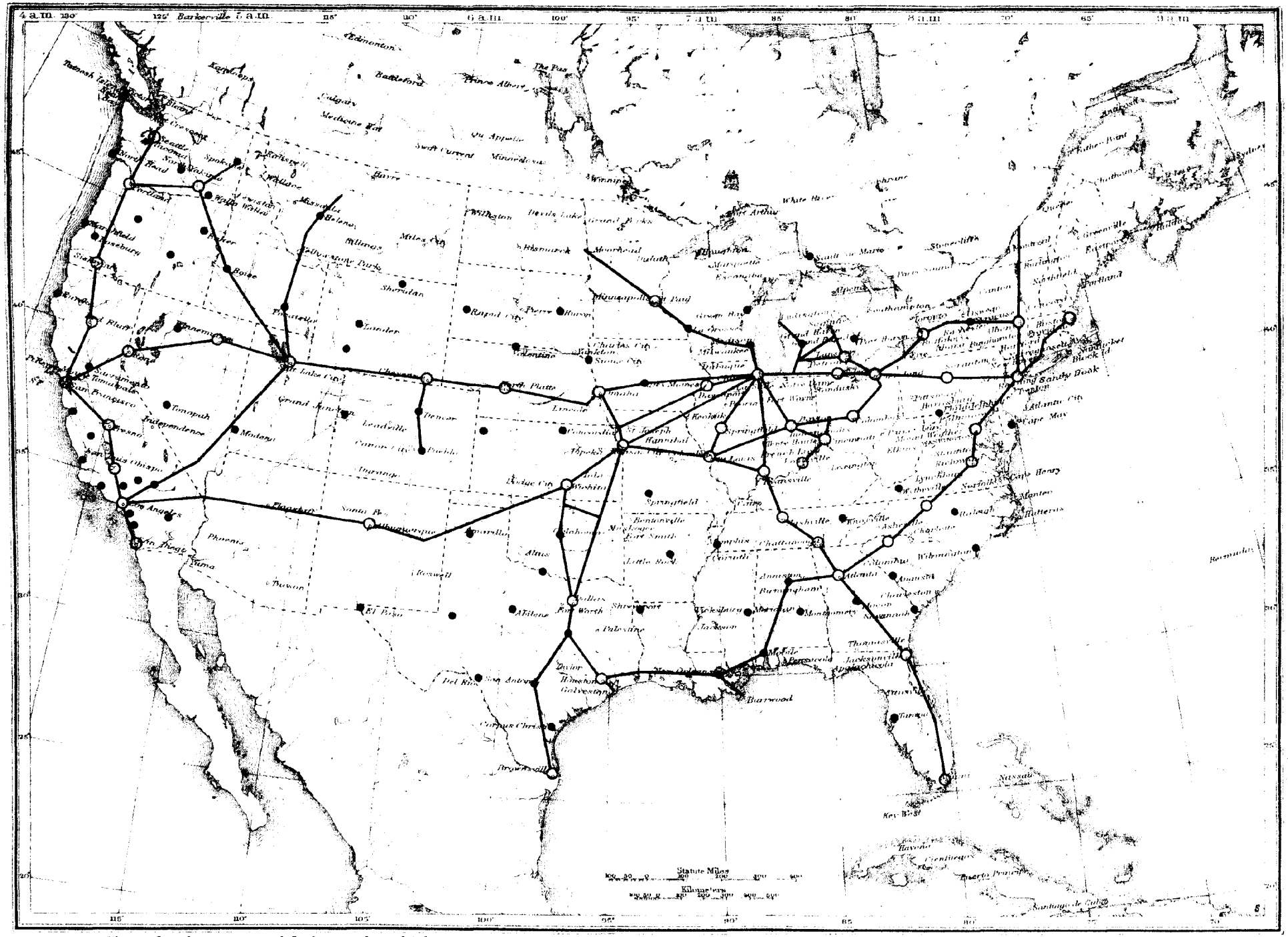

Chart showing commercial airways for which intensive weather service has been organized. Open circles are Weather Bureau airport stations, with continuous 24-hour service. Dots are additional stations off the airways that furnish three-hourly reports to designated centers.

supplementary reports from relatively small areas are required, small at any rate as compared with the country-wide, twice-daily system.

As an experiment the period of three hours has been selected, the observations being made at 2, 5, 8, and 11 a. m. and p. m., seventy-fifth meridian time. About 110 stations are at present in this system. They transmit their reports to airways-forecast centers at Atlanta, Ga., Cleveland, Ohio, Dallas, Tex., Fort Crook (near Omaha), Nebr., Oakland, Calif., Portland, Oreg., and Salt Lake City, Utah. The data are entered in detail on base maps, and lines of equal pressure are drawn. The maps for 8 a. m. and p. m., seventy-fifth meridian time, being based on the bureau's primary system of reports, are of course much more complete than are the six others. The latter are used as auxiliary to the former and serve to show the changes taking place in the areas for which the short-range forecasts are issued.

Although designed primarily for flying activities over established airways, the 3-hour system of reports and forecasts in large part also solves the problem of so-called "off-airways" flights. Before the organization of this system there was no provision for obtaining special reports from places not on regular routes, except by special call and at the expense of the pilots desiring them. Now, however, information is fairly complete for large areas, and any one desiring reports for cross-country flights in those areas has only to listen in at the proper times, since these summaries are regularly broadcast, as well as the hourly reports of conditions along the established airways themselves.

Thus far the need and value of short-range forecasts have been stressed. They are relatively precise and cover approximately the duration of nearly all flights. But they will never do away with the necessity for the longer-period forecasts, to which rather are they supplementary. The 12 to 24 hour forecasts will become increasingly important. While the individual pilot is interested in the weather for a few hours, the operations manager of an air-transport line needs to make his plans as far in advance as possible. Particularly is this true if passenger service is included.

Thus the three main features of weather service for aeronautics are each essential to the proper functioning of the others: (1) The frequent, individual reports tell of the weather now; (2) the short-range forecasts cover the individual flights or announce the weather that is soon to be; and (3) the basic general forecasts indicate the likelihood of successful flying to-morrow. Considered in reverse order, the general forecasts form the ground work of the entire service; they are supplemented by the more intensive shorter-period forecasts; and both of these are still further supplemented by timely reports of current conditions, which check the forecasts previously made and provide data for slight modification in them, if necessary.

Again referring to the plate, the system of airways there shown is only a beginning. Already surveys are being made by the Department of Commerce for many additional lines, and eventually the entire country will be covered. As rapidly as these airways are established the Weather Bureau, to the extent that additional appropriations permit, will organize service for them, along the lines of the present service, with such modifications in details as experience may show to be desirable. Fortunately the cost of these extensions will be considerably less per airway mile than that of the service thus far organized, since much of the latter will give information that will meet in part the needs of the new lines.

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PART II

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES DURING THE YEAR 1929, WITH CHARTS

LIST OF OBSERVING STATIONS AND CHANGES THEREIN DURING 1929

SUNSHINE, 1929

DETAILS OF EXCESSIVE PRECIPITATION, 1929

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REVIEW OF THE WEATHER CONDITIONS DURING THE YEAR, 1929

The year presented no single weather feature more conspicuous than the abnormal distribution of the precipitation. Of this, the particular phase that was most disastrous was the excess of rain in the southeastern portion of the country. In Alabama the average annual quantity was almost 150 per cent of the normal, the greatest excess occurring in March, though November and the other fall months, also February and May, brought considerably more than normal. The principal floods in eastern Alabama and western Georgia occurred in March, and those in Alabama were the most disastrous the State has ever experienced.

No other State of the Southeast showed so great an excess as Alabama, but nearly all had considerably more than normal. In the Carolinas and eastern Georgia the period of heaviest rains came later in the year, and the most serious floods occurred in September and the first week of October.

The rainfall was comparatively large for some distance to north and to west of the States just named, so that the middle and lower portions of the Mississippi River, and the lower portions of many of its chief tributaries reached rather high stages, the spring flood from Cairo to the Gulf of Mexico being among the most serious known there, though considerably less serious than the 1927 flood.

In the far Northwest the shortage of precipitation was notable, and this was mainly a matter of the second half year, although the first few months also had failed to bring as much precipitation as was looked for. This scarcity of moisture was partially relieved before the middle of December.

California, and the southern half of the Plateau region, especially the former, had less precipitation than normal, also most portions of North Dakota, Minnesota, and Wisconsin. Indeed, the months of July and August were comparatively dry in almost all northern sections, yet this dryness from the western Lake region to the Atlantic coast was not accompanied by prolonged hot weather.

The dryness was not so extensive or severe as to result in a marked drought disaster over any considerable area, although the yields of certain crops were considerably reduced.

Scarcity of snowfall in the mountain regions of the farthest west States was noteworthy, and, on the other hand, unusually heavy snowfall early in the year in the upper Mississippi Valley was a conspicuous feature. During the latter part of December, there came one of the most extensive snowfalls ever known in the districts from central Texas to Tennessee and northwestern Georgia.

The temperature was generally below normal during January, February, and November, though in each of these months the easternmost States escaped the deficiencies. Owing chiefly to the cold weather of the three months named, the whole year averaged colder than normal over the country, save east of the Appalachian Mountains, near the Gulf of Mexico, and in the far Southwest. Scarcely any area averaged as much as 2° below normal, however.

The months of considerable temperature deficiencies were outside the crop-growing season, and the temperature chart relating to that season (Chart 1 of this report) indicates that nearly all of the country averaged moderately warmer than normal. The crop season temperature excess was more than 1° in most of Texas, also generally in the Middle Atlantic States and southern New England; while it was less than 1° practically everywhere else east of the Rocky Mountains, in the more northern districts to westward, and in California.

Two storms originating to the southeastward of this country reached its shores with considerable energy within small areas; yet neither was so intense as some of the hurricanes of other recent years, although the damage altogether was moderately large. The tornadoes of 1929 were less numerous and less destructive of property than those of 1928 had been, although they resulted in more considerable loss of life.

JANUARY

The first month of 1929 was considerably colder than usual over the greater part of the country, but most of the Atlantic States and the Gulf region averaged milder than usual.

The first fortnight included a number of sudden temperature changes, but was mainly cold, especially in the north-central portion of the country. From the middle of January onward cold weather dominated the north-central and northwestern portions, and after the 20th especially severe cold prevailed in all districts from the north Pacific coast to the Plains.

The month of January, for the country as a whole, was apparently the coldest month since January, 1918. However, in only a few small districts did temperatures fall close to the lowest

marks of previous record. Usually from the Cascade Mountains to the upper Mississippi Valley the month averaged at least 8° colder than normal, and for considerable distances to southward and eastward it was somewhat colder than normal. Near the Mexican border and in the Gulf and Atlantic States the month was usually somewhat warmer than normal, especially in Florida and the States adjoining.

The precipitation of January was fairly well distributed in point of time, though largely from the central Plains to the upper Mississippi Valley the first decade brought greater amounts than the later ones, while the Ohio Valley had large quantities between the 17th and the 25th. The monthly amounts were rather large, compared with normal, near the middle Gulf coast, and in the Lake region, but they were small in the Pacific States, along the Mexican border, and from eastern Arkansas and northern Mississippi northeastward to the middle Atlantic and New England coasts. The Florida peninsula likewise had a deficiency.

Over most of the northern half of the country there was more than normal snowfall, and the amounts were almost or quite the greatest ever recorded in much of Wisconsin and Iowa.

FEBRUARY

The intense cold prevailing from the Cascades eastward and southeastward to the Plains late in January continued until about the 18th of February, the period from the 6th to the 14th being especially severe. Nearly all other portions of the country west of the Appalachians were somewhat colder than normal at this time. The final 10 days of February brought many northern and far-western districts great relief from the cold weather long prevalent there.

February averaged warmer than normal in Florida and southern Georgia, also from Chesapeake Bay northeastward. Otherwise it was colder than normal, notably in a belt from Idaho to Arkansas, northeastern Texas and southern Missouri, where the month averaged fully 8° colder than normal. To northeastward of the belt the departures were less, and especially to westward toward the Pacific coast and to southwestward toward the Mexican border.

The precipitation of February showed two notable departures from normal. The Pacific States once more received much less than usually comes to them, Oregon averaging but about one-fourth of the normal. On the other hand, from Louisiana to the Carolinas and southeastern Virginia there was far more than normal. As in January, precipitation was somewhat scanty in the Florida peninsula and near the Mexican border, while February amounts were slightly less than normal near the northern border, in the Plateau States, and in the Ohio and middle Mississippi Valleys and the Lake region. The periods of especially heavy rains in the Southeast were just after the middle of the month and during the last three days.

The snowfall of February was scanty in the Pacific States and the southern portions of the Plateau and Rocky Mountain regions, but in middle and northern districts to eastward of the Plateau it was usually close to or above normal.

MARCH

There was much difference between March and the two months preceding it. For the most part March was warm, and the precipitation was above normal in about half the States, but was unevenly distributed.

Several portions of the country experienced brief cold spells before the 10th, though this period was mainly mild. In the eastern half of the country as well as in the Dakotas and Montana the last three weeks of March brought comparatively steady warmth, but the 24th and 25th were particularly warm for March in the Ohio Valley and near-by districts. These three weeks were mostly cooler than normal in the Southwest and the far West, except there was a warm spell in the near Southwest about the 20th to the 25th.

The month averaged warmer than normal in most of the country, especially in northern portions from Montana to New England. The region from the middle and southern Rocky Mountains westward averaged generally a little cooler than normal.

During the first five days most Atlantic and east Gulf districts had considerable precipitation, decidedly heavy rains falling in parts of Alabama, Georgia, and the Carolinas. After an interval without important amounts, rains set in about the 11th over Texas and adjacent areas and soon extended eastward till nearly all middle and southern districts of the eastern half of the country were affected. Alabama and the western half of Georgia experienced prolonged downpours, and the floods resulting were severe and in many rivers unprecedented.

The final two weeks of March brought much better distributed precipitation than the earlier portion, although some southeastern areas again suffered from too much, especially the eastern parts of Tennessee and Kentucky, where severe floods occurred in several small valleys.

March as a whole was one of the wettest months ever known from Mississippi to South Carolina, but in the Florida Peninsula and along the immediate south Atlantic coast there was

less than normal rainfall. In Kentucky and Virginia and to northward and northeastward there was usually about normal precipitation, likewise from the middle and upper Mississippi Valley westward to the Rocky Mountains, save that a considerable area in the middle Plains had much less than normal. The far West, for the most part, was comparatively dry, but the near Southwest, though showing decided variation, had usually more than normal.

Snowfall was widely distributed, but the amounts were generally less than normal, save in the Rocky Mountain region.

APRIL

April resembled March in its dominant temperature features. The eastern two-thirds of the country averaged generally warmer than normal, and was unseasonably warm in most portions during the first 10 days, when abnormally cold weather was prevalent in the far West. A fortnight followed during which the cotton region was about the only portion of the country that was usually warmer than normal, though the period from the 15th to the 19th was warm in much of the West also. The final week of April was mainly about normally warm in the eastern half, but cool in the western.

West of the Rocky Mountain Divide and in northern districts to eastward about as far as the Missouri River, the month averaged colder than normal. With few exceptions the rest of the country averaged warmer than normal, notably districts along or near the coast from New Jersey to the Rio Grande.

The precipitation of April was comparatively well distributed over the country, no State save Connecticut averaging over 7 inches; and it was rather well distributed through the month, but the period from the 10th to the 15th probably brought more than any other period of equal length.

As a rule the northern and middle portions of the country received greater than normal amounts of precipitation. The basin of Lake Superior seems to have had less than normal, but most of the rest of the Lake region with southern New England and practically all the Middle Atlantic States, had considerably more than normal, also northern and western Missouri with districts adjacent. The southern third of the country generally had less rain than normal, though Florida, Alabama, and Georgia had more.

An unusually heavy snowfall occurred in southeastern Wyoming and nearby districts about the 24th.

MAY

The prevailing weather features were unlike those of April, the far West being warm, while the remainder of the country was cool, and the southern third of the country from New Mexico eastward having mostly ample rainfall, and some districts decidedly excessive amounts.

The opening week was mainly cool, save near the southern and eastern edges of the country. The remainder of the month was mainly warm in the far West, especially the far Southwest, but cool weather prevailed in most other portions, at least as far east as the Appalachian Mountains, until about the 20th, when warmth set in over the north-central portions, and by the 27th had spread eastward to the Atlantic coast.

In nearly all the country the month averaged cooler than normal, portions of the Missouri and Mississippi Valleys averaging about 3° or 4° cooler. The far Southwest, on the other hand, experienced the first month warmer than normal since early in the preceding autumn.

There was heavy rainfall during the first and middle decades over much of Missouri, eastern Kansas and western Arkansas, and a large part of Texas had excessive amounts between the 8th and 18th, and especially during the final week. Other eastern, central, and southern districts usually had better distribution and more moderate amounts.

With the exception of the upper Mississippi Valley and the northern Plains almost all districts east of the Rocky Mountain States received more rain than normal, and central and eastern Texas received about two and one-half times the normal. New Mexico had considerably more than normal, but most other far western States had less.

JUNE

In the larger temperature features, June showed much resemblance to May, but the precipitation had a very different distribution. Much of the far West and of the Southeast had more rain than normal. The eastern and north-central portions of the country were mainly cool.

The temperature inclined to be low during the first decade, save in the South. Comparatively cool weather continued in the far Northwest till the final week began, but meantime many central and eastern districts were experiencing weather warmer than normal; however, the final few days were mainly cooler than normal in the eastern half of the country.

The month averaged slightly hotter than normal in Texas and to westward and northwestward over most of the southern and part of the middle Plateau, likewise in most of the Northeast. Otherwise the month averaged cooler than normal and from Georgia and the Carolinas northwestward to Michigan and Wisconsin it averaged largely 2° to 3° cooler than normal.

The eastern third of the country had rather good time distribution of its rainfall, though the final decade generally brought most. The Pacific States from central California northward had considerable rain for June during the first two decades.

While most northeastern districts received less rain than normal during June, yet the greater part of the Southeast and a portion of the Ohio Valley had more than normal, and the same was true of much of Missouri and eastern Kansas, also most of the Pacific States and the northern Plateau. In the lower Mississippi Valley and to westward over nearly all the Southwest there was a deficiency, also in the western Plains as far northward as western Nebraska, in most of Minnesota and the Dakotas, and in practically all the Rocky Mountain region.

JULY

The month was mainly warmer than normal, save in eastern and south-central districts, yet was not remarkable for its temperature features. In the majority of the northern and central districts the hottest weather came during the final week.

The rainfall was irregular in the time distribution, also over the country; but mainly was less than normal. New England, particularly the southern portion, and the eastern Middle Atlantic States had considerably less than normal. Much of Kentucky, of Michigan, and of Minnesota and the Dakotas had marked shortages, likewise Arkansas, most of Mississippi, southern Missouri, and eastern Texas. In most of the far West there was not so much as normal, but New Mexico and eastern Arizona had comparatively liberal rainfall. For the most part the coast districts from the Rio Grande to Hatteras had somewhat more rain than normal, also much of Tennessee and the southern and middle Appalachians. Other sections where more than normal rainfall was the rule were the vicinity of Lake Erie, northern Illinois, and southern Iowa.

AUGUST

During August there was marked heat in the far Northwest about the 9th to 15th, and again during the last days of the month; and the August temperature averaged considerably above normal in that section and somewhat warmer than normal almost everywhere west of the Mississippi River. A moderate cool spell was noted in most north-central and eastern districts about the 14th to 21st. As a whole, the month averaged about 2° cooler than normal from Michigan and the upper Ohio Valley eastward.

In rainfall, as in temperature, August showed considerable similarity to July. For the northern sections and the interior south-central there was considerably less rainfall than normal. The southern Middle Atlantic States, the southern Appalachians, and most of the Ohio Valley had considerable deficiencies. The second half of August had usually considerably less rain than the first half.

Several portions of the South Atlantic States had somewhat more rain than normal, also parts of eastern Wyoming and eastern Colorado, and indeed the greater part of the Southwest had at least a little more than the normal rainfall for the month. However, most of central and eastern Texas and of western Arkansas had but a small fraction of the usual August quantities.

SEPTEMBER

September was mainly a cool month for the northern two-thirds of the country from the meridian of eastern Michigan and western Ohio westward. The rainfall was more abundant than in any of the summer months, but it was poorly distributed.

The first decade was hot, for the most part, in the Northeast, and the first days of it in the north-central portion also. Numerous towns recorded their highest marks in 1929 at this time. Cool weather was the rule after the 10th to eastward of the Rocky Mountains, save that the final week was warm in the eastern and south-central portions.

The month averaged cooler than normal in nearly all the western and central thirds of the country, and a large portion of the Southeast. In much of Montana, the Dakotas, Nebraska, and eastern Wyoming the month averaged 4° to 6° cooler than normal. Near the Mexican border and in the Northeast the month averaged hotter than normal.

The first decade brought important rains to large portions of the Plains and of the Ohio and upper Mississippi Valleys, and by the middle of the month most of the Appalachian region and the Northeast had received moderate or liberal amounts. The most notable rainfall during the second half was in the Southeast during the final week, when considerable areas had excessive falls.

Though poorly distributed, the September precipitation gave marked relief from the droughty conditions developed during the months preceding. Slightly more than normal fell in Wyoming, Colorado, western Kansas, and in a broad belt extending thence northeastward to Minnesota and North Dakota, also from Pennsylvania and the Ohio Valley southward.

There was generally little rain in southern New England, from lower Michigan and the northern parts of Indiana and Illinois to eastern Kansas, and in the Pacific Northwest.

As the month ended an important West Indian hurricane, having skirted the coast of the peninsula of Florida, was moving inland over the western portion of that State.

OCTOBER

The month differed greatly from September, for it averaged warmer than normal almost everywhere west of the Mississippi River and had more precipitation than normal from the Rocky Mountains to the Atlantic seaboard.

In the eastern third the temperature was mostly below normal till about the 15th, but afterwards frequently above. The central third of the country was seldom much cooler than normal, save the southern portion near the end of the month; and was decidedly warm about the 13th to 19th. The western third was mainly warmer than normal till the last decade.

Temperature departures for the whole month were not very great. The upper Ohio Valley and the southern Appalachians were the only sections to average more than 2° colder than normal. On the other hand, most of the Plateau States and the interior portions of the Pacific States, also the northern Mountain and Plains States, averaged 2° to 4° warmer than normal.

Much rain fell on the opening days of October from central Georgia to central New York. Then, about the 10th, widespread rains reached most of the Plains region and the Mississippi Valley and the western part of the Lake region. The second half of the month brought better distributed precipitation, few States east of the Plateau region failing to receive a seasonable supply.

The far Northwest continued abnormally dry as the month ended, while portions of the Southeast received very heavy rains early in the month, largely on saturated soil, so that severe floods resulted.

There were important snowfalls during the final decade over most of the north-central portion and much of the Rocky Mountain region.

NOVEMBER

The month was cold nearly everywhere save in several Atlantic and Pacific coast districts and the precipitation was very abnormally distributed geographically.

Aside from unusually high readings over much of the East during the first few days, the opening and middle decades of November were without marked temperature features, the eastern half being mainly warmer than normal, but the western half, save California, colder. The closing decade was mainly cold, very unseasonably so from the southern and middle Rocky Mountain region eastward to the Appalachian crest, but warmth prevailed in California, and by the closing days milder than normal weather had spread over most of the Plateau and Pacific districts.

While the month averaged warmer than normal from the Appalachian divide to the Atlantic, in parts of Montana and North Dakota, and in California and a few other sections of the far West, yet it averaged 4° to 8° below normal from the Mississippi River westward to the middle and southern Plateau, being in many States the coldest November of record. Lower marks than any ever before reached in November were noted at many places in the Ohio Valley and the Southeast during the last two days.

There was heavy precipitation over much of the region from the southern Plains and central Texas eastward to the southern Appalachians, particularly in Alabama, Mississippi, and southern Louisiana, the period from the 10th to the 16th bringing the greatest quantities. There was usually about normal precipitation over the Ohio Valley and the Lower Lake region and the districts to eastward of these. The middle portions of the Rocky Mountains and the Plains States had about normal amounts. A large deficiency was noted in the Pacific Northwest, and for all the Pacific States and Idaho and Nevada it was the driest November of record.

There was a seasonable quantity of snow over the Rocky Mountains and most northern districts to eastward, and considerable amounts for November fell in many districts from Kansas and northwestern Texas eastward to the southern Appalachians.

DECEMBER

The last month of 1929 was marked by contrasted periods of mildness and severe cold, by irregular distribution of precipitation, and by an unusual amount of cloudiness and fog.

The first decade was mainly cold in the eastern half and in the northernmost portions of the western half. The week from the 10th to 17th was largely mild, especially in the far West. Next came a week decidedly cold in most States save the far West, but the final week was mild nearly everywhere.

The month averaged warmer than normal over most of the country, but somewhat colder in the northernmost districts from Montana eastward and in the greater part of the Gulf region. The warmth was especially notable in the Plateau States and the interior portions of the Pacific States, which averaged from 5° to 9° above normal.

In several parts of the country there was moderate precipitation during the first decade, the Pacific States from central California northward being one of these parts. Here liberal amounts continued to fall practically through the middle decade till the unusual dryness had been well relieved. In Oregon and Washington there had been five successive dry months, making considerably the driest summer and fall within the period of records.

The second and third decades brought some precipitation near and to eastward of the Continental Divide, though the final week of the month brought little. The south-central, northeastern and southeastern portions mainly received more than other districts east of the Cascades.

For December, as a whole, the precipitation was usually more than normal in northernmost districts from the Pacific to Lake Superior, also in a strip from the Ozark region northeastward to the lower lakes and New England, likewise near the south Atlantic coast. There was a comparatively large deficiency in the middle Gulf and southern Appalachian regions, which was fortunate in view of the heavy falls here during the preceding month. The Southwest mainly had less than normal, and from the upper Rio Grande to the south Pacific coast this shortage accentuated the already marked dryness and was unfortunate.

December's snowfall was large over the Ohio Valley and adjacent areas, chiefly because of a severe storm about the 19th. The interior portions of most Gulf States had snowfall of remarkable amount, which fell about the 21st. On the other hand, the far Southwest had very little snow at its higher elevations.

TORNADOES, 1929

The tornadoes of 1929 are individually described in the paragraphs following, in which the forty-odd sections of the Climatological Service, almost always equivalent to States, are taken alphabetically, then the tornadoes which occurred within their limits in chronological sequence. The Monthly Weather Review and the monthly section reports entitled "Climatological Data" printed accounts of important ones, and almost all were mentioned in the Review's table, "Severe local storms," which lists many kinds of storms besides tornadoes; however, in a few cases the information came too late for such mention, while in other cases though the storm was listed, additional information has led to a change in the classification which the table indicated.

During 1929 there were more tornadoes than in any other recent year save 1928, 197 being noted, as contrasted with 203 in 1928, 164 in 1927, and 111 in 1926.

The month of April included more than one-third of the year's tornadoes—namely, 67—while May brought 48. From May 3 to the end of the year the total number of tornadoes reported was 84, but only three of these caused any loss of life.

November was the month of 1929 during which no storm considered a tornado came to notice. There had been, before this, 20 months in succession each with at least one tornado. June, 1928, and April, 1929, had each brought more than 60 tornadoes.

The count by months of 1929 indicates these numbers of tornadoes reported: January, 6; February, 5; March, 20; April, 67; May, 48; June, 20; July, 11; August, 4; September, 10; October, 2; December, 4.

On April 10, no less than 10 tornadoes occurred, and on April 20 again 10, all these striking west of the Mississippi River. On May 2, there were 9 tornadoes, everyone east of that river.

The tornadoes of April 10 occurred in Arkansas, except one each in Kansas and Texas. The loss of life from that one day's tornadoes was 56, entirely in Arkansas, and the property damage was almost $800,000.

On April 25 there were 7 tornadoes in States east of the Mississippi River, involving 59 fatalities, 40 of these resulting from a tornado in east-central Georgia. The aggregate of property losses that day was almost $1,300,000.

The April 25 tornado which cost 40 lives was the most disastrous tornado in that respect recorded since the St. Louis, Mo., storm of September 29, 1927. However, one of the Arkansas tornadoes of April 10 had resulted in 31 deaths.

The aggregate loss of life from the 1929 tornadoes was 274, almost three times the number noted in 1928, which was 92. It has been stated that during November no tornado was reported, and the tornadoes of July, August, September and December involved not a single loss of life. In the other seven months deaths came to notice as follows: January, 12; February, 25; March, 21; April, 170; May, 42; June, 3; October, 1.

In Arkansas, 79 lives were lost by tornadoes during 1929, and in Georgia, 55. Two Atlantic Coast States north of Georgia had many tornado deaths, South Carolina, 17, and Virginia, 22. Among Gulf Coast States, Mississippi reported 29 tornado deaths, and Texas, 17; but of the Interior States north of Arkansas, none reported a greater number than Wisconsin, 12.

Altogether tornado deaths occurred in 23 States, and resulted from 45 out of the 197 tornadoes of the year. In 9 States tornadoes occurred, but without any fatalities, these being Maine, New Hampshire, Vermont, Pennsylvania, Michigan, Nebraska, the two Dakotas, and New Mexico.

There remain 16 States in which no 1929 tornado came to notice. These 16 include 10 of the 11 most Western States, the exception being New Mexico, in which three unimportant tornadoes were seen. The others of the 16 are one Interior State, West Virginia, and five Atlantic Coast States, namely: Delaware, New York, Connecticut, Rhode Island, and Massachusetts.

In Iowa there were reported 28 tornadoes; in Texas, 25; in Arkansas, 21; and in Kansas, 20. No other State counted more than 11.

Experience has shown that neither the distribution by months nor the distribution by States of the tornadoes of a single year may safely be taken as approximating the average situation for tornadoes over many years, as there is marked variation in these matters.

The property losses that were reported from the tornadoes (losses to crops by either partial or complete destruction being included) are stated in the description of the individual tornadoes, as far as feasible. It is to be recognized that these are, in the aggregate as well as for very many single storms, probably much less than the actual losses. It is seldom practicable to secure estimates for every part of a tornado track of considerable length, and frequently the information furnished does not justify the estimating for even part of the track.

The sum of the amounts reported or carefully estimated is found to be $10,049,400. This is about 75 per cent of the corresponding amount for the 1928 tornadoes, and is very much less than the losses of 1927, 1925, and 1924. However, the 1929 losses were more than twice as great as those that occurred in 1926.

The greatest amount of damage reported from one State was $1,460,000, from Minnesota. Three other States reported totals exceeding a million dollars, namely, Wisconsin, $1,247,000; Arkansas, $1,224,800; Georgia, $1,196,000. The greatest amount for a single tornado was reported in the case of the Minnesota-Wisconsin tornado of April 5, slightly more than one million dollars.

Chart 5, as in preceding years, shows the tracks of those storms counted as tornadoes, the direction of advance being indicated by the arrowhead. When the reports secured did not indicate the direction, that which seemed most probable at the place and time has been marked. In every case the arrow is necessarily far broader than the actual width of the path of damage, drawn to scale; also in most cases it has been made too long for the true length of path, in order that it may be distinguishable.

Alabama.—Three storms considered tornadoes were noted in the northeastern portion of the State on March 22. The earliest was decidedly the least important, and while there was whirling motion and a roaring noise yet the storm showed much less energy than the average tornado. It occurred at Childersburg, Talladega County, about 7 a. m., moving eastward one-fourth of a mile, with path 50 feet wide, causing damage of $1,000. Fully 50 miles to northeastward, at Jacksonville and Merrellton, Calhoun County, what was almost surely a distinct tornado arrived about 11 a. m., traveling northeastward, the track being about 8 miles long and 100 yards wide. Five deaths resulted and the property loss was estimated as $50,000. Nearly 50 miles west of Merrellton, at 4:45 p. m., the third tornado struck east of Remlap, Blount County. This storm advanced toward the northeast, and its path was reported as about half a mile wide and 5 miles long; and while there was damage amounting to $10,000, yet no person was reported as even hurt.

The waterspout over Mobile Bay, July 27, apparently broke up on reaching the shore line, so no tornado is counted.

Alaska.—No tornado reported.

Arizona.—No tornado reported.

Arkansas.—On the afternoon of February 25, a tornado struck in southeastern Arkansas. This occurred about 300 miles east-northeast of the places in northeastern Texas visited by tornadoes, which had come about or before the hour of sunrise that day, but much closer to the tornado in northwestern Mississippi. The Arkansas storm seems to have been distinct from

these, occurring at De Witt, Arkansas County, about 4 p. m., killing two persons and causing property loss of $1,000; it advanced a mile or two northeastward, the path being 60 yards wide.

On March 31, about or after 8 p. m., a tornado was noted in southeastern Missouri, very near to Randolph County, Ark., heading in a northeast direction. From the information now secured, it is thought the track was wholly in Missouri.

In the northeastern quarter of the State 15 places report tornado visits, a few reporting two visits, during the later afternoon and the evening of April 10. There were probably eight distinct tornadoes. The earliest occurred near Calico Rock, Izard County, about 3 p. m.; it moved northeastward, though only a short distance, sweeping a strip 220 yards wide; the property loss was small, and no person was even hurt. An hour later two tornadoes seem to have formed fully 30 miles southeast of Calico Rock, near Almond, Cleburne County, and traveled away toward the east-northeast; the more southerly ended near Moorefield, Independence County, after about 14 miles, the track being 170 yards wide, the damage $20,000, and several people being injured. The northerly tornado is judged to have advanced farther, crossing Jackson and Lawrence Counties to near Lorado, Greene County, 65 miles from Almond, the time at Lorado being 7:45 p. m., three and three-quarters hours after it left Almond. The path was 200 yards wide in eastern Independence County, but broadened finally to two-thirds of a mile. The property losses aggregated $308,000, and the deaths were 31, a large number occurring near the Jackson-Lawrence County boundary. Only one tornado during 1929, which occurred in Georgia about a fortnight later than this Arkansas storm, caused more than 31 deaths. Besides the reported widths of path, the times noted at different points agree none too well; it may be that there were two tornadoes on this Almond-Lorado path just outlined, the eastern one causing all the deaths and most of the damage. Only one tornado is counted, however.

Mount Pleasant, which is in the southeastern part of Izard County, was visited at 4:30 p. m. that day by a northeastward-moving tornado of short path, which caused but little damage. Slightly before 5 p. m., Herpel, Stone County, about midway between Calico Rock and Almond, was struck by a tornado just starting, which advanced 18 miles slightly north of east, obliterating Guion and ending at Mount Pleasant, causing 7 deaths and losses adding $216,000. The width of track was 400 yards at Guion, but less at Mount Pleasant, and the speed of advance was high.

Northeastward advance was reported for the tornado visits at Diaz, Jackson County, 20 miles southeast of Moorefield, and Monette, Craighead County, 55 miles east-northeast of Diaz. The times were 6:20 p. m. at Diaz and 8 p. m. at Monette, and in each case the path was reported as 2 miles long; so it would be admissible to reckon the two visits the work of one tornado, moving above the ground over the intervening miles. However, it seems better to count these as visits of two distinct tornadoes. No lives were lost at either place; the damage was $11,000 at Diaz, where the path was 300 yards wide, and $40,000 at Monette, where the width was 220 yards.

The last Arkansas tornado of April 10 started about 8 p. m., a few miles southwest of Wynne, Cross County, and traveled about 16 miles, in direction slightly north of due east, through Princedale to Parkin, both in Cross County. The track was 100 yards wide, the damage was $200,000, and 18 deaths resulted. Altogether, 56 deaths and damage of $795,000 were reported from the Arkansas tornadoes of the day.

From Subiaco, Logan County, in the west-central part of the State, comes a report of a small and brief storm during the afternoon of April 14; this was probably a tornado of short and narrow path, the advance being toward the northeast, while the damage was unimportant.

Much more scattered than the places struck on the 10th were the four places which were visited on April 20, when no tornado in Arkansas was especially important. The earliest visit was at Buckner, Lafayette County, in the southwestern part of the State, timed as 3:30 p. m.; this storm moved northeastward, and caused losses of $1,000, the track being about 3 miles long and 50 yards wide. Visits at London, Pope County, 6:30 p. m., and in Van Buren, a county adjoining Pope, at Clinton, 7:25 p. m., are thought both the work of a second tornado, for each reported the advance as northeastward. Clinton is 48 miles northeast of London, and probably the tornado caused little or no damage between the places. Damage of $20,000, no fatalities, and width swept 100 to 200 yards are other items for this tornado. The other place reporting a tornado on the 20th was Oil City, a suburb of Batesville, Independence County, over 40 miles east by north of Clinton. The hour at Oil City was 8:45 p. m., the tornado moved a short distance southeastward, with track 75 yards wide, causing property losses of $13,000, and injuring a few persons. This storm probably was a third tornado, distinct from the Clinton storm. London and Clinton are northwest of the center of Arkansas, but Batesville northeast.

The following day, April 21, about mid-afternoon, tornadoes that caused considerable loss of life occurred in southeastern Arkansas and nearby portions of Lousiana and Mississippi. Tillar, in Drew County, Ark., reported the time as 2:45 p. m., the path as narrow but 5 miles long, and

the motion as eastward. Twelve deaths, but damage of only $1,000, were reported. It is believed this was the same tornado which struck later in Mississippi, slightly south of due east of Tillar; in this case it is to be counted as covering 15 miles in Arkansas, chiefly above the surface.

On May 1 four places report tornado visits, and probably four distinct storms were concerned. In northwestern Arkansas, Jethro, Franklin County, was hit at 2:25 p. m., movement being eastward, and the path 12 miles long and 2,000 feet wide, the losses being $50,000, though no person was even hurt. Fully 30 miles southwest of Jethro, a tornado from Oklahoma was seen about 2:30 to 2:37 p. m. to pass through the southern part of Fort Smith, Sebastian County, and to continue northeastward till, after 8 miles of advance in Arkansas, it ended in Crawford County. For the Arkansas portion, width of track 500 feet, damage of $50,000, and injuries to 12 were reported; altogether this storm advanced 24 miles, and caused damage of $54,000, without any fatality.

An eastward-moving tornado, which is considered distinct from the Jethro and the Fort Smith storms, practically wiped out the small village of Rex, Van Buren County, 65 miles east of Jethro, at 3:30 p. m., May 1. Its path was, in all, 5 miles long and 1,300 feet wide, and six persons were injured, while the property loss was $40,000. Considerably later that day, at 6:45 p. m., Wheatley, St. Francis County, in the east-central part of the State, 105 miles southeast of Rex, was struck by the other tornado of May 1, which traveled northeastward, probably but a short distance, sweeping a strip 200 yards wide. Damage of $250,000, nine deaths, and many injuries were the results.

There was a storm of no great importance, but probably a tornado, at Stuttgart, Arkansas County, in the southeastern part of the State, on September 12, apparently about 9 or 10 p. m. The damage was estimated as $1,800, and a few persons were hurt. This storm took an easterly course, and the track is reported as 400 yards wide and 15 miles long.

On December 17, about the middle of the afternoon, two small whirling storms, of little importance yet considered tornadoes, occurred in the western portion. At Fort Smith the time was 2:45, the advance was eastward, the track being narrow and only a quarter-mile long, and the damage was about $2,000: at Grannis, Polk County, 80 miles south of Fort Smith, the time was 3:30; the storm moved northeastward, its path being short and very narrow, and the propperty loss was insignificant. More serious tornadoes occurred during the following night in Louisiana and Mississippi.

The Arkansas tornadoes of 1929 are counted as 21, only the States of Iowa and Texas reporting more this year. The loss of life from the Arkansas tornadoes of the year was 79, a number which no State surpassed, and the property losses were computed as $1,224,800.

California.—In Fresno County, a few miles southeast of the city of that name, there was apparently a tornado cloud in the air, between Del Ray and Fowler, about 3:30 p. m., March 22. As it seems never to have touched the ground, no tornado is counted.

Colorado.—On August 10, about 3:20 p. m., what was judged to be a tornado cloud was noted some distance away, in a southerly direction, by persons at Cheyenne, Wyo. It was thought to be over Colorado ground, but as no other information was secured and it was not sure that the cloud reached the ground no tornado is counted.

Florida.—A waterspout on Hillsborough Bay, near Tampa, April 2, and another near Apalachicola, April 15, are thought not to have reached shore and are not counted among tornadoes. However, on land, to west-northwest of Apalachicola a short distance, a tract with small pine trees was swept through a narrow strip by a severe wind, about 3 p. m., April 15. While the evidence was puzzling, it is thought this was not a tornado.

On May 2, in Duval County, there was a violent storm, and though no person was found who saw a funnel-shaped cloud, it is thought the storm was a tornado. This started 8 miles southwest of the heart of Jacksonville, at 4:20 p. m., and traveled northeastward 2 miles, the width affected being largely about 400 yards. The damage was $25,000 and one man was killed. Tennessee, Virginia, and Maryland experienced tornadoes the same day, some slightly earlier, some later.

A waterspout near Pensacola, June 14, did not come to the shore and is not counted among tornadoes.

While the September hurricane was near the southern tip of Florida, tornadoes occurred northeast of the hurricane's center, five being definitely indicated by reports. On the whole, these were less serious than the tornadoes which had occurred in the Carolinas 13 months earlier, in connection with the passage of the two hurricanes of that month (August, 1928). On September 28, about 4:40 p. m., Fort Lauderdale, Broward County, was traversed by the tornado best reported; the hurricane center was approximately 100 miles to southwestward at the time. The tornado traveled northwestward, occasionally lifting for a space, but generally sweeping a path three-fourths of a mile long and from 50 to 100 yards wide, the damage being $100,000. At Miami,

26 miles to southward of Fort Lauderdale, two tornadoes pursued parallel paths northwestward about 3 miles apart, at about 5:30 p. m. The track in the extreme western part of the city was 8 miles long, the one in the southern part but a mile and a half, and the width of each was about 50 yards. (In Chart 5 one arrow represents these two Miami tornadoes.) The ground was reached only at intervals, and the aggregate losses from the two were $20,000. The next night, according to meager information, tornadoes occurred farther north, namely at Boca Raton, 17 miles north of Fort Lauderdale, at a very early hour of September 29, and at Stuart, 55 miles farther north yet, very late on the 28th. Both these places are in Palm Beach County. It is thought these two were of small importance, but they are counted as distinct tornadoes. No loss of life was reported as to any of the five storms.

Georgia.—On March 23, the day after tornadoes had occurred in northeastern Alabama, there were tornadoes in Georgia, what seem to have been four distinct storms being so classified. It is thought the two tornadoes farthest west came earliest, but no information has come of the hour in either case. The havoc reported in northwestern Georgia, in Gordon and Murray Counties, from Oostanoula, Calhoun, Nicholsville, and Chatsworth, is deemed to have resulted from one storm, passing through or near the places named in that order, which means an advance northeastward of 25 miles. Damage of $7,000 is reported, and at Oostanoula several persons were injured. Approximately 215 miles south of Oostanoula, in southwestern Georgia, a neighborhood 2 miles north of Blakely, Early County, was visited by a small tornado, of whose track no items were learned; the loss in this place was $5,000. About 55 miles to northeastward of Blakely, Plains, in Sumter County, was visited at a time reported merely as "a. m.," and again information as to the path is lacking. Though the damage was estimated as merely $2,000, yet two deaths resulted from this tornado. The storm at Macon that morning, just before 9 a. m., probably was not a tornado. However, a short distance from Macon and slightly over 100 miles northeast of Plains, a tornado is reported to have come at 9 p. m. to Browns Crossing, at the western edge of Baldwin County, causing damage of $2,000, but statements about the path were not secured.

Columbus, Muscogee County, at the western boundary, somewhat south of the center of the State, apparently was visited by a small tornado on March 28, at 1 a. m. Losses amounting to $15,000 were reported, but no details about the tornado track.

During 1929, after March, there seems to have been tornado activity in Georgia on but one day, April 25, when a moderate-sized area, to eastward and southeastward of the center of the State, was effected. Sparta, Hancock County, was struck about 4 p. m. by a tornado, fortunately small, the losses being but moderate and one person being hurt. Information about the path is lacking. In Bleckley, Dodge, and Laurens Counties, 4:20 to 5 p. m., very serious results were reported, and probably were due to one tornado, advancing very slightly north of due east, about 25 miles, with track 150 to 400 yards wide. Damage of $275,000 and 11 deaths were reported from this tornado. Quite near the path this storm took, about 30 miles east of its end, what is reckoned another tornado struck south of Norristown, Emanuel County, the havoc possibly being partly or wholly in Treutlen County. The exact hour, and the direction and length of advance were not reported, but the path was 200 yards wide. The losses from this tornado were two lives and $40,000. Starting about 25 miles east-southeast of this locality, the most severe tornado of the day moved from Metter, Candler County, toward the east-northeast, passing north of Statesboro to end near Clito, these two places last-named being in Bulloch County. The time at Metter was 8:20 p. m. The track of this storm was 20 miles long and at one point 100 yards wide. Forty deaths and damage of $850,000 are indicated, a greater loss of life than is reported for any other one 1929 tornado. Some accounts suggest that more than one tornado was connected with the results in these two counties, but with only the information secured it is preferred to count but one.

Hawaii.—No tornado reported.

Idaho.—No tornado reported.

Illinois.—Four tornadoes were noted during 1929, the earliest of them covering much the longest path and being the most important. This tornado advanced northeastward, with path not continuous, the width varying from 40 yards to 440 yards, at about 11:30 a. m., January 18. The localities affected were in southern Illinois, from near Texas City, Saline County, to Maunie, White County, but what was probably the same storm struck farther northeastward, in Indiana. From the first havoc in Illinois to the Indiana line was 26 miles, in which there occurred two deaths and damage of $65,000. An earlier tornado struck this day in Missouri, on or near the southwestward extension of the Illinois path; but as a space of 70 miles intervenes from which no tornado havoc was reported, it seems better to reckon the Missouri tornado as distinct.

A very small storm, probably a tornado, cut a narrow path for four blocks eastward, near 85th Street, in the South Shore section of Chicago. The time was 7:45 p. m., April 7. No injuries were reported, and the property losses were but $3,000.

On May 15, about 4:45 p. m., in the north-central portion of Illinois, a storm of no great violence, but probably a tornado, moved northeastward from Tiskilwa to near Hollowayville, both in Bureau County. The track was 15 miles long and 500 feet wide. The damage was $6,000, and two persons were hurt.

A moderate distance to southeastward of the center of the State, near Newton, Jasper County, a small tornado about 6:30 p. m., August 13, swept a path 200 feet wide and a mile long, traveling northeastward. The damage was only $300.

Indiana.—The tornado in southwestern Indiana, on January 18, about 2.30 p. m., by reports secured, though Illinois information hints at an earlier hour, is considered the same storm as the Illinois tornado of that day, though in neither State was tornado havoc reported close to the State boundary. However, in each State the path was considerably broken. The course to northeastward in Indiana traversed Posey, Gibson, and Pike Counties to Petersburg, the width swept being about 100 yards. From the Illinois line to the last damage in Indiana the length traveled was 46 miles, but from first Illinois damage to last Indiana damage, 72 miles. The losses of property were $25,000 in Indiana, or $90,000 in all; and of life one in Indiana, or three in all.

At Churubusco, Whitley County, in the northeastern part of the State, a storm puzzling to classify, but thought a tornado, struck at an unreported hour of April 25. The path was probably neither long nor wide, compared with the average of tornado paths, but statements upon this and about the direction taken are not found. There was damage of $10,000 to the building which suffered most, and other damage occurred, with no estimate secured.

Iowa.—Late on March 24 there were apparently two distinct tornadoes in the east-central part, the time for each being reported as 10 p. m. One of them, near the northwest corner of Cedar County, moved 6 miles northward and caused damage of $2,500, while the other, 20 miles distant toward the east-northeast, near Oxford Junction, Jones County, moved a mile northward, with damage estimated at $800. In neither instance were any injuries reported.

On April 5, when destructive tornadoes visited Minnesota and Wisconsin, two short-path storms, each advancing northeastward, were noted in northern Iowa. In the most northwestern county, Lyon, the earlier of the two covered 3 miles, and caused losses of one life and $20,000 worth of property, the time being 3 p. m. The later tornado, at 6:30 p. m., struck in Hancock County, 120 miles to eastward of the earlier, and moved 2 miles, doing damage to the amount of $15,000 and injuring a few people.

At late hours of the next day, April 6, four distinct tornadoes traveled northeastward in several of the south-central counties. The earliest was noted in Union County, near Thayer, at 7 p. m., and is reported as advancing 2 miles and causing damage of $4,000. In Warren County, not quite 30 miles toward the east-northeast, it might be reckoned that the Union County tornado reappeared, but is preferred to consider the two tornadoes as both new ones. These tornadoes were following tracks a few miles apart, near Medora, one track being 11 miles long and 100 feet wide, with damage of $6,000, several people being hurt, the time from 7:30 to 7:45 p. m., while the other was timed from 7:35 to 7:45 and advanced 6 miles, ending near Liberty Center, the losses being reported as $3,200. The fourth tornado started earlier than these Warren County storms, at 7:10 p. m., near Valeria, Jasper County, 38 miles north-northeast of Medora, and ended 25 miles away, about 8 p. m., near Laurel, Marshall County, the losses being one life and $30,000.

In the southeastern part of Iowa, near Bard, Louisa County, a tornado on April 27, about 7 p. m., moved northeastward, with path 2 miles long and 220 yards wide, the damage being $2,100.

On April 30, at hours far apart, two storms considered tornadoes occurred in the eastern portion. In Linn County, near Ely, at 8 a. m., the earlier tornado traveled a mile northeastward, causing damage of $3,000. About 110 miles to the north-northwest, at 5. p. m., the later tornado was noted near Bluffton, Winneshiek County, with losses of $4,000; like the earlier storm, it moved a mile northeastward.

Northwestern Iowa had two tornadoes about 5 p. m., May 28, each moving northeastward. In Lyon County, near Rock Rapids, the length of path was 4 miles and the damage $6,000. About 44 miles to southeastward, in Clay County, near Everly, the length of path was 5 miles and the damage $3,500.

Four short-path tornadoes, of little importance, occurred about 7 p. m., May 31, within a comparatively short distance to eastward of Everly. All traveled toward the northeast, and three were in the northeastern part of Clay County, near Langdon, while the other was farther east, in Palo Alto County, near Ruthven, which is 10 miles southeast of Langdon. The distances between their paths were not ascertained, but each path was about 2 miles long. Two of the three storms near Langdon united near the end of their courses, and the losses from these two

together were $700, but from each of the other two the losses were $500. Ruthven is 10 miles southeast of Langdon.

During June, while there was great hail and wind havoc in Iowa, the tornado activity was not remarkable, save that on the 11th five storms seemed to be tornadoes. The earliest and farthest west of these struck in the west-central portion of the State, Calhoun County, near Rockwell, City, at 8:30 a. m.; it advanced eastward a mile and a half, causing losses of $3,000 and injury of one person. The next tornado was reported as occurring in Black Hawk County, near Waterloo, 115 miles east of Rockwell City, at 9:45 a. m. The general advance was northeastward, but the tornado split into two; however, the whole is counted but one tornado. From the start of the path to the ends of the branches was about 4 miles. Damage of $5,000 was reported, but no harm to any person. The other tornadoes were timed at 10 a. m. One was near Nevada, in Story County, about equidistant from Rockwell City and Waterloo, east-southeast of the former, but west-southwest of the latter; this moved a mile northeastward, causing damage of $2,000. The second, between Decorah and Waukon, was in Winneshiek County, or possibly ended in the western part of Allamakee, approximately 70 miles northeast of Waterloo. This storm is said to have moved to south of eastward 3 miles, with losses of $70,000 and one life. The other tornado occurred 15 miles to southwestward of the one just described, its path being near Fort Atkinson, Winneshiek County, the movement being east-southeastward for 4 miles, with damage of $5,000.

In the west-central portion, near Ute, Monona County, a storm, probably a tornado, moved northeastward a mile and a half, causing damage of $4,000 on June 30, about 9:30 p. m.

On July 6, about 2 p. m., near Clarence, Cedar County, in the east-central portion of Iowa, a tornado moved northward a mile, causing damage of about $600, but harming no person.

The southwestern portion of the State reported the next tornado, which struck near Villisca, Montgomery County, on July 16, about 7 p. m. The advance in this case was in a northeastward direction, and was only 1 mile. The havoc was estimated to amount to $2,000.

On August 2, about 1 a. m., a severe storm visited the northern and east-central portions of Kossuth County, with very great damage, part of which, however, was due to hail. Over most of the area affected the damage was judged to be caused by winds not tornadic, but in some strips there were indications of tornado work, also three different persons thought they saw a tornado cloud; it must be recognized as a considerable possibility that one or more tornadoes swept strips of ground. The information so lacks definiteness, however, that it seems preferable to reckon no tornado in Iowa at this time. All losses that were clearly due to wind are included in the table on page 39.

On August 10, near Logan, Harrison County, in the west-central portion, a tornado cloud was noted about 1 p. m., moving northeastward for perhaps a mile; but as it seemed never to touch the ground, no tornado is counted. However, an hour later, 90 miles eastward, Adel, Dallas County, had a windstorm that probably was a tornado, though the damage was but $500. This storm advanced a mile and a half southeastward.

The two last tornadoes of 1929 in Iowa occurred on September 8, the earlier one about 4 p. m., a considerable distance to southeastward of the center of the State, near Albia, Monroe County. This storm traveled toward the northeast, though only a mile and a half, but the damage was $25,000, and six persons were injured. Approximately in the direction this storm took, the second tornado was noted, and may have been the same storm, come back to earth again; but as the distance intervening is about 120 miles, it seems better to count it a new tornado. The vicinity was that of Manchester, Delaware County, and the hour 8 p. m.; the storm went northeastward 7 miles, and the property losses amounted to $13,000.

In Iowa this year 28 tornadoes in all were noted, a number equaled by no other State. The deaths resulting were three, not more than one in any one storm, and the aggregate damage of the tornadoes was $168,900.

Kansas.—On April 6, about 2:30 to 3:30 p. m., a tornado advanced in direction east of northeast from near Aurora, Cloud County, to a locality southeast of Hanover, Washington County, the last tornado damage being 45 miles from the start. The width of path was from 200 yards to half a mile. Farther to northeast there was marked wind damage in two Kansas and two adjacent Nebraska counties, but without evidence of a tornado. The damage strictly due to the tornado was estimated as $40,000.

On April 9, about 4 p. m., a small tornado was noted in the southwestern part of the State, in Clark County, 10 miles east of Ashland. It touched the ground but once briefly, so the damage was insignificant. A longer-path tornado, probably starting in Oklahoma, about 8:30 that evening, moved 15 miles northward in Chautauqua County, from near Elgin to several miles west of Sedan. There was damage of $1,500 in Kansas, and the total damage and length were probably but little greater than the figures stated for the Kansas portion. At Latham, Butler

County, about 30 miles northwest of where the preceding tornado ended, a southeastward path, 50 yards wide and half a mile long, was cut by an intense storm, probably a tornado, at 11 p. m. that night, with damage of $3,000. Possibly this same tornado, but probably a distinct one, at 12:30 a. m., the 10th, moved half a mile northeastward in Neosho County, north of Erie, causing $500 worth of damage. The locality is in southeastern Kansas, 75 miles east by north of Latham.

The violent windstorm in part of Cowley County, at 4 p. m., April 19, may have been a reappearance of the tornado noted somewhat earlier in Grant County, Oklahoma, heading toward Cowley County; but as the interval without reported havoc is about 30 miles and the Kansas storm was not established as a tornado, it is thought best to count it a distinct, nontornadic storm.

Two important, long-path tornadoes formed in southeastern Kansas on the afternoon of the 20th of April. From near Altoona, Wilson County, one of them traveled toward the northeast or east-northeast across Neosho and Bourbon Counties into Missouri. The damage was not continuous, but from the first of it to the State line was 65 miles, and the amount of loss was estimated as $100,000, while two persons were badly hurt. The width of track in Kansas was 100 to 500 feet, and the time from 3 to 4:30 p. m. Several miles to southward of this path, in Crawford County, close to the Missouri boundary, one or more funnel-shaped clouds were seen that afternoon in the air, but probably came to the ground only in Missouri, so for that county that day no tornado is counted. The other long-path Kansas tornado started near Reece, Greenwood County, at 3:07 p. m., and ended near Westphalia, Anderson County, 70 miles toward the northeast, at 4:30 p. m., so its speed was close to 50 miles per hour. Again the width of track was 100 to 500 feet. Losses of one life and $75,000 were reported. Though at times several funnel-shaped clouds were seen, yet but one tornado is reckoned, save in Anderson County; here, northwest of Colony and near Welda, a distinct path was cut, parallel to and southeast of the long path. This Anderson County tornado, about 4:30 p. m., advanced 8 miles and caused damage of $5,000.

In Bourbon County, near the eastern edge of Kansas, a tornado occurred near Fort Scott on April 24, about 6:30 p. m., advancing 6 miles northeastward sweeping a width of 100 yards, and causing damage of $5,000. This track was about 7 miles southeastward of the more southern of the long tornado tracks of April 20.

Four tornadoes of but little account occurred on May 10 or 11. The two in Rush County on the 10th swept short and probably narrow paths, the direction of motion not being reported, while the times were stated merely as "afternoon" for the one near Otis in the northeastern part of the county, and "late afternoon" for the other, near Alexander, about 20 miles west or southwest of the Otis storm. There was but little damage in either path. It is possible that but one tornado occurred, moving from near Alexander to near Otis, and staying in the air or attracting little attention between those places, but it seems better to count them distinct storms. Approximately 150 miles to southwestward, in one of the most southwestern counties of Kansas, Stanton, a small tornado traveled northeastward about 6 p. m. of the 10th, the track being 200 yards wide and a mile long, while the property loss was estimated as about $900. The other tornado of the four was reported from Neosho, one of the most southeastern counties of the State, where the time was noted as 5 p. m., the 11th; within a span of five weeks, three tornadoes, on different days, thus visited this county. This storm of May 11 was a few miles east of Chanute and advanced northeastward, its path being short and only 100 feet wide. The damage that resulted amounted to $1,500.

Two more important tornadoes occurred on June 2. Near the center of the State one of them moved from Barton County southeastward into Rice, the path being 33 miles long and half a mile wide, while the time was 4 to 5 p. m. The property losses amounted to $35,000, the greater part of them in Rice County, although more than half of the path was in Barton. It is reported that at times several funnel-shaped clouds were seen, but only a single tornado is counted in these counties. About 95 miles to southward, not far from the Oklahoma boundary, the other June 2 tornado was observed in Barber County, at 5:15 p. m. It moved eastward at rather slow speed, the track being 12 miles long and 50 yards wide. The edge of Hardtner was about at the middle of this track, and there much of the $20,000 damage occurred. At one time a second, smaller tornado cloud was observed, but only one tornado is counted.

Report came to Dodge City that about 30 miles away, in a direction northwest or north-northwest, a tornado struck late June 6, probably between 8 p. m. and midnight. Practically no other information was secured, save that the losses were insignificant. The locality affected was probably in the northwestern part of Hodgeman County.

On June 22, at 8:23 a. m., a small tornado cloud, moving northeastward, dipped once within the city of Topeka. There was only trifling damage, and the path of damage was practically but a spot for size.

On July 11 two tornadoes occurred, many hours and many miles apart. The earlier was about 1:30 a. m., in part of the city of Hutchinson, Reno County, a short distance southeast of the center of Kansas. There was damage of $25,000. Nothing was learned about the track or the movement, and the tornado cloud was not seen, but the tornadic character of the storm was well indicated. Almost 200 miles away toward the west-northwest, in Thomas County, 12 miles southwest of Colby, the other tornado struck at 10:30 p. m. that day; it advanced eastward, the path being narrow and short, but there was damage to the amount of $1,500.

The last tornado that came to notice in Kansas during 1929 struck the eastern edge of Atchison, Atchison County, in the northeastern portion of the State, on August 25, at 6:30 p. m. It moved northward in a narrow and short path, the losses resulting being but $600. No information was secured that this storm was felt either in Kansas outside the city or across the Missouri River, in Missouri.

The tornado record for Kansas in 1929 thus was 20 tornadoes, with losses of one life and $314,500. Among other States greater numbers of tornadoes were noted in three, namely, Iowa, Texas, and Arkansas.

Kentucky.—On January 18 destructive winds were felt in many western, central, and northern counties, and there may have been a considerable number of tornadoes, while possibly there were none. However, it is believed two tracks of marked havoc indicate true tornadoes. About 100 miles east-southeast of the end in Indiana of the tornado which started in Illinois, the earlier Kentucky storm, about 4 p. m., was near Sonora, in the southern part of Hardin County, and moved northeastward, cutting a path half a mile wide and 10 miles long, perhaps partly in La Rue County. The losses were one life and about $100,000. About 6 p. m., at and near Carlisle, Nicholas County, 110 miles east-northeast of Sonora, the other tornado swept a strip half a mile wide, moving northeastward, causing damage estimated as $500,000.

On May 18, about 7 p. m., Bracken County, in the northeastern portion of Kentucky, was visited by an intense storm, which swept a path 7 miles long, but narrow. The losses aggregated $10,000. This is thought to have been a tornado.

Louisiana.—About the middle of the afternoon of April 21, when tornado havoc was noted in comparatively near portions of Arkansas and Mississippi, a distinct tornado moved eastward in northeastern Louisiana, near Oak Ridge, Morehouse Parish, the hour being 3:45 p. m. Two deaths and damage amounting to $7,600 resulted.

On December 17, about 11 p. m., a tornado traveled northeastward over a track 100 to 150 yards wide and 6 miles long, south of the center of the State, in Evangeline Parish, about 10 miles east of Ville Platte. The damage was reported as $6,000.

Maryland and Delaware.—On May 2, when so many localities near to or east of the Appalachian Divide suffered, there were two tornadoes in central Maryland, each involving loss of life. The more western, from 8:30 to about 10 p. m., swept northeastward from Adamstown, Frederick County, to near Taneytown, Carroll County, 28 miles, the track being 300 to 400 feet wide. This is reckoned a reappearance of the tornado felt north of Hamilton, Va., so it is considered to have covered 43 miles in all, the 5 miles between the Potomac River and Adamstown being added to the 28 to make 33 miles in Maryland, not all at the surface. Both the deaths due to this storm were in Maryland. The damage was $100,000 in Maryland, or $150,000 in the two States together. Approximately 20 miles to southeastward a shorter, parallel path, about 200 yards wide and 10 miles long, was cut by the eastern tornado, about 9 or 9:30 p. m. The counties affected were Montgomery and Howard, the storm starting in the former. The losses were four lives and $90,000. Though possible, it is thought improbable that this was the same as the tornado at Weaversville, Va.; the interval between this place and the most southwestern damage in Montgomery County, Md., is about 45 miles.

Michigan.—On April 5 a very destructive tornado of unusually long path was followed in Wisconsin practically to the Michigan boundary, at 8:30 p. m. If it continued into Michigan, it came first to sparsely settled portions of the western part of Gogebic County, but no information has come that any severe storm was felt there that night, so no tornado is counted as occurring that day in Michigan.

On April 30, about 4 p. m., a violent storm with some features suggesting tornadic action was noted in Ionia County, not many miles east of Grand Rapids. However, the information secured seems not sufficient to reckon this a tornado.

On the night of June 27–28 severe winds were felt in three of the extreme southern counties of Michigan, likewise in some of the most northeastern counties of Indiana. The information is hard to correlate, but it is believed that two distinct tornado tracks can be placed in Michigan, though none in Indiana. From the south-central part of Branch County, for fully 60 miles in direction between east-northeast and due east, there was severe damage in spots, some in Hillsdale County, and others in the northern part of Lenawee, to near Tecumseh. In Hudson,

near where this storm entered Lenawee County, the time was noted as 12:05 a. m. of the 28th, but this storm was probably in Branch County about an hour earlier. The damage was about $50,000. A short, parallel path, 5 miles long in Lenawee County, starting at or near Medina, is indicated for the other tornado. This storm probably happened wholly after midnight and the damage was about $25,000. This path was 5 or 6 miles south of the longer path.

Minnesota.—One of the most important tornadoes of 1929 started a few miles west of Minneapolis on April 5, advanced through the northern part of that city about 5:30 p. m., then left Hennepin County, proceeding across Ramsey, Washington, and Chisago Counties to cross into Wisconsin at Taylors Falls, after moving 52 miles northeastward, with track about 100 yards wide. The Minnesota losses were six lives and property estimated at $1,000,000. Tornadoes that afternoon in northwestern Iowa and farther east in Wisconsin did not affect Minnesota.

On May 26, at 4 p. m., near Albert Lea, Freeborn County, in the southeastern part of the State, a tornado of small importance swept northeastward through a strip 500 feet wide and 3 miles long. The damage was $10,000, and apparently nobody was hurt.

At 5:30 p. m., June 9, a tornado occurred at Detroit Lakes, Becker County, a moderate distance to northwest of the center of Minnesota. The movement was northeastward, the path being 100 yards wide and about 4 miles long. Two persons were slightly injured, while the damage was estimated as $200,000.

The next day, June 10, about 130 miles to southeastward, a tornado was first noted at 5:45 p. m., 2 miles southwest of Kingston, Meeker County. It traveled slowly southeastward, in a somewhat curving path, the curvature being marked toward the end, which was near Cokato, Wright County. The curved track was 20 miles long, and 50 yards or somewhat less in width. The intensity of the storm was marked, and the losses in the very narrow path were two lives and $250,000 worth of property.

Mississippi.—At an unreported hour of the afternoon of February 25, two places in northwestern Mississippi suffered fearful storm havoc. These are Duncan, Bolivar County, and a neighborhood 3 miles west of Darling, Quitman County, and 33 miles northeast of Duncan. Coahoma County lies between these places. It is thought that a single, northeastward-moving tornado was concerned, and that it did no notable damage between. The width of path and amount of damage were not learned, save that the latter was great. The loss of life was 19. An Arkansas tornado, at 4 p. m. this day, occurred about 35 miles northwest of Duncan.

In southwestern Mississippi, Fayette and Harriston, in Jefferson County, the latter 2 miles east-northeast of the former, were struck by an intense storm at an unknown hour of the night of March 22–23. Three deaths resulted, but other items are lacking. It is thought one tornado advanced from Fayette to Harriston.

On April 21, about 3 p. m., Bolivar County had another tornado visit, Dahomy and Shaw suffering, the latter 14 miles east-southeast of the former. It is believed one tornado struck both places and, furthermore, that it was the same that was noted earlier, farther to westward, at Tiller, Ark. Advance of 19 miles in Mississippi, but 34 altogether, is indicated. The deaths were 7 in Mississippi, but 19 in the two States, and the Mississippi damage was not estimated, while that in Arkansas was reported as only $1,000.

An intense windstorm, apparently a small tornado, caused moderate damage in a very limited area at 3 a. m., December 18. The place was Tupelo, Lee County, in the northeastern portion of the State. This was four hours after a tornado occurred in central Louisiana, and the Tupelo storm is reckoned a distinct one.

Missouri.—On January 18, about 10:15 a. m., a tornado traveled northeastward in Scott County, in the southeastern part of the State. The path was 200 feet wide and 2 miles long, starting about 4 miles south of Benton. The losses were three lives and property values of $15,000. Substantially on the continuation of this track, 70 miles northeastward in Illinois, a tornado was noted about 11:30 this day, but is counted a distinct storm.

Southeastern Missouri had two more tornadoes, simultaneous or almost so, on March 31. At 8:15 p. m., Mineral Point, Washington County, was struck by a northeastward-moving tornado, the path being mostly 300 yards wide, but sometimes much narrower, of length unreported. One death and damage of $5,000 resulted. To southward 95 miles, in Ripley County, a tornado which probably started in Missouri, but very near the Arkansas boundary, hit Poynor and went northeastward to Doniphan, the time reported at the latter place—8:30—being considered the most trustworthy. The width of the track, 50 to 75 yards at Poynor, had increased to one-fourth mile at Doniphan. Advance of 10 miles in all, several injuries, and losses of $181,000 were the results of this storm.

McDonald County is at the southwest corner of Missouri, and in its north-central portion, April 7 at 9 p. m., a severe storm, which was probably a tornado, cut a narrow path 3 miles

long, probably advancing toward the east-northeast. There was damage amounting to $600, but apparently no person was hurt.

In the southwest part of Missouri, but at moderate distances to northward or northeastward of McDonald County, several tornadoes, some being decidedly important, occurred April 20. The most northern, perhaps the earliest, after advancing 65 miles from its start near Altoona, Kans., came into Missouri in the northwestern part of Vernon County, and went on 10 miles northeastward, ending in Bates County, 3 miles south of Foster, the time in Missouri being 4:30 to 5 p. m., and the width swept about one-fourth mile. The length of path in the two States was 75 miles, and in each State persons were injured but none killed, while the property losses amounted to $75,000 in Missouri, or $175,000 in all. This storm probably advanced at a speed not far from 40 miles per hour. Approximately 23 miles southeast of the track of this storm, another tornado first came to the ground near the State boundary, but probably on the Missouri side, west of Oskaloosa, Barton County, and moved 15 miles northeastward, to end northwest of Sheldon, Vernon County, the width of path being 100 feet at first, but mainly one-fourth mile. Damage of $84,000 and several personal injuries resulted. The time was, roughly, 4 to 5 p. m. Just about the same time a storm, most likely a tornado, but a distinct one, swept a narrow path to northeastward, about 2 miles long, in St. Clair County, a little west of Collins, which is 40 miles toward the east-northeast from the point where the Barton-Vernon tornado ended. The damage estimate for this St. Clair tornado was but $1,500, and no person was even hurt.

About 15 miles southeast of the short-track storm just described, another tornado started in Polk County, south of Flemington, and cut a path from 300 yards to a half-mile wide for 14 miles northeastward to Pittsburg, Hickory County, the time being 5:30 to 6 p. m. Many personal injuries and destruction estimated as $15,000 resulted.

The latest, and as far as Missouri was concerned the most serious, of the April 20 tornadoes likewise started in Polk County, the locality being a few miles west of Bolivar, or 12 miles south of where the Flemington-Pittsburg storm began. However, the Bolivar tornado traveled but slightly north of due eastward, through Buffalo, Dallas County, and several miles beyond, about 30 miles in all. The width of path at Bolivar was 200 yards, elsewhere sometimes greater or less. The timing at the start (just before 6 p. m.) and at Buffalo (6:30) was seemingly so accurate as to justify the statement that the speed of advance was 40 to 45 miles an hour. The losses reported total $171,000, and a large number of people were injured, several seriously.

On May 1, when several tornadoes were noted in Arkansas, a small one occurred at Crane, Stone County, in the southwestern part of Missouri, according to meager information. It is said the time was about 4 p. m.

On May 18, at 8:55 a. m., another small tornado in southwestern Missouri swept a path three-fourths of a mile long but less than 100 feet wide in Springfield, Greene County, moving northeastward. The damage was but $1,200, and nobody was hurt.

Montana.—No tornado reported.

Nebraska.—Within the span of 24 hours, late in April, three tornadoes were noted. The first occurred in southwestern Nebraska, forming about 11 p. m., April 23, in the northeastern part of Frontier County, whence it moved northward into Dawson. The path was half a mile wide and 10 miles long. The damage of the tornado alone can not be detached, save roughly, from the total, which included hail and flood havoc, but was apparently $20,000.

About 150 miles east by north of where this nighttime tornado had started, the second tornado, most serious of the three, cut diagonally almost entirely across Butler County, in eastern Nebraska, moving 35 miles northeastward, the width of track being three-fourths of a mile. This storm began about 3 p. m., April 24. The tornado losses were about $70,000. In view of the times noted, and the situation along one line of advance, the two strips of havoc in Saunders and Sarpy Counties are reckoned the work of one tornado, traveling toward the northeast. The very short path in Saunders County, 4 miles southwest of Ashland was swept at 3:30 p. m.; it lies 40 miles southeast of the northeast end of the long track in Butler County, where the time of the storm was about the same. About 17 miles northeastward of this Saunders County locality, what is counted the same storm began a 5-mile sweep, from one-fourth to three-fourths of a mile wide, in Sarpy County, near Papillion; here the time was 4:40 to 5 p. m. A total advance of 22 miles, and total damage of $40,000 are indicated for this tornado. These April storms caused no bad personal injuries.

On May 26, at 5 p. m., a small tornado, moving southeastward, was noted a mile or two south of Hyannis, Grant County, in the western portion of the State. The cloud apparently dipped to the ground but once, so its path must be rated as decidedly short, the width being about 50 feet. The property loss was about $200.

On June 19, at late hours, in fact, possibly extending into the 20th, great wind and hail damage occurred in southeastern Nebraska, with especially intense wind action noted in the

southern portions of Jefferson and Gage Counties. Here there may have been one or more tornadoes, but the information is considered as not establishing this, and the wind havoc is included in the table on page 39.

In the one of the far western counties, Cheyenne, to the southwestward of Gurley, a tornado cloud was noted July 11, at 5:30 p. m. This advanced toward the northeast, and seemingly came to the ground but once, in a field, so the damage was inappreciable.

Nevada.—No tornado reported.

New England.—On May 5, about 3:45 p. m., a small tornado visited Berlin, Coos County, in the northern part of New Hampshire. The storm traveled toward the east-northeast, the width reaching 100 yards at times, but mainly less; from first damage to last known was about 2 miles, but many gaps occurred. Though the damage was $200,000, no person was hurt.

A violent storm, probably a small tornado, occurred about 1:40 p. m. May 16, in the northern part of Portland, Me., advancing in direction very slightly south of due east, through the section known as North Deering about 4 miles to the waterfront, the havoc being found only at intervals. The losses were estimated as $25,000, and no person was more than slightly hurt.

On August 13, about 5 p. m., a severe storm occurred in Vermont, a short distance to southwestward of the center of the State, to the west and north of Rutland, Rutland County. It is supposed that the storm advanced northeastward. A path about 25 miles long and damage amounting to "thousands of dollars" are reported, but no deaths or even injuries are mentioned. It is thought the storm was a tornado.

New Jersey.—A storm on April 1, entering Warren County, in the northwestern part of New Jersey, from Pennsylvania, about 4:30 p. m., advanced 7 miles toward the east-northeast, in a narrow path, to Blairstown. In New Jersey one death and damage of $55,000 resulted from this storm, which is thought to have been a tornado, while in the two States together there were losses of $105,000, but only the one life, the whole track being 10 miles long.

New Mexico.—At an hour unreported (except as "daytime") on May 16, a vigorous storm, which is probably best classed as a small tornado, traveled a path 25 miles long and an eighth to a half a mile wide, near the center of Catron County, which is in the west-central portion of New Mexico. Though the district is thinly settled, the damage was $60,000. The storm traveled to the northeastward. Five days later, on May 21, apparently about the middle of the afternoon, besides thunderstorm, heavy hail, and downpour, with resulting floods, there seems to have been a small tornado about 6 miles southwest of Moriarty. This place is in the northwest part of Torrance County and a moderate distance north of the central point of the State. Save that the damage from the tornado was small, other information is lacking.

The violent wind in Columbus, during the afternoon of May 30, is now thought not to have been a tornado, and the case is the same for an intense storm near Stead, Union County, on June 10.

On September 8, about 6 p. m., several miles southeast of San Jon, Quay County, close to the east-central boundary of the State, a storm reported as sweeping a path half a mile wide wrecked several buildings. The information indicates that this storm was a tornado.

New York.—No tornado reported.

North Carolina.—On two successive days, March 22 and 23, intense windstorms were felt in many portions of the State, but the earliest of these, in the eastern portion, near the boundary of Pitt and Edgecombe Counties, about 2 a. m. of the 22d, is thought probably not a tornado. However, about 5:10 p. m. that day, a tornado from South Carolina entered North Carolina about where the Gaston-Mecklenburg county boundary comes to the State line, and swept several strips in a direction between northeast and east-northeast, in Mecklenburg, Cabarrus, Stanly, and Randolph Counties, to end in northwestern Chatham County, apparently about 7:50 p. m., which indicates a speed of about 35 miles per hour. In general, the width of the detached strips increased to eastward, from 200 feet in Mecklenburg County, west of Charlotte, to nearly or quite a quarter of a mile in eastern Randolph. From the State line to last damage was about 95 miles, or from first to last, 97 miles. The property losses aggregated $75,000 in North Carolina, or $85,000 in all, and the lone life lost was in Mecklenburg County, N. C.

Three widely scattered localities suffered on the 23d of March, by probably three distinct tornadoes, and for two there is no information as to hours, dimensions of paths, or directions of advance, but the two together seem to have caused about $5,000 damage. One was near Newton, Catawba County, fully 40 miles northwest of Charlotte; the other 50 miles southeast of where the long-path tornado of the preceding day had ended, occurring at Fayetteville, Cumberland County.

The third of the North Carolina storms of March 23 struck about 85 miles northeast of Fayetteville, in Edgecombe County, where it traveled about 10 miles northeastward from the south-central part to a neighborhood midway between Tarboro and Mildred. The width of

track is not known, and the time no more definitely than "afternoon." The damage was about $10,000.

North Dakota.—Late in May, two storms that were probably tornadoes occurred in the northeast portion. On the 29th, about 4:30 p. m., the earlier of these tornadoes started at Inkster, Grand Forks County, and cut a swath 125 feet wide and 5 miles long, the losses amounting to $20,000. The next county to westward, Nelson, contained most of the path of the other storm, which came at an unknown hour of the 30th, but a portion was still farther west, in Ramsey County, at and near Bartlett. This path is described as 20 miles long, but narrow, lying in a northwest-southeast direction; and the report is that the movement was northwestward. The damage was estimated as $15,000.

On July 8, at 1 p. m., a small tornado was noted west of Grand Forks, in the county of the same name. Apparently its life was brief, and nothing was learned of its movement or the size of its path. The damage was insignificant.

Late in the afternoon of July 11 there was vast wind, rain, and hail damage in the southern part of Ramsey County; and while some correspondents assert that several funnel clouds were seen, yet it is preferred to count but one tornado. Tornado havoc was much in evidence in some rural districts of the county, and at Grand Harbor and Crary, the latter 20 miles east-southeast of the former. It is not unlikely that a tornado moved from Grand Harbor to Crary. Many persons suffered injuries, and the property losses from the tornado alone were apparently $100,000.

There was marked damage on July 21, at hours not specified, in two widely separated strips. In the south-central portion of the State, one strip, 8 miles long and 2 miles wide, extending in a southwest-northeast direction, suffered somewhat, with indications that a small tornado was felt in part of the strip, which included Napoleon, Logan County. No estimate of the damage was obtained. About 160 miles toward the north-northeast, the northern part of Ramsey County was swept, especially the general vicinity of Starkweather and Edmore. The latter is 20 miles from the former, in direction slightly south of due east. Advance from Starkweather to Edmore is not unlikely. This tornado of itself seems to have caused damage amounting to $30,000. No injuries are reported to have occurred in either Logan or Ramsey County this day.

Ohio.—In Delaware and Summit Counties, on April 25, and in Cuyahoga County, April 28, certain strips were swept by intense winds, with suggestions of tornadic action; but with the information available it seems better to reckon these storms as not tornadoes.

On May 2, about 3 p. m., a storm which was probably a tornado, though not so well defined as most tornadoes, occurred in the central portion of Ohio, being apparently confined to a path 10 miles long, from near Galloway to Columbus, both in Franklin County. The advance was northeastward, the path probably being narrow; and the losses were two lives and property values estimated at $25,000.

On May 14 there were apparently three tornadoes of no great importance. In the southern part of the State, Fayette and Pickaway Counties were visited, the storm advancing 18 miles, mainly above the surface, toward the east-northeast, from a point 2 miles northwest of Washington Courthouse to Fivepoints. The hour was about 4 p. m., and the damage was judged to be $3,000 in the one community where substantially all of it occurred.

Almost 50 miles north of Fivepoints, in the northwestern part of Delaware County, near Radnor, the second tornado of the 14th was noted about 7 p. m. The movement was northeastward, but the distance it covered was apparently very short; yet the damage was $4,100. To the east-northeastward, 73 miles, what might be reckoned this same tornado reappearing, but is considered another one, struck at 9 p. m., in Wayne County, 4 miles southeast of Wooster. The path was decidedly short, the damage amounting to about $1,000.

During the first week of July two intense local storms swept narrow paths, each half a mile long, and these may have been tornadoes; but on the information secured it seems better to count them not tornadoes and to place the damage in the table on page 39. The first of these occurred in Huron County, at 9:30 p. m. of the 4th; the other was on the 5th, at Springfield, Clark County.

On October 24, about 4 p. m., some incipient waterspouts were noted over Lake Erie, about 5 miles northwest of Cleveland, but seemed never to reach the lake surface. A short time later observers on the shore in the eastern part of the city saw a complete waterspout, which came to the shore line and there broke up. No tornado is counted.

Oklahoma.—On April 9 several tornadoes occurred in southern Kansas, and it is thought there were two during the evening on the Oklahoma side of the boundary. About 8:30, or somewhat earlier, observers in Kansas judged the tornado near Elgin in that State had come northward from Oklahoma, which hints at its starting in a sparsely settled district of the northeastern part of Osage County. It is probable that for Oklahoma the path was short and the

damage negligible. Toward the west-southwest, 60 miles away, Blackwell, Kay County, had a tornado and severe hailstorm, between 8:30 and 9 p. m. For the tornado there should probably be reckoned northeastward advance, a track 5 miles long and half a mile wide, and damage of $400,000.

Between 4 and 5 p. m. on April 18, in northwestern Oklahoma, probably very near the extreme northwest corner of Harper County, a tornado caused serious injuries to two persons and losses of property estimated as $1,000. The path is reported to have been 5 miles long and a mile wide.

Two tornadoes occurred on the 19th, the earlier, like the Oklahoma tornadoes already named, being near the northern edge of the State. This storm came about 120 miles east of the scene of the Harper County tornado, namely, 5 miles west of Medford, Grant County, about 3 p. m. It is said the track was 10 miles long, yet only 10 to 100 yards wide, while the damage was but $500. Approximately 140 miles toward the south-southwest, in Kiowa County, 10 miles southwest of Mountain View, the other tornado started at 7 p. m., going northeastward 15 miles to end in Caddo County. Losses of three lives and $100,000 of property seemed due to the tornado, whose path was reported as three-fourths of a mile wide.

A second tornado struck in Harper County, the time being 1 a. m., April 24, but the place farther east, probably east of Willard. A path 10 miles long and a mile wide is reported, with injury of one person and damage of $2,000.

In east-central Oklahoma, a mile and a half north of Hitchita, McIntosh County, a tornado struck about 6 p. m., April 30. For this storm a track 10 miles long and half a mile wide was reported, and there were losses amounting to $4,000, while many persons were hurt.

The following day, May 1, 60 miles east-southeastward of Hitchita, a tornado struck Tucker, in the northwestern part of Le Flore County, at 2:15 p. m. A path 200 feet wide and 5 miles long, damage of $4,000, and slight injury of one person are indicated for this storm in Oklahoma. There is little doubt that this is the same tornado which hit Fort Smith, at the western edge of Arkansas, about 2:37 p. m. The direction of advance is thus fixed as east-northeast, and the total advance before the State line was reached was 16 miles, most of this probably above the surface of the earth.

In northeastern Oklahoma, Claremore, in Rogers County, reports that a tornado occurred 6 miles away to northeastward, at an unspecified hour of the afternoon of May 15. The dimensions of the path were not ascertained, but probably it was both short and narrow. Nobody was even hurt and the property loss was slight.

Local windstorms noted in Stephens County on the 17th of May and in McCurtain County on the 25th were apparently not tornadoes. However, on May 31, at 10:30 a. m., there was a small tornado a mile north of Davis, Murray County, with track both short and narrow, no bodily harm to anyone, and but little damage. This locality is in the south-central portion of Oklahoma.

In the extreme western portion of the State, in Cimarron County, about 12 miles southeast of Kenton, a tornado occurred June 6, about 5:50 p. m. The advance of the storm was toward the east-southeast, and its path was 18 miles long, but only 75 yards wide. One person was slightly hurt, but the damage was almost nothing.

Oregon.—No tornado reported.

Pennsylvania.—On April 1, about 4:30 p. m., a tornado started southwest of Portland, Pa., and moved toward the east-northeast 3 miles to reach the Delaware River just east of Portland, whence it went on into New Jersey. The Pennsylvania portion of the path was about 100 yards wide, and was in Northampton County, where the loss of property aggregated $50,000, and several were hurt.

At 8 p. m., April 25, York, York County, in the southeastern portion of the State, had a severe local storm, which caused $10,000 damage, and was probably a tornado. The path was presumably short, but the only definite information about it was the width of 100 yards.

On May 2, late in the afternoon, marked wind damage was reported from Morgantown, W. Va., to Uniontown, Pa., and there were some indications of a tornado, but the information does not establish this point. Hundreds of miles to eastward, damage occurred that day at York, not far to northeastward of the supposed end of a Maryland tornado; but here again it seems better to count the Pennsylvania storm as not tornadic.

On June 28, at 8:15 a. m., a tornado struck in the southwestern portion of the State, at Farmington, in the southeastern part of Fayette County, where the damage was about $5,000, and three persons were seriously hurt. Information as to the direction taken is not available, but the path is described as 75 yards wide and half a mile long.

Porto Rico.—No tornado reported.

South Carolina.—Tornadoes are reported as occurring, one each day, on three different days in March. On the 13th, at 8:30 p. m., one of these struck Six Mile, Pickens County, in the northwestern portion of the State. The path is reported as 350 feet wide and about 2 miles long, the storm traveling toward the northeast. The losses were nine lives and property to the amount of $30,000.

About 5 p. m. of the 22d, a tornado started in the northeastern part of York County and advanced 2 miles northeastward before it crossed the State line into North Carolina, where it continued many miles. In the South Carolina portion the width of track was only 100 to 150 feet, the damage was $10,000, and two persons were injured.

Again in the northwestern portion, but closer to the center of the State than either of the March tornadoes already described, the third tornado, about 11:30 a. m., March 23, visited Chester County, moving 12 miles eastward from Chester to Richburg. The path was 100 yards wide, the total reported damage was $6,000, and apparently no person was hurt.

Before 4 p. m., April 25, in the western part of South Carolina, a tornado of the bounding type appeared 9 miles northwest of Anderson, in the county of the same name, and traveled approximately 43 miles, in direction east or slightly north of east, to near Enoree, Spartanburg County, portions of Greenville and Laurens Counties lying between. The width of the track was 400 to 900 yards, and the losses aggregated $102,000 of property and six lives.

About 2:30 p. m., April 28, a tornado visited a district not far northward from the center of the State, in the southwest part of Kershaw County. The beginning and the end were reported, respectively, as 4 miles west of Lugoff and 9 miles northwest of Camden; this indicates an advance of about 8 miles, in direction toward the northeast or north-northeast. The reports indicate further a width of path 100 yards, 1 death, and damage of $5,000.

In the northeastern part of South Carolina, a storm at Dillon, in the county of the same name, September 14, about 2 p. m., was probably a small tornado. It caused damage at intervals in a path about 80 yards wide, the total being estimated at $1,500; and three persons were injured. It is thought that the advance of the storm was in an easterly direction, and that from the first damage known to the last was not more than a mile.

At an unnamed hour of October 1, when the center of the hurricane from the West Indies region was not far away, there apparently was a small tornado near Blackville, Barnwell County, in the southern portion of the State. Although the path was short, there were losses of one life and of property estimated at $3,500.

South Dakota.—Only one tornado during 1929 has come to notice, and that a decidedly small one. At 5 p. m., July 7, in the east-central portion of the State, this tornado was noted south of Osceola, Kingsbury County, and after a short strip had been swept it lifted, to come again to the surface some distance to northeastward, but again only for a short space. From the first damage to the last was apparently less than 2 miles, and the width swept was but 75 yards. The property losses were estimated as $5,000.

Tennessee.—The only 1929 storm in Tennessee that seems to have been a tornado occurred on May 2, about noon. This was the day when tornadoes were noted in Ohio, Virginia, and Maryland. The Tennessee storm advanced about 40 miles northeastward in the extreme eastern portion, from near Wolf Creek, Cocke County, to a point in Washington County, near Embreeville. The path was narrow, and the losses were two lives and apparently about $10,000 of property. The Rye Cove, Va., tornado is considered quite distinct from the Tennessee storm; the former started about 35 miles northwest of where the latter ended.

Texas.—The earliest tornadoes of 1929 in the country occurred in southeastern Texas. One occurred at Sealy, Austin County, on January 4, at 6:15 p. m., traveling northeastward 10 miles, with path 100 yards wide. Damage of $10,000 resulted, and some persons were injured. The same day, at 8 p. m., fully 60 miles south-southeast of Sealy, another tornado struck in Matagorda County, about 5 miles south of Bay City. Five deaths resulted from this storm, which left a track of utter destruction 150 yards wide and several miles long.

On the morning of February 25, three places in northeastern Texas were visited by tornadoes, apparently by three distinct storms. One passed near Grand Prairie, Dallas County, at 4:05 a. m., and advanced northeastward, the path being 200 feet wide and 4 miles long. The losses from this tornado were two lives and property values of about $150,000. About 24 miles east of Grand Prairie, Mesquite, also in Dallas County, reported that a tornado struck 3 miles to eastward. Details as to the path were not learned, but one person was hurt and there was slight damage on one farm. Approximately 70 miles to northeastward of these Dallas County places, Cooper, in Delta County, was visited at 6:30 a. m., the track being 200 feet wide and half a mile long. This tornado caused two deaths and property damage to the amount of $40,000. Several hours later this day there were tornadoes in eastern Arkansas and western Mississippi.

About 2 a. m., March 4, a storm which probably was a tornado struck in Caldwell County, 4 miles north of Luling. This county is to southward or southeastward of the center of Texas. The track is reported to have been half a mile long and a fourth of a mile, or somewhat less, in width, the movement being eastward. The estimate of damage was $10,000.

Of four local storms which occurred during the early hours of April 8, three are judged to have been tornadoes, all reported from the northeastern portion. Scurry, Kaufman County, named the time as 2 a. m., the path as about half a mile wide and 2 miles long, motion being northward, and the damage as $3,500. Ennis, in Ellis County, is not quite 20 miles southwest of Scurry, and if it were not that the respective times practically bar the possibility, it would be stated as the probability that one tornado had advanced from Ennis to Scurry. The report of the Ennis tornado is that the hour was 3 a. m., the movement northeastward, with area of devastation 300 yards by 1,000 yards, the damage moderate, but that one person was hurt. About 110 miles northeast of Scurry, Clarksville, in Red River County, was visited at 5 a. m., the tornado traveling northeastward. The track was described as but 30 yards wide and a mile and a half long, and the property losses seem to have been decidedly small.

About 5 p. m., April 10, what was probably a small tornado visited Alice, Jim Wells County, in southern Texas. The other information secured is that the path was 15 yards wide, and that there was some damage to outbuildings.

Smithville, Bastrop County, in southeastern Texas, was struck by a tornado at 6:10 a. m., April 14. Northeastward advance was reported, with path 400 yards by half a mile. There was damage of $75,000 and several persons were injured.

About 6:30 p. m., April 19, Cleburne, Johnson County, which is north of the center of Texas, was visited by a tornado moving northeastward, with path 600 yards wide. The losses were one life and $36,000 of property.

On April 24, about 12:20 p. m., a disastrous tornado struck in Anderson County, practically wiping out Slocum, and doing other damage in one or two smaller communities. The storm took an easterly course, the path being fully 9 miles long, and the width being reported as 3 miles. The losses were seven lives and property worth $200,000. This county is in eastern Texas, and 75 miles to the east-northeastward is Center, in Shelby County, which borders on Louisiana. About 2:30 p. m. that day Center was visited by a severe tornado, moving northeastward. The track here was stated to be half a mile wide and 15 miles long, while the damage was estimated as $125,000, and several persons were injured. Although the Slocum tornado evidently advanced toward Center, yet it is preferred to reckon the Center tornado as a distinct storm.

Anderson County soon suffered from another tornado visit, but this time it was the northern portion of the county, at and near Frankston. The time was 3 p. m., May 1, an afternoon when eastern Oklahoma and western Arkansas experienced tornadoes. This May 1 tornado moved 7 miles northeastward, with path 300 yards wide; the damage was $2,500 and one person was hurt.

Two storms, each probably a tornado, were reported as occurring May 17, in counties widely separated. McCamey, Upton County, is in the far-western portion of Texas, but a few miles northeast of the Pecos River; the time of the tornado there was about 11:15 a m. An advance toward the southeast, with path 100 yards wide, and damage of $2,000 are the other items reported. About 260 miles to northeastward of McCamey, in Archer County, at Dundee, the other storm struck about 2:30 p. m. The width of path in this case was reported as one-fourth mile, and the length as 6 miles. The property losses were $20,000, and a few persons were hurt.

The next day, May 18, in eastern Texas, a small tornado visited Westfield, in the northern part of Harris County. This storm traveled northeastward 5 miles, with path only 20 yards wide. There was damage to the amount of $5,000, and a few people were injured. The hour was about 12:30 p. m.

On May 23 there was probably a tornado near Del Rio, Val Verde County, with great damage to crops. However, other information about this storm is lacking.

Sealy, Austin County, where on January 4 the first tornado of 1929 had occurred, was visited by another tornado on May 26, about 12:15 a. m. This storm moved northward, sweeping a path 500 yards wide and 3 miles long, and causing property losses estimated at $12,500. Somewhat later that night, namely, about 3 a. m., a violent storm, very small in size, struck Pasadena, in the southeastern part of Harris County, only a few miles from Houston. Northwestward advance, a path 20 yards wide, and damage of $2,000 are reported. It is thought that this storm also was a tornado. Pasadena is about 57 miles east of Sealy.

In the southeastern portion of Texas, though to southwestward of the places last named, Yoakum, Lavaca County, experienced a severe storm, probably a tornado, at 11 p. m., May 28,

The direction the storm took was not learned, but the damage amounted to $700, and the track was reported as 400 yards by 880 yards.

On June 3, about 5 p. m., there was a small tornado in Dallas County, at Lancaster. Information as to the direction is lacking, but it is reported the path was 50 yards wide and 1,100 yards long, and the damage was $1,000.

On June 25, within about half an hour, about 4 p. m., five waterspouts were observed over the Gulf southeast of Galveston. They moved southwestward and probably did not reach land, so no tornado is counted.

The northeastern portion of Texas suffered from one small, intense storm, probably a tornado, during July, the place being 10 miles north of Saltillo, Hopkins County, the time 4 p. m., the 11th. The damage was apparently about $2,000, the other information secured indicating merely that the path was a small one.

In the southeastern portion of Texas intense storms were noted on October 30. Several narrow strips in Harris County near Houston were swept about 6 a. m., and there may have been one tornado or more than one, for one could not have struck at all the spots affected. However, in the absence of more definite information, it seems preferable to reckon no tornado for Harris County on this day. Approximately 60 miles northwest of Houston, a tornado struck near Anderson, Grimes County, about noon this day, and is considered a distinct storm. It traveled northwestward a very short distance, with path 50 yards wide, resulting in damage of $5,000.

Altogether, 26 tornadoes are counted as occurring in Texas during 1929, a number which no State exceeded save Iowa.

Utah.—No tornado reported.

Virginia.—From the group of tornadoes in early May Virginia suffered more deaths than any other State. The earliest Virginia tornado struck in the far western portion, at and near Rye Cove, Scott County, at 12:55 p. m., ninetieth meridian time, May 2. The path included a schoolhouse, with over 150 children in attendance, a few other buildings, and much timber. The property loss was reported as $100,000. For a storm which caused no greater havoc the loss of life was large, 13, a greater number than resulted from any previous tornado in Virginia of which record can be found. The storm moved northeastward several miles—at least 3—and the path probably was narrower than average, though no definite statement is found. Approximately 300 miles to northeastward, a short distance east of the Blue Ridge, the next tornado came at 3:30 p. m., seventy-fifth meridian time, striking Woodville and Flint Hill, in Rappahannock County. The track seems to have been fully 13 miles in length, and comparatively narrow, the advance being toward the northeast or north-northeast. The losses were three lives and property values estimated as $200,000. The next later tornado occurred almost 100 miles southwest of Woodville, in Bath County, west of the Blue Ridge, about 6 p. m., the villages of Coronation and Sitlington suffering. This storm moved northeastward 17 miles, with path from 250 to 800 yards wide. There was damage amounting to $75,000, and several persons were hurt.

There was a tornado north of Hamilton, Loudoun County, about 7:30 p. m. this day, which may possibly have been a reappearance of the Woodville tornado, but is counted as a distinct storm. Hamilton is 45 miles northeast of Woodville. The strip swept at Hamilton was 2 miles long and 200 yards wide; however, it is judged that this tornado continued northeastward, always or nearly always above the surface after passing the strip mentioned, till it reappeared in Maryland, at Adamstown. Therefore it is counted as covering 10 miles in Virginia, where it caused damage of $50,000 and injured two persons. The reports from Lagrange and Lignum, which are in the eastern part of Culpeper County and close together, and from the Weaversville community, close to Catlett, Fauquier County, 18 miles toward the northeast or north-northeast from Lagrange, are thought to relate to one tornado, and it was probably the last of May 2 in Virginia, though the times reported vary considerably, but point to 8 or 8:30 p. m. as the most probable time. Lagrange is but 22 miles southeast of Woodville, but the Woodville and the Lagrange-Weaversville storms are no doubt distinct. It is possible that the Weaversville storm traveled northeastward in the air, to strike again in Montgomery County, Md., but even in this matter it seems better to count the storms distinct. The width of path at Weaversville is reported to have been one-fourth of a mile. The losses of the Lagrange-Weaversville tornado were 6 lives and property that apparently was worth at least $50,000.

It is reported that a waterspout was seen over Chesapeake Bay on July 19. It was a few miles east of Old Point Comfort, but traveled northward, probably never coming to shore, so no tornado is counted.

Virgin Islands.—No tornado reported.

Washington.—No tornado reported.

West Virginia.—On May 2, when tornadoes visited many States east of the Mississippi River, there was much havoc about 4:20 p. m. in a restricted area near Morgantown, Monongalia County, in the northern portion of the State, with some suggestion of tornadic action. But as the information secured is inconclusive, it is preferred to count the storm as not a tornado. Substantially the same may be stated of a small-area storm on July 25, about 9 p. m., in North Point Pleasant, Mason County.

Wisconsin.—Of two very severe tornadoes on April 5, one, which was probably the first to start and the first to end, was chiefly active in Minnesota, but entered Wisconsin in Polk County, where it continued about 15 miles, with path one-fourth of a mile wide. The advance was northeastward and the time was about 6 to 6:30 p. m., the end of path being about 5 miles north of Balsam Lake. The Wisconsin damage was $10,000 and no personal injury is mentioned. For the two States this tornado had a path 67 miles long, with losses of six lives and $1,010,000.

The other April 5 tornado was first noted in western Pierce County, southwest of River Falls, about 5:45 p. m., and last near Van Buskirk, Iron County, very near the Michigan line, at 8:30 p. m. The advance was northeastward, and as the distance is 170 miles, the speed computes slightly more than 60 miles an hour, which is unusually fast progress for a tornado. The width swept varied from 30 to 400 yards. The losses were 12 lives and property values estimated as $725,000.

Far to southward, in the southwestern portion of Wisconsin, a less serious tornado occurred the next day, April 6. It was timed from 4:30 p. m., near Cuba City, Grant County, to 6:20 p. m., in northern Green County, north of Monticello. This indicates movement toward the east-northeast, about 45 miles, so the progress was probably about 25 miles per hour. The width of the track was from 30 to 330 yards, the damage was $250,000, and many people were injured.

On June 10 there was tornado havoc in northern Wisconsin, at and near Ladysmith, Rusk County, and at Minocqua, Oneida County, the times being reported as 7:15 p. m. and 7:30 p. m. It seems decidedly probable that two tornadoes were concerned, for Minocqua is about 74 miles east-northeast of Ladysmith. The Rusk County tornado, like the Minnesota tornado which occurred an hour earlier, traveled to south of eastward; the path was 11 miles long and about 150 yards wide. Several persons were hurt and there was damage to the amount of $150,000. The tornado path at Minocqua was probably of less length than the Rusk storm's; the width of path was from 100 to 600 feet, and the damage was estimated as $100,000; the advance of this tornado was likewise toward the southeast.

A small tornado, with path only a few rods wide, moved 14 miles mostly toward the southeast or south-southeast, though the track showed some irregularities in direction. The beginning was about 8 miles northwest of Stone Lake, Sawyer County, in northwestern Wisconsin, and was almost surely in Washburn County, but the end was probably in Sawyer County. The time was about 8 p. m., June 29, and the property losses were $12,000, while one person was hurt.

A report was received that a severe local windstorm occurred at Algoma, late July 17, and possibly was a tornado. However, the information is not considered conclusive, so the storm is not counted a tornado. The place is in Kewaunee County.

Wyoming.—On June 17, at 5:15 p. m., a tornado cloud was noted at Sundance, traveling toward the northeast. This place is in Crook County, the most northeastern in Wyoming. As the cloud apparently never touched the ground, no tornado is counted.

On August 10, at 3:20 p. m., persons in Cheyenne, Laramie County, saw a funnel-shaped cloud so far to southward that they judged it to be over Colorado soil. As no damage was heard of and no information came to indicate that it ever reached the ground, no tornado is counted for either Colorado or Wyoming.

HAIL, 1929

As for the years preceding, back to and including 1916, the occurrence of injurious hail during the 6-month period, April to September, inclusive, is presented on two charts, numbered 6 and 7, respectively. The information for the compiling of these charts was secured chiefly from the regular and cooperative stations of the bureau, and was assembled first by the section directors. Chart 6 shows where there was moderately heavy hail, causing but slight damage, while Chart 7 indicates where heavy or destructive hail occurred. Falls of hail too light to cause damage were noted at hundreds, if not thousands, of stations, and no effort is made to indicate such falls. Hailstorms are often very local in character, and they differ so much in their occurrence from year to year that the distribution shown on the charts of one year should not be assumed to be the usual condition. Furthermore, in certain States, as Iowa, the charting of a large number of dots seems to result chiefly from the unusually large number of reporters to the thousand square miles.

For the central and eastern portions of the country the havoc of the hailstorms of 1929 appears to have been less than the losses which hail occasioned in 1928, the majority of the more important crop-producing States reporting fewer destructive storms, particularly after the end of June, than had been reported in the corresponding months of 1928.

During the afternoon of May 1, a hailstorm advancing eastward across southern Illinois caused losses amounting to about half a million dollars, the path being so long and so accurately known that it is indicated on Chart 7 by a line, instead of one or several dots. On May 25 another hailstorm did vast damage in an area apparently of more limited extent, in Texas, near Cuthbert.

A series of intense hailstorms on June 11 visited South Dakota, mainly the southeastern portion, Iowa, principally the northern part, and Kansas, the aggregate damage apparently exceeding a million dollars in the three States. Two days later, Pratt County, Kans., had a devastating hailstorm which caused about half a million dollars' worth of damage.

A long path in the north-central portion of North Carolina on June 15 is represented on Chart 7 by a line. Several counties suffered considerable losses from this storm, but one county, Caswell, apparently experienced a greater loss than the others together. On June 18 a decidedly destructive hailstorm was felt near Geneva, Nebr., the damage aggregating about half a million dollars.

In the southwestern portion of Kansas there were great hail losses on July 7.

For the northeastern portion of the country the hailstorms of August 1 were considerably the most serious of the year, central Connecticut suffering to the extent of a million dollars, while northern New Jersey and the central and eastern portions of Massachusetts likewise experienced severe losses. On August 13 southern Wisconsin suffered hail losses approaching a million dollars in the aggregate.

Charts 6 and 7 contain no dots for hail which fell before April 1 or after September 30. At those times but few portions of the country have crops in such stages of development that marked damage by hail is possible. However, during March, 1929, hail fell intensely in several portions of central and southern Ohio, causing much damage to greenhouses and to crops grown under glass. On October 3 the extreme southwestern portion of Michigan suffered considerable hail losses.

In Alaska and the Virgin Islands no falls of hail at all were reported, while in Porto Rico and Hawaii there were but a very few falls, not one of them being of any consequence.

The township assessors of Iowa continued the practice of canvassing the counties for estimates of damage by hail, and the aggregate of the 1929 hail losses reported to them was $3,541,179. This amount is but little more than half of the like sum found for 1928, and is considerably less than the average yearly amount for the period of years during which such computations have been made. In Montana a figure of a different sort has been reported, the total amount of the hail losses paid; this figure for 1929 is approximately four-fifths of the amount of such losses paid for 1928.

In Michigan it has been thought desirable to estimate the total hail losses of 1929 from the amount of claims paid and the proportion which the number of farms carrying hail insurance bears to the total number of farms. As a result, it is judged that the aggregate hail loss in Michigan during 1929 was of the order of half a million dollars.

LOSSES FROM WINDSTORMS, 1929

For the fourteenth consecutive year statistics have been collected, chiefly through the field-service officials of the bureau, of the losses of property and of life due to all severe winds that are judged not to have been tornadoes. The results are set forth in the accompanying table, the amounts stated being merely estimates of the damage; but in many cases it was not feasible to secure even a rough estimate, so a reference figure is substituted, though in most cases these references stand for comparatively small losses.

Deaths and fire losses caused by lightning are not included in this table, nor are havoc and loss of life due to true floods, even though high winds occurred as a feature of the electrical storm or with the intense rainfall. Whenever hail or beating rain or both came with the strong wind, or, in the colder months, sleet or glaze or heavy snow, to aid in causing damage, an effort is made to estimate the share of the total loss which was due to wind. Statements to the effect that automobile accidents were caused by a high wind are seldom accepted to justify inclusion of deaths or damage resulting, unless details can be reviewed.

For 1929 the deaths reported are fewer than are shown for many recent years, and the property losses, in the aggregate, are less than were found for 1928 and some other years. These gratifying results are largely due to the fact that neither of the hurricanes that reached the shores of the United States from the waters lying to the southeastward was of such intensity or took

such a course as to cause losses of the order of those that resulted from many of the hurricanes of other years.

During January, 1929, notable wind losses occurred in Kentucky and in portions of the States to westward and northward on the 18th. On March 6 and 7 strong winds were felt in many States, and the estimates of losses furnished are especially large for Michigan and Maryland. On May 2, apart from the intense damage within the tornado paths, there was widespread wind injury in several Eastern, Ohio Valley, and Lake States, the harm to young cotton and corn plants in South Carolina being very large, when the whole State is considered. June brought four scattered small-area storms that caused heavy losses, several southern Minnesota counties being affected on the 11th, while a limited part of northern Utah suffered on the 16th. In Nebraska, many counties of the southeastern portion suffered from one or more strong windstorms on the 19th. A comparatively narrow strip in Texas extending from Matagorda Bay toward the west-northwest, to San Antonio and farther, was affected by the high winds of the earlier hurricane, on June 28.

It was during the closing week of September that the later hurricane of 1929 affected Florida, chiefly the far southern portion, but its progress was slow and in the States to northeastward of Florida the storm winds usually did not arrive till after the month of October had begun. The final decade of October brought two severe storms to the region of the Great Lakes, the shores of Lake Michigan being greatly affected by the winds and the waves and high water which resulted. At these times at least 56 lives were lost by foundering of vessels in Lake Michigan, far from shore, and a gale early in September had led to the sinking of a vessel on the same lake with loss of all 25 men on board. These deaths do not appear in the table, where every numerical item must be listed in some State.

The months of February, November, and December seem to have included very few destructive winds of importance, and July apparently brought far fewer local destructive windstorms than in an average year.

Losses from windstorms, other than tornadoes, by months and sections, 1929

[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	300		[1] 7,000	[1] 100	(2)		(2)		7,000	3,000			[1] 17,400	1
Alaska		5,000									200,000		205,000	
Arizona								15,300	500				15,800	
Arkansas	(2)		(2)										(2)	
California														
Colorado						(2)							(2)	
Florida	500		5,000	[1] 6,500	800	1,500		(2)	[1] 2,291,000	[1] 35,000	(2)	(2)	[1] 2,340,300	3
Georgia			5,000		(2)		(2)			(2)			[1] 5,000	
Hawaii														
Idaho														
Illinois	[1] 36,000		[1] 32,400	[1] 200	[1] 10,500	[1] 45,200	(2)	(2)		[1] 1,800,000			[1] 1,922,300	1
Indiana	10,000		[1] 1,500	600	[1] 6,100	[1] 221,600	(2)			3,000,000			[1] 3,239,800	
Iowa			136,000	19,000	13,500	366,000	255,200	509,700	41,000		10,000		1,350,400	1
Kansas				32,000		256,200	1,000	200					289,400	
Kentucky	650,000	6,000	30,000	[1] 35,000	[1] 31,000	[1] 10,000	(2)		(2)		3,000		[1] 765,000	6
Louisiana			100,000	[1] 43,000		5,100							[1] 148,100	
Maryland-Delaware			750,000	(2)	(2)	(2)		[1] 3,500		(2)			[1] 753,500	
Michigan	(2)		500,000	[1] 235,000	[1] 75,000	(2)	(2)	(2)		[1] 225,000		3,000	[1] 1,038,000	7
Minnesota						[1] 500,000	[1] 6,000						[1] 506,000	
Mississippi	(2)			(2)	(2)		(2)						(2)	1
Missouri			6,000	(2)	(2)	9,000	400	(2)					[1] 15,400	
Montana			(2)		800	[1] 4,500				(2)			[1] 5,300	
Nebraska				3,000		550,500							553,500	1
Nevada			100	100	600				200				1,000	
New England	5,000			(2)	[1] 2,000	(2)				10,000			[1] 7,000	2
New Jersey				[1] 450,000		11,000		(2)					[1] 471,000	1
New Mexico					(2)	[1] 7,500	(2)						[1] 7,500	
New York	(2)		50,000	[1] 400,000		10,000							[1] 460,000	3
North Carolina			20,000		(2)								[1] 20,000	
North Dakota					(2)		(2)	30,000					[1] 30,000	
Ohio	120,000		250,000	92,000	(2)	12,000	6,000	10,000					[1] 490,000	2
Oklahoma					1,200	[1] 10,000			[1] 150,000				[1] 161,200	
Oregon	(2)		(2)										(2)	
Pennsylvania	(2)		(2)	[1] 6,000	(2)	[1] 65,000	(2)	[1] 60,000	20,000	[1] 25,000			[1] 176,000	2
Porto Rico														
South Carolina			4,000	3,200	900,500		7,000			600,000			1,514,700	
South Dakota					2,000	240,000	34,000	20,800					296,800	
Tennessee		25,000	30,000	(2)	(2)		(2)					(2)	[1] 55,000	1
Texas			50,000	[1] 151,500	[1] 218,000	[1] 993,000		(2)	[1] 54,000	[1] 5,000			[1] 1,471,500	7
Utah						700,000							700,000	
Virginia			100,000		(2)	(2)			(2)				[1] 100,000	
Virgin Islands												(2)		
Washington	(2)		4,000				6,000	(2)					[1] 10,000	3
West Virginia	(2)		(2)	[1] 40,000	(2)		(2)						[1] 40,000	2
Wisconsin	2,000		[1] 32,000	(2)	30,000	[1] 63,000	[1] 14,000	11,700		[1] 1,000,000			[1] 1,152,700	2
Wyoming														

[1] Losses not readily estimated in addition to amount stated.

[2] Losses occurred; no estimate secured.

Annual summary, climatological data for Canadian stations, 1929

Station	Pressure, inches			Temperature, degrees Fahrenheit						Precipitation, inches		
	Station, reduced to mean of 24 hours	Sea level, reduced to mean of 24 hours	Departure from normal	Mean maximum + mean minimum ÷ 2	Departure from normal	Mean maximum	Mean minimum	Highest	Lowest	Total	Departure from normal	Total snowfall
Fogo, Newfoundland				36.4		42.5	30.2	79	−8			
Cape Race, Newfoundland				39.5		46.7	32.3	77	0	52.77		56.4
Burin, Newfoundland				39.3		44.8	33.8	76	4	52.70		50.2
Port aux Basques, Newfoundland				38.0		43.5	32.6	74	0	59.54		180.5
Sydney, Nova Scotia	29.89	29.94	0.00	42.5	+1.2	50.8	34.1	86	−10	45.69	−4.59	95.5
Halifax, Nova Scotia	29.87	29.98	+.01	44.1	+1.3	52.8	35.5	87	−6	48.90	−8.13	44.7
Yarmouth, Nova Scotia	29.84	29.91	−.07	43.9	+0.7	50.9	37.0	80	4	52.29	+3.56	128.5
St. John, New Brunswick				41.5		48.9	34.1	84	−12	43.85		87.9
Charlottetown, Prince Edward Island	29.84	29.88	−.06	41.9	+0.9	48.7	35.1	82	−12	36.64	−4.98	125.4
Chatham, New Brunswick	29.81	29.84	−.10	38.9	+0.2	48.9	28.8	90	−27	32.12	−9.17	69.4
Harrington Harbor, Quebec				31.2		37.6	24.7	68	−22			
Anticosti (Southwest Point), Quebec				33.9		39.0	28.8	71	−15	28.34		84.8
Fame Point, Quebec				35.3		41.1	29.6	80	−14	46.13		248.0
Father Point, Quebec	29.88	29.90	−.03	35.0	+0.2	42.4	27.5	83	−17	41.17	+8.18	165.4
Quebec, Quebec	29.64	29.97	−.01	39.0	+0.8	46.3	31.8	86	−22	46.79	+5.07	134.2
Doucet, Quebec				30.7		42.4	19.0	89	−64	35.62		113.0
St. Hubert, Quebec				41.1		50.3	32.0	92	−22	43.82		106.4
Montreal, Quebec	29.74	29.95	−.04	43.0	+1.5	50.6	35.4	92	−15	50.05	+9.06	123.6
Ottawa, Ontario	29.71	29.98	−.02	42.6	+2.0	52.2	33.0	97	−21	37.01	+4.41	101.6
Kingston, Ontario	29.68	30.00	−.01	43.9	+0.8	50.8	37.0	83	−10	29.87	−2.94	41.7
Toronto, Ontario	29.58	29.99	−.03	46.0	+1.8	54.0	38.0	94	−3	37.00	+3.28	54.4
London, Ontario				45.3		54.8	35.7	94	−20	49.66		104.8
Southampton, Ontario	29.27	30.00	−.01	42.0	−0.4	50.2	33.8	90	−7	43.61	+9.40	141.0
Parry Sound, Ontario	29.28	29.98	−.02	40.4	+0.2	48.7	32.0	90	−22	41.04	+2.77	179.5
Cochrane, Ontario				31.4		40.5	22.2	90	−40	29.69		94.5
White River, Ontario	28.62	29.97	−.01	29.9	−2.2	42.0	17.8	87	−50	27.49	+2.70	85.7
Port Arthur, Ontario	29.28	30.00	.00	35.6	+1.2	44.3	26.8	91	−30	24.44	−0.32	59.2
Winnipeg, Manitoba	29.16	30.01	+.01	35.0	+1.9	44.8	25.2	100	−30	14.32	−6.66	43.8
Minnedosa, Manitoba	28.14	29.99	−.01	32.5	+0.9	43.6	21.4	96	−40	10.76	−5.69	46.5
The Pas, Manitoba				30.0		40.6	19.3	89	−38	11.41		40.9
Qu'Appelle, Saskatchewan	27.70	29.99	+.01	33.9	+0.6	44.5	23.2	97	−38	12.05	−4.03	68.0
Moose Jaw, Saskatchewan				37.5		49.9	25.1	102	−40	10.08		51.5
Swift Current, Saskatchewan	27.40	29.96	−.01	38.0	+0.5	50.9	25.2	102	−45	14.86	−0.61	59.0
Medicine Hat, Alberta	27.63	29.91	−.05	41.7	+1.4	53.7	29.7	102	−43	9.32	−4.48	39.5
Calgary, Alberta	26.37	29.98	+.05	38.5	+1.3	51.2	25.8	93	−45	14.46	−0.41	67.1
Banff, Alberta	25.35	29.98	+.05	35.2	+0.5	46.8	23.6	90	−50	17.21	−4.70	94.7
Prince Albert, Saskatchewan	28.41	30.02	+.04	32.4	+1.9	43.6	21.2	93	−50	14.85	−0.06	55.7
Battleford, Saskatchewan	28.22	29.99	+.02	34.9	+2.2	46.9	22.9	95	−45	9.82	−4.11	25.4
Edmonton, Alberta	27.62	29.93	.00	36.3	+0.7	47.4	25.2	88	−49	15.12	−0.71	45.4
Kamloops, British Columbia	28.74	30.05	+.12	45.2	−1.9	54.4	36.0	96	−22	9.89	−1.74	29.4
Vancouver, British Columbia				49.5		57.1	41.9	86	7	37.82		42.0
Victoria, British Columbia	29.82	30.08	+.08	49.4	+0.8	55.3	43.5	84	14	17.29	−20.85	14.7
Estevan Point, British Columbia				46.5		53.0	40.1	72	12	73.95		28.2
Prince Rupert, British Columbia				45.8		51.4	40.2	84	8	82.35		39.1
Atlin, British Columbia				34.8		42.4	27.3	82	−26	9.49		42.2
Dawson, Yukon				24.6		34.3	15.0	83	−57	15.72		72.9
Mayo Landing, Yukon				26.2		36.6	15.9	85	−58	11.78		51.6
Aklavik, Mackenzie				17.2		25.8	8.6		−50	15.03		78.5
Prospect Point, Bermuda	30.02	30.18	+.09	71.4	+1.7	77.2	65.7	90	44	59.57	−2.34	0.0

CHART 1

DEPARTURE FROM NORMAL TEMPERATURE, IN DEGREES FAHRENHEIT, FOR THE CROP SEASON OF 1929, 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

TOTAL PRECIPITATION, INCHES, FOR THE CROP SEASON OF 1929, MARCH 1 TO SEPTEMBER 30

DEPARTURE FROM NORMAL PRECIPITATION FOR THE CROP SEASON OF 1929, 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

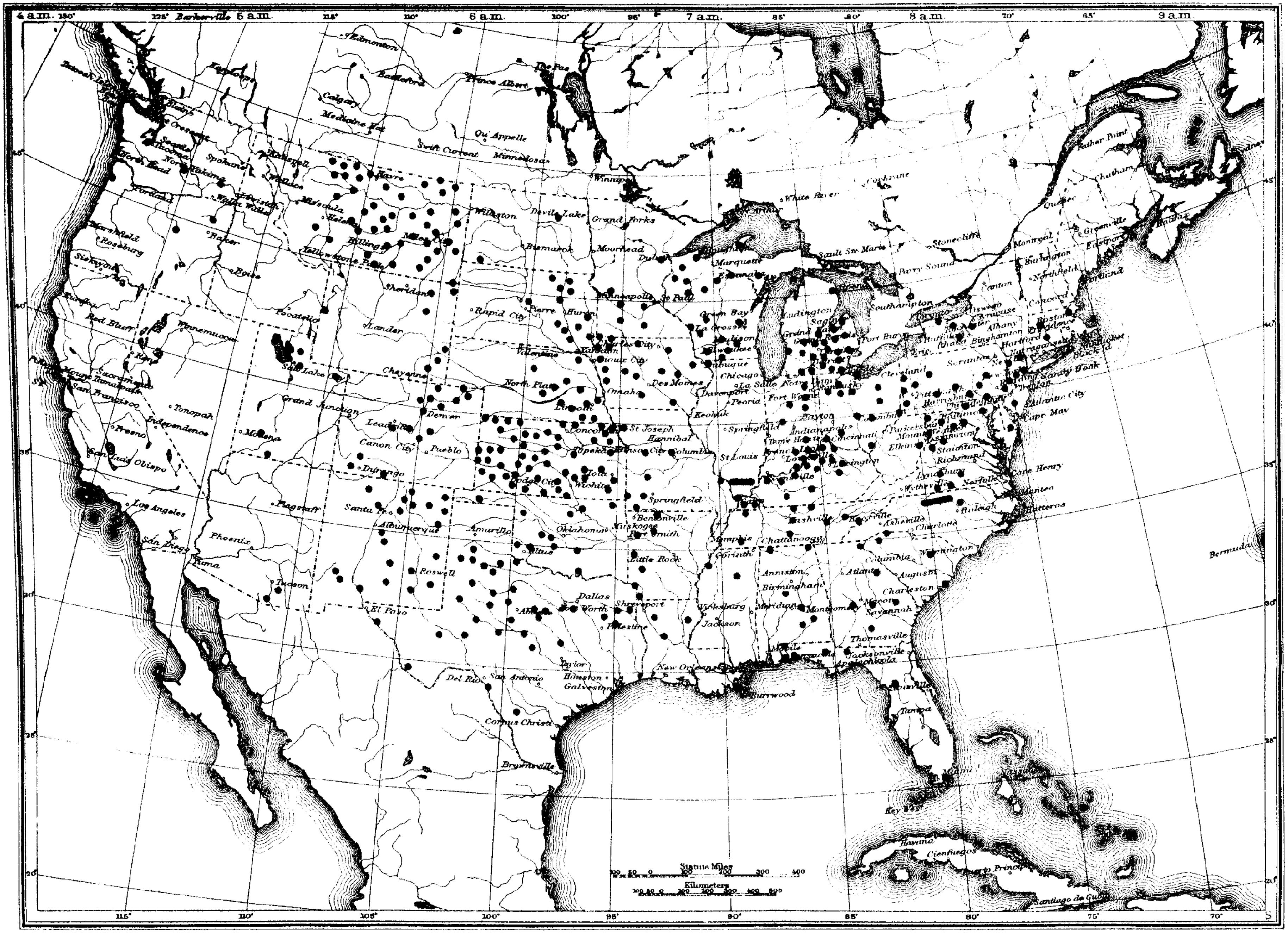
TOTAL PRECIPITATION, INCHES, FOR THE YEAR 1929

OCCURRENCE OF TORNADOES DURING THE YEAR 1929

The arrows show the location of tornado paths, and point in the direction of advance

OCCURRENCE OF MODERATELY HEAVY HAIL, DOING SLIGHT DAMAGE ONLY, FOR THE WARM SEASON OF 1929, APRIL 1 TO SEPTEMBER 30

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



OCCURRENCE OF HEAVY HAIL, DOING MATERIAL DAMAGE TO CROPS AND OTHER PROPERTY, FOR THE WARM SEASON OF 1929, APRIL 1 TO SEPTEMBER 30
The dots and lines show the localities where heavy hail fell, as reported by observers of the Weather Bureau and others

LIST OF OBSERVING STATIONS

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

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

Changes in the elevations of other instruments during 1929 are shown by the figures immediately below, and the dates of such changes are given under appropriate heading.

The significance of the boldface letter or letters following the name of station is as follows:

P = continuous records of pressure (on December 31, 1929);
T = continuous records of temperature (on December 31, 1929);
W = continuous records of wind (direction and velocity) (on December 31, 1929);
V = continuous records of wind (velocity only) (on December 31, 1929);
R = continuous records of rainfall (on December 31, 1929);
S = continuous records of sunshine (on December 31, 1929).

Summary of stations in operation during the year

Taking two observations daily (all elements)	174
Taking one observation daily (all elements)	32
Taking two observations daily (temperature, rain, wind, and weather)	40
Taking one observation daily (temperature, rain, wind, and weather)	32
Taking one observation daily (climatological and cotton)	1
Taking one observation daily (meteorological and river)	1
Taking one observation daily (meteorological and storm warning)	4
Taking one observation daily (cotton)	122
Taking one observation daily (cotton and cattle)	11
Taking one observation daily (sugar and rice)	5
Taking one observation daily (cotton and river)	35
Taking one observation daily (cotton and rainfall)	56
Taking one observation daily (river)	616
Taking one observation daily (rainfall)	312
Taking one observation daily (river, rice, and fruit)	1
Taking one observation daily (sugar and rice and river)	2
Taking one observation daily (river and rice)	1
Taking one observation daily (corn and wheat)	136
Taking one observation daily (corn and wheat and river)	12
Taking one observation daily (corn and wheat and rainfall)	50
Taking one observation daily (corn and wheat, rainfall, and airway)	2
Taking one observation daily (corn and wheat and fruit)	1
Taking one observation daily (corn and wheat, fruit and rainfall)	1
Taking one observation daily (cranberry)	11
Taking one observation daily (fruit)	18
Taking one observation daily (fruit and river)	1
Taking one observation daily (fruit and rainfall)	1
Taking one observation daily (fruit and cotton)	2
Taking one observation daily (cattle)	34
Taking one observation daily (cattle and snowfall)	11
Taking one observation daily (tobacco)	5
Taking one observation daily (alfalfa and cattle)	1
Snowfall	107
Snowfall and evaporation	3
Airway	200
Airway and snowfall	1
Airway and river	2
Vessel	178
Storm warning	134
Storm warning and airway	3
Total paid stations	2,358
Cooperative stations (about)	[1] 4,500
Grand total	6,858

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

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

Station	Latitude	Longitude	Local meridian time faster or slower than 75th meridian	Elevation Dec. 31, 1929				Observations began	Dates of changes in elevation during 1929
				Barometer above sea	Thermometer above ground	Rain gage above ground	Anemometer above ground		
	° ′	° ′	h. m.	Feet	Feet	Feet	Feet		
Abilene, P T W R S	32 23	99 40	1 39 S.	1,738	10	3	52	Sept. 14, 1885	
Albany, P T W R S	42 39	73 45	05 F.	97	107	100	115	Dec. 22, 1873	
Alpena, P T W R S	45 05	83 30	34 S.	609	13	4	92	Sept. 22, 1873	
Amarillo, P T W R S	35 13	101 50	1 47 S.	3,676	10	3	49	Jan. 1, 1892	
Anniston, P T W R S	33 39	85 50	43 S.	741	9	3	57	Oct. 16, 1905	
Apalachicola, P T W R S	29 45	84 58	40 S.	36	42	32	49	July 21, 1913	
Asheville, P T W R S	35 36	82 32	30 S.	2,253	70	61	84	Aug. 22, 1902	
Atlanta, P T W R S	33 45	84 23	38 S.	1,173	190	182	216	Sept. 25, 1878	
Atlantic City, P T W R S	39 22	74 25	02 F.	52	37	33	172	Dec. 10, 1873	
Augusta, P T W R S	33 28	81 54	28 S.	182	62	54	77	Nov. 2, 1870	
Austin, P T W R S	30 16	97 44	1 31 S.	605	136	129	148	Oct. 15, 1926	
Baker, P T W R S	44 46	117 50	2 51 S.	3,471	48	40 44	53	July 9, 1889	Nov. 30, 1929
Baltimore, P T W R S	39 17	76 37	06 S.	123	100	90	215	Jan. 1, 1871	
Bellefonte, P T W S	40 54	77 43	11 S.	1,050	5	4	36	Sept. 1, 1928	
Bentonville, P T W R S[1]	36 22	94 12	1 17 S.	1,303	11	3	44	Mar. 16, 1906	
Binghamton, P T W R S	42 06	75 55	04 S.	871	10	3	84	Oct. 1, 1896	
Birmingham, P T W R S	33 32	86 50	47 S.	700	11	3	48	Sept. 14, 1895	
Bismarck, P T W R S	46 47	100 38	1 43 S.	1,674	8	3	57	Sept. 15, 1874	
Block Island, P T W R S	41 10	71 36	14 F.	26	11	3	46	Sept. 1, 1880	
Boise, P T W R S	43 37	116 13	2 45 S.	2,739	78	72	86	July 1, 1877	
Boston, P T W R S	42 21	71 04	16 F.	125	115 106	154 96	188 165	Nov. 1, 1870	June 7, 1929
Broken Arrow, P T W R S	36 02	95 49	1 23 S.	765	11	4	56	May 12, 1918	
Brownsville, P T W R S	26 00	97 26	1 30 S.	57	53 83	45 74	61 100	Nov. 18, 1875	Feb. 1, 1929
Buffalo, P T W R S	42 53	78 53	16 S.	767	247	238	280	Nov. 1, 1870	
Burlington, P T W R S	44 29	73 12	07 F.	403	11	3	48	Mar. 29, 1906	
Cairo, P T W R S	37 00	89 10	57 S.	358	87	80	93	June 1, 1871	
Canton, P T W R S	44 36	75 10	01 S.	448	10	4	61	July 1, 1906	
Cape Henry, P T W R S	36 56	76 00	04 S.	18	8	3	54	Dec. 15, 1873	
Charles City, P T W R S	43 04	92 38	1 11 S.	1,015	10	4	51	Nov. 1, 1904	
Charleston, P T W R S	32 47	79 56	20 S.	48	11	76	92	Jan. 5, 1871	
Charlotte, P T W R S	35 13	80 51	23 S.	779	55	47	62	Oct. 6, 1878	
Chattanooga, P T W R S	35 04	85 14	41 S.	762	190	167	215	Sept. 12, 1875	
Cheyenne, P T W R S	41 08	104 48	1 59 S.	6,088	84	75	101	Nov. 1, 1870	
Chicago, P T W R S[2]	41 47	87 35	50 S.	673	7	3	131	do	
Cincinnati, P T W R S	39 09	84 31	38 S.	627	11	3	51	do	
Cleveland, P T W R S	41 30	81 42	27 S.	762	190 267	165 264	201 337	do	June 27, 1929
Columbia, Mo., P T W R S	38 57	92 20	1 09 S.	784	6	3	84	Aug. 21, 1889	
Columbia, S. C., P T W R S	34 00	81 03	24 S.	351	41	32	57	June 5, 1887	
Columbus, P T W R S	39 58	83 00	32 S.	822	179	171	222	July 1, 1878	
Concord, P T W R S	43 12	71 32	14 F.	289	70	62	79	Nov. 1, 1902	
Concordia, P T W R S	39 35	97 41	1 31 S.	1,392	50	42	58	May 1, 1885	
Corpus Christi, P T W R S	27 49	97 25	1 30 S.	20	11	63	78	Feb. 1, 1887	
Dallas, P T W R S	32 46	96 47	1 27 S.	512	220	194	227	Oct. 15, 1913	
Davenport, P T W R S	41 30	90 38	1 03 S.	606	71	64	79	May 24, 1871	
Dayton, P T W R S	39 46	84 10	37 S.	899	137	132	173	July 10, 1911	
Del Rio, P T W R S	29 20	100 53	1 44 S.	944	64	56	71	Nov. 9, 1905	
Denver, P T W R S	39 45	105 00	2 00 S.	5,292	106	98	113	Nov. 19, 1871	
Des Moines, P T W R S	41 35	93 37	1 14 S.	861	84 5	76 3	97 99	July 29, 1877	Oct. 1, 1929
Detroit, P T W R S	42 20	83 03	32 S.	730	218	214	258	Nov. 1, 1870	
Devils Lake, P T W R S	48 07	98 52	1 35 S.	1,478	11	4	44	Dec. 1, 1904	
Dodge City, P T W R S	37 45	100 00	1 40 S.	2,509	11	3	51	Sept. 15, 1874	
Dubuque, P T W R S	42 30	90 44	1 03 S.	700	81	76	96	July 2, 1873	
Due West, P T W R S	34 21	82 22	29 S.	711	10	4	55	Oct. 12, 1920	
Duluth, P T W R S	46 47	92 06	1 08 S.	1,133	5	3	47	Nov. 1, 1870	
Eastport, P T W R S	44 54	66 59	32 F.	76	67	62	85	Apr. 1, 1873	
Elkins, P T W R S	38 53	79 49	19 S.	1,947	59	52	67	Jan. 1, 1899	
Ellendale, P T W R S	45 59	98 34	1 34 S.	1,457	10	3	56	Oct. 8, 1917	

[1] Summary for this station does not appear in Part III.
[2] Beginning Jan. 1, 1926, the official Chicago station is the one previously designated "Chicago University."

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

Station	Latitude	Longitude	Local meridian time faster or slower than 75th meridian	Elevation Dec. 31, 1929				Observations began	Dates of changes in elevation during 1929
				Barometer above sea	Thermometer above ground	Rain gage above ground	Anemometer above ground		
	° ′	° ′	h. m.	Feet	Feet	Feet	Feet		
El Paso, P T W R S	31 47	106 30	2 06 S.	3,778	152	145	175	Apr. 1, 1878	
Erie, P T W R S	42 07	80 05	20 S.	714	130	122	166	May 25, 1873	
Escanaba, P T W R S	45 48	87 05	48 S.	612	54	44	60	May 24, 1871	
Eureka, P T W R S	40 48	124 11	3 17 S.	62	73	65	89	Jan. 1, 1887	
Evansville, P T W R S	37 58	87 33	50 S.	431	76	74	116	Dec. 1, 1897	
Fairbanks, P [1]	64 52	147 39	4 51 S.	455	11	3	44	July 1, 1929	
Flagstaff, P T W S [1]	35 12	111 37	2 26 S.	6,907	10	3	59	Sept. 9, 1898	
Fort Smith, P T W R S	35 22	94 24	1 18 S.	457	79	72	94	Apr. 13, 1879	
Fort Wayne, P T W R S	41 05	85 10	41 S.	856	113	107	124	June 1, 1911	
Fort Worth, P T W R S	32 43	97 15	1 29 S.	670	106	51	114	Sept. 1, 1898	
Fresno, P T W R S	36 43	119 49	2 59 S.	327	89	82	98	Aug. 18, 1887	
Galveston, P T W R S	29 18	94 50	1 19 S.	54	106	98	114	Apr. 19, 1871	
Grand Haven, P T W R S	43 04	86 14	45 S.	632	54	49	89	May 24, 1871	
Grand Junction, P T W R S	39 04	108 34	2 14 S.	4,602	60	52	68	Jan. 1, 1899	
Grand Rapids, P T W R S	42 58	85 40	43 S.	707	70	70	87	July 1, 1903	
Green Bay, P T W R S	44 31	88 00	52 S.	617	109	101	141	Sept. 1, 1886	
Greensboro, P T W R S	36 05	79 57	20 S.	886	5	3	56	Nov. 1, 1928	
Greenville, P T W R S	34 50	82 24	30 S.	1,039	139	131	146	Oct. 6, 1917	
Groesbeck, P T W R S	31 30	96 28	1 26 S.	461	11	3	56	July 2, 1918	
Hannibal, P T W R S	39 41	91 20	1 05 S.	534	74	68	109	Apr. 16, 1892	
Harrisburg, P T W R S	40 16	76 52	07 S.	374	94	42	104	July 1, 1888	
Hartford, P T W R S	41 46	72 40	09 F.	159	122	116	-----	Oct. 7, 1904	
Hatteras, P T W R S	35 15	75 40	03 S.	11	11 5	4	50	Dec. 1, 1880	Feb. 7, 1928
Havre, P T W R S	48 34	109 40	2 19 S.	2,505	11	4	44	May 16, 1892	
Helena, P T W R S	46 34	112 04	2 28 S.	4,124	89	82	113	Apr. 1, 1880	
Honolulu, P T W R S	21 19	157 52	5 31 S.	38	86	68	100	Sept. 1, 1904	
Houghton, P T W R S	47 07	88 34	54 S.	668	64	57	99	Aug. 26, 1900	
Houston, P T W R S	29 47	95 24	1 22 S.	138	292	286	314	Sept. 16, 1909	
Huron, P T W R S	44 21	98 14	1 33 S.	1,306	59	53	74	July 1, 1881	
Independence, P T W R S [1]	36 48	118 12	2 53 S.	3,957	6	4	27	Dec. 1, 1894	
Indianapolis, P T W R S	39 46	86 10	45 S.	822	194	188	230	Feb. 10, 1871	
Iola, P T W R S	37 55	95 25	1 22 S.	984	11	3	50	Aug. 20, 1905	
Ithaca, P T W R S	42 27	76 29	06 S.	836	5	4	100	Oct. 1, 1899	
Jacksonville, P T W R S	30 20	81 39	27 S.	43	209	198	245	Sept. 11, 1871	
Juneau, P T W R S	58 18	134 24	3 58 S.	80	11	4	50	Jan. 5, 1917	
Kalispell, P T W R S	48 10	114 25	2 38 S.	2,973	48	40	56	May 3, 1899	
Kansas City, P T W R S	39 05	94 37	1 18 S.	963	161	141	181	Apr. 21, 1873	
Keokuk, P T W R S	40 22	91 26	1 06 S.	614	64	56	78	July 16, 1871	
Key West, P T W R S	24 33	81 48	27 S.	22	10	3	64	Nov. 1, 1870	
Knoxville, P T W R S	35 56	83 58	36 S.	995	102	96	111	Jan. 20, 1871	
La Crosse, P T W R S	43 49	91 15	1 05 S.	714	11	3	48	Oct. 15, 1872	
Lander, P T W R S	42 50	108 45	2 15 S.	5,372	60	54	68	Aug. 1, 1891	
Lansing, P T W R S	42 44	84 26	38 S.	878	6	3	49	May 1, 1910	
Lewiston, P T W R S	46 25	117 02	2 48 S.	757	40	32	48	Oct. 1, 1900	
Lexington, P T W R S	38 02	84 33	38 S.	989	193	187	230	Oct. 1, 1872	
Lincoln, P T W R S	40 49	96 45	1 27 S.	1,189	11	4	81	Aug. 8, 1894	
Little Rock, P T W R S	34 45	92 16	1 08 S.	357	136	129	153	Aug. 21, 1873	
Los Angeles, P T W R S	34 03	118 15	2 53 S.	338	159	151	191	July 1, 1879	
Louisville, P T W R S	38 15	85 45	43 S.	525	188	183	234	Sept. 11, 1871	
Ludington, P T W R S	43 57	86 27	46 S.	637	60	53	66	Sept. 12, 1912	
Lynchburg, P T W R S	37 25	79 09	17 S.	681	153	146	188	May 24, 1871	
Macon, P T W R S	32 50	83 38	35 S.	370	78	71	87	Apr. 8, 1899	
Madison, P T W R S	43 05	89 23	58 S.	974	70	62	78	Sept. 16, 1904	
Marquette, P T W R S	46 34	87 24	50 S.	734	77	70	111	May 11, 1871	
Medford, P T W	42 20	122 51	3 11 S.	1,425	4 29	67 25	80 58	Mar. 11, 1911	Nov. 1, 1929
Memphis, P T W R S	35 09	90 03	1 00 S.	399	76	69	97	Feb. 28, 1871	
Meridian, P T W R S	32 21	88 40	55 S.	375	87	64	95	Sept. 1, 1889	
Miami, P T W R S	25 48	80 12	21 S.	25	71 124	64 117	164 168	June 3, 1911	July 1, 1929
Miles City, P T W R S	46 25	105 49	2 03 S.	2,371	48	41	55	Oct. 1, 1891	
Milwaukee, P T W R S	43 02	87 54	52 S.	681	125	117	221	Nov. 1, 1870	

[1] Summary for this station does not appear in Part III.

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

Station	Latitude	Longitude	Local meridian time faster or slower than 75th meridian	Elevation Dec. 31, 1929				Observations began	Dates of changes in elevation during 1929
				Barometer above sea	Thermometer above ground	Rain gage above ground	Anemometer above ground		
	° ′	° ′	h. m.	*Feet*	*Feet*	*Feet*	*Feet*		
Minneapolis, P T W R S.	44 59	93 18	1 13 S.	918	102	92	208	Nov. 6, 1890	
Mobile, P T W R S.	30 41	88 02	52 S.	57	125	119	161	Nov. 7, 1870	
Modena, P T W R S.	37 48	113 54	2 36 S.	5, 473	10	2	43	Jan. 1, 1901	
Montgomery, P T W R S.	32 23	86 18	45 S.	223	100	71	112	Nov. 9, 1870	
Moorhead, P T W R S.	46 52	96 44	1 27 S.	940	50	43	58	Jan. 31, 1881	
Nantucket, P T W R S.	41 17	70 06	29 F.	12	14	4	90	Oct. 18, 1886	
Nashville, P T W R S.	36 10	86 47	47 S.	546	168	161	191	Nov. 1, 1870	
New Haven, P T W R S.	41 18	72 56	08 F.	106	74	68	153	Dec. 10, 1872	
New Orleans, P T W R S.	29 57	90 04	1 00 S.	53	76	71	84	Nov. 1, 1870	
New York, P T W R S.	40 43	74 00	04 F.	314	414	407	454	do	
Norfolk, P T W R S.	36 51	76 17	05 S.	91	170	178	205	Jan. 1, 1871	
Northfield, P T W R S.	44 10	72 41	09 F.	876	12	3	60	Mar. 1, 1887	
North Head, P T W R S.	46 16	124 04	3 16 S.	211	11	3	56	Aug. 1, 1902	
North Platte, P T W R S.	41 08	100 45	1 43 S.	2, 821	11	3	51	Sept. 18, 1874	
Oklahoma City, P T W R S.	35 26	97 33	1 30 S.	1, 214	10	3	47	Nov. 1, 1890	
Omaha, P T W R S.	41 16	95 56	1 24 S.	1, 105	115	107	122	Nov. 1, 1870	
Oswego, P T W R S.	43 29	76 35	06 S.	335	76	68	91	do	
Palestine, P T W R S.	31 45	95 40	1 23 S.	510	64	57	72	Dec. 3, 1881	
Parkersburg, P T W R S.	39 16	81 36	26 S.	637	77	68	82	July 1, 1888	
Pensacola, P T W R S.	30 25	87 13	49 S.	56	149	131	185	Oct. 27, 1879	
Peoria, P T W R S.	40 43	89 36	58 S.	609	11	4	45	Feb. 1, 1905	
Philadelphia, P T W R S.	39 57	75 09	01 S.	114	123	114	367	Jan. 1, 1871	
Phoenix, P T W R S.	33 28	112 00	2 28 S.	1, 108	10	56	82	Aug. 6, 1895	Jan. 2, 1929
Pierre, P T W R S.	44 22	100 21	1 41 S.	1, 572	70	81	107	July 1, 1891	
Pittsburgh, P T W R S.	40 26	80 00	20 S.	842	353	345	410	Nov. 1, 1870	
Pocatello, P T W R S.	42 52	112 29	2 30 S.	4, 477	60	52	68	July 1, 1899	
Port Angeles, P T W R S.	48 07	123 06	3 12 S.	29	8	3	53	Mar. 1, 1916	
Port Arthur, P T W R S.	29 52	93 55	1 16 S.	34	58	51	66	Feb. 1, 1917	
Port Huron, P T W R S.	43 00	82 26	30 S.	638	70	63	120	July 25, 1874	
Portland, Me., P T W R S.	43 39	70 15	19 F.	103	82	75	117	Jan. 15, 1871	
Portland, Oreg., P T W R S.	45 32	122 41	3 11 S.	153	68	63	106	Nov. 1, 1870	
Providence, P T W R S.	41 50	71 25	14 F.	160	215	211	251	Oct. 22, 1904	
Pueblo, P T W R S.	38 18	104 36	1 58 S.	4, 685	80	72	86	July 1, 1888	
Raleigh, P T W R S.	35 45	78 37	14 S.	376	103	94	110	Apr. 1, 1884	
Rapid City, P T W R S.	44 04	103 12	1 53 S.	3, 259	50	43	58	Jan. 24, 1881	
Reading, P T W R S.	40 20	75 58	04 S.	325	81	73	98	Dec. 1, 1912	
Red Bluff, P T W R S.	40 10	122 15	3 09 S.	330	5	3	58	July 1, 1877	
Reno, P T W R S.	39 32	119 49	2 59 S.	4, 532	74	67	81	Nov. 11, 1905	
Richmond, P T W R S.	37 32	77 27	10 S.	144	11	3	52	Oct. 5, 1897	
Rochester, P T W R S.	43 08	77 42	11 S.	523	86	77	102	Nov. 1, 1870	
Roseburg, P T W R S.	43 13	123 20	3 13 S.	510	75	60	99	July 15, 1877	
Roswell, P T W R S.	33 24	104 27	1 58 S.	3, 566	75	69	85	Dec. 20, 1904	
Royal Center, P T W R S.	40 53	86 29	46 S.	736	11	3	55	May 17, 1918	
Sacramento, P T W R S.	38 35	121 30	3 06 S.	69	106	100	117	July 1, 1877	
St. Joseph, P T W R S.	39 49	94 51	1 19 S.	967	11	3	49	Apr. 25, 1910	
St. Louis, P T W R S.	38 38	90 12	1 01 S.	568	265	258	303	Nov. 1, 1870	
St. Paul, P T W R S.	44 58	93 03	1 12 S.	837	236	228	261	do	
Salt Lake City, P T W R S.	40 46	111 54	2 28 S.	4, 360	163	156	203	Mar. 19, 1874	
San Antonio, P T W R S.	29 27	98 28	1 34 S.	693	119	112	132	Jan. 2, 1878	
San Diego, P T W R S.	32 43	117 10	2 49 S.	87	62	55	70	Nov. 1, 1871	
Sandusky, P T W R S.	41 25	82 40	31 S.	629	5	3	67	Aug. 2, 1877	
Sandy Hook, P T W R S.	40 28	74 01	04 F.	22	10	3	55	Nov. 1, 1914	
San Francisco, P T W R S.	37 48	122 26	3 10 S.	155	208	202	243	Feb. 2, 1871	
San Jose, P T W R S.	37 20	121 54	3 08 S.	141	12	3	110	Sept. 28, 1905	
San Juan, P T W R S.	18 29	66 07	36 F.	82	9	4	54	Nov. 1, 1898	
Santa Fe, P T W R S.	35 41	105 57	2 04 S.	7, 013	38	31	53	Nov. 20, 1871	
Sault Ste. Marie, P T W R S.	46 30	84 21	37 S.	614	11	3	52	Aug. 5, 1877	
Savannah, P T W R S.	32 05	81 05	24 S.	65	150	143	194	Jan. 1, 1871	

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

Station	Latitude	Longitude	Local meridian time faster or slower than 75th meridian	Elevation Dec. 31, 1929				Observations began	Dates of changes in elevation during 1929
				Barometer above sea	Thermometer above ground	Rain gage above ground	Anemometer above ground		
	° ′	° ′	h. m.	*Feet*	*Feet*	*Feet*	*Feet*		
Scranton, P T W R S	41 24	75 42	03 S.	805	111	102	119	Aug. 17, 1900	
Seattle, P T W R S	47 38	122 20	3 09 S.	125	215	209	250	May 1, 1893	
Sheridan, P T W R S	44 48	106 57	2 08 S.	3,790	10	3	47	Apr. 29, 1907	
Shreveport, P T W R S	32 30	93 40	1 15 S.	249	77	70	93	Sept. 3, 1871	
Sioux City, P T W R S	42 29	96 24	1 26 S.	1,135	94	86	164	Dec. 1, 1887	
Spokane, P T W R S	47 40	117 25	2 50 S.	1,929	101	94	110	Feb. 1, 1881	
Springfield, Ill., P T W R S	39 48	89 39	59 S.	636	154	148	191	July 1, 1879	
Springfield, Mo., P T W R S	37 12	93 18	1 13 S.	1,324	98	66	104	June 3, 1882	
Syracuse, P T W R S	43 02	76 10	05 S.	596	65	57	79	Aug. 22, 1902	
Tacoma, P T W R S	47 16	122 233	10 S.	194	172	165	201	May 1, 1897	
Tampa, P T W R S	27 57	82 27	30 S.	35	79	71	87	Mar. 13, 1890	
Tatoosh Island, P T W R S	48 23	124 44	3 19 S.	86	9	4	53	Nov. 22, 1902	
Taylor, P T W R S	30 35	97 20	1 29 S.	583	55	48	63	Nov. 13, 1901	
Terre Haute, P T W R S	39 29	87 24	50 S.	575	96	86	129	July 20, 1912	
Thomasville, P T W R S	30 48	83 58	36 S.	273	49	41	58	Aug. 20, 1905	
Toledo, P T W R S	41 40	83 34	34 S.	628	208	201	243	Nov. 1, 1870	
Topeka, P T W R S	39 03	95 41	1 23 S.	987	92	83	107	June 1, 1887	
Trenton, P T W R S	40 13	74 46	01 F.	190	159	105	183	Apr. 1, 1913	
Valentine, P T W R S	42 50	100 32	1 42 S.	2,598	47	36	54	Sept. 1, 1885	
Vicksburg, P T W R S	32 22	90 53	1 04 S.	247	65	58	73	Sept. 10, 1871	
Walla Walla, P T W R S	46 02	118 20	2 53 S.	991	57	50	65	Dec. 1, 1885	
Washington, P T W R S	38 54	77 03	08 S.	112	62	42	85	Nov. 1, 1870	
Wausau, P T W R S	44 57	89 35	58 S.	1,247	4	4	62	June 18, 1915	
Wichita, P T W R S	37 41	97 20	1 29 S.	1,358	139	132	158	July 1, 1888	
Williston, P T W R S	48 09	103 35	1 54 S.	1,878	41	33	48	Nov. 24, 1893	
Wilmington, P T W R S	34 14	77 57	12 S.	78	81	76	91	Jan. 1, 1871	
Winnemucca, P T W R S	40 58	117 43	2 51 S.	4,344	18	6	56	July 1, 1877	
Wytheville, P T W R S	36 56	81 05	24 S.	2,304	49	40	55	Nov. 10, 1902	
Yakima, P T W R S	46 36	120 30	3 02 S.	1,076	58	52	67	Nov. 15, 1928	
Yankton, P T W R S	42 54	97 28	1 30 S.	1,233	49	42	57	Apr. 1, 1873	
Yellowstone Park, P T W R S	44 58	110 422	23 S.	6,241	11	4	48	Dec. 2, 1903	
Yuma, P T W S	32 45	114 362	38 S.	141	9	2	54	Oct. 4, 1875	
ALASKAN STATIONS									
Anchorage [1]	61 13	149 52	4 59 S.	118	4	3	31	July 1, 1929	
Barrow [1]	71 23	156 17	5 25 S.	13	4	3	16	Sept. 28, 1920	Mar. 1, 1929
						5	34		
Bethel [1]	61 43	161 47	5 47 S.	38	6	4	-----	Aug. 22, 1923	
Dutch Harbor	53 55	166 30	6 06 S.	13	4	3	-----	Aug. 24, 1911	
Eagle	64 46	141 12	4 25 S.	815	4	3	-----	Aug. 20, 1899	
Fairbanks, P [1]	64 52	147 39	4 51 S.	455	11	3	44	July 1, 1929	
Fort Yukon [1]	66 34	145 18	4 41 S.	-------	5	4	-----	Sept. 18, 1923	
Juneau, P T W R S	58 18	134 24	3 58 S.	80	11	4	50	Jan. 5, 1917	
Ketchikan [1]	55 20	131 37	3 46 S.	20	43	42	59	Oct. 17, 1929	
Kodiak	57 47	152 22	5 09 S.	15	6	3	-----	Oct. 3, 1915	
Nome	64 30	165 24	6 02 S.	22	4	5	34	Apr. 1, 1907	
Noorvik [1]	66 50	161 00	5 44 S.	68	-----	4	-----	Oct. 16, 1917	
St. Paul Island [1]	57 15	170 10	6 21 S.	20	4	4	26	Sept. 12, 1917	
Tanana	65 10	152 06	5 08 S.	228	4	3	-----	Sept. 8, 1909	

[1] Summary for this station does not appear in Part III.

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

WEST INDIAN STATIONS

Station	Latitude	Longitude	Local meridian time faster or slower than 75th meridian	Elevation Dec. 31, 1929				Observations began	Dates of changes in elevation during 1929
				Barometer above sea	Thermometer above ground	Rain gage above ground	Anemometer above ground		
Barbados [3]	° ′	° ′	h. m.	Feet	Feet	Feet	Feet		
Bridgetown [1]	13 04	59 37	1 02 F.	30	6	3	30	Aug. 15, 1898	
British Honduras									
Belize [1]	17 30	88 12	53 S.	17	5	3	46	Dec. 1, 1916	
Cuba									
Guane [1]								June 15, 1918	
Santa Cruz del Sur [1]	20 48	78 27	14 S.					July 3, 1918	
Dominica [3]									
Roseau [1]	15 17	61 23	54 F.	25				Oct. 20, 1898	
Haiti [3]									
Port au Prince [1]	18 35	72 18	11 F.	124	16			Mar. 15, 1917	
Honduras [3]									
Tela [1]	15 45	87 28	50 S.	13	6		139	Dec. 1, 1922	
Isle of Pines									
Nueva Gerona [1]	21 54	82 36	30 S.					Sept. 27, 1918	
Jamaica [3]									
Kingston [1]	17 58	76 48	07 S.	24	48	51	63	Aug. 16, 1898	
Nicaragua [3]									
Bluefields, V [1]	12 00	83 45	35 S.	17	4	3	26	Jan. 1, 1917	
Cape Gracias [1]	15 00	83 09	33 S.	10		3	34	Sept. 1, 1927	
Porto Rico									
San Juan, P T W R S	18 29	66 07	36 F.	82	9	4	54	Nov. 1, 1898	
St. Kitts [3]									
Basseterre [1]	17 18	62 43	49 F.	30				Aug. 25, 1898	
St. Lucia [3]									
Castries, V [1]	13 50	60 55	56 F.	319	6	3	92	Aug. 16, 1917	
Santo Domingo [3]									
Puerto Plata, V [1]	19 49	70 43	17 F.	27	23	20	24	Sept. 16, 1917	
Santo Domingo [1]	18 28	69 53	20 F.	57	40	45	60	Nov. 1, 1898	
Trinidad [3]									
Port of Spain [1]	10 35	61 30	54 F.	40				Aug. 7, 1898	
Turks Island [3]									
Grand Turk, P V [1]	21 21	71 07	16 F.	11	6	2	20	July 1, 1900	
Virgin Islands									
St. Thomas, V [1]	18 13	64 29	42 F.	27	17	18	21	July 1, 1917	

[1] Summary for this station does not appear in Part III.

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

TABLE II.—*Changes in Weather Bureau stations during 1929*

ESTABLISHED

Station	Date established
FIRST ORDER	
Bakersfield, Calif	Oct. 1
Fairbanks, Alaska	July 1
SECOND ORDER	
Mile Seven, Alaska	June 8
Norden, Calif	Dec. 18
AIRWAY	
Alexandria, Va	May 16
Anchorage, Alaska	July 1
Anderson's Ranch, Utah	Sept. 15
Ashtabula, Ohio	May 1
Auburn, Calif	July 1
Baker, Oreg	May 1
Barrytown, N. Y	Mar. 14
Barstow, Calif	July 1
Battle Mountain, Nev	Oct. 16
Beaumont, Calif	May 1
Beaumont, Tex	Feb. 1
Bliss, Idaho	Nov. 16
Bloomington, Ill	Dec. 1
Boulder, Mont	May 1
Brigham, Utah	Jan. 15
Buffalo, N. Y	May 1
Burley, Idaho	June 1
Burmeister, Utah	Jan. 15
Calhoun, Ga	Feb. 1
Cartersville, Ga	Do.
Cascade Locks, Oreg	Oct. 2
Chattanooga, Tenn	Feb. 1
Cheney, Wash	Nov. 25
Coalinga, Calif	July 1
College Park, Md	May 16
College Station, Tex	July 25
Columbia, Mo	Oct. 1
Corning, Calif	Jan. 1
Corpus Christi, Tex	June 7
Council Crest, Portland, Oreg	Feb. 16
Crooked Creek, Alaska	Oct. 11
Crown Point, Oreg	Oct. 2
Cutler, Utah	Jan. 15
Dallas (Love Field), Tex	July 6
Dana Point, Calif	Jan. 2
Danville, Ill	May 10
Devils Slide, Utah	Jan. 15
Dundalk (Logan Field), Md	Oct. 23
Dubois, Idaho	Dec. 1
Dunkirk, N. Y	Feb. 16
Echo Summit, Calif	Nov. 25
Elk Park, Mont	May 1
Emporia, Kans	Nov. 12
Erie, Pa	Oct. 16
Eureka, Utah	Jan. 15
Evansville, Ind	Feb. 1
Fairfield, Iowa	Apr. 22
Fairview, Pa	May 1
Fernley, Nev	Dec. 1
Frostburg, Md	Do.
Gates of the Mountain, Mont	May 1
Goodland, Kans	July 20
Grand Island, Nebr	Jan. 2
Greenville, Ky	Feb. 6
Hamer, Idaho	May 1
Hazel Creek, Calif	Nov. 21
Hilt, Calif	May 15
Hollister, Calif	July 1
Holter Dam, Mont	May 1

Station	Date established
AIRWAY—continued	
Hood River, Oreg	Oct. 2
Jelloway, Ohio	June 1
Kankakee, Ill	Feb. 4
Ketchikan, Alaska	Oct. 17
King City, Calif	July 1
Lander, Wyo	Do.
La Porte, Ind	Dec. 1
Leamington, Utah	Aug. 1
Lehi, Utah	Jan. 15
Los Banos, Calif	July 1
Lost Hills, Calif	Do.
Lovelock, Nev	Oct. 16
Lynndyl, Utah	Mar. 15
Macon, Ga	July 1
Madison, Wis	Aug. 1
Malad, Idaho	May 1
March Field, Calif	July 1
Marshall, Mo	Oct. 1
Mendota, Calif	July 1
Milford, Utah	Jan. 15
Milford, Va	Sept. 1
Monida, Idaho	May 1
Mountain Home, Idaho	Nov. 16
Mount Hamilton, Calif	July 1
Mount Wilson, Calif	Oct. 1
Murfreesboro, Tenn	Feb. 7
Nashville, Tenn	Jan. 29
Nephi, Utah	Nov. 1
New Florence, Mo	Oct. 1
North Stonington, Conn	Apr. 20
Oasis, Nev	Oct. 16
Ontario, Calif	July 1
Orlando, Fla	Apr. 1
Palmdale, Calif	July 1
Palm Springs, Calif	Do.
Palo Alto, Calif	Do.
Peekskill, N. Y	Mar. 18
Port Edwards, Wis	July 1
Princeton, Ind	Mar. 14
Provo, Utah	Nov. 1
Rochester, N. Y	May 15
Rockville, Md	July 16
Sacramento, (Mather Field), Calif	Aug. 20
Salem, Oreg	Sept. 1
Salt Lake City, Utah	Jan. 15
San Bruno (Mills Field), Calif	Dec. 1
San Jose, Calif	July 1
San Luis Obispo, Calif	Do.
San Pablo, Calif	Do.
Santa Barbara, Calif	Do.
Sattley, Calif	Nov. 25
Selma, Ala	Dec. 1
Sewanee, Tenn	Feb. 8
South Bend, Ind	Dec. 1
Spickard, Mo	Sept. 1
Sprague, Wash	Nov. 25
Springfield, Ohio	May 1
Stockton, Utah	Jan. 15
Syracuse, N. Y	May 1
Tarkio, Mo	Oct. 1
Tehachapi, Calif	July 1
Terre Haute, Ind	Jan. 29
The Dalles, Oreg	Oct. 3
Tintic, Utah	Jan. 15
Tonopah, Nev	July 15
Topliff, Utah	Nov. 1
Tracy, Calif	July 1
Utica, N. Y	June 5

TABLE II.—*Changes in Weather Bureau stations during 1929*—Continued

Station	Date established
AIRWAY—continued	
Vandalia, Ohio	Feb. 25
Vincennes, Ind	Feb. 6
Waco, Tex	Mar. 11
Waterman, Ill	Apr. 1
Weber, Utah	Jan. 15
Wells, Nev	Oct. 16
Wendover, Utah	Jan. 15
Whitehall, Mont	May 1
Whitehall, N. Y	Feb. 19
Wolf Creek, Mont	May 1
York, Nebr	Sept. 1
Youngstown, Ohio	Apr. 1
AIRWAY AND CORN AND WHEAT AND RAINFALL	
Mount Vernon, Ill	Mar. 12
AIRWAY AND CORN AND WHEAT AND RIVER	
Vincennes, Ind	July 1
CATTLE	
Heber, Utah	Jan. 1
Midvale, Utah	June 1
Vernal, Utah	Do.
CORN AND WHEAT	
Carrington, N. Dak	May 1
Drake, N. Dak	Apr. 1
Hankinson, N. Dak	Do.
Jackson, Ohio	Do.
Max, N. Dak	Do.
Mobridge, S. Dak	Aug. 11
Oakes, N. Dak	July 18
Portal, N. Dak	Apr. 1
Sanish, N. Dak	Do.
Washburn, N. Dak	Aug. 8
Wishek, N. Dak	Apr. 1
COTTON	
Arcadia, La	July 1
Ballinger, Tex	Apr. 1
FRUIT	
Ocala, Fla	Aug. 1

Station	Date established
RIVER	
Brewton, Ala	Feb. 1
Chaonia, Mo	Aug. 1
Duncan, Nebr	Apr. 1
Ellsworth, Kans	Feb. 1
Fisk, Mo	Aug. 1
Golconda, Ill. (Dam No. 51)	Jan. 1
Grand Chain, Ill. (Dam No. 53)	Do.
Jamestown, S. C	Apr. 13
La Cygne, Kans	July 1
Littleton, N. H	Jan. 1
Millers Ferry, Ala	Oct. 1
Moline Bridge, Ill	Mar. 1
Olean, N. Y	Oct. 1
Pera, Ala	Mar. 1
Poston, S. C	May 1
Reserve, La	Apr. 1
Salem, Oreg	Sept. 1
Salina, Kans	Feb. 1
Sanish, N. Dak	Feb. 15
Williston, N. Dak	Mar. 16
RIVER (RAINFALL)	
Altamont, Tenn	Sept. 1
Amity, Ark	Aug. 1
Brookville, Pa	Oct. 1
Claflin, Kans	Do.
Harlan, Ky	July 1
Lyons, Kans	Oct. 1
Manchester, Ky	July 1
Meadville, Pa	Oct. 1
Punxsutawney, Pa	Do.
Ridgway, Pa	Do.
Smethport, Pa	Do.
Spencer, Tenn	Do.
Thomas, W. Va	July 1
Willard, Kans	May 1
SNOWFALL	
Berne, Wash	Feb. 1
STORM WARNING	
Bayfield, Wis	Apr. 10
City Point, Boston, Mass	June 20
Everglades, Fla	Sept. 10
Port Washington, N. Y	Aug. 20
STORM WARNING AND AIRWAY	
Delaware Breakwater, Del	Aug. 16

TABLE II.—*Changes in Weather Bureau stations during 1929*—Continued

DISCONTINUED

Station	Date discontinued
FIRST ORDER	
Manteo, N. C	June 30
SECOND ORDER	
Cordova, Alaska	June 7
Goodland, Kans	July 19
Mount Hamilton, Calif	June 30
Mount Wilson, Calif	Sept. 30
Tonopah, Nev	July 14
THIRD ORDER	
Navassa Island, Cuba	Dec. 9
AIRWAY	
Bakersfield, Calif	Sept. 30
Bliss, Idaho	Apr. 30
Calhoun, Ga	July 31
Dana Point, Calif	Sept. 30
Dover, Colo	Dec. 31
Fairfield Air Depot, Ohio	Feb. 24
Fairview, Pa	Oct. 15
Fresno, Calif	June 30
Hornbrook, Calif	July 20
Lynndyl, Utah	July 31
Miami, Fla	June 30
Spartanburg, S. C	Nov. 30
Vincennes, Ind	June 30
AIRWAY AND RIVER	
Salem, Oreg	Aug. 31
AIRWAY AND SECOND ORDER	
Norden, Calif	Dec. 17
CATTLE	
Elko, Nev	May 31
Evanston, Wyo	Do.
Kelton, Utah	Dec. 31
CORN AND WHEAT	
Eureka, S. Dak	Aug. 10
Waverly, Ohio	Mar. 31
CORN AND WHEAT AND RAINFALL	
Mount Vernon, Ill	Mar. 11
COTTON	
Valdosta, Ga	Feb. 28
REPAIR STATIONS	
Clallam Bay, Wash	June 30
Manteo, N. C	Do.
Neah Bay, Wash	Do.
RIVER	
Gassaway, W. Va	Dec. 31
Little River, Tex	June 30
RIVER AND CORN AND WHEAT	
Vincennes, Ind	June 30
RIVER AND COTTON	
Ballinger, Tex	Mar. 31
Dublin, Ga	Mar. 5
RIVER (RAINFALL)	
Davis, W. Va	June 30
Dutton, Ark	Oct. 31
Ellsworth, Kans	Jan. 31
Glenwood, Ark	July 31
Melones, Calif	Dec. 31
Murfreesboro, Ark	June 30
Olcan, N. Y	Sept. 30
Saegerstown, Pa	Do.
Salina, Kans	Jan. 31
Watrous, N. Mex	Dec. 31
SNOWFALL	
Cascade Tunnel, Wash	Jan. 31
Fordyce Dam, Calif	Sept. 30
Gascon, N. Mex	June 30
Harveys Upper Ranch, N. Mex	Do.
Helm Creek, Calif	May 31
La Porte, Calif	July 15
Rugh Ranch, Colo	Nov. 30
Tye, Wash	Jan. 31
Upper Clealum, Wash	June 30
STORM WARNING	
Delaware Breakwater, Del	Aug. 15
Hyannis, Mass	July 31
Neah Bay, Wash	Aug. 31
Tonawanda, N. Y	Dec. 12

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SUNSHINE, 1929

The following table gives for 165 stations the monthly amounts of sunshine and percentage of the possible, as derived from the automatic records made by an instrument designated the "thermometric recorder," illustrated in preceding volumes of this series.

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

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

Sunshine, 1929

Station	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.	162	56	173	58	182	49	165	41	292	64	333	72
Alpena, Mich.	105	37	168	58	197	53	266	66	343	74	328	70
Amarillo, Tex.	190	60	151	49	238	64	311	79	188	43	316	73
Anniston, Ala.	195	62	140	46	228	61	202	52	233	54	245	57
Apalachicola, Fla.	178	55	147	47	286	77	284	73	330	78	284	67
Asheville, N. C.	158	51	145	48	216	58	256	65	226	52	276	63
Atlanta, Ga.	189	60	127	41	233	63	240	61	268	62	248	58
Atlantic City, N. J.	146	48	170	57	206	55	198	50	261	59	289	65
Augusta, Ga.	213	67	152	49	289	78	315	81	305	71	326	76
Austin, Tex.	150	46	145	46	214	57	210	54	242	57	334	79
Baker, Oreg.	143	50	183	63	212	57	191	47	298	65	307	66
Baltimore, Md.	170	56	188	62	223	60	208	52	252	57	300	67
Binghamton, N. Y.	130	44	117	39	151	41	162	40	264	58	301	66
Birmingham, Ala.	173	55	126	41	221	59	224	57	244	56	303	70
Bismarck, N. Dak.	122	44	156	54	177	48	204	50	300	64	309	65
Block Island, R. I.	165	55	174	58	225	61	199	50	304	68	280	62
Boise, Idaho	112	39	143	49	170	46	166	41	359	78	364	79
Boston, Mass.	171	58	162	55	211	57	182	45	326	72	346	76
Broken Arrow, Okla.	157	50	142	46	189	51	200	51	163	37	270	62
Brownsville, Tex.	192	58	140	44	277	74	273	71	283	68	364	88
Buffalo, N. Y.	126	43	141	48	152	41	153	38	271	60	358	78
Burlington, Vt.	92	32	116	39	136	37	127	31	244	53	265	57
Canton, N. Y.	98	34	120	41	116	31	120	30	210	46	240	51
Cape Henry, Va.	160	52	154	51	226	61	235	59	283	64	279	63
Charles City, Iowa	138	47	128	43	174	47	228	57	278	61	282	61
Charleston, S. C.	194	61	125	40	230	62	269	69	339	79	271	63
Charlotte, N. C.	158	50	152	50	239	64	293	75	274	63	293	68
Chattanooga, Tenn.	151	48	109	36	174	47	192	49	176	40	290	67
Cheyenne, Wyo.	216	72	153	51	231	62	262	66	293	65	344	76
Chicago University, Ill.	137	46	153	52	189	51	205	51	252	56	304	67
Cincinnati, Ohio	116	38	156	52	219	59	234	59	263	59	320	72
Cleveland, Ohio	90	31	100	34	189	51	193	48	272	60	331	73
Columbia, Mo.	158	52	150	50	224	60	223	56	245	55	326	73
Columbus, Ohio	89	30	119	40	183	49	184	46	245	55	279	62
Concordia, Kans.	145	48	156	52	229	62	252	63	251	56	310	69
Dallas, Tex.	146	46	104	34	220	59	232	59	207	48	336	78
Dayton, Ohio	99	33	130	43	193	52	179	45	229	51	297	66
Del Rio, Tex.	177	54	166	53	239	64	208	54	238	56	330	79
Denver, Colo.	180	60	162	54	228	62	248	62	290	65	310	69
Des Moines, Iowa	139	47	157	53	209	56	214	53	262	58	323	71
Detroit, Mich.	139	47	134	45	185	50	200	50	262	58	332	73
Devils Lake, N. Dak.	169	61	186	65	249	67	269	66	351	74	347	73
Dodge City, Kans.	181	59	199	66	281	76	308	78	275	62	346	78
Dubuque, Iowa	123	42	132	44	159	43	218	54	298	66	311	68
Due West, S. C.	152	48	120	39	202	54	259	66	269	62	257	60
Eastport, Me.	138	48	161	54	184	50	189	47	271	59	283	61
Elkins, W. Va.	82	27	95	32	150	40	199	50	163	37	286	64
Ellendale, N. Dak.	172	61	192	66	205	55	249	61	350	75	374	80
El Paso, Tex.	241	75	247	80	296	80	339	87	366	86	397	93
Erie, Pa.	32	11	83	28	140	38	156	39	254	56	306	67
Escanaba, Mich.	168	59	153	53	188	51	256	63	286	62	280	59
Eureka, Calif.	132	44	202	68	200	54	188	47	265	59	266	59
Evansville, Ind.	134	44	155	51	245	66	253	64	262	59	328	74
Fort Smith, Ark.	173	55	123	40	240	65	242	62	264	61	348	80
Fort Wayne, Ind.	100	34	144	48	209	56	245	61	299	67	354	78

Sunshine, 1929—Continued

Station	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.	386	83	321	74	255	68	191	56	138	47	96	34	2,694	58
Alpena, Mich.	350	74	321	74	224	60	134	39	63	22	18	7	2,519	53
Amarillo, Tex.	325	74	342	82	236	64	212	61	168	54	223	73	2,902	65
Anniston, Ala.	263	60	327	79	190	51	230	65	112	36	197	64	2,563	57
Apalachicola, Fla.	268	62	252	62	169	46	269	76	173	54	186	58	2,825	63
Asheville, N. C.	249	56	246	59	153	41	201	58	120	39	175	58	2,421	54
Atlanta, Ga.	254	58	311	75	194	52	214	61	93	30	191	62	2,562	57
Atlantic City, N. J.	298	66	286	68	200	53	217	63	132	44	151	52	2,554	57
Augusta, Ga.	318	73	310	75	180	48	250	71	134	42	212	68	3,002	67
Austin, Tex.	297	69	365	89	279	75	236	66	147	46	187	59	2,805	62
Baker, Oreg.	430	91	380	87	290	77	249	73	234	81	137	50	3,054	67
Baltimore, Md.	327	72	294	69	244	66	224	65	132	44	136	46	2,698	60
Binghamton, N. Y.	324	70	261	61	212	57	98	29	57	19	62	22	2,138	46
Birmingham, Ala.	293	67	358	86	268	72	247	70	127	41	193	63	2,776	61
Bismarck, N. Dak.	369	77	305	69	144	38	203	60	130	46	124	47	2,542	55
Block Island, R. I.	322	70	287	67	196	52	206	60	97	33	84	29	2,540	55
Boise, Idaho	423	90	373	86	294	79	251	74	235	81	134	48	3,023	66
Boston, Mass.	367	80	296	69	205	55	193	56	136	46	118	42	2,712	59
Broken Arrow, Okla.	365	82	352	84	247	66	227	65	150	49	198	66	2,661	60
Brownsville, Tex.	315	75	320	79	262	71	240	67	134	41	200	61	3,001	66
Buffalo, N. Y.	372	80	304	71	245	65	167	49	124	43	42	15	2,456	53
Burlington, Vt.	355	76	215	50	168	45	130	38	62	21	42	15	1,951	41
Canton, N. Y.	292	62	241	55	215	57	151	45	78	27	58	21	1,938	42
Cape Henry, Va.	300	67	272	65	213	57	249	71	154	51	195	65	2,720	60
Charles City, Iowa	319	69	336	78	240	64	170	50	148	51	128	46	2,569	56
Charleston, S. C.	276	63	262	63	169	45	265	75	189	60	197	63	2,786	62
Charlotte, N. C.	280	63	292	70	224	60	251	72	160	52	175	57	2,790	62
Chattanooga, Tenn.	288	65	332	80	180	48	188	54	109	35	155	51	2,343	52
Cheyenne, Wyo.	365	80	326	76	240	64	260	76	213	72	228	79	3,131	70
Chicago University, Ill.	315	68	283	66	236	63	179	52	149	51	71	25	2,475	54
Cincinnati, Ohio	328	73	295	70	248	67	176	51	117	39	96	33	2,566	56
Cleveland, Ohio	365	79	317	74	225	60	181	53	116	39	59	21	2,438	52
Columbia, Mo.	322	71	316	75	224	60	204	59	150	50	138	47	2,681	59
Columbus, Ohio	297	65	266	63	202	54	149	43	110	37	71	24	2,195	47
Concordia, Kans.	331	73	287	68	219	59	187	54	172	57	170	58	2,708	60
Dallas, Tex.	328	75	375	91	298	80	224	64	139	44	174	56	2,784	61
Dayton, Ohio	324	71	300	70	217	58	161	47	107	36	82	28	2,317	50
Del Rio, Tex.	324	76	366	90	259	70	236	66	198	61	202	63	2,943	66
Denver, Colo.	310	68	284	67	206	55	228	66	171	57	187	64	2,805	62
Des Moines, Iowa	279	60	301	70	221	59	197	57	176	60	141	49	2,618	58
Detroit, Mich.	358	78	284	66	210	56	176	51	84	29	19	7	2,381	51
Devils Lake, N. Dak.	397	82	302	68	133	35	182	54	111	40	116	44	2,811	61
Dodge City, Kans.	385	86	357	85	292	78	234	67	185	61	229	77	3,273	73
Dubuque, Iowa	314	68	275	64	209	56	160	46	155	52	103	36	2,456	53
Due West, S. C.	280	64	286	69	155	42	221	63	115	37	183	59	2,500	55
Eastport, Me.	310	66	265	61	210	56	148	44	132	46	87	32	2,378	52
Elkins, W. Va.	293	65	228	54	197	53	145	42	77	26	107	36	2,022	44
Ellendale, N. Dak.	375	79	337	77	151	40	224	66	144	51	137	51	2,910	65
El Paso, Tex.	324	75	298	72	277	75	215	61	266	84	272	87	3,539	80
Erie, Pa.	344	75	282	66	201	54	104	30	32	11	8	3	1,943	40
Escanaba, Mich.	355	75	292	67	209	56	176	52	152	53	48	18	2,561	56
Eureka, Calif.	289	63	243	57	216	58	196	57	112	38	87	30	2,396	53
Evansville, Ind.	297	66	349	83	246	66	199	57	127	42	102	34	2,697	59
Fort Smith, Ark.	382	87	369	89	268	72	205	59	138	44	165	54	2,918	64
Fort Wayne, Ind.	368	80	300	70	246	66	180	52	129	43	69	24	2,644	57

Sunshine, 1929—Continued

Station	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
Fresno, Calif	116	38	255	84	279	75	326	82	391	89	367	83
Galveston, Tex	193	59	114	37	235	63	222	58	221	53	307	73
Grand Haven, Mich	38	13	96	32	169	46	236	59	295	65	312	68
Grand Junction, Colo	160	53	165	55	227	61	197	50	287	65	393	88
Grand Rapids, Mich	46	16	113	38	187	50	223	55	271	60	280	61
Green Bay, Wis	173	60	165	57	197	53	251	62	326	71	304	65
Greenville, S. C	154	49	149	49	223	60	271	69	277	64	332	76
Groesbeck, Tex	118	37	114	37	200	54	230	59	203	47	338	79
Harrisburg, Pa	152	50	181	60	219	59	207	52	283	63	336	75
Havre, Mont	124	45	179	63	217	59	263	64	329	69	353	73
Helena, Mont	93	33	112	39	203	55	236	58	310	66	340	72
Honolulu, Hawaii	240	70	205	64	253	68	245	65	251	62	265	66
Houston, Tex	170	52	106	34	190	51	218	56	218	51	309	73
Huron, S. Dak	118	41	137	47	200	54	242	60	335	73	328	71
Indianapolis, Ind	137	45	168	56	227	61	252	63	274	61	349	78
Ithaca, N. Y	105	36	80	27	146	39	135	34	214	47	309	68
Jacksonville, Fla	232	72	196	63	272	73	234	61	253	60	225	53
Juneau, Alaska	67	30	40	15	72	20	222	52	206	40	195	36
Kalispell, Mont	91	33	146	51	154	42	205	50	268	57	303	63
Kansas City, Mo	168	55	176	59	242	65	238	60	255	58	324	73
Key West, Fla	209	63	267	84	302	81	351	92	356	86	296	72
Knoxville, Tenn	149	48	112	37	177	48	212	54	262	60	321	73
La Crosse, Wis	175	60	201	68	200	54	220	54	316	69	318	69
Lander, Wyo	190	65	188	64	253	68	257	64	310	68	376	82
Lansing, Mich	118	40	166	56	222	60	245	61	324	71	325	71
Lexington, Ky	89	29	129	43	182	49	235	59	207	47	263	59
Little Rock, Ark	142	45	126	41	201	54	202	51	234	54	338	78
Los Angeles, Calif	209	66	236	77	275	74	259	66	300	69	350	81
Louisville, Ky	141	46	167	55	263	71	276	70	252	57	325	73
Ludington, Mich	57	20	103	35	147	40	240	59	300	66	346	75
Lynchburg, Va	137	44	150	50	224	60	241	61	268	61	298	68
Macon, Ga	188	59	150	49	249	67	286	73	310	72	282	66
Madison, Wis	130	45	119	40	143	39	185	46	266	59	260	56
Marquette, Mich	164	59	127	44	141	38	232	57	259	55	248	52
Memphis, Tenn	125	40	119	39	207	56	223	57	293	68	360	83
Meridian, Miss	174	55	120	39	245	66	239	61	252	59	300	70
Miami, Fla	218	65	234	74	263	71	314	82	314	75	255	62
Miles City, Mont	140	50	163	56	220	60	249	61	329	71	357	76
Milwaukee, Wis	127	43	136	46	188	51	236	59	289	63	308	67
Minneapolis, Minn	152	53	131	45	184	50	236	58	343	74	335	72
Mobile, Ala	174	54	105	34	222	60	244	63	262	62	294	69
Modena, Utah	226	74	228	75	273	74	304	77	366	83	404	91
New Haven, Conn	197	66	198	66	222	60	190	48	316	70	336	74
New Orleans, La	158	49	100	32	206	55	227	59	186	44	304	72
New York, N. Y	166	56	190	64	234	63	186	46	268	60	329	73
Norfolk, Va	156	51	156	51	251	68	262	66	308	70	294	67
Northfield, Vt	86	30	124	42	136	37	137	34	225	49	216	47
North Head, Wash	102	36	153	53	147	40	191	47	262	56	284	60
North Platte, Nebr	165	55	204	68	253	68	271	68	297	66	322	71
Oklahoma City, Okla	157	50	115	38	194	52	252	64	201	46	346	80
Omaha, Nebr	100	34	140	47	208	56	221	55	265	59	311	69
Oswego, N. Y	30	10	62	21	120	32	157	39	248	55	299	65
Parkersburg, W. Va	74	24	97	32	162	44	189	47	187	42	246	55
Pensacola, Fla	210	65	181	58	265	71	290	75	318	75	296	70
Peoria, Ill	145	48	164	55	239	64	215	54	260	58	325	72

Sunshine, 1929—Continued

Station	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
Fresno, Calif	427	96	405	97	340	91	325	93	302	99	128	43	3,661	81
Galveston, Tex	245	57	298	73	259	70	223	63	136	42	199	62	2,652	59
Grand Haven, Mich	377	81	293	68	235	63	166	49	82	28	31	11	2,331	49
Grand Junction, Colo	317	70	305	72	262	70	249	72	222	74	225	77	3,008	67
Grand Rapids, Mich	321	69	229	53	155	41	149	44	77	26	42	15	2,092	44
Green Bay, Wis	371	79	270	62	214	57	155	46	143	50	50	18	2,619	58
Greenville, S. C	322	73	361	87	209	56	241	69	123	40	195	64	2,855	63
Groesbeck, Tex	309	71	356	86	266	72	202	57	131	41	184	59	2,651	58
Harrisburg, Pa	354	78	297	70	235	63	190	55	136	46	100	34	2,691	59
Havre, Mont	418	86	342	77	178	47	219	66	119	43	111	43	2,852	61
Helena, Mont	424	88	367	84	229	61	229	68	121	43	119	45	2,782	59
Honolulu, Hawaii	297	72	292	73	272	74	267	74	177	53	182	54	2,946	66
Houston, Tex	271	63	329	80	282	76	228	64	130	41	166	52	2,619	58
Huron, S. Dak	354	76	336	78	156	42	188	55	134	46	128	46	2,655	57
Indianapolis, Ind	344	76	322	76	246	66	191	55	139	47	103	36	2,750	60
Ithaca, N. Y	348	75	278	65	218	58	110	32	96	32	66	23	2,105	45
Jacksonville, Fla	241	56	202	49	184	50	259	73	200	63	208	66	2,706	62
Juneau, Alaska	129	24	161	34	98	25	21	6	20	8	78	39	1,308	27
Kalispell, Mont	415	86	388	88	232	62	217	65	121	44	64	24	2,603	55
Kansas City, Mo	338	75	327	77	252	67	211	61	162	54	165	56	2,859	63
Key West, Fla	294	70	302	75	268	73	192	54	254	78	185	56	3,278	74
Knoxville, Tenn	338	76	292	70	178	48	195	56	83	27	134	44	2,452	53
La Crosse, Wis	359	77	313	72	220	59	180	53	135	47	117	42	2,753	60
Lander, Wyo	358	77	286	66	203	54	242	71	165	57	190	68	3,018	67
Lansing, Mich	379	81	315	73	216	57	166	48	116	40	48	17	2,638	56
Lexington, Ky	285	63	283	67	200	54	134	39	80	26	101	34	2,187	47
Little Rock, Ark	348	79	349	84	245	66	206	59	141	45	153	50	2,684	59
Los Angeles, Calif	352	80	374	90	266	71	283	81	299	96	246	80	3,447	78
Louisville, Ky	343	76	352	83	282	76	215	62	127	42	130	44	2,872	63
Ludington, Mich	392	84	320	74	253	67	171	50	87	30	34	12	2,452	51
Lynchburg, Va	332	74	293	70	242	65	216	62	128	42	169	57	2,697	60
Macon, Ga	336	77	348	84	247	66	268	76	160	51	218	70	3,043	68
Madison, Wis	314	68	303	70	234	62	173	50	124	42	70	25	2,322	50
Marquette, Mich	300	62	215	49	150	40	118	35	54	19	14	5	2,021	43
Memphis, Tenn	336	76	340	82	193	52	209	60	110	35	129	42	2,646	58
Meridian, Miss	295	68	304	74	194	52	236	67	120	38	176	56	2,656	59
Miami, Fla	294	70	287	71	213	58	176	49	242	74	155	47	2,964	66
Miles City, Mont	404	85	358	82	218	58	325	67	105	37	144	53	2,913	63
Milwaukee, Wis	373	80	291	68	228	61	162	47	148	51	90	32	2,575	56
Minneapolis, Minn	361	77	314	72	183	49	178	52	125	44	132	48	2,674	58
Mobile, Ala	280	65	249	61	186	50	248	70	145	46	169	54	2,579	57
Modena, Utah	319	71	310	73	312	84	290	83	291	96	225	76	3,547	80
New Haven, Conn	360	78	297	69	238	64	209	61	152	51	112	39	2,826	62
New Orleans, La	253	59	257	63	230	62	231	65	150	47	136	43	2,437	54
New York, N. Y	388	85	335	78	242	65	220	64	129	43	128	44	2,815	62
Norfolk, Va	314	70	291	69	224	60	245	70	146	48	182	61	2,829	63
Northfield, Vt	294	63	158	37	152	40	142	42	43	15	50	18	1,763	38
North Head, Wash	311	65	260	59	256	68	147	44	162	57	62	23	2,337	51
North Platte, Nebr	363	79	345	81	213	57	255	74	228	77	246	86	3,162	71
Oklahoma City, Okla	367	83	370	89	264	71	203	58	154	50	210	69	2,833	62
Omaha, Nebr	296	64	310	73	230	62	200	58	177	59	159	55	2,616	58
Oswego, N. Y	324	70	314	73	226	60	119	35	40	14	28	10	1,968	40
Parkersburg, W. Va	262	58	244	58	204	55	141	41	80	27	75	26	1,962	42
Pensacola, Fla	309	72	310	76	226	61	275	78	155	48	173	54	3,008	67
Peoria, Ill	333	73	279	65	232	62	194	56	161	54	119	41	2,665	58

Sunshine, 1929—Continued

Station	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
Philadelphia, Pa	194	65	204	68	237	64	195	49	236	53	275	61
Phoenix, Ariz	279	88	276	89	343	92	368	94	409	95	423	99
Pittsburgh, Pa	84	28	82	27	169	46	191	48	267	59	355	79
Pocatello, Idaho	97	33	144	49	184	50	186	46	323	71	322	70
Port Arthur, Tex	155	48	105	34	210	56	252	65	266	63	348	83
Port Huron, Mich	145	50	176	60	203	55	214	53	321	71	343	75
Portland, Me	159	55	165	56	196	53	181	45	278	61	320	69
Portland, Oreg	83	29	140	48	128	34	152	37	247	53	236	50
Providence, R. I	182	62	178	60	201	54	190	47	311	69	332	73
Pueblo, Colo	224	73	185	61	247	66	271	68	276	62	357	81
Raleigh, N. C	166	53	154	51	236	64	268	68	250	57	243	56
Rapid City, S. Dak	158	55	188	64	251	68	272	67	303	66	327	71
Reading, Pa	168	56	198	66	222	60	160	40	228	51	280	62
Richmond, Va	152	50	171	57	225	61	252	64	299	68	311	70
Rochester, N. Y	74	25	100	34	152	41	154	38	249	55	308	67
Roswell, N. Mex	256	81	247	80	278	75	339	87	318	74	375	88
Royal Center, Ind	118	39	165	55	187	50	242	60	279	62	328	73
Sacramento, Calif	64	21	235	78	240	65	270	68	395	89	365	82
St. Joseph, Mo	123	41	146	49	209	56	201	50	196	44	278	62
St. Louis, Mo	133	44	121	40	189	51	215	54	221	50	288	64
St. Paul, Minn	131	46	125	43	168	45	241	60	324	70	310	67
Salt Lake City, Utah	126	42	167	56	198	54	228	57	365	81	380	84
San Antonio, Tex	165	51	156	50	220	59	192	50	250	59	328	78
San Diego, Calif	195	61	208	67	250	67	237	61	296	69	315	74
Sandy Hook, N. J	179	60	188	63	229	62	184	46	273	61	327	73
San Francisco, Calif	150	49	229	76	247	66	284	72	292	66	333	75
San Jose, Calif	186	60	227	75	223	60	229	58	329	75	359	81
San Juan, P. R	250	72	237	73	254	68	275	73	230	57	255	64
Santa Fe, N. Mex	210	68	206	68	256	69	312	79	319	73	391	89
Sault Ste. Marie, Mich	65	23	140	48	162	44	234	57	296	64	330	70
Savannah, Ga	188	59	129	42	238	64	229	59	253	59	240	56
Scranton, Pa	103	35	98	33	158	43	169	42	276	62	302	67
Seattle, Wash	67	24	92	32	129	35	212	52	282	60	237	49
Sheridan, Wyo	178	62	182	62	232	63	246	61	313	68	353	76
Sioux City, Iowa	123	42	136	46	215	58	235	59	320	71	273	60
Spokane, Wash	55	20	175	61	229	62	285	70	371	79	283	59
Springfield, Ill	142	47	134	45	221	59	238	60	272	61	316	70
Springfield, Mo	138	45	120	40	168	45	216	55	221	50	314	71
Tacoma, Wash	50	18	101	35	150	41	194	47	223	48	212	45
Tampa, Fla	184	56	168	53	241	65	276	72	287	68	241	58
Terre Haute, Ind	139	46	148	49	202	54	205	52	240	54	343	77
Toledo, Ohio	111	38	106	36	190	51	192	48	271	60	310	68
Trenton, N. J	178	59	191	64	229	62	186	47	271	61	322	72
Vicksburg, Miss	159	50	106	34	231	62	236	61	262	61	319	75
Walla Walla, Wash	56	20	122	42	184	50	212	52	306	66	307	65
Washington, D. C	175	58	180	60	213	58	219	55	264	59	299	67
Wausau, Wis	166	58	207	71	172	47	234	58	297	65	302	66
Wichita, Kans	171	56	162	54	235	63	232	59	223	50	327	74
Williston, N. Dak	137	50	152	53	219	59	259	63	334	71	340	71
Wilmington, N. C	163	52	126	41	238	64	257	66	283	65	266	62
Winnemucca, Nev	198	66	234	79	314	85	294	73	353	79	337	75
Wytheville, Va	127	41	136	45	180	49	236	60	208	47	245	56
Yankton, S. Dak	108	37	111	38	205	55	214	53	240	53	222	48
Yellowstone Park, Wyo	93	33	141	48	203	55	213	53	317	69	290	62
Yuma, Ariz	274	86	281	91	337	91	363	93	420	98	419	98

Sunshine, 1929—Continued

Station	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
Philadelphia, Pa	286	63	271	64	228	61	211	61	125	42	121	42	2,583	58
Phoenix, Ariz	358	82	351	85	324	87	332	94	296	94	285	92	4,043	91
Pittsburgh, Pa	325	71	296	69	222	59	159	46	109	37	56	19	2,313	49
Pocatello, Idaho	351	75	314	73	248	66	279	82	195	67	134	48	2,777	61
Port Arthur, Tex	271	63	334	82	294	79	257	72	121	38	172	54	2,785	61
Port Huron, Mich	380	82	342	79	257	69	178	52	123	42	35	12	2,718	58
Portland, Me	345	74	286	66	196	52	172	50	103	35	108	39	2,509	55
Portland, Oreg	377	79	320	73	284	76	204	60	137	48	50	18	2,356	50
Providence, R. I	357	77	281	65	230	61	219	64	141	48	139	49	2,760	61
Pueblo, Colo	315	70	314	75	246	66	255	74	186	61	214	72	3,090	69
Raleigh, N. C	209	47	244	58	209	56	233	67	133	43	180	60	2,525	57
Rapid City, S. Dak	374	80	354	82	208	55	222	65	151	52	158	57	2,966	65
Reading, Pa	285	63	257	60	227	61	196	57	122	41	100	34	2,443	54
Richmond, Va	312	69	281	67	257	69	260	75	148	49	182	61	2,850	63
Rochester, N. Y	345	74	287	67	221	59	159	46	99	34	26	9	2,176	46
Roswell, N. Mex	355	81	335	81	255	69	202	57	221	70	238	77	3,420	77
Royal Center, Ind	343	75	306	72	216	58	177	52	122	41	85	30	2,568	56
Scramento, Calif	443	98	417	98	365	98	334	96	292	97	102	35	3,522	77
St. Joseph, Mo	280	62	304	72	211	56	190	55	147	49	150	52	2,435	54
St. Louis, Mo	256	56	278	66	214	57	182	53	126	42	117	40	2,341	51
St. Paul, Minn	339	72	303	70	194	52	182	54	130	45	114	42	2,561	56
Salt Lake City, Utah	366	80	343	80	256	68	275	80	243	82	167	58	3,113	68
San Antonio, Tex	294	69	346	85	292	79	240	68	141	44	180	56	2,805	62
San Diego, Calif	276	63	328	79	202	54	242	69	280	89	236	76	3,064	69
Sandy Hook, N. J	326	72	276	65	223	60	203	59	131	44	114	39	2,653	59
San Francisco, Calif	298	66	300	71	270	72	273	79	280	92	125	42	3,081	69
San Jose, Calif	399	89	360	86	309	83	302	87	274	90	140	47	3,338	74
San Juan, P. R	286	71	245	62	214	58	282	78	236	70	263	77	3,029	69
Santa Fe, N. Mex	283	64	271	65	299	80	264	76	237	77	259	86	3,308	74
Sault Ste. Marie, Mich	370	78	280	64	201	54	152	45	86	30	50	19	2,366	50
Savannah, Ga	208	48	235	57	137	37	217	62	165	52	176	56	2,416	54
Scranton, Pa	347	76	279	65	222	59	166	48	96	32	58	20	2,275	48
Seattle, Wash	380	79	324	73	285	76	157	47	110	40	38	15	2,314	48
Sheridan, Wyo	375	80	366	84	197	52	230	68	121	42	172	63	2,965	65
Sioux City, Iowa	331	72	364	85	185	50	178	52	158	53	148	52	2,667	58
Spokane, Wash	410	85	416	94	273	72	248	74	168	60	58	22	2,971	63
Springfield, Ill	342	75	315	74	236	63	192	56	124	41	127	44	2,658	58
Springfield, Mo	352	79	341	81	228	61	189	54	114	37	172	57	2,572	56
Tacoma, Wash	345	72	274	62	253	67	132	39	62	22	32	12	2,028	42
Tampa, Fla	242	57	224	55	140	38	248	70	214	66	201	62	2,666	60
Terre Haute, Ind	319	70	277	65	217	58	184	53	125	41	112	38	2,511	55
Toledo, Ohio	331	72	284	66	218	58	172	50	115	39	44	16	2,345	50
Trenton, N. J	341	75	313	74	248	66	210	61	141	47	133	46	2,763	61
Vicksburg, Miss	311	72	343	83	270	73	244	69	104	33	149	47	2,733	60
Walla Walla, Wash	417	88	413	94	261	69	261	77	197	69	47	17	2,782	59
Washington, D. C	316	70	286	67	237	63	192	56	119	40	120	41	2,622	58
Wausau, Wis	374	79	251	58	209	56	127	37	118	41	59	22	2,516	55
Wichita, Kans	358	80	338	80	251	67	201	58	143	47	188	63	2,829	63
Williston, N. Dak	414	86	365	83	191	51	201	60	120	43	139	53	2,870	62
Wilmington, N. C	309	70	243	59	193	52	258	73	150	48	202	66	2,687	60
Winnemucca, Nev	432	94	388	91	361	97	337	98	284	96	206	72	3,739	84
Wytheville, Va	264	59	257	61	190	51	187	54	87	28	142	47	2,259	50
Yankton, S. Dak	308	66	314	73	136	36	178	52	134	46	133	47	2,305	50
Yellowstone Park, Wyo	372	79	344	79	231	62	229	68	142	49	96	35	2,672	58
Yuma, Ariz	394	90	345	83	333	90	342	97	307	98	294	95	4,108	92

EXCESSIVE RAINFALL, 1929

The following table contains statistics of excessive rainfall during the calendar year 1929. Similar data for the years 1896 to 1928, inclusive, have been presented in the appropriate annual reports of the Chief of the Weather Bureau. The published data prior to 1896 consist of a record of maximum amounts of rainfall in 5 and 10 minute periods, also in 1 and 24 hours. The annual report for 1895–96 contains a summary of the records which up to that time had been made at the principal stations supplied with automatic gauges.

The following table shows, for most stations of the Weather Bureau furnished with self-registering gauges, the accumulated amounts of precipitation for each 5 minutes during all storms of 1929 in which the rate of fall equaled or exceeded 0.25 inch in any 5-minute period, or 0.30 inch in any 10-minute period, or 0.35 inch in any 15-minute period, etc. If the period be 1 hour, the minimum fall would need to be 0.80 inch; if 2 hours, 1.40 inches. In the comparatively few cases when the excessive rate of fall continued for more than 2 hours, the record has been spread over three or more lines, as necessary, each line showing amounts through 50 minutes; the four left-hand columns have each but a single entry for the storm, while the amounts shown in the column headed "5 min." are, in reality, the 55-minute amount on the second line, the 105-minute amount on the third line, etc.

The excepted stations, for which the statistics only of the more intense storms appear here, are those in the South Atlantic and the Gulf States, including Arkansas, Kentucky, and Tennessee, but not including the western portion of Texas. San Juan, in Porto Rico, is likewise an excepted station. In these States very heavy falls are so frequent that much space would be needed to print detailed statistics of each rainfall that attained to one of the limits mentioned above, so only the more intense rainfalls are shown. At most stations the only falls included are those in which 1 inch or more fell within an hour, as footnote 5 indicates; but a few stations within these States had no such fall during 1929; so for such stations those falls in which 0.50 inch or more fell within 30 minutes have been presented (footnote 7).

In the columns under "Total duration," when the minute during the nighttime is not known reasonably well, "D. N." is entered, followed by "a. m." or "p. m." as appropriate. "T." indicates trace, an amount too small for measurement.

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

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NEW ENGLAND STATES																				
Eastport, Me.:																				
June 29	2:10 a. m.	8:37 a. m.	0.99	4:21 a. m.	4:54 a. m.	0.24	0.07	0.12	0.22	0.30	0.50	0.63								
Sept. 8	8:50 a. m.	12:55 p. m.	.85	9:53 a. m.	10:24 a. m.	.17	.05	.15	.24	.38	.49	.57	0.59							
Portland, Me.:																				
Aug. 4	[1] 8:06 p. m.	2:30 a. m.	1.73	12:28 a. m.	1:06 a. m.	.83	.05	.16	.26	.36	.45	.52	.59	0.65						
Aug. 15	11:30 p. m.	11:55 a. m.	1.26	9:03 a. m.	9:38 a. m.	.44	.06	.21	.31	.36	.48	.63	.77							
Nov. 18	2:08 a. m.	8:45 p. m.	2.61	4:22 p. m.	5:32 p. m.	1.32	.08	.18	.27	.33	.36	.39	.49	.59	0.69	0.82	1.00	1.20		
Concord, N. H.:																				
May 3	[1] 9:25 p. m.	5:15 a. m.	1.63	4:27 a. m.	4:59 a. m.	1.03	.11	.17	.20	.28	.48	.51	.55							
Burlington, Vt.:																				
June 22	3:15 p. m.	4:45 p. m.	.91	3:54 p. m.	4:09 p. m.	.07	.21	.54	.81											
June 23	3:50 p. m.	5:40 p. m.	.58	4:32 p. m.	4:46 p. m.	.05	.05	.29	.44											
June 24	[1] 8:10 p. m.	6:25 a. m.	1.09	3:53 a. m.	4:10 a. m.	.43	.15	.38	.46	.54										
July 13	2:10 p. m.	3:40 p. m.	.58	2:48 p. m.	3:03 p. m.	.01	.17	.30	.43	.52										
Northfield, Vt.:																				
June 18	8:50 p. m.	10:25 p. m.	.92	9:25 p. m.	9:36 p. m.	.17	.44	.65	.67											
June 22	5:12 p. m.	6:50 p. m.	.60	5:57 p. m.	6:10 p. m.	.11	.14	.42	.57											
Boston, Mass.:																				
June 22	5:55 a. m.	8:20 a. m.	.62	6:00 a. m.	6:25 a. m.	T.	.28	.33	.39	.44	.49									
June 25	9:10 p. m.	D. N. p. m.	.68	9:24 p. m.	9:33 p. m.	T.	.35	.55												
Aug. 23	10:05 p. m.	[2] 12:30 a. m.	1.16	10:54 p. m.	11:34 p. m.	T.	.30	.49	.55	.73	.81	.97	1.06	1.12						
Nantucket, Mass.:																				
Jan. 6	12:45 a. m.	4:50 p. m.	1.71	8:47 a. m.	9:01 a. m.	.65	.24	.42	.49											
Mar. 23	1:42 p. m.	11:20 p. m.	.62	4:24 p. m.	4:35 p. m.	.04	.16	.34	.39											
May 19	1:30 a. m.	5:20 a. m.	1.29	2:56 a. m.	3:25 a. m.	.13	.12	.24	.42	.66	.74	.80								
July 14	4:50 p. m.	5:40 p. m.	.36	5:08 p. m.	5:21 p. m.	.01	.15	.29	.35											
Aug. 4	[1] 8:20 p. m.	7:30 a. m.	1.27	12:02 a. m.	12:26 a. m.	.39	.17	.26	.37	.48	.53									
Aug. 24	12:15 a. m.	6:30 a. m.	1.50	5:31 a. m.	6:11 a. m.	.47	.08	.12	.23	.38	.63	.78	.89	1.02						
Sept. 14	3:35 p. m.	[2] 5:20 a. m.	2.07	9:00 p. m.	9:38 p. m.	.57	.05	.13	.20	.26	.35	.47	.55	.61						
Dec. 18	7:58 p. m.	[2] 2:30 a. m.	.72	8:04 p. m.	8:24 p. m.	.01	.14	.24	.32	.51										

[1] On previous date.

[2] On following date.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NEW ENGLAND STATES—contd.																				
Block Island, R. I.:																				
May 6–7	10:12 p. m.	3:40 a. m.	1.85	10:20 p. m.	11:10 p. m.	0.02	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	0.65				
				11:10 p. m.	12:00 p. m.		(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	1.22				
				12:00 p. m.	12:50 a. m.		(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	(3)	1.76				
May 19 [2]	12:20 a. m.	5:45 a. m.	1.10	1:18 a. m.	1:58 a. m.	.01	.09	.20	.27	.31	.32	.60	.79	.85						
Providence, R. I.:																				
June 18	3:45 p. m.	4:02 p. m.	.38	3:45 p. m.	3:52 p. m.	0	.25	.38												
Aug. 23	8:28 p. m.	D. N. p. m.	.65	11:15 p. m.	11:31 p. m.	.10	.23	.37	.51	.54										
Sept. 8	3:08 p. m.	4:26 p. m.	.75	3:24 p. m.	3:47 p. m.	.01	.11	.23	.48	.63	.73									
Hartford, Conn.:																				
May 19	12:42 p. m.	2:25 p. m.	.73	12:42 p. m.	12:56 p. m.	0	.17	.28	.41											
May 24	5:35 p. m.	10:30 p. m.	.93	7:42 p. m.	7:57 p. m.	.01	.23	.33	.55											
June 25	7:02 p. m.	10:00 p. m.	.79	7:16 p. m.	7:40 p. m.	.02	.16	.29	.52	.61	.66									
Aug. 1	3:30 p. m.	4:35 p. m.	2.93	3:40 p. m.	4:28 p. m.	.03	.08	.33	.45	.72	1.11	1.34	1.67	2.32	2.77	2.89				
Oct. 2	[1] 10:15 p. m.	D. N. p. m.	2.73	4:57 p. m.	5:32 p. m.	1.76	.14	.28	.30	.42	.47	.48	.62							
New Haven, Conn.:																				
June 28	6:50 p. m.	7:20 p. m.	.43	6:55 p. m.	7:12 p. m.	.01	.13	.26	.36	.42										
July 5	5:35 p. m.	8:40 p. m.	.71	6:05 p. m.	6:34 p. m.	.13	.12	.17	.19	.27	.52	.56								
Aug. 11	[1] 6:30 p. m.	11:20 a. m.	3.63	2:33 a. m.	3:30 a. m.	.43	.05	.09	.14	.24	.26	.36	.45	.53	.55	.67	0.92			
Do	[1] 6:30 p. m.	11:20 a. m.	3.63	6:56 a. m.	7:08 a. m.	1.51	.11	.39	.46											
Do	[1] 6:30 p. m.	11:20 a. m.	3.63	9:10 a. m.	9:34 a. m.	2.28	.09	.43	.80	1.03	1.17									
Oct. 22	8:25 p. m.	D. N. p. m.	.93	10:48 p. m.	11:00 p. m.	.45	.24	.35	.39											
MIDDLE ATLANTIC STATES																				
Albany, N. Y.:																				
June 25	3:07 p. m.	6:30 p. m.	.77	3:07 p. m.	3:21 p. m.	0	.29	.50	.55											
Sept. 14	[1] 11:30 p. m.	7:55 a. m.	1.78	1:07 a. m.	2:07 a. m.	.42	.03	.13	.23	.27	.29	.33	.39	.45	.51	.69	.80			
Binghamton, N. Y.:																				
May 2	10:40 a. m.	1:05 p. m.	.54	11:32 a. m.	11:53 a. m.	.03	.06	.15	.28	.45	.48									
Do	5:55 p. m.	[2] 7:00 a. m.	1.66	10:16 p. m.	11:03 p. m.	.33	.22	.27	.37	.48	.56	.63	.67	.72	.79	.84				
May 24	2:25 p. m.	4:15 p. m.	.60	2:25 p. m.	2:51 p. m.	0	.11	.29	.34	.39	.48	.54								
July 25	2:13 p. m.	2:35 p. m.	.40	2:18 p. m.	2:32 p. m.	.01	.05	.15	.38											
July 29	D. N. a. m.	5:30 a. m.	1.46	2:32 a. m.	3:44 a. m.	.01	.23	.27	.41	.43	.46	.54	.63	.75	.80	.81	.95	1.14		
New York, N. Y.:																				
Mar. 23 [3]	12:20 p. m.	5:30 p. m.	1.36	1:40 p. m.	2:20 p. m.	.18	.07	.19	.30	.68	.82	.90	.97	1.04						
May 12	6:48 p. m.	7:22 p. m.	.40	6:48 p. m.	7:00 p. m.	0	.17	.37	.40											
May 24	6:45 p. m.	7:25 p. m.	.31	7:02 p. m.	7:10 p. m.	.01	.20	.30												
June 25	10:45 a. m.	11:27 a. m.	.39	10:50 a. m.	10:59 a. m.	T.	.20	.37												
Do	5:45 p. m.	8:50 p. m.	.67	7:07 p. m.	7:26 p. m.	.03	.21	.37	.53	.59										
Aug. 19	1:15 a. m.	5:20 a. m.	.79	3:45 a. m.	3:51 a. m.	.29	.27	.33												
Sept. 7	6:10 p. m.	[2] 4:00 a. m.	1.47	9:00 p. m.	9:18 p. m.	.16	.13	.54	.77	.81										
Sept. 14	5:30 a. m.	6:45 a. m.	.77	5:48 a. m.	6:03 a. m.	.03	.39	.59	.71											
Harrisburg, Pa.:																				
Apr. 25	3:55 p. m.	[2] D. N. a. m.	.75	6:06 p. m.	6:20 p. m.	.04	.14	.33	.39											
May 2	4:00 p. m.	[2] D. N. a. m.	2.76	6:37 p. m.	7:05 p. m.	.34	.08	.20	.28	.38	.60	.78								
Do	4:00 p. m.	[2] D. N. a. m.	2.76	9:27 p. m.	10:00 p. m.	1.36	.05	.16	.33	.69	1.09	1.18	1.23							
May 19	10:08 a. m.	3:40 p. m.	.36	10:37 a. m.	10:45 a. m.	.02	.18	.30												
June 14	2:20 p. m.	3:40 p. m.	.43	2:52 p. m.	3:12 p. m.	.01	.06	.19	.29	.40										
June 21	6:35 p. m.	9:35 p. m.	.89	7:50 p. m.	8:15 p. m.	.08	.11	.38	.58	.72	.77									
June 23	10:00 p. m.	[2] D. N. a. m.	1.57	10:31 p. m.	11:40 p. m.	.02	.07	.17	.22	.50	.60	.69	.71	.76	.79	.85	1.03	1.28		
July 8	3:58 p. m.	4:40 p. m.	.57	4:04 p. m.	4:10 p. m.	T.	.37	.43												
July 9	7:00 p. m.	8:15 p. m.	.48	7:00 p. m.	7:12 p. m.	0	.30	.42	.45											
July 24	5:30 p. m.	8:00 p. m.	.67	5:33 p. m.	5:50 p. m.	T.	.13	.33	.52	.58										
Aug. 27	1:52 p. m.	2:50 p. m.	.63	2:24 p. m.	2:40 p. m.	T.	.24	.48	.59	.63										
Do	3:20 p. m.	4:10 p. m.	.50	3:34 p. m.	3:51 p. m.	.01	.07	.19	.45	.48										
Sept. 8	2:15 a. m.	D. N. a. m.	.97	2:29 a. m.	3:00 a. m.	.02	.05	.11	.16	.32	.64	.87	.91							
Sept. 14	2:42 p. m.	5:25 p. m.	.90	3:23 p. m.	4:06 p. m.	T.	.08	.24	.34	.38	.48	.57	.70	.76	.79					
Sept. 29	2:00 p. m.	2:35 p. m.	.33	2:04 p. m.	2:14 p. m.	.01	.18	.30												
Philadelphia, Pa.:																				
July 19	12:15 a. m.	D. N. a. m.	.64	12:21 a. m.	12:37 a. m.	.01	.26	.36	.43	.47										
Aug. 14	9:34 p. m.	D. N. p. m.	.70	9:42 p. m.	10:00 p. m.	.01	.15	.33	.46	.52										
Sept. 7–8	D. N. p. m.	D. N. a. m.	1.59	11:58 p. m.	12:46 a. m.	.01	.19	.33	.57	.72	.83	.93	1.05	1.11	1.25	1.31				
Sept. 8	5:00 p. m.	6:25 p. m.	1.04	5:07 p. m.	5:38 p. m.	.01	.19	.42	.60	.70	.78	.91	.93							
Sept. 14	D. N. a. m.	D. N. a. m.	.60	4:25 a. m.	4:38 a. m.	.14	.20	.35	.40											
Do	6:38 p. m.	8:05 p. m.	.41	6:41 p. m.	6:56 p. m.	.02	.10	.28	.36											
Reading, Pa.:																				
Apr. 25	6:55 p. m.	11:15 p. m.	.90	9:38 p. m.	9:58 p. m.	.19	.20	.25	.36	.59										
May 2	10:30 p. m.	[2] 5:35 a. m.	.93	11:18 p. m.	11:36 p. m.	.10	.16	.30	.44	.50										
May 28	3:44 p. m.	8:05 p. m.	1.00	3:50 p. m.	4:18 p. m.	.01	.30	.38	.56	.63	.70	.74								
June 15	1:45 a. m.	2:55 a. m.	.48	1:54 a. m.	2:09 a. m.	.03	.17	.30	.37											
Aug. 14	8:13 a. m.	9:20 a. m.	.42	8:15 a. m.	8:29 a. m.	.01	.20	.39	.41											
Do	5:30 p. m.	6:30 p. m.	.72	6:06 p. m.	6:21 p. m.	.04	.23	.56	.67											
Sept. 7	6:00 p. m.	7:55 p. m.	.51	6:11 p. m.	6:24 p. m.	.01	.18	.34	.37											
Do	9:32 p. m.	11:30 p. m.	.51	10:15 p. m.	10:25 p. m.	.07	.14	.34												
Sept. 14	5:00 p. m.	6:55 p. m.	.58	5:04 p. m.	5:23 p. m.	.01	.23	.30	.38	.44										
Sept. 17	2:15 a. m.	11:40 a. m.	.95	5:02 a. m.	5:32 a. m.	.06	.15	.21	.25	.31	.52	.60								

[1] On previous date.

[2] On following date

[3] From defectiv crecord .

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE ATLANTIC STATES—continued																				
Scranton, Pa.:																				
May 12	2:25 p. m.	3:30 p. m.	0.36	2:54 p. m.	3:03 p. m.	0.01	0.17	0.32												
June 20	1:04 p. m.	2:40 p. m.	1.83	1:26 p. m.	2:15 p. m.	.05	.28	.47	0.59	0.86	1.04	1.17	1.46	1.61	1.68	1.74				
Aug. 11	2:15 p. m.	4:15 p. m.	1.21	2:46 p. m.	3:21 p. m.	.05	.15	.42	.67	.77	.84	.92	.99							
Aug. 14	6:17 p. m.	8:10 p. m.	.69	6:31 p. m.	6:41 p. m.	.05	.14	.30												
Sept. 7	4:24 p. m.	7:27 p. m.	.62	4:56 p. m.	5:03 p. m.	.12	.25	.34												
Sept. 13	8:40 p. m.	[2]D. N. a. m.	.97	10:14 p. m.	10:29 p. m.	.04	.08	.27	.44											
Atlantic City, N. J.:																				
Apr. 12	5:20 a. m.	8:47 a. m.	1.35	7:30 a. m.	7:50 a. m.	.78	.09	.32	.40	.49										
July 25	2:59 p. m.	4:25 p. m.	.65	3:03 p. m.	3:12 p. m.	.03	.25	.47												
Aug. 11	10:45 a. m.	12:15 p. m.	1.16	10:57 a. m.	11:50 a. m.	.01	.17	.18	.19	.21	.30	.51	.62	.80	.95	1.04	1.14			
Aug. 14–15	11:55 p. m.	D. N. a. m.	.61	11:58 p. m.	12:13 a. m.	.01	.32	.46	.52											
Sept. 14	8:32 a. m.	10:40 a. m.	.69	8:41 a. m.	9:03 a. m.	.02	.12	.24	.33	.41	.45									
Oct. 2	[4]3:53 p. m.	6:15 a. m.	2.43	3:01 a. m.	3:49 a. m.	1.35	.07	.13	.22	.34	.50	.68	.71	.75	.84	.90				
Nov. 17	8:25 p. m.	[2]7:15 a. m.	1.16	11:22 p. m.	11:42 p. m.	.39	.11	.15	.26	.47										
Sandy Hook, N. J.:																				
May 12	7:05 p. m.	8:15 p. m.	.55	7:12 p. m.	7:26 p. m.	.02	.26	.35	.43											
May 18–19	10:15 p. m.	D. N. a. m.	1.74	10:58 p. m.	12:03 a. m.	.13	.12	.43	.58	.68	.72	.83	.97	1.12	1.22	1.29	1.41	1.51		
June 25	5:45 p. m.	D. N. p. m.	.60	6:58 p. m.	7:08 p. m.	.07	.11	.31												
June 28	2:43 p. m.	6:35 p. m.	.71	2:54 p. m.	3:16 p. m.	.02	.07	.21	.41	.52	.57									
July 5	2:53 p. m.	8:15 p. m.	.78	4:50 p. m.	5:05 p. m.	.02	.12	.31	.45											
Sept. 7	4:55 p. m.	[2]9:00 a. m.	1.98	8:58 p. m.	9:26 p. m.	.20	.07	.38	.70	.79	.88	.95								
Sept. 14	5:45 a. m.	6:30 a. m.	.51	5:57 a. m.	6:09 a. m.	.03	.14	.39	.44											
Trenton, N. J.:																				
May 18	9:20 p. m.	11:51 p. m.	1.56	9:49 p. m.	10:19 p. m.	.09	.07	.25	.34	.37	.54	.59								
June 20	5:15 p. m.	6:08 p. m.	1.18	5:19 p. m.	5:38 p. m.	.01	.31	.81	1.06	1.13										
Sept. 7	9:13 p. m.	[2]8:00 a. m.	3.22	9:44 p. m.	11:08 p. m.	.07	.20	.38	.46	.52	.64	.75	.80	.95	1.05	1.24	1.47	1.67	1.78	
Sept. 8	[1]9:13 p. m.	8:00 a. m.	3.22	12:10 a. m.	12:28 a. m.	1.87	.15	.38	.68	.72										
Baltimore, Md.:																				
June 20	10:14 p. m.	11:25 p. m.	.74	10:52 p. m.	11:14 p. m.	.02	.10	.41	.54	.67	.70									
June 28	12:54 p. m.	2:15 p. m.	.69	1:00 p. m.	1:27 p. m.	.04	.21	.28	.33	.43	.51	.54								
Aug. 13	12:24 p. m.	2:00 p. m.	.66	1:14 p. m.	1:38 p. m.	.04	.10	.16	.29	.45	.60									
Aug. 14	4:00 p. m.	6:20 p. m.	1.92	4:38 p. m.	6:11 p. m.	.12	.12	.21	.31	.40	.53	.63	.77	.84	.86	.96	1.08	1.63	1.80	
Do	8:40 p. m.	9:10 p. m.	.42	8:44 p. m.	8:52 p. m.	.01	.29	.40												
Sept. 14	12:28 a. m.	D. N. a. m.	.76	1:27 a. m.	2:09 a. m.	.07	.07	.10	.15	.20	.26	.36	.50	.65	.69					
Do	4:36 p. m.	5:02 p. m.	.28	4:48 p. m.	4:54 p. m.	.01	.24	.27												
Oct. 2	[4]11:35 a. m.	11:00 a. m.	4.61	6:43 a. m.	7:57 a. m.	2.74	.11	.15	.20	.27	.34	.42	.48	.52	.65	.71	.87	1.06		
Oct. 22	7:52 a. m.	2:35 p. m.	1.20	12:22 p. m.	12:37 p. m.	.46	.11	.24	.39											
Washington, D. C.:																				
Apr. 21	2:10 p. m.	3:00 p. m.	.45	2:46 p. m.	2:51 p. m.	.16	.26													
Do	10:20 p. m.	[3]12:15 a. m.	.82	10:36 p. m.	10:54 p. m.	.02	.09	.26	.42	.46										
June 14	11:08 p. m.	[3]12:10 a. m.	.55	11:09 p. m.	11:23 p. m.	T.	.25	.45	.52											
June 22	[1]11:55 p. m.	1:50 a. m.	1.82	12:01 a. m.	12:44 a. m.	.01	.25	.63	1.07	1.36	1.49	1.51	1.53	1.65	1.75					
June 24	12:27 p. m.	2:50 p. m.	1.19	12:30 p. m.	12:37 p. m.	.01	.25	.30												
Do	12:27 p. m.	2:50 p. m.	1.19	1:13 p. m.	1:28 p. m.	.50	.31	.43	.53											
June 28	1:25 p. m.	2:25 p. m.	.95	1:32 p. m.	1:50 p. m.	.01	.30	.70	.85	.90										
Aug. 3	7:35 p. m.	10:35 p. m.	.60	8:59 p. m.	9:08 p. m.	.20	.14	.36												
Sept. 5	2:05 p. m.	3:10 p. m.	.88	2:38 p. m.	2:57 p. m.	.02	.18	.44	.71	.86										
Sept. 10	2:51 p. m.	3:10 p. m.	.54	2:51 p. m.	3:06 p. m.	0	.23	.42	.53											
Sept. 14	12:20 a. m.	1:15 a. m.	.45	12:31 a. m.	12:47 a. m.	.01	.22	.34	.39	.42										
Sept. 29	5:55 p. m.	10:50 p. m.	.93	8:12 p. m.	8:29 p. m.	.17	.21	.50	.61	.66										
Cape Henry, Va.:																				
Mar. 15	5:15 a. m.	1:25 p. m.	.97	12:33 p. m.	12:59 p. m.	.43	.10	.25	.33	.46	.51	.53								
May 19	4:00 p. m.	4:15 p. m.	.29	4:06 p. m.	4:12 p. m.	.01	.25	.28												
May 29	5:15 a. m.	10:10 a. m.	2.64	7:37 a. m.	8:50 a. m.	.10	.09	.25	.41	.55	.62	.71	.84	1.14	1.50	1.77	2.07	2.46		
June 15	10:50 a. m.	5:40 p. m.	1.89	12:44 p. m.	1:15 p. m.	.03	.39	.83	1.18	1.48	1.56	1.64	1.65							
June 18	12:20 a. m.	6:40 a. m.	.99	4:25 a. m.	4:46 a. m.	.26	.19	.22	.29	.42	.50									
July 14	9:15 p. m.	11:50 p. m.	.55	9:21 p. m.	9:31 p. m.	.01	.20	.34												
July 27	9:55 a. m.	10:40 a. m.	.47	10:11 a. m.	10:23 a. m.	.01	.21	.44	.46											
Aug. 11	2:45 p. m.	3:40 p. m.	.81	3:11 p. m.	3:25 p. m.	.05	.27	.57	.74											
Sept. 5	3:10 a. m.	2:50 p. m.	2.59	10:40 a. m.	11:28 a. m.	1.06	.08	.23	.31	.38	.54	.62	.82	1.03	1.15	1.24				
Oct. 22	8:30 a. m.	11:50 a. m.	1.38	9:57 a. m.	11:20 a. m.	.01	.07	.18	.22	.23	.30	.36	.39	.45	.53	.62	.85	1.18	1.33	
Nov. 3	6:30 p. m.	[2]7:20 a. m.	1.07	7:11 p. m.	7:35 p. m.	.08	.08	.19	.25	.36	.45									
Lynchburg, Va.:																				
Apr. 25	6:35 p. m.	8:10 p. m.	.75	7:26 p. m.	7:52 p. m.	.01	.17	.48	.49	.58	.65	.69								
June 12	7:45 p. m.	9:40 p. m.	.57	7:58 p. m.	8:24 p. m.	.01	.08	.16	.34	.43	.48	.52								
June 13	7:20 p. m.	8:20 p. m.	.46	7:34 p. m.	7:42 p. m.	.01	.27	.42												
June 15	3:25 p. m.	4:00 p. m.	.36	3:41 p. m.	3:50 p. m.	.01	.20	.34												
July 9	9:20 p. m.	10:50 p. m.	.30	10:14 p. m.	10:20 p. m.	.01	.25	.28												
July 14	4:45 p. m.	5:30 p. m.	.47	5:00 p. m.	5:21 p. m.	.01	.05	.13	.30	.44	.46									
Aug. 24	5:55 p. m.	9:15 p. m.	.80	6:03 p. m.	6:36 p. m.	.01	.06	.13	.20	.27	.36	.48	.60							
Aug. 29	11:10 a. m.	1:00 p. m.	.87	12:25 p. m.	12:49 p. m.	.04	.14	.32	.48	.73	.80									
Nov. 17	9:30 p. m.	[4]4:20 a. m.	1.35	10:10 p. m.	10:37 p. m.	.01	.06	.14	.28	.43	.52	.56								
Norfolk, Va.:																				
May 29	7:00 a. m.	10:30 a. m.	2.64	8:35 a. m.	9:25 a. m.	.23	.09	.32	.72	1.10	1.35	1.58	1.81	2.05	2.22	2.30				
July 15	D. N. a. m.	D. N. a. m.	.42	2:40 a. m.	2:48 a. m.	.02	.31	.40												
Aug. 11	2:40 p. m.	3:30 p. m.	1.20	2:51 p. m.	3:16 p. m.	.01	.24	.34	.51	.84	1.18									
Aug. 29	6:35 p. m.	9:30 p. m.	.87	6:44 p. m.	7:03 p. m.	.05	.31	.54	.67	.72										
Nov. 3	6:35 p. m.	[2]D. N. a. m.	1.13	6:46 p. m.	7:14 p. m.	.02	.05	.20	.30	.36	.58	.63								

[1] On previous date.

[2] On following date.

[4] Two days previous.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE ATLANTIC STATES—continued																				
Richmond, Va.:																				
Feb. 26	12:02 p. m.	3:33 p. m.	0.83	2:07 p. m.	2:37 p. m.	0.17	0.10	0.21	0.30	0.36	0.40	0.50								
Apr. 25	10:15 p. m.	[2] 12:20 a. m.	.85	10:37 p. m.	10:46 p. m.	.02	.17	.33												
May 31	6:25 p. m.	9:45 p. m.	1.31	6:39 p. m.	7:02 p. m.	.01	.17	.65	.87	1.06	1.13									
June 24	5:45 p. m.	6:05 p. m.	.37	5:49 p. m.	6:00 p. m.	.01	.23	.34	.36											
June 28	4:17 p. m.	5:03 p. m.	.41	4:32 p. m.	4:42 p. m.	.04	.14	.32												
July 19	3:28 p. m.	3:50 p. m.	.32	3:31 p. m.	3:37 p. m.	.01	.27	.30												
Aug. 29	2:27 p. m.	4:55 p. m.	.72	2:36 p. m.	2:43 p. m.	.01	.29	.32												
Oct. 22	[1] 7:16 p. m.	11:20 a. m.	4.81	6:09 a. m.	6:59 a. m.	.66	.07	.27	.62	.75	.91	1.00	1.15	1.18	1.22	1.28				
				6:59 a. m.	7:49 a. m.		1.32	1.35	1.41	1.48	1.62	1.70	1.80	1.89	1.92	1.92				
				7:49 a. m.	8:39 a. m.		1.93	2.09	2.13	2.20	2.32	2.42	2.44	2.46	2.59	2.69				
				8:39 a. m.	9:29 a. m.		2.82	3.07	3.25	3.52	3.54	3.58	3.61	3.71	3.77	3.87				
Wytheville, Va.:																				
June 8	12:35 p. m.	5:45 p. m.	.80	1:40 p. m.	1:49 p. m.	.02	.20	.32												
June 24	9:35 p. m.	[2] D. N. a. m.	.41	10:09 p. m.	10:20 p. m.	.02	.19	.31	.34											
June 28	4:07 p. m.	4:28 p. m.	.51	4:07 p. m.	4:25 p. m.	0	.27	.39	.44	.51										
July 10	4:04 p. m.	6:50 p. m.	.76	4:04 p. m.	4:36 p. m.	0	.11	.25	.43	.55	.58	.65	.69							
Aug. 23	7:34 a. m.	9:06 a. m.	.62	7:52 a. m.	8:18 a. m.	.04	.11	.24	.31	.34	.49	.53								
Sept. 10	1:55 p. m.	2:38 p. m.	.54	1:55 p. m.	2:11 p. m.	0	.11	.39	.50	.52										
Sept. 30	2:08 p. m.	4:40 p. m.	.57	2:31 p. m.	2:48 p. m.	.08	.13	.29	.38	.43										
SOUTH ATLANTIC STATES																				
Asheville, N. C.: [4]																				
Sept. 30	3:01 p. m.	[6] D. N. a. m.	4.71	3:05 p. m.	4:46 p. m.	.01	.12	.35	.56	.68	.75	.87	.93	.97	1.05	1.13	1.28	1.47	1.70	1.86
Charlotte, N. C.: [5]																				
June 14	7:50 p. m.	9:40 p. m.	1.80	8:00 p. m.	8:39 p. m.	.01	.18	.50	.55	.69	.97	1.30	1.59	1.66						
Nov. 3	4:10 p. m.	[2] 8:40 a. m.	1.69	4:14 p. m.	4:41 p. m.	.01	.35	.70	.97	1.14	1.27	1.31								
Greensboro, N. C.: [5]																				
Aug. 7	5:00 p. m.	9:50 p. m.	1.21	6:43 p. m.	7:46 p. m.	.10	.11	.30	.35	.43	.46	.52	.64	.76	.79	.82	1.02	1.10		
Aug. 19	4:26 p. m.	8:40 p. m.	1.46	5:29 p. m.	6:05 p. m.	.07	.23	.35	.49	.80	.92	1.05	1.30	1.34						
Hatteras, N. C.: [5]																				
July 21	[1] 7:17 a. m.	10:45 a. m.	8.00	3:05 a. m.	3:51 a. m.	1.74	.08	.18	.28	.42	.74	.94	1.12	1.26	1.49	1.51				
Do	[1] 7:17 a. m.	10:45 a. m.	8.00	6:21 a. m.	7:47 a. m.	4.20	.10	.19	.45	.69	.76	.86	1.20	1.40	1.65	1.79	2.17	2.93	3.08	
Aug. 25–26	D. N. p. m.	D. N. a. m.	1.59	11:54 p. m.	12:59 a. m.	.02	.06	.19	.30	.37	.53	.61	.70	.84	.98	1.05	1.21	1.37		
Dec. 18	D. N. a. m.	3:15 p. m.	2.47	12:34 p. m.	1:34 p. m.	.93	.42	.44	.45	.45	.47	.47	.63	.78	.80	1.16	1.32			
Raleigh, N. C.: [5]																				
July 1–2	10:00 p. m.	D. N. a. m.	1.62	11:22 p. m.	12:05 a. m.	.06	.10	.21	.27	.52	.96	1.17	1.30	1.39	1.42					
Wilmington, N. C.: [5]																				
Aug. 16	1:10 a. m.	4:00 a. m.	1.27	2:20 a. m.	2:39 a. m.	.15	.20	.57	.96	1.09										
Aug. 20	[3] D. N. p. m.	D. N. a. m.	1.48	1:50 a. m.	2:09 a. m.	.12	.15	.52	.89	1.14										
Aug. 25	[1] 9:35 p. m.	D. N. a. m.	1.78	12:01 a. m.	12:54 a. m.	.22	.26	.50	.63	.73	.86	1.01	1.27	1.37	1.40	1.48	1.54			
Sept. 14	D. N. a. m.	12:00 noon	2.66	5:51 a. m.	6:21 a. m.	.16	.20	.30	.45	.81	1.03	1.17								
Oct. 22	D. N. a. m.	D. N. a. m.	1.18	4:01 a. m.	5:01 a. m.	.08	.14	.18	.24	.27	.30	.37	.49	.64	.80	.90	1.08			
Charleston, S. C.: [5]																				
July 31	12:23 p. m.	4:07 p. m.	2.16	12:25 p. m.	1:28 p. m.	.01	.29	.68	.93	1.12	1.14	1.17	1.18	1.19	1.28	1.50	1.67	1.83		
Aug. 17	12:55 p. m.	3:15 p. m.	1.30	1:30 p. m.	2:09 p. m.	.16	.10	.34	.60	.86	.90	.93	1.00	1.05						
Columbia, S. C.: [5]																				
July 26	4:42 p. m.	5:40 p. m.	1.21	4:56 p. m.	5:15 p. m.	.03	.25	.71	1.06	1.17										
July 30	4:40 p. m.	8:50 p. m.	2.63	5:29 p. m.	6:12 p. m.	.23	.13	.39	.80	1.34	1.63	1.78	1.99	2.12	2.19					
Aug. 17	4:00 p. m.	7:35 p. m.	1.63	4:54 p. m.	5:36 p. m.	.02	.18	.46	.75	1.00	1.18	1.29	1.37	1.44	1.48					
Aug. 29	6:15 p. m.	10:30 p. m.	1.50	7:12 p. m.	7:58 p. m.	.01	.12	.31	.45	.59	.75	.88	.96	1.03	1.08	1.11				
Due West, S. C.: [5]																				
Sept. 16	1:41 p. m.	3:40 p. m.	1.14	2:02 p. m.	2:25 p. m.	.02	.35	.66	.91	1.03	1.10									
Sept. 26	[1] 11:51 a. m.	[2] 5:45 p. m.	8.98	11:44 a. m.	12:44 p. m.	3.81	.13	.29	.35	.39	.45	.51	.60	.74	.96	1.15	1.51			
Greenville, S. C.: [7]																				
Apr. 11	11:58 a. m.	1:59 p. m.	.68	12:20 p. m.	12:40 p. m.	.02	.16	.36	.48	.56										
Apr. 25	3:35 p. m.	4:10 p. m.	.51	3:50 p. m.	4:04 p. m.	.01	.09	.36	.50											
Apr. 28	D. N. a. m.	9:30 a. m.	.93	8:02 a. m.	8:31 a. m.	.34	.05	.16	.22	.31	.40	.50								
Aug. 11	2:00 p. m.	3:30 p. m.	.71	2:08 p. m.	2:20 p. m.	.01	.28	.61	.66											
Sept. 10	2:15 p. m.	5:10 p. m.	.78	2:21 p. m.	2:41 p. m.	.01	.10	.27	.47	.65										
Sept. 16	8:15 p. m.	[2] D. N. a. m.	1.80	10:49 p. m.	11:25 p. m.	.65	.05	.10	.26	.36	.44	.61	.80	.82						
Sept. 26	[1] 12:30 p. m	[2] 7:15 a. m.	7.40	11:47 a. m.	12:07 p. m.	3.95	.07	.22	.41	.50										
Sept. 30	12:05 p. m.	[2] D. N. p. m.	4.74	6:39 p. m.	7:04 p. m.	.04	.07	.23	.33	.48	.53									
Oct. 21	D. N. a. m.	1:00 p. m.	2.47	7:12 a. m.	8:40 a. m.	.89	.07	.17	.25	.42	.48	.54	.61	.67	.70	.74	.97	1.15	1.28	
Do	3:25 p. m.	5:30 p. m.	.73	4:03 p. m.	4:18 p. m.	.06	.11	.35	.52											
Augusta, Ga.: [5]																				
May 20	2:45 p. m.	3:20 p. m.	1.53	2:51 p. m.	3:13 p. m.	.01	.28	.79	1.10	1.41	1.52									
June 8 [3]	4:00 p. m.	5:20 p. m.	1.50	4:05 p. m.	4:25 p. m.	.01	.32	.76	1.18	1.45										
July 6	5:15 p. m.	6:15 p. m.	1.47	5:17 p. m.	5:55 p. m.	.01	.19	.41	.65	.84	1.09	1.27	1.33	1.40						
July 19	5:05 p. m.	7:35 p. m.	1.97	5:46 p. m.	6:25 p. m.	.01	.08	.33	.80	1.19	1.51	1.69	1.85	1.92						
Sept. 26	5:00 p. m.	[2] 8:30 p. m.	8.41	6:58 p. m.	7:51 p. m.	.15	.16	.26	.51	.75	.90	1.04	1.12	1.26	1.32	1.36	1.48			
Do	5:00 p. m.	[2] 8:30 p. m.	8.41	9:34 p. m.	10:16 p. m.	2.16	.11	.28	.50	.65	.77	.84	.95	1.18	1.25					
Oct. 1	7:40 a. m.	1:45 p. m.	3.13	12:14 p. m.	1:11 p. m.	.66	.21	.51	.85	1.21	1.51	1.65	1.78	1.83	2.00	2.13	2.36			
				4:02 p. m.	4:52 p. m.	.54	.13	.22	.31	.42	.53	.69	1.01	1.29	1.52	1.62				
Do	2:10 p. m.	11:00 p. m.	4.78	4:52 p. m.	5:42 p. m.		1.81	1.88	1.98	2.06	2.14	2.15	2.21	2.29	2.36	2.43				
				5:42 p. m.	6:10 p. m.		2.53	2.62	2.69	2.78	2.87	2.94								
Savannah, Ga.: [4]																				
June 2	8:19 p. m.	[2] D. N. a. m.	2.11	8:25 p. m.	9:16 p. m.	.01	.23	.48	.63	.88	1.10	1.25	1.31	1.37	1.44	1.68	1.75			
July 13	10:40 a. m.	1:42 p. m.	1.17	10:47 a. m.	11:41 a. m.	.01	.17	.26	.38	.39	.39	.56	.76	.89	.96	1.09	1.14			
Aug. 1	2:00 p. m.	3:35 p. m.	1.08	2:10 p. m.	2:53 p. m.	.04	.16	.22	.28	.48	.71	.78	.87	.98	1.02					
Aug. 9	2:51 p. m.	4:30 p. m.	1.23	2:58 p. m.	3:31 p. m.	.01	.20	.35	.45	.69	.90	1.12	1.17							
Aug. 22	D. N. a. m.	9:12 a. m.	2.78	5:17 a. m.	6:25 a. m.	.34	.14	.38	.58	.68	.92	1.27	1.38	1.49	1.65	1.81	2.04	2.24		

[1] On previous date.
[2] On following date.
[3] From defective record.
[4] Only storms attaining 1 inch or more in 1 hour or less.
[5] Two days later.
[7] Only storms attaining 0.50 inch or more in 30 minutes or less.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—	Amount before excessive rate began	5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
SOUTH ATLANTIC STATES—contd.																				
Jacksonville, Fla.:[3]																				
May 11	2:17 p. m.	4:46 p. m.	2.05	2:54 p. m.	3:39 p. m.	0.02	0.15	0.33	0.47	0.66	0.99	1.22	1.50	1.67	1.81					
July 16	2:54 p. m.	5:45 p. m.	1.26	2:59 p. m.	3:19 p. m.	.01	.17	.61	.80	1.01										
Sept. 19	D.N.a.m.	8:05 a. m.	1.44	4:34 a. m.	5:38 a. m.	.11	.05	.11	.14	.25	.36	.46	.55	.69	.81	0.90	1.01	1.10		
FLORIDA PENINSULA																				
Key West, Fla.:[4]																				
May 21	9:31 p. m.	[2] D.N.a.m.	3.82	9:43 p. m.	11:15 p. m.	.02	.39	.93	1.13	1.27	1.37	1.48	1.58	1.82	2.13	2.38	2.79	3.15	3.38	
June 2	[1] 10:45 p. m.	7:58 a. m.	1.63	3:26 a. m.	4:08 a. m.	.43	.10	.21	.30	.51	.73	.81	.86	1.01	1.05					
Aug. 18	10:15 p. m.	[2] 6:50 a. m.	1.73	10:19 p. m.	11:08 p. m.	.01	.22	.25	.41	.44	.63	.99	1.17	1.23	1.28	1.33				
Oct. 11	5:30 p. m.	[2] D.N.a.m.	3.00	5:46 p. m.	6:53 p. m.	.02	.19	.41	.60	.70	.78	.82	.85	.92	1.02	1.05	1.19	1.47		
Dec. 18	7:15 a. m.	2:20 p. m.	1.90	11:21 a. m.	1:00 p. m.	.04	.15	.26	.32	.43	.44	.46	.55	.65	.96	1.12	1.32	1.51	1.78	
Miami, Fla.:[5]																				
Mar. 18	10:45 a. m.	9:40 p. m.	3.40	2:33 p. m.	3:54 p. m.	.53	.12	.29	.35	.40	.46	.57	.65	.72	.85	.91	1.21	1.86	1.97	
Apr. 9	10:52 a. m.	11:47 a. m.	1.63	10:55 a. m.	11:32 a. m.	.02	.29	.36	.41	.62	.92	1.30	1.52	1.59						
May 5	4:43 p. m.	8:25 p. m.	2.00	6:37 p. m.	7:23 p. m.	.48	.18	.33	.51	.88	1.15	1.19	1.23	1.32	1.44	1.47				
May 21	4:48 p. m.	D.N.p.m.	2.48	4:48 p. m.	5:37 p. m.	0	.33	.57	.69	.86	1.23	1.52	1.73	1.87	1.97	2.03				
June 11	10:52 a. m.	11:43 a. m.	1.72	10:52 a. m.	11:22 a. m.	0	.11	.17	.44	.87	1.41	1.63								
July 2	6:12 p. m.	9:30 p. m.	1.46	6:17 p. m.	6:50 p. m.	.01	.29	.62	.85	1.05	1.21	1.28	1.34							
July 17	2:04 p. m.	3:43 p. m.	1.08	2:22 p. m.	3:15 p. m.	.05	.24	.40	.54	.58	.64	.65	.66	.75	.84	.92	1.01			
Sept. 22	2:27 p. m.	6:10 p. m.	2.20	2:33 p. m.	3:36 p. m.	.01	.22	.43	.63	.83	1.08	1.19	1.23	1.27	1.42	1.63	1.92	2.04		
Sept. 28	D.N.a.m.	[2] D.N.a.m.	10.48	7:37 p. m.	9:25 p. m.	7.10	.14	.23	.32	.50	.69	.80	.91	.95	1.13	1.19	1.25	1.36	1.94	2.07
Oct. 5	9:45 p. m.	[2] D.N.a.m.	1.12	9:58 p. m.	10:51 p. m.	.01	.15	.31	.52	.59	.62	.73	.85	.90	.96	1.01	1.08			
Oct. 19	[1] 2:10 p. m.	6:15 a. m.	4.07	3:29 a. m.	5:24 a. m.	.24	.32	.56	.87	1.06	1.20	1.39	1.63	1.89	2.14	2.35	2.69	2.98	3.45	3.75
Dec. 11	D.N.a.m.	3:50 p. m.	4.91	9:59 a. m.	10:51 a. m.	.25	.21	.34	.47	.56	.62	.67	.70	.77	.96	1.12	1.20			
				11:28 a. m.	12:18 p. m.	1.59	.31	.57	.66	.74	.83	.98	1.27	1.45	1.55	1.60				
Do	D.N.a.m.	3:50 p. m.	4.91	12:18 p. m.	1:08 p. m.		1.68	1.90	2.08	2.23	2.34	2.46	2.58	2.66	2.69	2.71				
				1:08 p. m.	1:31 p. m.		2.73	2.77	2.83	2.99	3.05									
Tampa, Fla.:[5]																				
June 20	2:40 p. m.	3:52 p. m.	1.14	2:42 p. m.	3:39 p. m.	.01	.24	.50	.59	.60	.60	.61	.61	.61	.74	.89	1.12			
June 30	1:20 p. m.	3:00 p. m.	2.13	1:29 p. m.	2:42 p. m.	.05	.15	.29	.32	.32	.37	.39	.54	.78	1.19	1.50	1.82	2.07		
July 8	1:59 p. m.	4:25 p. m.	1.63	2:01 p. m.	3:05 p. m.	.01	.23	.48	.51	.51	.51	.58	.77	.87	.89	.92	1.47	1.60		
July 20	7:50 p. m.	11:00 p. m.	1.92	8:12 p. m.	9:23 p. m.	.10	.26	.59	.75	.93	1.06	1.08	1.11	1.19	1.28	1.34	1.55	1.76		
Aug. 21	1:00 p. m.	8:07 p. m.	1.56	1:41 p. m.	2:01 p. m.	.06	.21	.65	1.01	1.15										
Sept. 6	4:00 p. m.	8:12 p. m.	2.32	4:35 p. m.	5:42 p. m.	.17	.26	.45	.64	.84	.95	1.03	1.14	1.19	1.25	1.29	1.39	1.75		
Sept. 7	4:01 p. m.	6:30 p. m.	1.17	4:05 p. m.	4:35 p. m.	.01	.14	.37	.62	.84	.94	1.03								
Sept. 8	2:00 p. m.	6:12 p. m.	2.18	2:21 p. m.	3:24 p. m.	.05	.08	.32	.38	.38	.38	.38	.38	.40	.53	.90	1.46	1.73		
EAST GULF STATES																				
Atlanta, Ga.:[3]																				
May 27	12:25 p. m.	3:10 p. m.	1.69	1:14 p. m.	1:40 p. m.	.39	.09	.20	.42	.69	.99	1.03								
Macon, Ga.:[4]																				
June 15	11:28 a. m.	1:21 p. m.	3.12	11:35 a. m.	12:46 p. m.	.01	.17	.58	.91	1.17	1.54	1.91	2.24	2.40	2.51	2.54	2.74	2.95		
Aug. 11	5:43 p. m.	6:57 p. m.	1.68	5:52 p. m.	6:25 p. m.	.01	.29	.55	.78	.93	1.04	1.38	1.50							
Oct. 1	[1] 4:55 p. m.	D.N.p.m.	6.76	6:10 a. m.	6:51 a. m.	.88	.10	.31	.60	.72	.81	.96	1.01	1.13	1.15					
Nov. 3	5:11 p. m.	[2] D.N.a.m.	2.54	5:59 p. m.	7:19 p. m.	.05	.21	.56	.75	1.03	1.03	1.03	1.04	1.13	1.24	1.30	1.50	1.89		
Thomasville, Ga.:[3]																				
Mar. 15	7:36 a. m.	7:32 p. m.	2.86	8:12 a. m.	8:47 a. m.	.04	.10	.50	.76	.94	1.05	1.30	1.39							
June 21	6:10 p. m.	D.N.p.m.	1.29	6:16 p. m.	6:40 p. m.	.01	.27	.48	.71	.99	1.06									
July 12	8:36 p. m.	10:24 p. m.	1.23	8:42 p. m.	9:48 p. m.	.01	.24	.34	.47	.65	.72	.76	.79	.84	.91	1.02	1.12	1.21		
July 16	4:04 p. m.	6:36 p. m.	1.25	4:25 p. m.	5:00 p. m.	.02	.31	.69	.84	.92	1.00	1.11	1.20							
Aug. 7	12:16 p. m.	5:20 p. m.	1.53	12:18 p. m.	12:55 p. m.	.01	.12	.33	.62	.88	1.08	1.23	1.31	1.35						
Aug. 9	8:14 p. m.	D.N.p.m.	2.77	8:19 p. m.	9:34 p. m.	.01	.08	.28	.61	.84	1.11	1.48	1.69	1.72	1.84	1.96	2.21	2.41		
Apalachicola, Fla.:[5]																				
Feb. 9	8:05 p. m.	D.N.p.m.	3.11	8:07 p. m.	8:58 p. m.	.01	.21	.45	.65	.83	.94	1.04	1.09	1.11	1.17	1.31	1.38			
Do	8:05 p. m.	D.N.p.m.	3.11	9:56 p. m.	10:48 p. m.	1.58	.19	.45	.65	.79	.90	1.02	1.17	1.27	1.31	1.36	1.46			
Mar. 15	8:55 a. m.	4:50 p. m.	4.09	9:20 a. m.	10:59 a. m.	.04	.19	.51	.69	.77	.95	1.08	1.23	1.26	1.38	1.52	1.75	2.21	2.57	
June 15	6:49 a. m.	12:50 p. m.	3.36	6:46 a. m.	8:10 a. m.	.01	.10	.17	.19	.21	.27	.41	.65	.98	1.21	1.40	1.88	2.61	2.77	
Aug. 14	2:05 p. m.	4:10 p. m.	1.68	3:39 p. m.	4:02 p. m.	.43	.29	.62	.91	1.04	1.25									
Aug. 25	11:05 p. m.	[2] D.N.a.m.	1.16	11:18 p. m.	12 midn't.	.05	.07	.15	.25	.40	.50	.64	.87	1.04	1.07					
Pensacola, Fla.:[3]																				
Mar. 15	1:10 a. m.	3:15 a. m.	1.44	1:21 a. m.	2:07 a. m.	.03	.09	.20	.55	.77	.79	.83	.86	.97	1.22	1.24				
July 5	12:10 p. m.	4:45 p. m.	1.81	12:16 p. m.	1:26 p. m.	.01	.09	.14	.21	.38	.52	.54	.55	.56	.71	.86	1.41	1.70		
Sept. 3	5:52 a. m.	2:51 p. m.	4.39	8:44 a. m.	10:34 a. m.	1.24	.10	.19	.28	.34	.43	.55	.61	.77	.83	.98	1.17	1.41	1.68	2.05
Anniston, Ala.:[5]																				
Mar. 23	3:25 a. m.	4:55 a. m.	1.70	3:39 a. m.	4:16 a. m.	.04	.11	.17	.28	.48	.78	1.20	1.52	1.59						
Apr. 25	[1] 9:05 p. m.	3:55 a. m.	1.98	12 mdn't.	12:55 a. m.	.28	.12	.20	.29	.37	.45	.51	.58	.75	.88	.95	1.00			
July 17	9:00 a. m.	10:30 a. m.	3.13	9:06 a. m.	10:05 a. m.	.01	.21	.38	.82	1.25	1.54	1.97	2.23	2.51	2.73	2.94	3.09			
Birmingham, Ala.:[5]																				
Mar. 13–14	11:51 a. m.	D.N.a.m.	4.12	11:39 p. m.	12:15 a. m.	1.70	.08	.15	.26	.38	.70	1.10	1.49	1.56						
Apr. 30	3:55 p. m.	7:00 p. m.	2.09	5:15 p. m.	5:49 p. m.	.31	.27	.69	.95	1.04	1.30	1.54	1.62							
May 17	1:45 p. m.	6:59 p. m.	2.51	2:19 p. m.	3:22 p. m.	.02	.09	.25	.52	.64	.75	.79	.80	.84	.93	.97	1.28	1.86		
June 14	1:05 a. m.	D.N.a.m.	3.21	1:07 a. m.	2:30 a. m.	.02	.13	.49	.55	.63	.67	.93	1.20	1.48	1.65	1.90	2.16	2.86	3.04	
Nov. 14	[1] 10:00 p. m.	D.N.p.m.	4.53	9:40 a. m.	11:00 a. m.	2.05	.09	.17	.20	.24	.27	.33	.37	.51	.69	.91	1.19	1.45		

[1] On previous date. [2] On following date. [3] From defective record. [4] Only storms attaining 1 inch or more in 1 hour or less.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
EAST GULF STATES—continued																				
Mobile, Ala.:[5]																				
Feb. 26	10:25 a. m.	6:15 p. m.	1.87	12 noon.	12:48 p. m.	0.07	0.10	0.21	0.38	0.53	0.65	0.71	0.88	0.95	1.06	1.11				
Mar. 14	D. N. a. m.	11:58 a. m.	7.29	5:08 a. m.	5:58 a. m.	1.06	.06	.20	.21	.26	.30	.35	.52	.72	.86	.95				
				5:58 a. m.	6:48 a. m.		.98	1.05	1.19	1.26	1.36	1.43	1.50	1.57	1.60	1.61				
				6:48 a. m.	7:38 a. m.		1.69	1.72	1.87	1.95	2.05	2.15	2.28	2.37	2.42	2.43				
				7:38 a. m.	8:28 a. m.		2.49	2.57	2.68	2.69	2.81	2.90	3.02	3.06	3.22	3.28				
				8:28 a. m.	9:18 a. m.		3.32	3.34	3.40	3.41	3.51	3.58	3.75	3.94	4.14	4.31				
				9:18 a. m.	10:08 a. m.		4.43	4.51	4.55	4.61	4.66	4.67	4.74	4.87	4.95	4.99				
				10:08 a. m.	10:57 a. m.		5.04	5.04	5.04	5.07	5.11	5.21	5.41	5.52	5.77	5.95				
Do	6:54 p. m.	[1]D. N. a. m.	4.18	9:54 p. m.	10:56 p. m.	.89	.14	.41	.65	.85	1.15	1.48	1.81	1.86	2.04	2.14	2.32	2.37		
May 31	5:50 p. m.	8:35 p. m.	2.07	5:54 p. m.	6:21 p. m.	.02	.43	1.16	1.33	1.47	1.56	1.60								
June 24	2:55 p. m.	[2] 3:25 p. m.	5.84	7:56 p. m.	8:27 p. m.	1.04	.08	.22	.52	.72	.86	.97	1.01							
Aug. 12	3:55 p. m.	D. N. p. m.	1.51	4:03 p. m.	4:48 p. m.	.02	.10	.26	.46	.66	.83	.90	1.04	1.12	1.18					
Aug. 13	2:18 p. m.	3:10 p. m.	1.65	2:19 p. m.	3:03 p. m.	.01	.16	.41	.50	.56	.62	.84	1.15	1.54	1.64					
Nov. 11	10:05 p. m.	[1]D. N. a. m.	2.06	11:06 p. m.	11:31 p. m.	.18	.06	.37	.92	1.20	1.25									
Montgomery, Ala.:[5]																				
Feb. 26	7:10 a. m.	4:48 p. m.	2.94	7:29 a. m.	7:57 a. m.	.01	.15	.64	.93	1.19	1.35	1.41								
Mar. 14	[1] 8:20 p. m.	10:50 a. m.	2.58	1:58 a. m.	3:11 a. m.	.07	.23	.38	.52	.70	.77	.84	.91	.98	1.12	1.24	1.43	1.60		
May 7	D. N. a. m.	9:40 a. m.	4.24	6:18 a. m.	8:09 a. m.	.62	.08	.19	.37	.64	.86	1.11	1.36	1.78	2.09	2.15	2.22	2.46	2.85	3.36
June 24	2:45 p. m.	5:30 p. m.	1.34	2:45 p. m.	3:19 p. m.	0	.09	.28	.48	.71	.91	1.01	1.06							
July 8	5:40 p. m.	7:55 p. m.	1.51	5:42 p. m.	6:26 p. m.	.01	.25	.40	.70	.74	.74	.81	1.12	1.34	1.42					
Nov. 3	12:34 p. m.	6:25 p. m.	2.59	12:57 p. m.	1:47 p. m.	.19	.17	.35	.51	.64	.75	.91	1.06	1.17	1.27	1.37				
Meridian, Miss.:[5]																				
Mar. 21	7:00 a. m.	8:20 p. m.	3.54	4:37 p. m.	5:48 p. m.	1.97	.07	.20	.32	.35	.38	.42	.46	.77	1.06	1.09	1.17	1.38		
June 1	10:50 p. m.	11:45 p. m.	1.48	10:55 p. m.	11:29 p. m.	.01	.07	.35	.56	.83	1.18	1.29	1.38							
Sept. 10	3:55 p. m.	6:30 p. m.	1.59	3:55 p. m.	5:05 p. m.	.00	.09	.31	.49	.58	.67	.79	.83	.88	.91	.92	1.09	1.47		
Nov. 12–13	9:00 p. m.	4:47 a. m.	1.88	11:47 p. m.	12:20 a. m.	.45	.20	.39	.62	.81	1.06	1.09	1.19							
Vicksburg, Miss.:[5]																				
Mar. 22	7:02 a. m.	8:55 a. m.	1.34	7:41 a. m.	8:27 a. m.	.23	.31	.51	.67	.79	.84	.85	.89	.95	1.08	1.10				
June 13	D. N. p. m.	[2]D. N. a. m.	1.18	11:17 p. m.	11:46 p. m.	.05	.22	.47	.96	.99	1.07	1.13								
Nov. 12	4:15 p. m.	D. N. p. m.	1.81	5:47 p. m.	6:17 p. m.	.06	.12	.38	.59	1.02	1.50	1.67								
New Orleans, La.:[5]																				
Jan. 5	[1] 9:00 p. m.	8:35 a. m.	2.18	4:36 a. m.	4:56 a. m.	.50	.11	.42	.83	1.14										
Jan. 9	10:15 p. m.	[2]D. N. a. m.	1.82	10:28 p. m.	11:17 p. m.	.04	.35	.47	.56	.64	.69	.74	.89	.99	1.12	1.20				
July 16	8:35 a. m.	2:35 p. m.	2.90	9:02 a. m.	10:45 a. m.	.08	.15	.46	.69	.89	1.06	1.24	1.53	1.71	1.83	1.92	2.07	2.41	2.65	2.73
July 25	12:02 p. m.	5:10 p. m.	2.70	12:04 p. m.	1:03 p. m.	.01	.19	.23	.26	.54	1.09	1.49	1.72	1.84	1.91	2.01	2.27			
July 29	1:23 p. m.	4:20 p. m.	2.17	1:43 p. m.	2:28 p. m.	.10	.14	.41	.79	1.18	1.48	1.66	1.83	1.91	1.97					
Aug. 5	1:54 p. m.	4:58 p. m.	2.92	3:23 p. m.	4:47 p. m.	.47	.36	.67	.82	1.05	1.19	1.35	1.45	1.51	1.63	1.80	1.92	2.38	2.45	
Sept. 6	2:10 p. m.	7:22 p. m.	1.45	5:39 p. m.	6:36 p. m.	.29	.09	.21	.45	.48	.50	.52	.58	.62	.70	.92	1.16			
Sept. 6–7	8:50 p. m.	8:08 a. m.	8.86	10:40 p. m.	12:07 a. m.	.01	.11	.26	.47	.60	.72	.90	1.09	1.36	1.42	1.55	1.60	2.07	2.46	
				1:04 a. m.	1:54 a. m.	2.65	.11	.15	.44	.82	1.17	1.70	2.09	2.33	2.54	2.71				
Sept. 7	[1] 8:50 p. m.	8:08 a. m.	8.86	1:54 a. m.	2:44 a. m.		2.95	3.08	3.20	3.31	3.50	3.77	4.15	4.48	4.89	5.10				
				2:44 a. m.	3:18 a. m.		5.29	5.54	5.62	5.64	5.79	5.84	5.91							
Sept. 12	1:45 p. m.	3:25 p. m.	1.31	1:52 p. m.	2:41 p. m.	.01	.08	.14	.28	.53	.76	.96	1.04	1.10	1.19	1.26				
Oct. 28	[1] 6:40 a. m.	2:00 p. m.	4.92	3:45 a. m.	4:51 a. m.	1.92	.06	.12	.26	.40	.45	.55	.72	.80	.99	1.33	1.79	1.99		
Nov. 11	8:12 p. m.	[2] 4:20 a. m.	2.38	9:53 p. m.	10:52 p. m.	.84	.08	.14	.32	.42	.48	.56	.78	.91	1.05	1.17	1.38			
WEST GULF STATES																				
Shreveport, La.:[5]																				
Sept. 10	2:20 p. m.	5:35 p. m.	1.18	2:20 p. m.	2:50 p. m.	0	.09	.22	.49	.83	.92	1.02								
Sept. 13	4:40 a. m.	11:20 a. m.	4.02	4:50 a. m.	6:07 a. m.	.02	.08	.14	.15	.21	.25	.35	.40	.42	.58	1.07	1.56	2.35		
Do	4:40 a. m.	11:20 a. m.	4.02	7:37 a. m.	8:27 a. m.	2.47	.16	.42	.47	.59	.60	.73	.82	1.06	1.15	1.45				
Fort Smith, Ark.:[5]																				
Mar. 27	4:55 a. m.	2:55 p. m.	2.19	5:38 a. m.	7:00 a. m.	.02	.20	.38	.50	.79	.98	1.07	1.11	1.16	1.21	1.26	1.34	1.55	1.72	
June 22	7:22 p. m.	[2]D. N. a. m.	2.17	7:33 p. m.	8:01 p. m.	.01	.27	.45	.57	.70	1.00	1.13								
Little Rock, Ark.:[5]																				
June 24	10:05 p. m.	[2]D. N. a. m.	1.95	10:47 p. m.	11:30 p. m.	.07	.13	.41	.72	.93	1.05	1.13	1.30	1.38	1.45					
Oct. 30	7:55 p. m.	10:15 p. m.	2.60	8:45 p. m.	10:01 p. m.	.02	.13	.24	.30	.32	.46	.67	.84	.99	1.32	1.66	2.27	2.55		
Austin, Tex.:[5]																				
May 28	[1] 8:30 p. m.	D. N. p. m.	6.18	10:22 a. m.	11:34 a. m.	2.93	.15	.28	.46	.56	.62	.68	.75	.80	.85	1.04	1.52	1.79		
Sept. 13	2:25 p. m.	4:55 p. m.	1.92	2:45 p. m.	3:22 p. m.	.05	.08	.19	.35	.55	.89	1.24	1.43	1.48						
Brownsville, Tex.:[5]																				
May 29	12:10 a. m.	3:30 p. m.	7.17	4:27 a. m.	5:56 a. m.	1.08	.07	.13	.23	.29	.68	.97	1.14	1.37	1.47	1.49	2.03	2.41	2.59	
Do	12:10 a. m.	3:30 p. m.	7.17	9:21 a. m.	10:06 a. m.	4.50	.18	.34	.58	.92	1.33	1.62	1.78	1.96	2.21					
July 23	12:05 p. m.	2:50 p. m.	2.01	1:28 p. m.	2:13 p. m.	.12	.13	.29	.52	.78	1.05	1.39	1.58	1.73	1.84					
Aug. 25	1:28 p. m.	3:30 p. m.	2.35	2:38 p. m.	3:01 p. m.	.97	.31	.56	1.01	1.24	1.31									
Sept. 19	9:04 a. m.	12:30 p. m.	1.58	10:20 a. m.	11:07 a. m.	.06	.18	.34	.36	.38	.47	.52	.63	.77	.93	1.00				
Corpus Christi, Tex.:[5]																				
July 13	6:17 a. m.	9:30 a. m.	1.66	6:29 a. m.	7:13 a. m.	.03	.16	.39	.47	.48	.48	.50	.63	.94	1.10					
Sept. 14	3:18 p. m.	5:35 p. m.	2.76	3:24 p. m.	4:05 p. m.	.01	.21	.65	1.04	1.54	1.83	1.94	2.18	2.60	2.66					
Dallas, Tex.:[5]																				
May 13	5:56 p. m.	7:20 p. m.	3.38	6:03 p. m.	7:06 p. m.	.03	.08	.17	.37	.54	.85	1.19	1.57	2.02	2.59	2.92	3.25	3.35		
May 28	11:48 a. m.	8:00 p. m.	1.87	1:38 p. m.	2:32 p. m.	.32	.05	.13	.21	.25	.31	.43	.56	.64	.69	.89	1.08			
Fort Worth, Tex.:[5]																				
Sept. 7	8:30 p. m.	[2] 4:21 a. m.	1.38	10:43 p. m.	11:21 p. m.	.04	.12	.23	.36	.50	.70	.93	1.18	1.24						

[1] On previous date. [2] On following date. [5] Only storms attaining 1 inch or more in 1 hour or less.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive began	Depths of precipitation (in inches) during periods of time indicated														
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
WEST GULF STATES—continued																				
Galveston, Tex.:[5]																				
Mar. 12	2:37 p. m.	4:40 p. m.	1.57	3:44 p. m.	4:15 p. m.	0.01	0.23	0.54	1.02	1.32	1.43	1.51	1.53							
				5:19 a. m.	6:09 a. m.	1.52	.07	.17	.49	.96	1.69	2.41	2.67	2.97	3.11	3.17				
Apr. 13	D. N. a. m.	9:25 a. m.	8.10	6:09 a. m.	6:59 a. m.		3.22	3.23	3.23	3.26	3.41	3.49	3.62	3.69	3.90	4.15	4.46			
				6:59 a. m.	7:21 a. m.		4.77	5.21	5.66	5.74	5.80									
May 18	3:22 a. m.	8:10 a. m.	5.50	3:57 a. m.	5:49 a. m.	.08	.16	.45	.56	.90	1.48	1.96	2.10	2.40	2.69	2.79	3.21	4.01	4.67	5.18
				10:26 p. m.	11:16 p. m.	.13	.27	.59	1.10	1.62	1.87	2.13	2.36	2.70	3.00	3.26				
July 24–25	10:03 p. m.	1:56 a. m.	5.44	11:16 p. m.	12:06 a. m.		3.43	3.48	3.55	3.74	3.83	3.93	4.01	4.11	4.25	4.48				
				12:06 a. m.	12:32 a. m.		4.64	4.78	4.93	5.03	5.13	5.18								
Oct. 31	D. N. a. m.	8:35 a. m.	1.88	4:38 a. m.	5:53 a. m.	.08	.42	.75	.90	.94	1.02	1.10	1.12	1.17	1.20	1.23	1.30	1.64		
Groesbeck, Tex.:[5]																				
May 27	5:42 p. m.	7:45 p. m.	1.28	5:44 p. m.	6:39 p. m.	.01	.18	.41	.61	.72	.73	.73	.73	.85	1.02	1.13	1.24			
May 28	1:05 p. m.	[2]D. N. a. m.	3.30	4:06 p. m.	5:07 p. m.	1.22	.06	.23	.46	.72	.89	1.13	1.31	1.43	1.47	1.53	1.67	1.77		
May 30	[1] 2:10 p. m.	D. N. a. m.	3.01	2:27 a. m.	3:15 a. m.	1.54	.06	.17	.30	.43	.63	.99	1.18	1.23	1.35	1.43				
July 25	3:21 p. m.	4:55 p. m.	1.84	3:23 p. m.	3:53 p. m.	.01	.37	.95	1.34	1.53	1.64	1.72								
Houston, Tex.:[6]																				
Jan. 4	3:17 p. m.	11:30 p. m.	2.23	7:21 p. m.	8:31 p. m.	.14	.11	.25	.37	.44	.47	.56	.65	.75	.84	1.21	1.38	1.58		
Apr. 13	[1] 10:40 p. m.	9:02 a. m.	6.44	2:16 a. m.	3:53 a. m.	.66	.14	.26	.41	.52	.62	.72	.86	.93	1.02	1.14	1.44	2.00	3.00	
Do	[1] 10:40 p. m.	9:02 a. m.	6.44	6:21 a. m.	7:32 a. m.	4.88	.27	.57	.81	.86	.87	.88	.91	1.06	1.13	1.19	1.26	1.52		
May 15	12:15 p. m.	4:10 p. m.	2.85	1:26 p. m.	2:51 p. m.	.60	.20	.28	.48	.73	.83	.87	.98	1.15	1.24	1.51	1.54	1.98	2.19	
Palestine, Tex.:[5]																				
Apr. 8	7:28 p. m.	D.N. p. m.	1.33	7:59 p. m.	8:46 p. m.	.03	.09	.16	.30	.42	.50	.74	.90	1.01	1.05	1.10				
June 5	2:20 p. m.	4:30 p. m.	1.36	2:34 p. m.	3:07 p. m.	.07	.07	.23	.30	.54	.87	1.05	1.08							
June 24	3:30 p. m.	5:48 p. m.	1.56	4:08 p. m.	4:47 p. m.	.21	.12	.41	.70	.86	1.00	1.13	1.25	1.31						
Dec. 6	6:02 p. m.	D.N. p. m.	1.56	6:53 p. m.	7:34 p. m.	.05	.14	.28	.46	.71	.76	.91	1.22	1.28	1.30					
Port Arthur, Tex.:[6]																				
Jan. 4	10:36 p. m.	[2]D. N. a. m.	2.20	10:52 p. m.	11:44 p. m.	.01	.14	.35	.67	.95	1.22	1.33	1.49	1.61	1.68	1.85	1.90			
Jan. 15	7:41 a. m.	6:08 p. m.	2.70	8:44 a. m.	9:39 a. m.	.39	.09	.22	.36	.52	.61	.73	.87	.97	1.04	1.25	1.38			
Feb. 8	2:09 p. m.	6:14 p. m.	1.52	3:38 p. m.	4:12 p. m.	.19	.10	.35	.66	.89	1.04	1.13	1.18							
May 26	D. N. a. m.	9:25 a. m.	1.92	3:10 a. m.	3:32 a. m.	.01	.33	.66	.93	1.08	1.12									
July 29	8:09 a. m.	10:56 a. m.	2.30	8:10 a. m.	8:47 a. m.	T.	.14	.57	1.01	1.32	1.73	1.90	2.02	2.06						
Aug. 10	3:07 p. m.	4:12 p. m.	1.04	3:15 p. m.	3:55 p. m.	.01	.14	.26	.44	.55	.64	.76	.92	1.00						
				10:12 p. m.	11:02 p. m.	.85	.07	.17	.28	.43	.50	.64	.83	1.01	1.21	1.36				
Nov. 9–10	3:29 p. m.	D. N. a. m.	4.26	11:02 p. m.	11:52 p. m.		1.52	1.79	1.98	2.21	2.35	2.50	2.55	2.56	2.58	2.59				
				11:52 p. m.	12:17 a. m.		2.63	2.67	2.73	2.84	2.96									
San Antonio, Tex.:[6]																				
May 16	12:36 p. m.	1:40 p. m.	1.17	12:40 p. m.	1:06 p. m.	.01	.22	.51	.72	1.03	1.13	1.15								
May 24	[1] 10:17 p. m.	3:42 a. m.	2.02	12:59 a. m.	1:55 a. m.	.24	.09	.16	.22	.33	.62	.73	.82	.96	1.29	1.52	1.65			
June 28	7:20 p. m.	[2] 6:35 a. m.	2.01	10:09 p. m.	11:13 p. m.	.27	.06	.17	.32	.52	.65	.77	.85	.93	1.03	1.16	1.41	1.46		
Dec. 14	9:15 p. m.	[2] D. N. a. m.	1.53	9:15 p. m.	9:37 p. m.	0	.34	.80	1.14	1.32	1.36									
Taylor, Tex.:[7]																				
Jan. 4	12:07 p. m.	5:15 p. m.	1.60	1:51 p. m.	2:12 p. m.	.43	.10	.33	.49	.55	.58									
Apr. 8	3:43 p. m.	7:40 p. m.	.76	6:23 p. m.	6:51 p. m.	.05	.07	.22	.37	.50	.54	.62								
May 13	5:50 a. m.	9:12 a. m.	.72	6:11 a. m.	6:33 a. m.	.01	.20	.31	.42	.50	.57									
May 17	8:26 p. m.	10:15 p. m.	.85	8:34 p. m.	8:55 p. m.	.02	.17	.28	.46	.59	.64									
May 24	[1] D. N. p.m.	D. N. a. m.	1.72	12:31 a. m.	1:05 a. m.	.04	.09	.17	.22	.27	.42	.53	.58							
May 26	[1] 9:14 p. m.	8:00 a. m.	1.73	12:02 a. m.	12:16 a. m.	.08	.29	.66	.72											
May 28	[2] 10:02 p. m.	12:02 p. m.	3.30	4:15 a. m.	5:31 a. m.	.69	.09	.14	.16	.31	.53	.55	.55	.55	.62	.82	.91	1.12		
Oct. 19	9:20 p. m.	D. N. p. m.	.81	9:27 p. m.	9:51 p. m.	.01	.18	.38	.48	.58	.66									
Oct. 30	7:43 p. m.	D. N. p. m.	1.30	8:08 p. m.	8:54 p. m.	.04	.06	.16	.19	.21	.27	.41	.54	.63	.84	.86				
OHIO VALLEY AND TENNESSEE																				
Chattanooga, Tenn.:[8]																				
May 30	5:06 p. m.	5:45 p. m.	1.10	5:08 p. m.	5:30 p. m.	.01	.14	.35	.74	1.01	1.08									
June 23	6:40 p. m.	11:18 p. m.	1.75	9:43 p. m.	10:10 p. m.	.67	.22	.49	.66	.86	1.01	1.05								
Sept. 13	3:56 a. m.	8:45 a. m.	1.72	5:31 a. m.	6:08 a. m.	.23	.16	.29	.58	.75	.89	1.06	1.11	1.16						
Knoxville, Tenn.:[8]																				
June 12–13	10:49 p. m.	D. N. a. m.	2.81	10:54 p. m.	12:09 a. m.	T.	.29	.39	.69	.97	1.35	1.65	2.02	2.20	2.30	2.36	2.51	2.73		
July 17–18	10:15 p. m.	D. N. a. m.	2.94	10:18 p. m.	12:16 a. m.	T.	.31	.73	1.00	1.18	1.41	1.55	1.70	1.84	2.00	2.12	2.20	2.42	2.54	2.85
Memphis, Tenn.:[5]																				
July 16–17	D. N. p. m.	D. N. a. m.	5.00	11:34 p. m.	1:05 a. m.	.05	.14	.22	.43	.82	1.42	2.09	2.53	2.99	3.23	3.24	3.25	3.87	4.55	
Nashville, Tenn.:[8]																				
July 16	1:35 a. m.	7:00 a. m.	3.04	3:26 a. m.	5:15 a. m.	.33	.07	.13	.32	.50	.75	.97	1.20	1.43	1.72	1.87	2.02	2.21	2.42	2.60
July 31	[3] 6:55 a. m.	11:20 a. m.	2.16	7:29 a. m.	8:39 a. m.	.05	.12	.24	.32	.39	.43	.47	.55	.74	1.08	1.37	1.48	1.89		
Sept. 7	4:00 p. m.	5:45 p. m.	1.47	4:16 p. m.	4:57 p. m.	.04	.05	.23	.42	.76	1.02	1.09	1.18	1.31	1.36					
Lexington, Ky.:[7]																				
May 1	9:35 p. m.	[2] 7:35 a. m.	1.21	11:33 p. m.	11:52 p. m.	.10	.18	.26	.45	.51										
June 22	4:42 p. m.	5:08 p. m.	.71	4:42 p. m.	4:57 p. m.	0	.22	.53	.68											
June 30	8:30 p. m.	[2] 6:20 a. m.	1.74	9:17 p. m.	9:40 p. m.	.41	.16	.46	.72	.80	.85									
July 5	7:25 a. m.	11:33 a. m.	1.00	7:55 a. m.	8:43 a. m.	.02	.15	.20	.24	.26	.33	.39	.54	.64	.75	.80				
July 9	2:45 p. m.	5:05 p. m.	.79	2:48 p. m.	3:32 p. m.	.01	.08	.18	.28	.28	.31	.42	.51	.66	.76					
July 18	5:15 p. m.	6:10 p. m.	.77	5:29 p. m.	6:02 p. m.	.03	.22	.34	.51	.58	.59	.68	.74							
Aug. 23	5:00 p. m.	6:45 p. m.	.73	5:20 p. m.	5:48 p. m.	.02	.19	.32	.48	.50	.59	.66								
Sept. 8	2:35 p. m.	4:10 p. m.	1.09	3:10 p. m.	3:35 p. m.	.13	.20	.34	.51	.76	.89									
Louisville, Ky.:[8]																				
June 13	[1] 6:20 p. m.	D. N. p. m.	1.48	6:33 p. m.	6:58 p. m.	.01	.20	.39	.61	.86	1.04									

[1] On previous date.
[2] On following date.
[3] From defective record.
[5] Only storms attaining 1 inch or more in 1 hour or less.
[7] Only storms attaining 0.60 inch or more in 30 minutes or less.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
OHIO VALLEY AND TENNESSEE—contd.																				
Evansville, Ind.:																				
May 13	[1] 5:15 p. m.	3:10 a. m.	1.00	1:39 a. m.	1:54 a. m.	0.59	0.21	0.31	0.36											
June 8	3:35 a. m.	10:28 a. m.	1.18	6 54 a. m.	7:34 a. m.	.09	.15	.34	.45	0.57	0.68	0.88	0.90	1.01						
July 7	3:50 p. m.	5:45 p. m.	.72	4:42 p. m.	5:15 p. m.	.01	(3)	(3)	(3)	(3)	(3)	(3)	.70							
July 11 [2]	2:00 p. m.	4:30 p. m.	.67	2:46 p. m.	3:15 p. m.	.09	.17	.22	.35	.37	.42	.55								
July 12	3:50 p. m.	4:40 p. m.	.28	4:27 p. m.	4:32 p. m.	T.	.25													
Aug. 2	4 08 p. m.	5:15 p. m.	1.64	4:15 p. m.	5:00 p. m.	.01	.13	.39	.68	.95	1.17	1.27	1.39	1.52	1.60					
Sept. 8 [2]	6:15 a. m.	3:20 p. m.	2.46	11:35 a. m.	12:50 p. m.	1.11	.06	.22	.29	.33	.34	.36	.43	.48	.57	0.68	0.93	1.25		
Sept. 16	6:58 p. m.	10:10 p. m.	.63	6:59 p. m.	7:07 p. m.	T.	.30	.36												
Indianapolis, Ind.:																				
May 27	11:38 a. m.	1:51 p. m.	.65	12:07 p. m.	12:22 p. m.	.02	.27	.51	.57											
Do	8:29 p. m.	[1] 12:15 a. m.	.62	8:54 p. m.	9:04 p. m.	.03	.16	.37												
June 28	[1] 9:24 p. m.	4:04 a. m.	.80	1:39 a. m.	2:06 a. m.	.03	.14	.23	.40	.49	.57	.62								
July 1	[1] 8:18 p. m.	7:51 a. m.	1.20	5:36 a. m.	6:05 a. m.	.46	.14	.38	.52	.61	.65	.70								
July 7	11:17 a. m	1:42 p. m.	1.45	11:35 a. m.	1:10 p. m.	.03	.09	.12	.16	.34	.37	.47	.52	.59	.61	.78	.93	1.15	1.39	
July 11	6:27 p. m.	9:14 p. m.	.63	7:48 p. m.	8:02 p. m.	.05	.17	.35	.47											
Aug. 2	11:41 a. m.	11:31 p. m.	1.60	9:43 p. m.	10:28 p. m.	.68	.10	.21	.29	.33	.41	.49	.57	.61	.69					
Sept. 5	6:48 p. m.	9:52 p. m.	.91	7:12 p. m.	7:51 p. m.	.01	.10	.24	.33	.41	.47	.58	.69	.75						
Sept. 9	4:56 p. m.	5:24 p. m.	.31	4:59 p. m.	5:04 p. m.	.02	.29													
Royal Center, Ind.:																				
May 11	6:08 p. m.	7:05 p. m.	.48	6:11 p. m.	6:25 p. m.	.01	.13	.28	.37											
June 11	4:01 p. m.	6:15 p. m.	.67	4:11 p. m.	4:33 p. m.	.01	.08	.23	.35	.42	.47									
Do	10:20 p. m.	[2] 6:40 a. m.	1.19	10:31 p. m.	11:02 p. m.	.01	.05	.16	.34	.41	.51	.60	.64							
July 4	10:15 p. m.	[2] 1:20 a. m.	.65	10:39 p. m.	11:10 p. m.	.01	.06	.13	.29	.37	.44	.50	.51							
July 6	[1] D.N.p. m.	D. N. a. m.	1.32	1:18 a. m.	1:36 a. m.	.19	.16	.43	.69	.80										
Do	2:11 p. m.	3:00 p. m.	.50	2:11 p. m.	2:19 p. m.	0	.29	.48												
Terre Haute, Ind.:																				
Apr. 7	9:12 p. m.	[2] 8:55 a. m.	1.65	9:18 p. m.	9:24 p. m.	.01	.39	.43												
May 18	6:35 a. m.	6:15 p. m.	3.14	10:17 a. m.	11:06 a. m.	.80	.08	.20	.28	.31	.34	.47	.61	.74	.82	.94				
July 1	12:40 a. m.	5:55 a. m.	.83	4:44 a. m.	5:25 a. m.	.08	.13	.20	.31	.32	.32	.35	.55	.68	.71					
July 5	[1] 4:09 p. m.	5:40 a. m.	.47	4:26 a. m.	4:45 a. m.	.02	.13	.20	.34	.40										
Sept. 5	4:00 p. m.	9:25 p. m.	.69	7:34 p. m.	7:47 p. m.	.13	.20	.39	.48											
Sept. 9	3:38 p. m.	4:20 p. m.	.74	3:42 p. m.	4:12 p. m.	.02	.29	.45	.53	.60	.65	.71								
Cincinnati, Ohio:																				
Jan. 18	12:15 p. m.	2:20 p. m.	.85	1:08 p. m.	1:31 p. m.	.15	.22	.45	.53	.61	.67									
Do [2]	5:15 p. m.	D. N. p. m.	.64	5:51 p. m.	5:58 p. m.	.01	.25	.31												
May 18 [2]	6:30 p. m.	[2] 7:20 a. m.	1.68	6:37 p. m.	7:22 p. m.	.03	.11	.13	.17	.22	.31	.46	.66	.86	.95					
June 16	1:58 p. m.	5:15 p. m.	.91	2:07 p. m.	2:30 p. m.	.01	.23	.45	.60	.71	.75									
June 28	5:15 a. m.	7:46 a. m.	.71	6:52 a. m.	7:05 a. m.	.29	.13	.30	.40											
June 30 [2]	6:27 p. m.	7:11 p. m.	.51	6:29 p. m.	6:45 p. m.	.01	.24	.37	.45	.48										
Do	8:55 p. m.	D. N. p. m.	.54	8:58 p. m.	9:10 p. m.	.02	.20	.33	.37											
July 1	8:31 a. m.	9:40 a. m.	.52	8:46 p. m.	8:58 p. m.	.01	.09	.30	.38											
July 10	1:16 a. m.	1:39 a. m.	.50	1:16 a. m.	1:30 a. m.	0	.16	.36	.49											
July 11 [2]	6:27 p. m.	11:00 p. m.	1.36	6:35 p. m.	6:55 p. m.	.03	.27	.63	.86	1.00										
Sept. 8	9:40 a. m	2:35 p. m.	1.42	12:18 p. m.	12:37 p. m.	.62	.17	.29	.44	.53										
Sept. 9	10:23 p. m.	11:40 p. m.	.94	10:55 p. m.	11:20 p. m.	.15	.16	.43	.54	.62	.70									
Columbus, Ohio:																				
May 27	4:09 p. m.	5:15 p. m.	.46	4:17 p. m.	4:25 p. m.	.01	.21	.39												
June 22–23	11:30 p. m.	D. N. a. m.	.67	11:46 p. m.	12:07 a. m.	.03	.10	.21	.38	.48	.52									
July 13	2:15 p. m.	2.55 p. m.	.41	2:22 p. m.	2:38 p. m.	.01	.11	.18	.37	.40										
Aug. 13	8:38 p. m.	10:50 p. m.	.85	8:43 p. m.	9:14 p. m.	.01	.11	.20	.29	.41	.49	.54	.56							
Dayton, Ohio:																				
May 1	3:47 p. m.	4:41 p. m.	.74	3:59 p. m.	4:12 p. m.	.02	.05	.46	.63											
May 2	12:09 p. m.	12:44 p. m.	.38	12:28 p. m.	12:38 p. m.	.05	.26	.32												
May 28	10:54 a. m.	12:20 p. m.	1.01	10:58 a. m.	11:39 a. m.	.01	.13	.30	.46	.54	.64	.74	.82	.96	.97					
June 13	9:06 p. m.	D. N. p. m.	.69	9:20 p. m.	9:27 p. m.	.02	.22	.34												
June 23	D. N. a. m.	5:40 a. m.	.86	4:28 a. m.	5:07 a. m.	.01	.09	.12	.15	.37	.61	.68	.71	.81						
June 28	D. N. a. m.	7:10 a. m.	.66	4:05 a. m.	4:33 a. m.	.06	.14	.26	.28	.35	.45	.50								
July 7	3:40 p. m.	4:14 p. m.	.31	3:58 p. m.	4:06 p. m.	.01	.20	.30												
July 8	4:12 p. m.	5:06 p. m.	.44	4:12 p. m.	4:24 p. m.	0	.16	.31	.35											
July 12	1:21 p. m.	2:02 p. m.	.94	1:21 p. m.	1:45 p. m.	0	.17	.50	.75	.83	.89									
Aug. 3	D. N. a. m.	D. N. a. m.	.44	3:00 a. m.	3:10 a. m.	.03	.23	.38												
Sept. 5	2:38 p. m.	3:40 p. m.	.36	3:19 p. m.	3:26 p. m.	.07	.25	.29												
Sept. 9	D. N. a. m.	8:06 a. m.	.67	4:27 a. m.	5:00 a. m.	.02	.05	.12	.25	.41	.46	.53	.58							
Elkins, W. Va.:																				
May 2	5:02 p. m.	[2] 4:00 p. m.	.76	5:25 p. m.	5:38 p. m.	.01	.17	.37	.40											
May 18	3:03 p. m.	5:30 p. m.	1.29	4:20 p. m.	4:56 p. m.	.42	.06	.18	.33	.49	.61	.73	.84	.86						
June 17	2:47 p. m.	3:40 p. m.	.47	2:50 p. m.	3:03 p. m.	.02	.27	.35	.43											
June 18	2:10 p. m.	2:45 p. m.	.64	2:10 p. m.	2:31 p. m.	0	.20	.25	.49	.61	.64									
June 22	7:00 p. m.	11:30 p. m.	1.35	7:22 p. m.	7:33 p. m.	.04	.21	.39	.43											
Do	7:00 p. m.	11:30 p. m.	1.35	8:23 p. m.	8:48 p. m.	.52	.15	.41	.52	.68	.78									
July 6	7:14 p. m.	11:00 p. m.	1.28	7:23 p. m.	7:37 p. m.	.01	.19	.49	.69											
July 12	D. N. a. m.	10:30 a. m.	1.02	5:57 a. m.	6:18 a. m.	.04	.11	.27	.38	.49	.54									
July 26	6:58 p. m.	9:30 p. m.	1.00	7:01 p. m.	7:20 p. m.	.01	.31	.60	.72	.76										
July 29	8:28 a. m.	9:00 a. m.	.43	8:23 a. m.	8:44 a. m.	0	.11	.18	.24	.42	.43									
Aug. 22	3:40 p. m.	4:15 p. m.	.34	3:42 p. m.	3:53 p. m.	.01	.23	.31	.32											
Parkersburg, W.Va.:																				
June 28	7:22 a. m.	10:55 a. m.	.96	7:22 a. m.	7:31 a. m.	0	.20	.34												
July 10	2:57 p. m.	3:28 p. m.	.73	2:57 p. m.	3:08 p. m.	0	.32	.60	.71											
July 12	4:04 a. m.	6:43 a. m.	1.63	4:06 a. m.	5:01 a. m.	.01	.05	.21	.42	.48	.52	.64	.61	.74	.97	1.21	1.37			
July 26	10:17 p. m.	11:22 p. m.	.79	10:17 p. m.	10:52 p. m.	0	.06	.22	.37	.50	.57	.61	.70							
Aug. 3	5:48 p. m.	6:12 p. m.	.35	6:00 p. m.	6:09 p. m.	.05	.17	.30												
Sept. 7	5:10 p. m.	7:08 p. m.	1.90	5:28 p. m.	6:03 p. m.	.05	.09	.30	.56	.91	1.31	1.48	1.61							
Sept. 13	D. N. a. m.	5:25 a. m.	.50	3:48 a. m.	4:04 a. m.	.01	.09	.33	.45	.48										

[1] On previous date.

[2] On following date.

[3] From defective record.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
OHIO VALLEY AND TENNESSEE—contd.																				
Pittsburgh, Pa.:																				
June 28	6:05 p. m.	6:21 p. m.	0.37	6:09 p. m.	6:16 p. m.	0.01	0.26	0.36												
July 1	2:30 p. m.	5:30 p. m.	.39	4:31 p .m.	4:36 p. m.	.07	.25													
July 9	3:03 p. m.	3:50 p. m.	.56	3:03 p. m.	3:24 p. m.	0	.19	.24	0.43	0.51	0.55									
Aug. 11	3:09 p. m.	3:41 p. m.	.32	3:09 p. m.	3:15 p. m.	0	.26	.29												
Aug. 23	7:44 a. m.	8:10 a. m.	.34	7:44 a. m.	7:52 a. m.	0	.18	.33												
LOWER LAKE REGION																				
Buffalo, N. Y.:																				
June 19	1:45 p. m.	5:15 p. m.	.49	2:31 p. m.	2:44 p. m.	.02	.22	.30	.37											
July 25	10:40 a. m.	12:10 p. m.	.49	11:23 a. m.	11:33 a. m.	.02	.18	.42												
Sept. 9	11:06 p. m.	4:45 a. m.	1.62	1:29 a. m.	2:27 a. m.	.03	.08	.19	.40	.65	.79	0.83	0.90	1.11	1.29	1.42	1.53			
Canton, N. Y.:																				
July 9	6:31 p. m.	8:12 p. m.	1.01	6:46 p. m.	7:10 p. m.	.03	.31	.58	.66	.77	.83									
Sept. 10	10:55 a. m.	11:36 a. m.	.74	11:00 a. m.	11:24 a. m.	.02	.06	.33	.51	.66	.71									
Oswego, N. Y.:																				
June 14	8:23 a. m.	8:47 a. m.	.44	8:27 a. m.	8:36 a. m.	T.	.36	.44												
June 25	6:52 a. m.	8:15 a. m.	.54	7:20 a. m.	7:30 a. m.	.12	.22	.40												
July 9	4:37 p. m.	5:07 p. m.	.45	4:42 p. m.	4:54 p. m.	.01	.19	.34	.41											
Rochester, N. Y.:																				
July 9	3:11 p. m.	3:30 p. m.	.31	3:15 p. m.	3:24 p. m.	.01	.14	.30												
July 25	12:02 a. m.	11:15 a. m.	2.20	6:08 a. m.	6:56 a. m.	.66	.06	.13	.16	.19	.34	.45	.47	.57	.80	.87				
Aug. 11	3:12 a. m	4:05 a. m.	.45	3:30 a. m.	3:40 a. m	.01	.27	.42												
Syracuse, N. Y.:																				
Aug. 14	4:12 p. m.	7:30 p. m.	1.27	5:49 p. m.	6:13 p. m.	.22	.21	.31	.46	.67	.79									
Aug. 23	8:42 a. m.	11:0o a. m.	.71	9:33 a. m.	9:45 a. m.	.06	.21	.45	.49											
Do	8:24 p. m.	9:30 p. m.	.74	8:24 p. m.	8:47 p. m.	0	.06	.16	.30	.61	.69									
Sept. 9	3:10 a. m.	9:45 a. m.	2.42	5:49 a. m.	6:16 a. m.	1.12	.15	.28	.40	.49	.59	.64								
Erie, Pa.:																				
May 14	7:18 p. m.	[2]D. N. a. m.	.34	11:45 p. m.	11:50 p. m.	.01	.25													
June 13 [3]	5:40 p. m.	6:15 p. m.	.39	5:43 p. m.	5:49 p. m.	.01	.30	.36												
July 6	5:30 p. m.	6:25 p. m.	.40	5:33 p. m.	5:45 p. m.	.01	.14	.30	.35											
Cleveland, Ohio:																				
Jan. 18	2:29 p. m.	[1] 2:30 a. m.	2.08	8:04 p. m.	8:14 p. m.	1.37	.17	.54												
June 19	4:47 p. m.	7:58 p. m.	1.75	4:56 p. m.	5:54 p. m.	.01	.10	.21	.34	.69	.84	.86	.95	1.05	1.22	1.34	1.62			
June 28	1:30 a. m.	2:50 a. m.	.56	1:34 a. m.	2:01 a. m.	.01	.08	.15	.29	.33	.49	.53								
July 6	5:45 p. m.	6:15 p. m.	.57	5:54 p. m.	6:06 p. m.	.03	.31	.52	.54											
July 7	5:00 p. m.	7:26 p. m.	.78	5:24 p. m.	5:43 p. m.	.10	.06	.26	.45	.52										
July 18	10:48 a. m.	1:12 p. m.	1.14	12:02 p. m.	12:55 p. m.	.29	.07	.17	.29	.45	.47	.48	.48	.51	.51	.66	.85			
Sandusky, Ohio:																				
Apr. 11	3:08 p. m.	4:15 p. m.	.43	3:38 p. m.	3:52 p. m.	.02	.11	.30	.40											
May 2	3:40 p. m.	4:10 p. m.	.37	3:40 p. m.	3:52 p. m.	0	.06	.30	.35											
May 28	12:18 p. m.	1:15 p. m.	1.06	12:20 p. m.	12:51 p. m.	.01	.06	.31	.52	.80	.95	1.02	1.05							
June 19	3:04 p. m.	7:15 p. m.	1.96	3:19 p. m.	3:33 p. m.	.03	.19	.38	.43											
Do	3:04 p. m.	7:15 p. m.	1.96	5:41 p. m.	6:25 p. m.	.62	.23	.48	.62	.73	.91	.95	1.03	1.21	1.29					
July 13	12:36 p. m.	2:10 p. m.	.46	12:44 p. m.	1:01 p. m.	.01	.10	.28	.36	.39										
Oct. 22	2:10 p. m.	[2]D. N. a. m.	1.62	3:17 p. m.	3:50 p. m.	.04	.13	.22	.32	.34	.39	.55	.59							
Toledo, Ohio:																				
June 24	6:05 p. m.	9:20 p. m.	.65	6:32 p. m.	6:49 p. m.	.05	.10	.27	.38	.40										
July 23	6:35 p. m.	8:38 p. m.	2.29	7:04 p. m.	8:29 p. m.	.06	.14	.38	.48	.53	.61	.79	.84	.95	1.13	1.36	1.72	2.12	2.23	
Sept. 9	8:08 p. m.	9:37 p. m.	1.07	8:32 p. m.	9:28 p. m.	.01	.09	.12	.21	.25	.36	.56	.68	.76	.80	.88	1.05			
Fort Wayne, Ind.:																				
Mar. 31 Apr. 1	9:35 p. m.	D. N. a. m.	1.80	11:12 p. m.	12:30 a. m.	.12	.18	.28	.32	.36	.40	.42	.49	.54	.71	.75	.95	1.34		
July 4	11:05 p. m.	[2]D. N. a. m.	2.04	11:20 p. m.	11:55 p. m.	.02	.08	.22	.39	.66	1.26	1.46	1.63							
Detroit, Mich.:																				
July 12	5:05 a. m.	7:33 a. m.	.68	5:26 a. m.	5:50 a. m.	.03	.12	.17	.27	.35	.48									
July 25	12:10 a. m.	12:25 a. m.	.38	12:10 a. m.	12:20 a. m.	0	.30	.37												
UPPER LAKE REGION																				
Alpena, Mich.:																				
Aug. 9	6:30 p. m.	8:25 p. m.	1.06	6:53 p. m.	7:53 p. m.	.04	.16	.30	.37	.43	.44	.47	.48	.57	.79	.85	1.01			
Escanaba, Mich.:																				
May 15	3:30 p. m.	5:25 p. m.	.42	4:26 p. m.	4:36 p. m.	.04	.16	.34												
May 27	D. N. a. m.	5:45 a. m.	.91	4:08 a. m.	4:22 a. m.	.41	.11	.27	.46											
June 27	3:51 p. m.	5:05 p. m.	.45	3:58 p. m.	4:06 p. m.	.02	.23	.36												
Grand Haven, Mich.:																				
May 11	1:54 p. m.	4:42 p. m.	.96	3:26 p. m.	3:41 p. m.	.34	.16	.30	.42											
June 19	2:11 a. m.	2:40 a. m.	.35	2:14 a. m.	2:24 a. m.	.01	.21	.30												
Grand Rapids, Mich.:																				
Apr. 30	3:48 p. m.	5:10 p. m.	.53	3:58 p. m.	4:06 p. m.	T.	.25	.38												
May 11	2:22 p. m.	5:15 p. m.	1.40	3:36 p. m.	4:31 p. m.	.19	.26	.33	.50	.66	.72	.75	.76	.78	.81	.86	1.13			
July 6	6:28 p. m.	7:10 p. m.	.42	6:31 p. m.	6:41 p. m.	T.	.25	.36												
July 13	5:58 a. m.	6:12 a. m.	.32	5:58 a. m.	6:03 a. m.	0	.30													
Do	8:30 a. m.	10:25 a. m.	.96	8:55 a. m.	9:26 a. m.	.05	.12	.53	.64	.66	.69	.84	.89							
Houghton, Mich.:																				
May 29	7:18 a. m.	8:10 a. m.	.36	7:22 a. m.	7:29 a. m.	.02	.26	.33												
July 3	10:58 p. m.	[2]D. N. a. m.	1.81	11:00 p. m.	11:30 p. m.	.01	.31	.79	.99	1.14	1.35	1.44								
July 12	6:25 p. m.	7:40 p. m.	.40	7:16 p. m.	7:27 p. m.	.02	.06	.35	.38											
Sept. 27	10:55 a. m.	11:10 p. m.	.87	7:15 p. m.	7:26 p. m.	.11	.11	.41	.43											

[1] On previous date.

[2] On following date.

[3] From defective record.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
UPPER LAKE REGION—continued																				
Lansing, Mich.:																				
July 18	4:48 a. m.	5:21 a. m.	0.68	5:00 a. m.	5:12 a. m.	0.05	0.25	0.56	0.62											
Ludington, Mich.:																				
June 19	D. N. a. m.	D. N. a. m.	.72	2:49 a. m.	3:05 a. m.	.04	.19	.34	.45	0.49										
July 13	D. N. a. m.	D. N. a. m.	2.44	1:53 a. m.	3:10 a. m.	.04	.20	.33	.34	.43	0.68	0.90	1.03	1.31	1.45	1.59	1.67	2.01		
Aug. 13	11:08 a. m.	11:55 a. m.	.37	11:17 a. m.	11:22 a. m.	.01	.31													
Marquette, Mich.:																				
June 10	2:21 a. m.	7:32 a. m.	1.15	6:23 a. m.	7:03 a. m.	.38	.12	.23	.31	.34	.42	.51	.60	.69						
July 7	4:00 a. m.	4:50 a. m.	.46	4:10 a. m.	4:23 a. m.	.05	.20	.32	.37											
Port Huron, Mich.:																				
Apr. 25	3:37 p. m.	4:01 p. m.	.49	3:38 p. m.	3:53 p. m.	.01	.13	.39	.47											
June 28	[1]D. N. p. m.	D. N. a. m.	.64	1:11 a. m.	1:31 a. m.	.07	.10	.35	.41	.47										
July 28	2:03 p. m.	2:25 p. m.	.38	2:04 p. m.	2:15 p. m.	.01	.22	.34	.37											
Aug. 13	5:13 p. m.	9:00 p. m.	.92	6:47 p. m.	7:17 p. m.	.18	.05	.10	.21	.39	.60	.69								
Sault Ste. Marie, Mich. [4]																				
Chicago University, Ill.:																				
Mar. 31	6:47 p. m.	10:32 p. m.	2.00	7:12 p. m.	8:30 p. m.	.08	.12	.21	.23	.29	.37	.48	.51	.59	.68	.79	.89	1.23		
June 11	2:11 p. m.	4:47 p. m.	.91	2:20 p. m.	2:50 p. m.	.02	.16	.40	.52	.63	.72	.77								
Do	6:23 p. m.	[2]2:36 a. m.	1.96	6:39 p. m.	7:08 p. m.	.06	.06	.34	.45	.52	.74	.84								
June 27	7:32 p. m.	10:33 p. m.	.70	8:44 p. m.	8:59 p. m.	.03	.30	.49	.54											
Aug. 26	4:19 p. m.	5:53 p. m.	1.10	4:59 p. m.	5:42 p. m.	.10	.17	.37	.63	.74	.74	.74	.74	.88	.99					
Aug. 10	4:36 p. m.	5:16 p. m.	.55	4:38 p. m.	4:51 p. m.	.01	.21	.39	.46											
Sept 28	7:23 p. m.	[2]2:55 a. m.	1.60	11:25 p. m.	11:48 p. m.	.23	.07	.10	.24	.49	.58									
Green Bay, Wis.:																				
May 15	3:25 p. m.	4:05 p. m.	.35	3:47 p. m.	3:55 p. m.	.01	.24	.33												
June 11	D. N. a. m.	D. N. a. m.	1.28	12:58 a. m.	1:33 a. m.	.03	.09	.37	.60	.88	.95	1.06	1.16							
July 6	6:20 p. m.	9:00 p. m.	.85	7:32 p. m.	7:45 p. m.	.18	.09	.27	.36											
Milwaukee, Wis.:																				
Apr. 6	8:37 p. m.	11:48 p. m.	2.14	8:55 p. m.	9:23 p. m.	.06	.20	.26	.34	.40	.62	.79								
Do	8:37 p. m.	11:48 p. m.	2.14	10:11 p. m.	10:18 p. m.	.89	.46	.55												
Do	8:37 p. m.	11:48 p. m.	2.14	11:12 p. m.	11:24 p. m.	1.51	.26	.56	.63											
June 22	4:48 p. m.	7:15 p. m.	.89	5:34 p. m.	6:08 p. m.	.01	.27	.37	.40	.46	.57	.74	.80							
July 13	6:50 a. m.	10:10 a. m.	1.02	7:47 a. m.	8:13 a. m.	.01	.17	.45	.67	.77	.85	.89								
Duluth, Minn.:																				
May 29	7:30 a. m.	9:30 a. m.	.77	7:44 a. m.	8:17 a. m.	.02	.09	.19	.20	.29	.50	.56	.62							
June 9	7:45 p. m.	D. N. p. m.	.79	8:09 p. m.	8:29 p. m.	.06	.15	.30	.40	.45										
July 3	9:20 p. m.	9:55 p. m.	.64	9:37 p. m.	9:47 p. m.	.04	.38	.58												
July 12	9:26 p. m.	[3]D. N. a. m.	2.06	9:26 p. m.	10:47 p. m.	0	.10	.24	.38	.56	.77	.93	1.08	1.18	1.24	1.26	1.33	1.72	1.75	
NORTH DAKOTA																				
Moorhead, Minn. [3]																				
Bismarck, N. Dak. [4]																				
Devils Lake, N. Dak.:																				
June 8	6:33 p. m.	7:30 p. m.	.55	6:36 p. m.	6:56 p. m.	.01	.08	.17	.35	.53										
Do	8:20 p. m.	10:35 p. m.	2.96	8:22 p. m.	8:42 p. m.	.01	.08	.22	.45	.51										
Do	8:20 p. m.	10:35 p. m.	2.96	10:03 p. m.	10:25 p. m.	.72	.34	1.24	1.79	2.18	2.24									
June 9	1:25 p. m.	1:53 p. m.	.33	1:42 p. m.	1:48 p. m.	.03	.26	.30												
July 11	4:23 p. m.	8:20 p. m.	2.73	5:19 p. m.	6:10 p. m.	.13	.13	.31	.62	1.12	1.69	1.98	2.15	2.26	2.31	2.40	2.45			
Aug. 27	2:52 p. m.	5:10 p. m.	.99	2:54 p. m.	3:06 p. m.	.01	.17	.39	.45											
Ellendale, N. Dak.:																				
July 16	11:00 p. m.	[3]D. N. a. m.	.64	11:04 p. m.	11:13 p. m.	.01	.23	.60												
July 23	1:30 a. m.	5:55 a. m.	1.18	1:38 a. m.	1:57 a. m.	.01	.15	.24	.66	.78										
Aug. 11	12:36 p. m.	1:10 p. m.	.60	12:41 p. m.	12:58 p. m.	.01	.27	.48	.54	.58										
Williston, N. Dak.:																				
June 8-9	D. N. p. m.	D. N. a. m.	.42	11:49 p. m.	12:04 a. m.	.01	.15	.28	.35											
UPPER MISSISSIPPI VALLEY																				
Minneapolis, Minn.:																				
June 10	7:12 p. m.	D. N. p. m.	.53	7:40 p. m.	8:05 p. m.	.01	.19	.30	.36	.42	.47									
June 26-27	8:05 p. m.	D. N. a. m.	1.77	11:24 p. m.	12:11 a. m.	.14	.06	.14	.23	.30	.34	.47	.61	.69	.75	.80				
Aug. 11	4:11 p. m.	5:10 p. m.	.72	4:37 p. m.	4:55 p. m.	.14	.13	.20	.48	.57										
St. Paul, Minn.:																				
May 22	3:57 p. m.	4:30 p. m.	.31	4:06 p. m.	4:14 p. m.	.01	.25	.30												
June 10	7:49 p. m.	9:00 p. m.	.42	7:55 p. m.	8:07 p. m.	.01	.15	.32	.36											
June 26-27	10:07 p. m.	D. N. a. m.	1.82	11:43 p. m.	12:01 a. m.	.14	.09	.22	.33	.41										
June 27	1:20 p. m.	3:00 p. m.	.63	1:32 p. m.	1:50 p. m.	.05	.06	.16	.39	.43										
July 3	D. N. a. m.	5:30 a. m.	.65	4:21 a. m.	4:44 a. m.	.10	.09	.19	.31	.40	.47									
July 24	5:20 p. m.	6:10 p. m.	1.23	5:28 p. m.	5:52 p. m.	.01	.14	.39	.86	1.15	1.22									
La Crosse, Wis.:																				
June 11	9:37 a. m.	12:05 p. m.	1.76	10:15 a. m.	10:39 a. m.	.01	.20	.62	1.12	1.41	1.51									
June 27	3:42 p. m.	4:40 p. m.	.62	4:18 p. m.	4:32 p. m.	.01	.23	.47	.60											
July 23	12:38 p. m.	2:05 p. m.	.79	12:43 p. m.	1:02 p. m.	.01	.17	.31	.55	.66										
Aug. 8	4:20 a. m.	6:10 a. m.	.52	4:22 a. m.	4:32 a. m.	.01	.20	.30												
Aug. 13	6:35 a. m.	8:20 a. m.	.49	6:43 a. m.	6:51 a. m.	.01	.30	.37												
Sept. 13	7:03 a. m.	10:30 a. m.	.59	7:16 a. m.	7:33 a. m.	.08	.14	.26	.38	.42										
Sept. 26	[1]11:20 p. m.	6:35 a. m.	.98	12:11 a. m.	12:32 a. m.	.10	.08	.14	.26	.43	.51									

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

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
UPPER MISSISSIPPI VALLEY—contd.																				
Madison, Wis.:																				
June 16	12:30 a. m.	3:25 a. m.	1.80	1:31 a. m.	2:31 a. m.	0.36	0.08	0.31	0.48	0.55	0.59	0.62	0.71	0.90	0.95	1.05	1.26			
June 18	8:27 p. m.	9:00 p. m.	.61	8:30 p. m.	8:53 p. m.	.01	.17	.34	.37	.50	.59									
July 6	5:04 p. m.	6:58 p. m.	1.22	6:25 p. m.	6:38 p. m.	.58	.18	.37	.64											
July 8	5:15 p. m.	6:55 p. m.	.58	5:23 p. m.	5:36 p. m.	.01	.18	.42	.47											
July 13	6:20 a. m.	9:15 a. m.	.68	6:37 a. m.	6:47 a. m.	.05	.23	.44												
July 23	3:45 p. m.	5:05 p. m.	.78	3:54 p. m.	4:14 p. m.	.01	.15	.40	.58	.65										
Do	8:42 p. m.	11:50 p. m.	1.16	11:03 p. m.	11:22 p. m.	.75	.13	.23	.34	.40										
July 24	D. N. a. m.	D. N. a. m.	1.96	3:19 a. m.	4:36 a. m.	.07	.12	.25	.41	.48	.67	.84	.91	.98	1.06	1.09	1.49	1.89		
July 24–25	11:35 p. m.	12:22 a. m.	.73	11:43 p. m.	12:19 a. m.	.02	.19	.35	.37	.40	.52	.59	.68	.71						
Wausau, Wis.:																				
May 15	10:15 a. m.	8:00 p. m.	.66	2:07 p. m.	2:17 p. m.	.06	.10	.41												
May 27	4:10 p. m.	6:15 p. m.	.35	4:50 p. m.	4:57 p. m.	.01	.26	.33												
July 6	1:38 p. m.	3:33 p. m.	.50	2:17 p. m.	2:32 p. m.	.09	.06	.17	.37											
Aug. 9 [3]	3:17 p. m.	4:20 p. m.	1.02	3:18 p. m.	3:35 p. m.	.01	.29	.59	.75	.80										
Aug. 13	D. N. a. m.	6:15 a. m.	.98	4:36 a. m.	5:00 a. m.	.07	.11	.14	.34	.61	.79									
Charles City, Iowa:																				
Apr. 6	6:35 p. m.	10:40 p. m.	1.03	9:13 p. m.	9:32 p. m.	.24	.11	.28	.53	.76										
July 13	D. N. a. m.	7:35 a. m.	1.68	2:20 a. m.	2:43 a. m.	.01	.16	.30	.34	.53	.63									
Davenport, Iowa:																				
June 11	12:05 p. m.	1:10 p. m.	.80	12:17 p. m.	12:52 p. m.	.02	.13	.31	.50	.56	.58	.67	.74							
June 30	7:25 p. m.	[2] 4:30 a. m.	1.13	7:39 p. m.	7:55 p. m.	.01	.17	.30	.38	.39										
July 8	2:11 p. m.	2:43 p. m.	.80	2:14 p. m.	2:38 p. m.	.01	.19	.33	.56	.71	.79									
Do	4:50 p. m.	5:10 p. m.	.40	4:52 p. m.	5:03 p. m.	.01	.23	.33	.38											
July 13	6:10 a. m.	8:25 a. m.	1.19	7:03 a. m.	7:52 a. m.	.14	.10	.27	.33	.40	.52	.65	.81	.90	.99	1.04				
Sept. 4	7:30 p. m.	[2] 1:30 a. m.	.81	8:51 p. m.	9:03 p. m.	.13	.10	.35	.40											
Des Moines, Iowa:																				
June 30	11:05 p. m.	[2] D. N. a. m.	.65	11:26 p. m.	11:38 p. m.	.01	.21	.31	.35											
July 6	3:43 p. m.	4:10 p. m.	.59	3:43 p. m.	3:57 p. m.	0	.24	.46	.58											
July 14	7:50 a. m.	11:15 a. m.	1.57	7:54 a. m.	8:15 a. m.	T.	.28	.57	.81	1.19	1.26									
Aug. 20	5:25 a. m.	7:40 a. m.	.99	6:23 a. m.	6:45 a. m.	.37	.07	.17	.31	.42	.48									
Aug. 25	5:10 a. m.	9:03 a. m.	1.02	5:30 a. m.	5:43 a. m.	.03	.14	.36	.43											
Sept. 4	12:50 p. m.	3:00 p. m.	.35	2:06 p. m.	2:13 p. m.	.03	.24	.30												
Sept. 9	D. N. a. m.	5:50 a. m.	1.00	2:21 a. m.	2:32 a. m.	.02	.29	.51	.53											
Do	D. N. a. m.	5:50 a. m.	1.00	5:18 a. m.	5:25 a. m.	.71	.26	.29												
Dubuque, Iowa:																				
Apr. 6	7:05 p. m.	9:53 p. m.	.68	8:35 p. m.	8:55 p. m.	.02	.26	.30	.49	.56										
June 12	10:42 p. m.	[2] D. N. a. m.	2.23	11:19 p. m.	11:47 p. m.	.01	.08	.21	.26	.43	.50	.55								
June 13	[1] 10:42 p. m.	D. N. a. m.	2.23	12:34 a. m.	1:02 a. m.	.73	.16	.41	.61	.71	.83	.86								
June 27	4:52 p. m.	7:56 p. m.	1.04	5:15 p. m.	6:00 p. m.	.01	.29	.37	.37	.43	.47	.57	.68	.78	.83					
July 6	11:44 a. m.	4:40 p. m.	.50	4:17 p. m.	4:32 p. m.	.10	.05	.22	.40											
Keokuk, Iowa:																				
June 18	6:32 p. m.	[2] D. N. a. m.	1.43	7:10 p. m.	7:43 p. m.	.16	.12	.27	.44	.54	.63	.74	.81							
July 5	7:15 p. m.	[2] D. N. a. m.	1.18	8:23 p. m.	9:00 p. m.	.22	.09	.20	.27	.33	.44	.51	.59	.64						
July 8	6:21 p. m.	7:00 p. m.	1.14	6:23 p. m.	6:37 p. m.	.01	.44	.86	1.03											
July 15	[1] D. N. p. m.	7:50 a. m.	1.65	5:53 a. m.	6:27 a. m.	1.04	.13	.25	.35	.40	.42	.56	.61							
Sept. 4	6:15 p. m.	[2] 9:25 a. m.	1.03	6:59 p. m.	7:15 p. m.	.07	.21	.37	.45	.49										
Sept. 9	[1] D. N. p. m.	5:40 a. m.	1.81	12:23 a. m.	1:29 a. m.	.15	.14	.35	.53	.58	.70	.83	.95	1.12	1.15	1.21	1.32	1.49		
Cairo, Ill.:																				
June 1	3:51 p. m.	7:08 p. m.	1.16	4:26 p. m.	4:55 p. m.	.01	.20	.43	.76	.94	1.04	1.09								
Aug. 11	4:20 p. m.	6:43 p. m.	.98	5:38 p. m.	6:00 p. m.	.43	.07	.21	.37	.51	.54									
Aug. 13	9:57 p. m.	D. N. p. m.	.37	10:11 p. m.	10:22 p. m.	.03	.12	.30	.33											
Sept. 5	1:33 p. m.	4:02 p. m.	.76	1:46 p. m.	2:10 p. m.	.02	.05	.16	.34	.55	.66									
Dec. 15	[1] 10:02 p. m.	8:32 a. m.	1.17	2:34 a. m.	2:56 a. m.	.46	.24	.38	.42	.49	.53									
Peoria, Ill.:																				
Apr. 19	[4] 4:16 p. m.	6:20 p. m.	1.00	4:21 p. m.	4:31 p. m.	.01	.50	.74												
May 28	12:11 p. m.	1:53 p. m.	2.30	12:32 p. m.	1:29 p. m.	.03	.16	.29	.58	1.02	1.29	1.54	1.65	1.69	1.79	2.00	2.26			
June 30	3:50 p. m.	4:20 p. m.	.57	3:58 p. m.	4:09 p. m.	.01	(5)	.53	.55											
July 13	12:02 a. m.	4:30 a. m.	1.60	1:43 a. m.	2:12 a. m.	.23	.13	.41	.70	.92	1.10	1.18								
Springfield, Ill.:																				
Mar. 31	5:50 p. m.	9:10 p. m.	.85	7:17 p. m.	7:40 p. m.	.05	.16	.37	.48	.64	.77									
Aug. 9	8:31 a. m.	10:34 a. m.	.45	9:27 a. m.	9:42 a. m.	.03	.14	.27	.36											
Aug. 10	11:08 a. m.	1:00 p. m.	.63	11:12 a. m.	11:30 a. m.	.02	.15	.35	.49	.56										
Nov. 10	12:34 a. m.	8:30 a. m.	.93	6:34 a. m.	6:42 a. m.	.48	.19	.34												
Hannibal, Mo.:																				
June 18	9:08 p. m.	[2] D. N. a. m.	1.70	9:18 p. m.	9:45 p. m.	.01	.09	.34	.58	.70	.86	.92								
June 19	[1] 9:08 p. m.	D. N. a. m.	1.70	12:56 a. m.	1:10 a. m.	1.24	.25	.34	.43											
July 9	[1] 7:27 p. m.	D. N. a. m.	.80	12:03 a. m.	12:15 a. m.	.41	.11	.35	.38											
July 14	10:20 a. m.	11:40 a. m.	.47	10:53 a. m.	11:08 a. m.	.03	.14	.30	.36											
July 15	1:07 a. m.	7:05 a. m.	1.86	3:25 a. m.	3:40 a. m.	.64	.06	.17	.40											
Aug. 6	D. N. a. m.	D. N. a. m.	.92	1:06 a. m.	1:28 a. m.	.31	.07	.17	.29	.46	.50									
Sept. 29	3:12 p. m.	6:10 p. m.	.80	3:18 p. m.	3:50 p. m.	.01	.19	.30	.34	.40	.54	.64	.69							
St. Louis, Mo.:																				
Mar. 31	7:47 p. m.	9:45 p. m.	.54	8:16 p. m.	8:25 p. m.	.10	.13	.33												
Apr. 7	7:20 p. m.	[2] D. N. a. m.	2.83	8:52 p. m.	9:53 p. m.	.19	.10	.23	.32	.37	.37	.44	.47	.66	.72	.92	1.18	1.29		
Do	7:20 p. m.	[2] D. N. a. m.	2.83	10:23 p. m.	10:50 p. m.	1.50	.13	.25	.44	.79	1.07	1.09								
Apr. 20	8:25 p. m.	D. N. p. m.	1.54	8:44 p. m.	8:56 p. m.	.02	.21	.62	.65											
Do	---do---	---do---	1.54	9:46 p. m.	9:58 p. m.	.69	.19	.47	.55											
June 7	[1] 11:25 p. m.	D. N. a. m.	1.20	12:41 a. m.	12:57 a. m.	.02	.13	.37	.48	.51										
June 24	7:53 a. m.	11:30 a. m.	.79	8:16 a. m.	8:34 a. m.	.01	.21	.39	.48	.53										
July 7	[1] 11:30 p. m.	3:00 a. m.	.88	2:08 a. m.	2:42 a. m.	.12	.18	.27	.35	.37	.58	.66	.71							
Aug. 6	D. N. a. m.	7:20 a. m.	2.70	2:48 a. m.	4:13 a. m.	.32	.12	.18	.20	.26	.53	.82	1.03	1.11	1.23	1.45	1.67	2.16	2.21	

[1] On previous date.

[2] On following date.

[5] From defective record.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MISSOURI VALLEY																				
Columbia, Mo.:																				
Mar. 31	3:08 p. m.	6:18 p. m.	.67	4:44 p. m.	5:04 p. m.	0.16	0.13	0.32	0.40	0.46										
May 11	6:01 p. m.	7:10 p. m.	.60	6:07 p. m.	6:17 p. m.	.01	.30	.49												
Do	8:35 p. m.	D. N. p. m.	1.44	8:51 p. m.	9:06 p. m.	.04	.15	.46	.57											
May 15	3:13 p. m.	4:05 p. m.	.51	3:19 p. m.	3:31 p. m.	.02	.12	.38	.46											
May 18	[1] D. N. p. m.	2:38 p. m.	3.15	1:08 a. m.	1:58 a. m.	.26	.08	.15	.28	.35	0.40	0.43	0.47	0.55	0.72	0.82				
May 31	2:27 p. m.	2:56 p. m.	.94	2:38 p. m.	2:53 p. m.	.02	.19	.65	.92											
June 7	1:18 p. m.	1:45 p. m.	.40	1:20 p. m.	1:31 p. m.	.01	.22	.33	.37											
June 12	9:41 a. m.	1:25 p. m.	1.17	10:25 a. m.	10:59 a. m.	.09	.14	.22	.41	.54	.55	.68	.73							
June 18	8:10 p. m.	D. N. p. m.	.94	9:34 p. m.	9:56 p. m.	.01	.31	.59	.74	.81	.85									
June 24	D. N. a. m.	D. N. a. m.	1.26	1:50 a. m.	2:16 a. m.	.01	.14	.34	.54	.60	.68	.72								
Kansas City, Mo.:																				
Mar. 31	[1] D. N. p. m.	11:10 a. m.	1.98	12:03 a. m.	12:26 a. m.	.01	.16	.24	.50	.56	.61									
May 31	5:50 p. m.	D. N. p. m.	1.47	5:57 p. m.	6:07 p. m.	.02	.18	.30												
June 2	7:30 p. m.	D. N. p. m.	.89	7:40 p. m.	8:00 p. m.	.03	.20	.34	.48	.54										
June 20	12:57 a. m.	D. N. a. m.	1.42	1:00 a. m.	1:58 a. m.	.01	.07	.15	.27	.40	.49	.61	.73	.79	.85	.94	1.12			
June 22	7:32 a. m.	10:55 a. m.	3.58	8:45 a. m.	10:13 a. m.	.24	.19	.56	.77	.90	1.08	1.46	1.62	1.78	1.83	1.88	2.29	3.15	3.32	
Aug. 8	11:47 a. m.	1:10 p. m.	.75	12:01 p. m.	12:42 p. m.	.01	.15	.18	.21	.28	.44	.47	.50	.70	.73					
Aug. 24	4:00 p. m.	5:35 p. m.	.93	4:40 p. m.	5:21 p. m.	.01	.10	.22	.28	.45	.68	.73	.79	.89	.91					
Aug. 25 [2]	6:20 p. m.	D. N. p. m.	1.65	6:37 p. m.	7:23 p. m.	.05	.06	.17	.35	.45	.58	.80	1.06	1.30	1.42	1.48				
Oct. 10	[1] 8:45 p. m.	5:00 a. m.	1.58	1:36 a. m.	2:21 a. m.	.46	.12	.39	.57	.63	.65	.77	.91	1.02	1.08					
Oct. 11	4:20 p. m.	7:30 p. m.	.65	5:13 p. m.	5:24 p. m.	.05	.16	.40	.45											
Oct. 19	3:05 p. m.	6:10 p. m.	.48	3:50 p. m.	3:59 p. m.	.01	.24	.38												
St. Joseph, Mo.:																				
June 7	12:08 p. m.	2:45 p. m.	1.28	12:52 p. m.	1:30 p. m.	.01	.16	.22	.54	.68	.74	.95	1.09	1.15						
June 22	[1] 11:30 p. m.	10:56 a. m.	2.04	12:06 a. m.	12:23 a. m.	.01	.20	.40	.49	.53										
Do	[1] 11:30 p. m.	10:56 a. m.	2.04	8:04 a. m.	8:53 a. m.	.83	.09	.17	.19	.23	.29	.34	.39	.57	.72	.85				
July 30	8:30 a. m.	9:04 a. m.	.61	8:41 a. m.	8:58 a. m.	.08	.21	.38	.49	.53										
Do	9:25 a. m.	12:40 p. m.	.93	12:01 p. m.	12:22 p. m.	.18	.24	.37	.49	.64	.68									
Aug. 10	4:32 a. m.	7:40 a. m.	.66	4:42 a. m.	5:01 a. m.	.01	.10	.27	.36	.42										
Sept. 8	8:44 a. m.	9:24 a. m.	.37	8:44 a. m.	8:54 a. m.	0	.20	.36												
Springfield, Mo.:																				
May 8	1:25 a. m.	9:55 a. m.	1.06	1:55 a. m.	2:20 a. m.	.02	.12	.23	.28	.35	.51									
June 7	3:22 p. m.	8:10 p. m.	1.03	5:23 p. m.	5:33 p. m.	.07	.17	.37												
June 22	5:36 a. m.	1:58 p. m.	1.07	5:59 a. m.	6:19 a. m.	.01	.09	.21	.31	.43										
Aug. 1	5:08 p. m.	7:04 p. m.	1.10	5:16 p. m.	5:43 p. m.	.01	.10	.21	.34	.53	.78	.85								
Sept. 4	3:17 p. m.	5:30 p. m.	.69	4:03 p. m.	4:20 p. m.	.06	.17	.35	.52	.59										
Iola, Kans.:																				
Apr. 7	11:00 a. m.	12:15 p. m.	.55	11:26 a. m.	11:38 a. m.	.04	.10	.35	.48											
Apr. 10	[1] 9:45 p. m.	2:00 a. m.	.98	1:12 a. m.	1:38 a. m.	.18	.07	.17	.22	.48	.73	.78								
Apr. 24	5:00 a. m.	9:30 a. m.	1.41	5:45 a. m.	5:52 a. m.	.03	.23	.32												
May 11	1:10 p. m.	[2] D. N. a. m.	2.73	5:41 p. m.	6:11 p. m.	.82	.07	.16	.70	1.01	1.11	1.18								
May 26	1:20 p. m.	2:25 p. m.	.46	1:42 p. m.	1:53 p. m.	.02	.23	.34	.39											
June 18	8:25 p. m.	[2] D. N. a. m.	2.02	8:59 p. m.	9:29 p. m.	.02	.08	.23	.40	.54	.66	.73								
Topeka, Kans.:																				
Mar. 31	[1] 9:10 p. m.	9:45 a. m.	1.36	3:28 a. m.	3:35 a. m.	.80	.29	.34												
Apr. 19	3:15 p. m.	[2] D. N. a. m.	2.39	3:24 p. m.	3:53 p. m.	.01	.06	.21	.47	.78	1.22	1.53								
May 11	12:15 a. m.	6:40 a. m.	1.42	2:56 a. m.	3:40 a. m.	.42	.10	.18	.27	.45	.64	.71	.84	.90	.95					
May 31	1:20 p. m.	11:30 p. m.	1.17	3:17 p. m.	3:43 p. m.	.27	.22	.36	.41	.50	.59	.64								
June 20	12:35 a. m.	5:45 a. m.	1.22	12:37 a. m.	1:01 a. m.	.01	.31	.58	.74	.86	.92									
June 22	8:20 a. m.	9:35 a. m.	.47	8:23 a. m.	8:38 a. m.	.01	.18	.26	.40											
Aug. 10	1:20 a. m.	8:51 a. m.	1.84	2:53 a. m.	3:47 a. m.	.07	.11	.31	.58	.88	1.00	1.04	1.10	1.12	1.15	1.26	1.35			
Oct. 29	9:30 p. m.	[2] D. N. a. m.	.63	10:19 p. m.	10:34 p. m.	.01	.30	.36	.41											
Oct. 30	10:00 p. m.	[2] D. N. a. m.	1.37	10:38 p. m.	11:17 p. m.	.08	.05	.10	.16	.24	.34	.39	.58	.69						
Lincoln, Nebr.:																				
May 28	12:59 p. m.	2:04 p. m.	.46	1:20 p. m.	1:30 p. m.	.02	.12	.30												
June 2	3:23 p. m.	4:30 p. m.	.84	3:27 p. m.	3:46 p. m.	.02	.21	.35	.47	.56										
July 30	1:40 a. m.	2:15 a. m.	.66	1:46 a. m.	2:10 a. m.	.02	.19	.29	.33	.53	.63									
Do	11:10 a. m.	1:45 p. m.	.50	11:10 a. m.	11:20 a. m.	0	.27	.36												
Omaha, Nebr.:																				
July 6	D. N. a. m.	7:05 a. m.	1.26	5:11 a. m.	5:45 a. m.	.60	.08	.14	.23	.32	.41	.52	.56							
July 14	8:55 p. m.	10:20 p. m.	.98	9:26 p. m.	9:51 p. m.	.02	.09	.18	.47	.73	.94									
Sept. 9	[1] D. N. p. m.	7:45 a. m.	.62	1:55 a. m.	2:13 a. m.	.09	.05	.14	.34	.43										
Valentine, Nebr.:																				
June 2	7:02 a. m.	10:50 a. m.	.91	7:32 a. m.	8:00 a. m.	.06	.11	.22	.30	.38	.47	.52								
July 16	5:00 p. m.	6:45 p. m.	3.15	5:16 p. m.	6:38 p. m.	.02	.12	.25	.37	.62	1.31	1.95	2.30	2.45	2.49	2.50	2.60	3.09	3.13	
Aug. 6	4:54 p. m.	6:22 p. m.	.84	5:00 p. m.	6:00 p. m.	.01	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	[3]	.83			
Aug. 20	5:55 p. m.	8:46 p. m.	.97	8:18 p. m.	8:36 p. m.	.51	.18	.35	.40	.46										
Oct. 3	4:19 p. m.	6:12 p. m.	.67	5:09 p. m.	5:24 p. m.	.27	.11	.27	.37											
Sioux City, Iowa:																				
May 28	3:14 p. m.	4:42 p. m.	.87	3:21 p. m.	4:12 p. m.	.01	.24	.27	.28	.29	.32	.37	.45	.57	.71	.83	.86			
June 16	3:27 p. m.	6:19 p. m.	1.90	3:36 p. m.	4:14 p. m.	.02	.09	.31	.63	.86	.95	1.28	1.43	1.53						
June 26	10:09 a. m.	11:59 a. m.	.93	10:10 a. m.	10:49 a. m.	.01	.08	.19	.38	.50	.57	.59	.67	.79						
July 21	2:28 a. m.	3:39 a. m.	.61	2:38 a. m.	2:56 a. m.	.06	.11	.38	.47	.51										
July 23	2:29 p. m.	3:39 p. m.	.51	2:52 p. m.	3:12 p. m.	.04	.12	.25	.36	.42										
Aug. 11	7:29 p. m.	7:56 p. m.	.46	7:37 p. m.	7:49 p. m.	.01	.20	.43	.45											
Sept. 3	8:47 p. m.	[2] 1:27 a. m.	.85	11:46 p. m.	11:53 p. m.	.47	.26	.32												
Huron, S. Dak.:																				
Aug. 11	2:58 p. m.	3:42 p. m.	.41	3:07 p. m.	3:17 p. m.	.02	.24	.39												
Aug. 24	6:58 p. m.	8:15 p. m.	.60	7:08 p. m.	7:23 p. m.	.04	.13	.37	.48											
Pierre, S. Dak.:																				
June 11	3:54 p. m.	6:45 p. m.	1.03	4:00 p. m.	4:25 p. m.	.01	.21	.45	.58	.72	.79									
Yankton, S. Dak.:																				
May 28	1:45 p. m.	4:10 p. m.	2.17	2:18 p. m.	3:10 p. m.	.08	.14	.33	.66	.88	1.01	1.12	1.18	1.23	1.45	1.89	1.98			
Do	12:15 a. m.	7:00 a. m.	1.48	5:29 a. m.	5:57 a. m.	.83	.06	.15	.21	.29	.48	.52								
July 6	4:40 a. m.	11:50 a. m.	1.76	6:21 a. m.	6:51 a. m.	.14	.10	.21	.39	.43	.50	.59								
Aug. 1	7:50 p. m.	8:40 p. m.	.75	7:52 p. m.	8:12 p. m.	.01	.29	.53	.64	.71										
Sept. 25	6:15 p. m.	10:30 p. m.	1.56	8:34 p. m.	9:35 p. m.	.15	.16	.30	.34	.47	.54	.61	.63	.63	.64	.80	1.09	1.21		

[1] On previous date.

[2] On following date.

[3] From defective record.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated													
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
NORTHERN SLOPE																				
Havre, Mont.[6]																				
Helena, Mont.[6]																				
Kalispell, Mont.[6]																				
Miles City, Mont.[6]																				
Rapid City, S. Dak.:																				
July 4	3:14 p. m.	5:20 p. m.	0.49	3:24 p. m.	3:33 p. m.	0.01	0.28	0.37												
Cheyenne, Wyo.:																				
July 5	2:20 p. m.	3:50 p. m.	.51	2:36 p. m.	2:56 p. m.	.03	.11	.20	0.30	0.42										
July 17	3:10 p. m.	6:00 p. m.	.68	3:45 p. m.	4:18 p. m.	.04	.08	.22	.31	.38	0.45	0.54	0.59							
Aug. 20	1:30 p. m.	2:45 p. m.	.68	1:39 p. m.	2:00 p. m.	.02	.15	.30	.39	.63	.65									
Lander, Wyo.[6]																				
Sheridan, Wyo.[6]																				
Yellowstone Park, Wyo.:																				
July 13	6:05 p. m.	7:06 p. m.	.37	6:19 p. m.	6:30 p. m.	.03	.13	.30	.31											
North Platte, Nebr.:																				
Apr. 23	4:45 p. m.	11:40 p. m.	2.09	7:27 p. m.	8:23 p. m.	.40	.06	.13	.20	.46	.61	.77	.89	1.05	1.15	1.21	1.32			
July 1	3:49 p. m.	4:38 p. m.	.44	3:52 p. m.	4:08 p. m.	.01	.12	.26	.39	.41										
July 5	10:15 p. m.	[2]D. N. a. m.	.54	10:35 p. m.	10:48 p. m.	.01	.17	.33	.40											
July 17	3:50 p. m.	4:52 p. m.	.41	3:52 p. m.	4:00 p. m.	.01	.15	.30												
Aug. 22	6:08 a. m.	7:42 a. m.	.67	6:48 a. m.	7:13 a. m.	.05	.12	.22	.34	.53	.62									
Aug. 28	1:45 a. m.	5:10 a. m.	3.82	2:30 a. m.	4:28 a. m.	.02	.05	.17	.41	.50	.70	1.05	1.30	1.50	1.76	2.08	2.69	3.25	3.50	3.77
MIDDLE SLOPE																				
Denver, Colo.:																				
June 30	2:55 p. m.	5:46 p. m.	.46	3:11 p. m.	3:22 p. m.	.01	.24	.36	.40											
July 23	12:35 a. m.	4:49 a. m.	.73	12:45 a. m.	1:03 a. m.	.02	.20	.44	.49	.54										
Pueblo, Colo.:																				
Aug. 19	5:09 p. m.	5:59 p. m.	.66	5:12 p. m.	5:40 p. m.	.01	.16	.34	.44	.51	.56	.62								
Concordia, Kans.:																				
Apr. 6	1:40 p. m.	3:45 p. m.	1.03	2:33 p. m.	2:43 p. m.	.04	.56	.84												
Apr. 18–19	10:07 p. m.	7:30 a. m.	2.46	11:35 p. m.	12:45 a. m.	.22	.08	.13	.17	.23	.34	.45	.52	.61	.66	.69	.96	1.26		
June 19	9:05 p. m.	[1]12:20 a. m.	1.51	10:39 p. m.	11:00 p. m.	.03	.22	.61	.87	1.03	1.08									
June 22	6:10 a. m.	6:57 a. m.	.76	6:24 a. m.	6:40 a. m.	.01	.21	.54	.69	.73										
Sept. 8–9	11:15 p. m.	1:20 a. m.	.86	11:38 p. m.	12:05 a. m.	.12	.18	.30	.41	.53	.62	.66								
Dodge City, Kans.:																				
Apr. 5	1:59 a. m.	D. N. a. m.	.70	1:59 a. m.	2:12 a. m.	0	.39	.47	.53											
June 7[3]	12:30 a. m.	6:05 a. m.	1.32	12:30 a. m.	12:45 a. m.	0	.23	.50	.73											
June 23	9:15 p. m.	[2]2:50 a. m.	1.06	11:16 p. m.	11:29 p. m.	.12	.08	.35	.43											
July 1	4:16 p. m.	5:00 p. m.	.55	4:16 p. m.	4:30 p. m.	0	.11	.35	.53											
July 7	3:32 p. m.	5:25 p. m.	.73	4:00 p. m.	4:23 p. m.	.07	.10	.25	.38	.45	.49									
July 18	[1]9:15 p. m.	4:10 a. m.	.97	2:03 a. m.	2:27 a. m.	.10	.11	.33	.45	.53	.60									
July 29	[1]10:50 p. m.	1:40 a. m.	2.40	12:20 a. m.	1:30 a. m.	.09	.13	.30	.55	.71	.79	.88	1.10	1.42	1.58	1.83	2.10	2.31		
Wichita, Kans.:																				
Apr. 9	9:35 p. m.	11:00 p. m.	1.16	10:07 p. m.	10:39 p. m.	.04	.06	.12	.22	.35	.52	.94	1.11							
Apr. 24	3:32 a. m.	D. N. a. m.	.58	3:34 a. m.	3:54 a. m.	.01	.20	.37	.45	.53										
May 17	9:10 p. m.	[2]10:48 a. m.	1.33	9:18 p. m.	9:42 p. m.	.01	.12	.27	.40	.48	.52									
June 2	6:46 p. m.	8:30 p. m.	.96	6:46 p. m.	7:15 p. m.	0	.35	.58	.72	.80	.88	.92								
June 7	1:35 a. m.	5:55 a. m.	2.09	3:22 a. m.	3:59 a. m.	.17	.21	.81	1.05	1.07	1.35	1.51	1.61	1.66						
June 23	D. N. a. m.	4:30 p. m.	2.27	7:55 a. m.	8:20 a. m.	.88	.08	.17	.35	.50	.65									
July 1	1:00 p. m.	6:00 p. m.	2.07	1:45 p. m.	2:42 p. m.	.24	.14	.30	.44	.59	.63	.66	.69	.82	.98	1.11	1.25			
July 10	1:03 a. m.	D. N. a. m.	1.45	1:11 a. m.	2:11 a. m.	.03	.15	.20	.27	.33	.42	.48	.63	.83	.94	1.04	1.31			
July 18	[1]11:45 p. m.	7:00 a. m.	1.06	1:31 a. m.	2:12 a. m.	.12	.10	.13	.15	.20	.27	.39	.54	.63	.67					
Aug. 8	7:02 a. m.	7:40 a. m.	.56	7:02 a. m.	7:17 a. m.	0	.20	.40	.54											
Oct. 29	5:33 p. m.	6:42 p. m.	.62	5:49 p. m.	6:09 p. m.	.01	.12	.26	.38	.53										
Broken Arrow, Okla.:																				
Apr. 13	1:25 p. m.	9:05 p. m.	1.69	1:55 p. m.	2:42 p. m.	.03	.06	.10	.19	.34	.49	.57	.68	.72	.83	.87				
Apr. 20	[1]D. N. p. m.	D. N. a. m.	1.44	1:17 a. m.	1:37 a. m.	.37	.16	.33	.51	.62										
May 8	D. N. a. m.	11:10 a. m.	2.68	4:20 a. m.	5:31 a. m.	.29	.12	.30	.40	.41	.42	.42	.43	.50	.59	.81	1.17	1.45		
June 2	D. N. p. m.	[2]D. N. a. m.	1.20	11:10 p. m.	11:35 p. m.	.01	.21	.44	.74	.93	.98									
June 5	D. N. a. m.	7:20 a. m.	.84	5:03 a. m.	5:32 a. m.	.03	.07	.21	.32	.42	.50	.57								
June 23	[1]7:20 p. m.	1:25 p. m.	2.41	12:27 a. m.	12:42 a. m.	.05	.13	.29	.47											
Do	[1]7:20 p. m.	1:25 p. m.	2.41	2:23 a. m.	3:02 a. m.	1.31	.15	.27	.28	.32	.39	.48	.61	.71						
July 1	6:59 p. m.	[2]7:05 a. m.	2.00	7:29 p. m.	7:48 p. m.	.09	.10	.23	.37	.47										
July 6	10:10 p. m.	[2]D. N. a. m.	.92	10:21 p. m.	10:40 p. m.	.01	.23	.46	.64	.80										
Sept. 4	2:20 p. m.	5:10 p. m.	.67	2:31 p. m.	3:01 p. m.	.01	.10	.20	.37	.39	.44	.56								
Sept. 6	D. N. a. m.	6:35 a. m.	.74	3:38 a. m.	3:53 a. m.	.16	.15	.29	.37											
Oct. 10	D. N. a. m.	9:05 a. m.	1.80	5:28 a. m.	6:12 a. m.	.68	.11	.25	.38	.40	.42	.48	.66	.70	.87					
Oct. 11	D. N. a. m.	7:25 a. m.	.74	6:35 a. m.	6:54 a. m.	.27	.07	.23	.39	.46										
Oklahoma City, Okla.:																				
Mar. 12	[1]6:23 p. m.	7:37 a. m.	.74	4:55 a. m.	5:06 a. m.	.10	.19	.37												
Apr. 19	6:55 a. m.	9:23 a. m.	.56	8:22 a. m.	8:35 a. m.	.13	.17	.32	.37											
Do	9:45 p. m.	11:10 p. m.	.92	10:00 p. m.	10:30 p. m.	.04	.09	.25	.50	.77	.82	.87								
May 17	3:30 p. m.	8:10 p. m.	1.53	6:37 p. m.	7:01 p. m.	.49	.25	.56	.63	.76	1.00									
July 1	6:35 p. m.	[2]5:50 a. m.	1.40	6:45 p. m.	7:17 p. m.	.01	.07	.26	.47	.62	.72	.80	.85							
July 6	7:00 p. m.	D. N. p. m.	1.84	7:17 p. m.	8:27 p. m.	.09	.09	.22	.33	.52	.74	.82	1.00	1.06	1.19	1.32	1.44	1.66		
Aug 11	7:29 p. m.	8:20 p. m.	.74	7:39 p. m.	8:04 p. m.	.01	.11	.30	.48	.65	.72									
Sept. 7	1:47 p. m.	3:15 p. m.	.62	2:11 p. m.	2:31 p. m.	.03	.08	.29	.50	.58										
Oct. 11	6:44 p. m.	[2]9:34 a. m.	2.17	6:46 p. m.	7:50 p. m.	.01	.10	.20	.25	.32	.33	.33	.35	.47	.55	.59	.90	1.01		

[1] On previous date. [2] On following date. [3] From defective record. [6] No excessive precipitation.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated												
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
SOUTHERN SLOPE																				
Abilene, Tex.:																				
Mar. 12	D. N. a. m.	D. N. a. m.	1.37	1:25 a. m.	1:48 a. m.	T.	0.15	0.20	0.26	0.33	0.47									
Do	D. N. a. m.	D. N. a. m.	1.37	2:23 a. m.	2:48 a. m.	0.59	.11	.26	.35	.47	.55									
Sept. 5	9:05 p. m.	D. N. p. m.	1.12	9:47 p. m.	10:12 p. m.	.05	.12	.53	.86	.95	1.02									
Sept. 7	10:03 p. m.	D. N. p. m.	1.05	10:49 p. m.	11:13 p. m.	.09	.09	.34	.67	.85	.93									
Oct. 12	5:40 p. m.	[2]D. N. a. m.	1.36	6:26 p. m.	6:45 p. m.	.05	.15	.33	.53	.64										
Oct. 18	8:05 p. m.	9:15 p. m.	.44	8:50 p. m.	8:58 p. m.	.01	.32	.42												
Amarillo, Tex.:																				
May 12	2:50 p. m.	9:40 p. m.	.81	7:33 p. m.	8:03 p. m.	.15	.05	.10	.20	.31	.41	0.52								
July 28	4:45 p. m.	5:40 p. m.	.66	5:08 p. m.	5:18 p. m.	.23	.20	.40												
Aug. 6	11:10 p. m.	[2]D. N. a. m.	1.68	11:23 p. m.	11:53 p. m.	.02	.17	.48	.80	1.13	1.48	1.59								
Aug. 8	11:30 p. m.	[2]D. N. a. m.	1.30	11:34 p. m.	11:39 p. m.	.01	.27													
Aug. 9	[1]11:30 p. m.	D. N. a. m.	1.30	1:02 a. m.	1:08 a. m.	.32	.35	.40												
Do	[1]11:30 p. m.	D. N. a. m.	1.30	3:15 a. m.	3:35 a. m.	.78	.08	.21	.34	.42										
Sept. 8	[1]9:15 p. m.	6:35 a. m.	.75	5:23 a. m.	5:45 a. m.	.14	.07	.19	.43	.55	.59									
Del Rio, Tex.:																				
Apr. 8	D. N. a. m.	D. N. a. m.	.42	2:04 a. m.	2:16 a. m.	.02	.13	.38	.39											
Do	D. N. a. m.	D. N. a. m.	.44	3:44 a. m.	3:59 a. m.	.04	.09	.24	.38											
May 17	3:47 p. m.	4:55 p. m.	.99	3:52 p. m.	4:16 p. m.	.01	.08	.22	.46	.65	.82									
May 23	6:47 p. m.	7:30 p. m.	1.01	6:55 p. m.	7:23 p. m.	.01	.09	.21	.34	.55	.90	1.00								
Do	8:41 p. m.	9:40 p. m.	.83	8:42 p. m.	9:10 p. m.	.01	.16	.27	.49	.64	.67	.76								
May 27	D. N. p. m.	[2]D. N. a. m.	.59	11:28 p. m.	11:55 p. m.	.01	.07	.13	.32	.41	.50	.54								
June 25	4:15 p. m.	6:10 p. m.	1.80	4:25 p. m.	5:28 p. m.	.03	.15	.26	.29	.31	.38	.43	0.50	0.65	0.82	1.04	1.44	1.61		
June 29	D. N. p. m.	[2]D. N. a. m.	.66	11:03 p. m.	11:22 p. m.	.01	.10	.24	.35	.41										
July 2	6:18 p. m.	9:10 p. m.	.92	6:32 p. m.	7:05 p. m.	.04	.12	.23	.37	.44	.50	.58	.63							
Dec. 13	D. N. a. m.	D. N. a. m.	1.21	3:47 a. m.	4:50 a. m.	.09	.17	.24	.28	.31	.33	.38	.46	.61	.67	.83	.99	1.12		
Roswell, N. Mex.:																				
May 16	12:32 a. m.	2:50 a. m.	.49	12:34 a. m.	12:45 a. m.	.01	.14	.31	.35											
June 4	3:42 p. m.	5:20 p. m.	.92	4:44 p. m.	5:06 p. m.	.03	.14	.36	.61	.85	.88									
July 1	6:31 p. m.	D. N. p. m.	.76	6:39 p. m.	6:52 p. m.	.01	.14	.34	.40											
July 19 [3]	5:36 p. m.	6:38 p. m.	1.27	5:42 p. m.	6:10 p. m.	.01	.43	.84	.97	1.07	1.16	1.20								
July 28	1:20 p. m.	2:12 p. m.	1.05	1:22 p. m.	1:42 p. m.	.01	.40	.75	.93	1.01										
SOUTHERN PLATEAU																				
El Paso, Tex.:																				
June 29	2:55 p. m.	3:50 p. m.	.45	3:33 p. m.	3:42 p. m.	.01	.19	.43												
July 29	11:25 a. m.	12:25 p. m.	.97	11:32 a. m.	12:07 p. m.	.03	.13	.27	.39	.47	.66	.79	.90							
Santa Fe, N. Mex.:																				
May 16	6:30 p. m.	D. N. p. m.	.97	7:08 p. m.	7:18 p. m.	.04	.18	.34												
July 30 [3]	2:10 p. m.	3:55 p. m.	.74	2:42 p. m.	3:05 p. m.	.12	.11	.23	.39	.48	.62									
Aug. 26	12:25 p. m.	1:35 p. m.	.74	12:48 p. m.	1:07 p. m.	.04	.19	.45	.61	.68										
Sept. 21	1:25 p. m.	2:00 p. m.	.32	1:34 p. m.	1:43 p. m.	.01	.21	.31												
Sept. 22	1:55 p. m.	4:55 p. m.	1.68	2:46 p. m.	4:13 p. m.	.08	.06	.18	.38	.66	.79	.81	.84	.93	1.00	1.04	1.15	1.45	1.57	
Phoenix, Ariz.:																				
Aug. 3 [3]	9:50 p. m.	[2]D. N. a. m.	1.01	10:02 p. m.	10:32 p. m.	.03	.19	.36	.52	.67	.79	.89								
Aug. 5 [3]	8:34 p. m.	10:50 p. m.	.56	10:07 p. m.	10:14 p. m.	.17	.28	.37												
MIDDLE PLATEAU																				
Reno, Nev. [5]																				
Winnemucca, Nev. [5]																				
Modena, Utah [5]																				
Salt Lake City, Utah [5]																				
Grand Junction, Colo. [5]																				
NORTHERN PLATEAU																				
Baker, Oreg. [5]																				
Boise, Idaho [5]																				
Lewiston, Idaho:																				
June 8	3:22 p. m.	4:00 p. m.	.62	3:40 p. m.	3:50 p. m.	.16	.26	.43												
Pocatello, Idaho [5]																				
Spokane, Wash. [5]																				
Walla Walla, Wash. [5]																				
NORTH PACIFIC COAST REGION																				
North Head, Wash. [5]																				
Port Angeles, Wash. [5]																				
Seattle, Wash. [5]																				
Tacoma, Wash. [5]																				
Tatoosh Island, Wash. [5]																				
Yakima, Wash. [5]																				
Portland, Oreg. [6]																				
Roseburg, Oreg. [5]																				

[1] On previous date.
[2] On following date.
[3] From defective record.
[5] No excessive precipitation.
[6] No excessive precipitation during period January to October, inclusive.

Accumulated amounts of precipitation for each five minutes for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes or 0.80 in one hour during 1929 at all stations furnished with self-registering gages—Continued

Station and date	Total duration		Total amount of precipitation	Excessive rate		Amount before excessive rate began	Depths of precipitation (in inches) during periods of time indicated														
	From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
MIDDLE PACIFIC COAST REGION																				
Eureka, Calif.[5]																				
Red Bluff, Calif.:																				
Dec. 11	5:40 a. m.	7:10 a. m.	0.44	5:55 a. m.	6:15 a. m.	0.01	0.10	0.22	0.34	0.40										
Sacramento, Calif.[5]																				
San Francisco, Calif.[5]																				
San Jose, Calif.[5]																				
SOUTH PACIFIC COAST REGION																				
Fresno, Calif.[5]																				
Los Angeles, Calif.[5]																				
San Diego, Calif.[5]																				
ALASKA																				
Juneau, Alaska[5]																				
ISLAND POSSESSIONS																				
San Juan, P. R.:[4]																				
June 28	8:14 a. m.	10:20 a. m.	1.41	8:50 a. m.	9:23 a. m.	.06	.25	.52	.87	1.10	1.18	1.25	1.30							
June 30	1:10 p. m.	4:20 p. m.	1.26	1:58 p. m.	2:49 p. m.	.04	.09	.12	.20	.42	.55	.66	.74	0.79	0.91	1.03	1.09			
Honolulu, Hawaii:																				
Jan. 20	2:15 p. m.	D. N. p. m.	3.43	3:28 p. m.	3:37 p. m.	.04	.33	.52												
Do	2:15 p. m.	D. N. p. m.	3.43	4:19 p. m.	4:44 p. m.	.69	.11	.32	.51	.56	.64									
Do	2:15 p. m.	D. N. p. m.	3.43	5:19 p. m.	5:50 p. m.	1.47	.07	.12	.23	.40	.64	.72	.74							
Do	2:15 p. m.	D. N. p. m.	3.43	7:01 p. m.	7:46 p. m.	2.68	.14	.18	.28	.37	.41	.43	.48	.55	.67					
Oct. 5	12:09 p. m.	8:15 p. m.	2.31	12:57 p. m.	1:15 p. m.	.03	.20	.36	.59	.65										
Do	12:09 p. m.	8:15 p. m.	2.31	2:26 p. m.	3:30 p. m.	.77	.17	.39	.56	.68	.76	.78	.81	.84	.93	1.00	1.20	1.32		
Nov. 2–3	7:59 p. m.	D. N. a. m.	2.48	11:13 p. m.	12:24 a. m.	.34	.13	.39	.65	.81	.93	1.19	1.30	1.35	1.39	1.53	1.78	2.00		
Nov. 5	7:10 a. m.	8:15 a. m.	.96	7:18 a. m.	7:41 a. m.	.05	.40	.65	.72	.83	.88									
Dec. 19	[1]D. N. p. m.	9:45 a. m.	1.50	4:16 a. m.	4:31 a. m.	.50	.24	.48	.57											

[1] On previous date.
[4] Only storms attaining 1 inch or more in 1 hour or less.
[5] No excessive precipitation.

PART III

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR TWO HUNDRED AND EIGHT STATIONS DURING 1929

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., noon, and 8 p. m., respectively.

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

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

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

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

The snow caught and retained in the gage is melted and measured as water. No correction is applied for the snow that is lost out of the gage by the eddying action of the wind; consequently in some cases the record is less than would be given if the observer had measured cylinders of snow cut from the spots representing the average snowfall on the ground. When it is known that the catch of the snow gage is markedly 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 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 can not be combined into a daily mean in the present state of our knowledge of the diurnal variations in cloudiness, and are therefore given separately. In order, however, to obtain a general record of the sunshine as affecting the growth of plants, the observer keeps some memoranda of the cloudiness, sufficient to enable him at the end of the day to determine the average cloudiness on the scale given above from sunrise to sunset; the resulting average for each month is given in the column of "daylight" cloudiness.

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

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

The maximum velocities given are for 5-minute periods.

Until the end of 1927 the average and the maximum velocities both were published according to the uncorrected indications of the 4-cup Robinson anemometers, although for some years it had been known that these indicated velocities exceed the true velocities, notably when there are strong winds. The series of records from the 4-cup anemometers came to an end at the close of 1927. A table is printed below showing the reductions from the 4-cup indications of 1927 and before to the equivalent 3-cup readings of the series beginning January 1, 1928.

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

References and abbreviations.—H_b = height of barometer cistern above mean sea level on January 1, 1900, or when the station was established, if it was established since January 1, 1900, that being the elevation to which all previous readings have been reduced. It is designated as the "station, or adopted, elevation." At 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.

WIND VELOCITY CONVERSION TABLE

To convert 4-cup anemometer records into 3-cup anemometer equivalents

[In miles an hour]

4-cup record	0	1	2	3	4	5	6	7	8	9
	3-cup equivalents									
0+	------	------	2	3	4	5	6	7	8	9
10+	9	10	11	12	13	14	14	15	16	17
20+	18	18	19	20	21	22	23	23	24	25
30+	26	26	27	28	29	30	30	31	32	33
40+	33	34	35	36	36	37	38	39	40	40
50+	41	42	43	44	44	45	46	47	47	48
60+	49	50	51	51	52	53	54	54	55	56
70+	57	57	58	59	60	60	61	62	63	64
80+	64	65	66	67	67	68	69	70	71	71
90+	72	73	74	74	75	76	77	78	78	79

Annual meteorological summary for the year ending December 31, 1929

ABILENE, TEX.

[ϕ=32° 23′ N.; λ=99° 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: Extremes: Monthly	Moisture: Dew point: Maximum	Moisture: Dew point: Minimum	Moisture: Dew point: Mean: 8 a. m.	Moisture: Dew point: Mean: Noon, local time	Moisture: Dew point: Mean: 8 p. m.	Moisture: Relative humidity: Mean: 8 a. m.	Moisture: Relative humidity: Mean: Noon, local time	Moisture: Relative humidity: Mean: 8 p. m.	Moisture: Vapor pressure: Mean: 8 a. m.	Moisture: Vapor pressure: Mean: Noon, local time	Moisture: Vapor pressure: Mean: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.209	28.700	27.770	37.0	50.2	47.8	56.4	32.8	44.6	72	14	27	26	27	68	43	46	0.156	0.155	0.158	0.48	0.39	4.8	5.8	5.1	5.3
February	28.213	28.710	27.806	31.2	42.0	42.5	49.0	29.1	39.0	77	10	28	29	28	87	63	62	.157	.164	.163	1.40	.52	6.5	5.8	5.9	6.7
March	28.097	28.500	27.630	49.3	63.2	63.1	69.0	46.6	57.8	92	33	39	36	37	69	43	43	.254	.233	.239	2.72	1.37	6.2	4.8	5.1	5.2
April	28.075	28.480	27.775	58.4	75.3	74.3	80.2	56.6	68.4	91	42	48	43	41	70	35	36	.358	.312	.292	1.18	.48	5.2	5.5	5.8	5.4
May	28.140	28.440	27.750	62.9	77.2	74.4	81.2	59.5	70.4	98	44	54	53	53	76	48	52	.443	.438	.427	4.22	1.53	6.8	6.4	5.4	6.4
June	28.106	28.322	27.900	72.9	89.9	88.9	94.2	70.7	82.4	103	64	62	59	58	70	38	37	.569	.510	.493	.13	.10	3.4	2.4	2.5	2.9
July	28.194	28.380	27.998	74.0	89.8	89.5	94.4	71.8	83.1	104	65	66	62	60	76	41	38	.635	.555	.514	.64	.44	3.0	4.8	3.5	4.1
August	28.187	28.320	28.020	75.1	94.6	93.5	98.8	74.0	86.4	103	67	60	57	52	60	29	26	.518	.464	.401	.05	.05	1.8	3.3	2.2	2.6
September	28.171	28.450	27.910	66.5	82.1	79.4	86.3	64.8	75.6	97	55	59	58	56	77	47	48	.504	.483	.461	4.37	1.45	4.0	4.0	3.7	3.9
October	28.218	28.580	27.657	57.5	73.5	69.0	77.5	55.5	66.5	99	32	51	50	50	80	47	54	.387	.385	.379	3.28	1.79	5.0	4.3	4.1	4.5
November	28.309	28.740	27.950	40.0	52.7	48.2	57.0	37.5	47.2	80	28	33	32	34	77	50	58	.198	.194	.202	.50	.28	4.7	4.8	4.2	4.7
December	28.303	28.700	27.893	40.4	56.9	51.8	60.7	37.5	49.1	80	11	32	29	30	71	38	45	.213	.203	.203	.14	.13	3.4	3.9	3.2	3.7
Year	28.185	28.740	27.630	55.4	70.6	68.5	75.4	53.0	64.2	104	10	47	44	44	73	44	45	.366	.341	.328	19.11	1.79	4.6	4.6	4.2	4.6

ALBANY, N. Y.

[ϕ=42° 39′ N.; λ=73° 45′ W.]

January	29.920	30.610	29.070	22.5	26.3	25.1	32.6	16.8	24.7	62	−2	16	19	19	75	73	74	0.100	0.107	0.107	2.21	0.46	6.3	4.6	4.2	5.1
February	30.011	30.363	29.590	20.3	28.3	26.5	32.8	17.0	24.9	54	−3	16	21	20	82	73	75	.095	.114	.110	3.68	1.15	6.4	4.5	3.4	4.8
March	29.817	30.300	28.740	34.2	41.9	39.9	47.6	30.1	38.8	64	6	27	30	30	75	64	69	.158	.177	.180	3.10	.68	6.4	5.3	3.9	5.7
April	29.796	30.310	29.000	43.1	50.2	49.0	55.4	39.6	47.5	88	23	35	37	41	74	65	76	.215	.239	.277	6.31	1.53	6.8	6.8	6.1	6.8
May	29.929	30.408	28.800	55.2	63.8	60.5	68.9	47.9	58.4	92	37	47	48	52	74	58	75	.344	.360	.409	2.34	.55	3.8	4.5	4.5	4.5
June	29.812	30.071	29.411	64.9	74.2	71.7	78.4	58.6	68.5	93	42	56	59	60	72	60	69	.467	.515	.546	2.65	1.02	4.1	4.0	3.7	3.6
July	29.895	30.325	29.500	67.3	77.8	76.7	83.0	60.8	71.9	99	49	58	56	58	73	49	55	.493	.466	.504	.62	.22	2.9	2.3	2.1	2.4
August	29.872	30.239	29.400	63.3	75.2	71.0	79.1	58.2	68.6	88	48	54	52	55	72	46	60	.426	.403	.453	1.02	.56	3.9	3.1	3.5	3.5
September	30.000	30.503	29.570	58.9	71.7	66.4	75.6	55.1	65.4	97	36	52	54	55	78	55	69	.411	.438	.465	3.45	2.32	3.9	3.2	4.2	4.0
October	29.928	30.625	29.260	45.2	54.4	51.8	58.8	41.8	50.3	75	29	38	38	41	77	57	67	.242	.246	.271	2.32	1.31	4.8	5.1	4.9	5.2
November	29.925	30.430	29.050	38.7	44.1	41.7	47.6	34.8	41.2	67	13	33	33	35	79	66	76	.263	.209	.218	1.82	.83	6.4	5.5	5.7	6.1
December	29.952	30.638	29.350	27.3	30.0	28.9	34.0	22.5	28.2	47	−1	21	24	24	76	76	80	.117	.131	.129	2.16	.88	8.3	7.2	6.6	7.4
Year	29.905	30.638	28.740	45.1	53.2	50.8	57.8	40.3	49.0	99	−3	38	39	41	76	62	70	.273	.284	.306	31.68	2.32	5.3	4.7	4.4	4.9

ALPENA, MICH.

[ϕ=45° 05′ N.; λ=83° 30′ W.]

January	29.293	29.890	28.270	13.9	19.1	15.8	23.3	8.1	15.7	40	−9	10	11	11	84	69	80	0.071	0.073	0.075	2.86	0.66	8.7	7.2	5.0	7.2
February	29.409	29.890	28.732	9.5	21.4	17.2	23.1	6.0	14.6	42	−21	7	12	12	88	66	78	.061	.079	.076	.91	.39	6.8	5.4	5.5	5.7
March	29.212	29.799	28.010	29.9	37.8	34.1	41.7	24.3	33.0	61	0	25	26	27	82	64	74	.144	.153	.151	1.96	.98	7.1	5.9	6.2	6.1
April	29.246	29.610	28.630	39.2	44.9	42.1	49.0	32.4	40.7	82	12	32	32	32	75	63	69	.189	.186	.190	3.67	1.18	5.9	5.4	5.3	5.3
May	29.366	29.880	28.480	46.6	52.8	50.5	57.0	38.6	47.8	89	31	37	38	37	72	61	62	.239	.256	.241	3.84	1.16	5.6	5.4	4.9	4.8
June	29.294	29.580	28.725	57.3	63.0	60.2	67.1	49.7	58.4	91	38	50	49	51	76	63	74	.376	.371	.392	3.96	1.17	5.2	5.2	5.1	4.9
July	29.341	29.710	28.840	66.0	74.0	68.4	77.1	56.5	66.8	96	44	57	56	56	73	56	66	.473	.467	.463	1.09	.80	4.2	4.4	3.3	3.9
August	29.359	29.702	28.881	59.4	70.0	64.7	72.7	52.1	62.4	92	44	52	53	54	79	57	71	.455	.412	.437	2.25	1.42	3.3	4.5	3.7	4.1
September	29.416	29.870	28.900	55.0	63.9	58.3	66.9	48.3	57.6	95	30	49	50	50	81	63	75	.354	.382	.372	1.90	1.09	4.7	5.2	4.6	5.2
October	29.354	30.050	28.580	42.9	50.8	47.0	54.1	38.4	46.2	69	27	38	39	39	84	65	75	.238	.246	.248	4.08	2.72	6.3	6.8	5.2	6.7
November	29.306	29.850	28.430	30.4	35.8	32.7	38.4	26.2	32.3	58	−2	27	27	26	85	70	77	.157	.152	.152	1.23	.38	7.2	8.0	6.5	7.8
December	29.328	29.930	28.535	22.5	25.6	24.4	27.7	19.0	23.4	40	5	19	20	21	86	78	85	.106	.108	.113	1.55	.23	9.4	9.0	8.8	9.2
Year	29.327	30.050	28.010	39.4	46.6	43.0	49.8	33.3	41.6	96	−21	34	34	35	80	65	74	.239	.240	.242	29.30	2.72	6.2	6.0	5.3	5.9

AMARILLO, TEX.

[ϕ=35° 13′ N.; λ=101° 50′ W.]

January	26.210	26.660	25.700	26.7	42.3	39.7	48.4	24.3	36.4	62	2	21	25	23	77	51	56	0.111	0.133	0.137	0.16	0.06	3.3	4.3	3.7	4.5
February	26.208	26.690	25.830	21.7	35.0	34.3	41.4	19.7	30.6	66	2	15	20	18	74	56	57	.092	.112	.113	.34	.24	5.7	5.0	4.6	5.5
March	26.160	26.650	25.650	37.2	56.5	56.2	61.7	36.1	48.9	82	18	28	31	30	70	42	42	.159	.181	.188	1.84	1.70	3.1	4.8	4.6	4.7
April	26.149	26.520	25.770	47.2	68.4	68.2	73.9	46.2	60.0	84	33	41	44	42	78	44	44	.263	.306	.301	T.	T.	4.4	3.1	3.4	3.3
May	26.252	26.568	25.800	53.5	66.9	67.6	72.2	51.3	61.8	87	34	49	50	50	85	58	57	.359	.366	.370	3.19	1.14	6.8	5.5	6.5	6.4
June	26.239	26.490	25.994	64.2	83.0	83.2	87.7	62.5	75.1	102	53	54	52	54	71	39	41	.424	.406	.420	.77	.40	3.4	2.5	4.2	3.3
July	26.332	26.500	26.090	68.0	86.1	85.6	90.9	66.7	78.8	102	60	59	55	58	74	37	42	.500	.447	.472	1.76	.90	3.4	3.9	3.9	4.0
August	26.356	26.490	26.182	67.9	87.2	85.5	91.6	66.8	79.2	98	63	58	57	56	71	38	40	.483	.476	.451	4.54	1.85	3.6	2.6	3.4	3.0
September	26.294	26.590	26.044	58.1	75.7	73.3	79.5	56.8	68.2	93	47	51	52	52	78	48	53	.380	.402	.415	1.97	1.05	4.8	3.8	4.8	4.6
October	26.319	26.610	25.650	50.5	68.1	62.1	71.5	48.8	60.2	91	27	44	46	44	79	48	56	.304	.325	.315	3.28	1.06	4.6	3.3	3.7	4.3
November	26.347	26.747	25.890	30.4	43.0	39.6	47.4	27.5	37.4	70	7	25	29	27	78	60	67	.135	.159	.163	.91	.52	5.1	4.5	4.0	4.9
December	26.320	26.690	25.890	30.9	50.2	45.1	55.7	26.9	41.3	79	6	20	23	21	62	38	42	.107	.122	.116	.11	.10	1.6	2.8	2.7	2.6
Year	26.266	26.747	25.650	46.4	63.5	61.7	68.5	44.5	56.5	102	2	39	40	40	75	47	62	.276	.286	.288	18.87	1.85	4.2	3.8	4.0	4.3

Annual meteorological summary for the year ending December 31, 1929—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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 or more melted	Hail	Dense fog	Maximum temperature: 32° or below	Maximum temperature: 90° or above	Minimum temperature: 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	9.1	S.	32	W.	0	12	6	1	9	11	12	4	7	0	11	8	12	4	2	1	0	0	0	0	0	15	1	0
February	8.0	N.	27	S.	0	18	8	4	7	10	3	4	2	0	8	9	11	8	6	1	1	0	0	4	0	17	1	0
March	9.2	S.	29	S.	0	10	5	1	5	17	11	6	7	0	11	7	13	8	6	0	0	1	0	0	2	0	3	0
April	11.4	S.	33	S.	1	5	3	2	13	21	6	6	4	0	11	4	15	7	7	0	0	2	1	0	1	0	7	0
May	10.0	SE.	32	NW.	0	9	7	4	15	16	3	3	5	0	7	10	14	11	9	0	0	1	0	0	4	0	7	0
June	10.2	S.	29	S.	0	4	5	2	14	31	3	0	0	1	18	10	2	2	1	0	0	0	0	0	22	0	3	0
July	8.3	S.	28	S.	0	3	3	2	20	31	2	1	0	0	15	11	5	5	4	0	0	0	0	0	28	0	7	0
August	6.9	S.	19	E.	0	0	6	4	21	25	2	2	2	0	22	8	1	1	1	0	0	0	0	0	31	0	2	0
September	7.3	SE.	23	S.	0	11	8	2	18	18	3	0	0	0	15	7	8	6	5	0	0	0	0	0	8	0	3	0
October	6.5	S.	23	SW.	0	7	4	1	16	15	5	5	8	1	13	10	8	8	6	0	0	0	0	0	2	1	5	0
November	7.7	S.	30	S.	0	14	6	3	5	13	5	3	11	0	14	7	9	7	3	2	2	0	0	0	0	7	1	0
December	9.0	S.	28	S.	0	8	1	5	2	36	3	1	5	1	17	7	7	2	1	1	1	0	0	2	0	13	2	0
Year	8.6	S.	33	S.	1	101	62	31	145	244	58	35	51	3	162	98	105	69	51	5	4	4	1	6	98	53	42	0

ALBANY, N. Y.

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

January	7.7	NW.	26	S.	0	5	7	0	1	14	13	5	17	0	9	16	6	15	12	20	11	0	0	17	0	30	0	0
February	5.9	NW.	17	SW.	0	9	11	1	0	8	7	2	18	0	12	9	7	9	7	11	6	0	0	14	0	27	0	0
March	7.3	SW.	30	S.	0	8	9	1	2	13	13	6	10	0	10	9	12	15	13	8	2	1	1	3	0	15	2	0
April	7.2	SW.	30	S.	0	6	7	2	2	12	11	4	16	0	7	7	16	21	18	8	6	0	2	0	0	3	3	0
May	6.9	SW.	26	SW.	0	3	5	3	0	21	15	5	10	0	15	10	6	13	12	0	0	1	0	0	1	0	4	0
June	5.7	SW.	24	S.	0	5	2	2	3	19	11	9	9	0	16	9	5	13	8	0	0	0	0	0	1	0	7	0
July	9.8	S.	30	NE.	0	6	5	4	1	19	15	5	7	0	23	6	2	8	7	0	0	0	0	0	0	0	2	0
August	5.8	S.	20	SW.	0	10	3	3	0	15	13	3	14	1	18	9	4	7	3	0	0	0	0	0	0	0	1	0
September	5.1	S.	23	SW.	0	10	4	3	2	24	7	2	7	1	15	10	5	10	5	0	0	0	0	0	3	0	2	0
October	6.3	SW.	25	SE.	0	5	4	0	4	20	13	5	11	0	11	9	11	8	6	1	0	0	1	0	0	3	0	0
November	6.0	S.	23	SW.	0	6	4	4	0	17	15	5	9	0	8	10	12	13	7	6	1	0	2	2	0	9	0	0
December	6.4	SW.	20	NE.	0	16	5	3	0	18	8	1	5	0	5	9	17	11	8	15	7	0	2	13	0	25	0	1
Year	6.3	SW.	30	S.	0	89	66	26	15	200	141	58	133	2	149	113	103	143	106	69	33	2	10	49	9	112	21	1

ALPENA, MICH.

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

January	12.3	W.	48	SE.	5	1	0	1	4	6	16	19	15	0	5	9	17	14	10	23	14	0	0	27	0	31	0	0
February	8.0	NW.	27	SW.	0	6	4	3	4	5	5	14	15	0	8	9	11	11	7	17	10	0	2	25	0	28	0	2
March	11.3	NW.	40	NW.	2	3	3	6	6	6	11	10	17	0	9	7	15	13	10	10	5	0	4	6	0	25	1	1
April	11.3	NW.	36	NW.	2	6	7	10	3	4	6	8	16	0	11	10	9	15	14	7	5	0	2	1	0	10	3	1
May	10.6	NW.	44	NW.	2	5	4	4	8	6	9	13	13	0	11	14	6	9	9	5	2	1	1	0	0	4	6	2
June	8.4	NW.	34	SW.	1	7	3	5	10	6	6	8	15	0	10	13	7	14	13	0	0	0	0	1	0	2	0	1
July	8.9	SE.	29	SW.	0	3	1	1	16	9	4	14	13	1	14	16	1	6	3	0	0	0	0	1	0	2	0	5
August	8.9	NW.	33	NW.	1	2	2	1	8	7	7	14	21	0	14	12	5	8	7	0	0	0	0	1	0	1	0	4
September	8.8	NW.	35	W.	1	7	2	6	6	8	10	3	17	1	12	7	11	8	5	0	0	0	0	0	2	1	1	1
October	11.4	NW.	36	SE.	2	6	5	3	10	5	8	12	13	0	6	7	18	11	9	1	0	0	2	0	0	5	1	0
November	10.4	SW.	37	NW.	1	3	3	1	0	5	21	20	7	0	3	9	18	18	8	15	12	0	2	9	0	20	0	2
December	10.1	W.	33	NW.	1	6	9	3	5	9	9	12	9	0	1	2	28	21	13	23	20	0	1	24	0	30	0	0
Year	10.0	NW.	48	SE.	18	55	43	44	80	76	112	147	171	2	104	115	146	148	108	101	68	1	16	92	6	154	27	15

AMARILLO, TEX.

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

January	8.4	SW.	25	N.	0	11	7	1	8	9	12	8	6	0	12	12	7	4	3	3	2	0	0	2	0	27	0	0
February	7.7	N.	22	NE.	0	14	[illegible]	4	9	10	2	7	8	0	11	5	12	4	4	4	0	0	0	7	0	28	0	0
March	9.1	W.	27	W.	0	10	[illegible]	2	3	6	12	11	11	0	10	14	7	4	3	0	0	0	0	0	0	8	0	0
April	9.7	SW.	25	S.	0	6	3	1	8	14	19	3	6	0	19	8	3	0	0	0	0	0	0	0	0	0	0	0
May	9.5	S.	26	NW.	0	6	7	6	13	15	8	2	5	0	6	10	15	12	7	1	0	0	0	0	0	7	0	0
June	8.9	S.	24	SE.	0	2	9	3	13	15	10	7	1	0	19	7	4	1	4	0	0	0	0	0	0	14	0	0
July	7.6	S.	21	S.	0	2	5	4	8	29	13	0	1	0	15	9	7	4	4	0	0	0	0	0	0	20	0	0
August	6.1	SW.	24	NE.	0	4	4	5	11	12	17	5	4	0	20	8	3	12	8	0	0	0	0	0	0	21	0	0
September	8.4	S.	22	N.	0	7	8	0	9	26	7	2	1	0	15	8	7	10	8	0	0	0	1	0	3	0	0	0
October	6.9	SW.	25	N.	0	12	6	3	11	7	15	2	6	0	13	10	8	9	8	1	1	0	0	0	1	3	0	0
November	8.0	N.	22	SW.	0	22	6	3	3	6	8	4	8	0	13	4	13	9	5	10	7	0	0	3	0	22	0	0
December	7.2	SW.	23	NE.	0	16	0	0	2	3	19	10	10	1	22	4	5	2	1	2	1	0	0	4	0	21	0	0
Year	8.1	SW.	27	W.	0	112	64	32	98	152	142	62	67	1	175	99	91	79	56	24	15	0	1	16	59	108	32	0

Annual meteorological summary for the year ending December 31, 1929—Continued

ANNISTON, ALA.

[ϕ=33° 39′ N.; λ=85° 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.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum (in 24 hours)	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.342	29.720	28.980	40.4	51.6	46.6	56.7	35.3	46.0	77	19	35	36	...	80	57	...	0.239	0.239	.....	4.96	1.23	5.8	4.9	4.8	4.7
February	29.300	29.630	28.860	37.2	47.9	44.4	53.1	33.6	43.4	72	20	32	35	...	81	64	...	.195	.221	.....	7.15	1.66	6.5	6.1	6.3	6.4
March	29.243	29.660	28.700	51.4	63.9	60.0	69.1	46.5	57.8	90	29	43	44	...	74	52	...	.314	.322	.....	12.58	3.61	5.4	4.6	4.2	4.9
April	29.221	29.700	28.740	60.5	71.7	64.1	75.9	52.4	64.2	87	39	51	51	...	76	50	...	.396	.390	.....	6.13	2.00	6.8	4.9	4.7	5.2
May	29.322	29.620	28.695	66.0	75.5	68.5	79.2	58.5	68.8	92	39	60	60	...	80	61	...	.525	.545	.....	6.25	1.74	5.1	4.8	5.7	4.8
June	29.224	29.430	28.930	70.9	82.5	75.3	85.7	64.4	75.0	93	53	65	64	...	82	56	...	.627	.611	.....	3.96	.95	4.4	4.1	4.7	4.6
July	29.325	29.520	29.060	73.1	84.1	76.7	88.3	67.2	77.8	94	62	68	68	...	85	59	...	.695	.677	.....	7.17	3.22	4.7	4.6	5.5	4.5
August	29.254	29.471	29.010	71.5	87.6	77.7	91.1	66.5	78.8	95	54	66	65	...	83	48	...	.651	.622	.....	.72	.51	3.2	2.3	3.3	2.7
September	29.265	29.469	28.990	68.1	79.8	71.0	82.4	63.8	73.1	93	51	64	64	...	86	61	...	.601	.612	.....	6.00	1.74	5.1	5.9	5.7	5.5
October	29.291	29.660	28.870	53.1	67.6	58.1	70.3	49.1	59.7	82	34	48	50	...	86	55	...	.354	.372	.....	3.01	1.22	3.8	3.5	3.4	3.6
November	29.337	29.640	28.950	48.2	56.8	51.8	59.8	45.1	52.4	80	17	45	44	...	88	66	...	.337	.341	.....	11.71	2.30	7.8	6.8	5.9	6.4
December	29.401	29.780	28.790	36.7	50.9	42.6	54.6	32.0	43.3	73	14	32	36	...	82	59	...	.208	.238	.....	2.90	.98	4.2	4.0	4.0	3.9
Year	29.294	29.780	28.695	56.4	68.3	61.4	72.2	51.2	61.7	95	14	51	51	...	82	57	...	.428	.432	.....	72.54	3.61	5.2	4.7	4.8	4.8

APALACHICOLA, FLA.

[ϕ=29° 45′ N.; λ=84° 58′ W.]

January	30.085	30.430	29.700	52.1	59.5	56.9	63.7	48.9	56.3	74	32	49	50	50	89	74	80	0.380	0.399	0.391	3.77	1.34	4.3	4.8	3.7	5.3
February	30.017	30.362	29.645	52.8	59.6	57.7	62.4	50.1	56.2	71	34	49	50	51	87	73	79	.377	.398	.394	6.30	3.33	6.4	6.7	5.1	7.1
March	30.006	30.320	29.610	60.1	66.9	65.1	69.6	57.9	63.8	81	45	54	56	57	81	69	77	.447	.473	.496	5.24	4.09	4.8	4.9	3.2	4.2
April	29.974	30.400	29.420	68.7	73.8	71.2	76.2	64.9	70.6	82	55	63	64	64	84	72	79	.594	.604	.610	8.23	6.32	4.9	5.1	4.0	4.8
May	30.038	30.320	29.640	73.9	77.8	75.5	79.8	69.1	74.4	88	54	68	68	67	82	73	76	.660	.705	.677	2.15	.98	4.9	3.1	2.8	3.8
June	29.939	30.130	29.670	77.4	81.5	79.8	84.5	72.4	78.4	94	66	72	71	71	82	71	76	.773	.758	.769	6.69	3.36	4.6	5.1	5.6	5.1
July	30.030	30.200	29.760	79.0	83.5	80.6	85.4	73.6	79.5	91	69	73	72	72	82	70	77	.814	.799	.799	7.44	2.61	5.4	4.3	5.6	5.3
August	29.961	30.150	29.790	79.3	84.3	81.9	86.7	75.1	80.9	90	70	74	73	74	84	69	76	.841	.802	.832	6.78	2.36	4.7	5.9	6.1	5.6
September	29.896	30.130	29.021	74.8	80.3	78.1	82.1	71.9	77.0	87	60	70	71	71	87	74	80	.755	.765	.769	8.40	4.85	6.8	6.5	6.6	6.8
October	29.977	30.210	29.021	64.5	73.6	70.5	75.9	62.3	69.1	83	52	59	57	60	82	60	70	.512	.502	.534	1.50	1.31	3.0	2.3	1.9	3.4
November	30.050	30.330	29.800	60.6	67.5	64.5	69.6	57.6	63.6	79	30	56	56	58	86	70	79	.497	.509	.519	.93	.58	6.0	4.6	5.6	5.5
December	30.153	30.490	29.580	46.4	54.6	53.3	58.7	43.3	51.0	73	25	42	44	45	86	69	76	.304	.330	.334	1.66	1.01	3.6	4.6	2.9	4.7
Year	30.010	30.490	29.021	65.8	71.9	69.6	74.6	62.3	68.4	94	25	61	61	62	84	70	77	.582	.587	.594	59.09	6.32	5.0	4.8	4.5	5.1

ASHEVILLE, N. C.

[ϕ=35° 36′ N.; λ=82° 32′ W.]

January	27.691	28.070	27.210	34.4	41.9	39.4	47.3	29.5	38.4	65	17	28	29	30	77	63	69	0.172	0.181	0.183	1.89	0.92	6.2	6.2	4.8	5.2
February	27.669	27.990	27.250	32.2	40.8	38.6	46.2	29.5	37.8	64	17	28	28	30	83	62	72	.164	.164	.176	4.56	.99	7.0	5.8	5.6	5.8
March	27.664	28.080	26.920	43.9	55.5	52.2	60.4	40.3	50.4	87	20	37	37	38	78	52	61	.246	.248	.261	5.85	1.82	6.0	5.7	5.3	4.8
April	27.637	28.130	27.060	50.2	63.3	60.9	68.4	45.5	57.0	84	35	43	40	42	77	47	52	.290	.267	.277	2.76	.69	5.5	6.0	4.5	4.3
May	27.771	28.120	26.960	57.2	68.1	63.9	71.8	52.7	62.2	83	38	53	52	53	85	59	70	.413	.409	.426	5.16	1.24	6.9	6.6	6.7	5.7
June	27.691	27.920	27.420	62.4	75.0	70.8	78.4	58.2	68.3	86	45	59	57	60	89	55	69	.503	.471	.514	4.27	1.39	5.1	5.6	5.1	4.5
July	27.793	27.998	27.590	65.0	78.1	71.9	81.5	61.9	71.7	89	50	62	61	64	92	5	75	.570	.540	.560	3.13	.66	5.8	5.1	6.7	5.3
August	27.733	27.990	27.480	63.7	77.4	72.6	80.7	60.9	70.8	87	51	61	59	62	91	55	70	.540	.511	.566	.82	.27	4.1	4.8	5.7	5.0
September	27.763	27.943	27.570	60.5	71.7	66.7	74.9	57.8	66.4	86	44	57	57	59	90	63	78	.484	.482	.519	9.32	3.29	6.5	6.5	7.6	6.4
October	27.738	28.130	27.119	46.8	59.5	55.2	62.7	43.7	53.2	72	34	43	42	44	86	58	69	.255	.287	.304	4.75	2.16	4.3	4.5	4.8	4.7
November	27.732	28.020	27.230	43.0	50.5	47.2	53.4	39.7	46.6	71	4	39	40	40	87	68	76	.278	.286	.283	2.43	.88	6.6	6.7	6.0	6.4
December	27.739	28.060	27.110	31.7	44.7	41.0	49.3	28.2	38.8	67	8	27	31	32	83	60	71	.169	.198	.203	1.40	.49	4.6	4.3	4.4	4.5
Year	27.719	28.180	26.920	49.2	60.5	56.7	64.6	45.7	55.1	89	4	45	44	46	85	58	69	.343	.337	.358	46.34	3.29	5.7	5.6	5.6	5.2

ATLANTA, GA.

[ϕ=33° 45′ N.; λ=84° 23′ W.]

January	28.865	29.240	28.440	40.2	48.2	47.0	54.0	36.4	45.2	74	23	34	35	35	77	62	65	0.222	0.227	0.224	4.22	1.01	5.9	5.0	5.2	5.2
February	28.819	29.200	28.410	38.3	46.2	46.9	51.9	35.4	43.6	71	20	32	34	36	79	64	67	.200	.211	.229	9.21	2.64	7.2	6.3	6.6	6.6
March	28.793	29.220	28.200	50.5	60.4	60.4	65.5	48.2	56.8	87	32	42	44	46	74	56	62	.296	.316	.350	13.28	3.75	6.1	5.5	5.8	5.8
April	28.765	29.250	28.200	58.5	68.3	67.5	73.3	56.0	64.6	85	42	51	51	50	78	56	57	.392	.388	.374	6.16	1.93	6.2	6.5	5.1	6.0
May	28.869	29.210	28.230	64.6	73.2	71.0	77.1	60.4	68.8	89	42	59	59	60	83	62	71	.510	.502	.533	6.10	2.72	5.1	6.3	7.0	6.2
June	28.776	29.000	28.510	70.1	79.5	76.3	83.5	66.5	75.0	92	55	63	62	63	79	56	65	.579	.559	.581	3.68	.93	6.2	6.9	6.3	6.3
July	28.874	29.100	28.640	72.8	82.4	79.6	86.4	69.1	77.8	92	61	66	64	65	79	55	63	.637	.607	.629	2.31	.60	5.5	7.4	7.3	7.0
August	28.802	29.060	28.560	72.0	83.5	80.7	87.7	68.9	78.3	94	61	64	63	63	77	50	55	.606	.576	.578	1.49	.73	3.5	5.3	4.2	4.5
September	28.820	29.030	28.550	66.5	74.7	71.9	77.8	64.8	71.3	88	51	61	62	62	85	66	74	.562	.560	.579	10.19	4.13	6.8	8.1	7.5	7.4
October	28.830	29.220	28.300	53.8	64.4	61.1	67.4	51.7	59.6	78	38	46	46	48	75	55	64	.319	.327	.340	3.04	2.50	4.5	5.4	3.5	4.6
November	28.866	29.130	28.460	48.0	54.4	52.4	58.0	45.6	51.8	75	14	43	42	43	82	65	73	.316	.310	.323	6.26	1.31	7.2	6.5	6.0	6.7
December	28.911	29.251	28.300	38.7	47.8	46.2	51.9	35.5	43.7	71	13	33	34	35	79	60	67	.216	.220	.228	1.77	.60	4.3	4.5	4.5	4.7
Year	28.832	29.251	28.200	56.2	65.2	63.4	69.5	53.2	61.4	94	13	50	50	50	79	59	65	.405	.400	.414	67.71	4.13	5.7	6.1	5.8	5.9

Annual meteorological summary for the year ending December 31, 1929—Continued

ANNISTON, ALA.

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

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 33 miles and over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	5.7	SE.	21	S.	0	8	1	1	13	7	7	9	12	4	13	9	9	14	13	0	0	0	0	0	0	16	0	0
February	4.8	NW.	18	S.	0	12	2	3	15	5	2	0	16	1	8	6	14	12	11	0	0	0	0	0	0	13	3	0
March	6.6	SE.	21	SE.	0	9	0	2	16	16	5	5	8	0	15	7	9	14	11	0	0	0	0	0	1	3	8	0
April	4.9	NW.	20	W.	0	4	1	1	11	11	14	2	16	0	9	14	7	14	12	0	0	0	0	0	0	0	12	0
May	4.2	SE.	21	SW.	0	7	5	5	24	10	4	1	4	2	14	8	9	15	11	0	0	0	0	0	2	0	14	0
June	3.2	S.	14	NW.	0	5	4	3	21	13	4	5	4	1	11	13	6	12	8	0	0	0	0	0	12	0	10	0
July	2.7	SE.	28	N.	0	4	2	7	20	12	5	6	3	3	9	21	1	13	12	0	0	0	1	0	11	0	14	0
August	3.0	SE.	14	NW.	0	6	6	5	19	8	2	4	9	3	20	10	1	5	3	0	0	0	1	0	22	0	7	0
September	3.8	SE.	13	SE.	0	5	5	17	20	8	0	2	3	0	9	12	9	14	11	0	0	0	1	0	6	0	9	0
October	5.1	SE.	18	NW.	0	7	3	8	21	1	1	9	11	1	19	4	8	9	8	0	0	0	0	0	0	0	1	0
November	4.4	NW.	19	NW.	0	10	1	2	13	10	5	1	17	1	11	2	17	14	14	1	0	0	0	1	0	4	2	0
December	4.4	NW.	16	NW.	0	1	0	1	10	14	8	9	19	0	16	7	8	8	7	4	3	0	3	4	0	14	1	0
Year	4.4	SE.	28	N.	0	78	30	55	203	115	57	54	122	16	154	113	98	144	121	5	3	1	5	5	54	50	79	0

APALACHICOLA, FLA.

[H_b=36 ft.; h_t=42 ft.; h_r=32 ft.; h_a=49 ft.]

January	7.5	S.	36	SE.	1	9	13	5	10	6	6	4	9	0	11	7	13	7	6	0	0	0	6	0	0	1	1	0
February	8.3	N.	24	NE.	0	12	12	8	4	8	4	5	2	1	4	8	16	12	10	0	0	0	4	0	0	0	3	0
March	8.7	SE.	28	W.	0	5	9	3	13	7	9	9	7	0	13	11	7	9	6	0	0	0	3	0	0	0	1	0
April	7.3	S.	26	NW.	0	4	7	2	11	16	7	8	5	0	13	7	10	7	6	0	0	0	1	0	0	0	5	0
May	7.4	SE.	24	W.	0	3	4	10	16	14	5	6	4	0	16	12	3	7	6	0	0	0	0	0	0	0	6	0
June	6.3	S.	28	N.	0	4	11	5	8	12	6	9	5	0	11	12	7	12	11	0	0	0	0	0	3	0	14	0
July	6.0	SE.	27	N.	0	4	8	8	7	8	9	10	7	1	6	19	6	17	15	0	0	0	0	0	1	0	19	0
August	5.4	SW.	31	NE.	0	13	7	2	6	3	12	13	4	2	9	12	10	14	14	0	0	0	0	0	1	0	21	0
September	10.0	NE.	59	SE.	2	6	27	3	8	8	4	3	1	0	8	6	16	16	11	0	0	0	2	0	0	0	8	0
October	8.3	NE.	38	SE.	1	9	17	5	2	4	4	8	13	0	19	7	5	4	3	0	0	0	0	0	0	0	1	0
November	8.6	SE.	26	N.	0	10	14	7	13	5	1	3	7	0	8	11	11	4	3	0	0	0	2	0	0	1	0	0
December	6.8	NW.	27	E.	0	17	9	5	3	8	4	5	10	0	14	7	10	5	4	1	0	0	8	0	0	7	0	0
Year	7.6	SE.	59	SE.	4	96	138	63	101	99	71	83	75	4	132	119	114	114	95	1	0	0	26	0	5	9	79	0

ASHEVILLE, N. C.

[H_b=2,253 ft.; h_t=70 ft.; h_r=61 ft.; h_a=84 ft.]

January	9.6	NW.	31	SE.	0	18	0	0	21	5	1	1	16	0	11	12	8	13	10	6	0	0	0	0	0	18	0	0
February	8.5	SE.	25	NW.	0	8	0	0	21	3	1	0	22	1	8	9	11	13	12	5	2	0	1	2	0	21	0	0
March	9.9	SE.	36	NW.	2	12	1	0	24	8	0	3	13	1	12	13	6	13	11	2	2	0	0	0	0	10	1	0
April	7.9	SE.	28	NW.	0	18	0	0	21	8	1	0	10	2	14	10	6	9	9	0	0	0	1	0	0	9	2	0
May	7.7	SE.	35	S.	1	7	0	0	32	8	1	1	13	0	6	17	8	16	14	1	0	0	4	0	0	0	10	0
June	4.7	SE.	20	NW.	0	19	2	5	17	5	0	1	9	2	12	12	6	17	13	0	0	0	5	0	0	0	10	0
July	4.8	SE.	36	N.	1	12	1	8	20	2	1	0	14	4	6	20	5	14	13	0	0	1	7	0	0	0	14	0
August	4.8	NW.	24	N.	0	11	3	3	20	6	1	0	17	1	6	22	3	7	7	0	0	0	9	0	0	0	5	0
September	5.7	SE.	18	S.	0	8	0	1	38	7	0	0	5	1	6	11	13	14	14	0	0	0	3	0	0	0	3	0
October	7.2	NW.	25	N.	0	7	0	1	22	5	1	1	24	1	15	7	9	10	8	0	0	0	4	0	0	0	0	0
November	8.3	SE.	26	N.	0	12	0	2	23	5	0	0	18	0	9	4	17	14	10	3	1	0	1	1	0	9	0	0
December	7.1	NW.	26	N.	0	22	0	1	12	5	1	0	16	5	15	5	11	7	6	8	1	0	3	6	0	19	0	0
Year	7.2	SE.	36	NW.	4	154	7	21	271	67	8	7	177	18	120	142	103	147	127	25	6	1	38	9	0	77	45	0

ATLANTA, GA.

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

January	11.3	NW.	33	NW.	1	2	4	11	7	3	3	6	26	0	13	6	12	14	11	4	0	0	4	1	0	14	0	0
February	9.9	NW.	26	NW.	0	4	1	10	12	7	2	1	19	0	5	8	15	13	11	2	0	0	2	0	0	11	6	0
March	11.8	NW.	41	NW.	5	1	6	10	10	8	3	9	15	0	10	9	12	13	10	1	0	0	1	0	0	1	7	0
April	10.1	NW.	34	NW.	2	1	4	4	8	10	8	6	19	0	8	11	11	11	10	0	0	0	0	0	0	0	7	0
May	9.0	S.	42	W.	1	1	2	7	13	14	7	4	13	1	7	10	14	11	10	0	0	0	2	0	0	0	0	0
June	6.9	S.	26	SW.	0	3	2	4	4	18	8	7	14	0	5	14	11	14	13	0	0	0	0	0	2	0	12	0
July	6.8	NW.	32	W.	0	3	2	5	10	15	0	14	13	0	2	14	15	8	7	0	0	0	0	0	6	0	14	0
August	7.5	NW.	24	NW.	0	1	7	12	7	6	1	7	21	0	12	13	6	9	7	0	0	0	0	0	10	0	8	0
September	7.9	E.	30	W.	0	1	12	21	9	5	2	4	5	1	2	11	17	15	13	0	0	0	3	0	0	0	11	0
October	11.0	E.	29	NW.	0	3	6	23	2	1	0	5	22	0	15	7	9	9	5	0	0	0	2	0	0	0	0	0
November	9.6	NW.	31	NW.	0	2	2	13	10	8	2	4	19	0	9	2	19	16	12	2	0	0	5	1	0	3	2	0
December	10.1	NW.	34	NW.	1	1	2	8	4	5	3	8	31	0	16	4	12	6	6	4	1	0	5	3	0	12	2	0
Year	9.8	NW.	42	W.	10	23	50	128	96	100	39	75	217	2	103	109	133	139	115	13	1	1	24	5	18	41	80	0

Annual meteorological summary for the year ending December 31, 1929—Continued

ATLANTIC CITY, N. J.

[ϕ=39° 22′ N.; λ=74° 25′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.017	30.610	29.290	32.0	37.9	34.9	42.7	26.8	34.8	64	8	25	25	25	74	59	66	0.149	0.148	0.143	3.02	0.87	5.3	6.5	4.3	5.6
February	30.038	30.380	29.510	31.1	38.1	36.4	41.7	28.3	35.0	53	18	26	29	29	82	68	74	.151	.163	.166	4.33	1.22	5.0	4.6	5.0	4.4
March	29.919	30.466	28.873	42.9	49.4	44.2	54.2	37.6	45.9	79	13	35	36	36	76	62	75	.227	.231	.229	3.25	1.45	4.6	4.9	3.4	4.8
April	29.849	30.371	28.877	50.6	55.8	51.8	59.4	45.3	52.4	86	38	42	42	43	74	64	75	.280	.283	.286	5.63	2.31	6.0	6.3	5.7	5.5
May	30.027	30.518	29.030	57.5	60.2	57.8	63.5	52.5	58.0	85	43	50	50	50	76	71	79	.370	.374	.380	1.90	.73	5.5	5.4	5.1	5.0
June	29.895	30.086	29.603	67.6	71.1	67.0	75.1	61.5	68.3	92	47	59	60	61	75	71	82	.520	.546	.551	2.02	.99	5.3	5.1	5.3	4.5
July	29.984	30.272	29.580	71.6	75.3	71.3	78.1	66.3	72.2	90	57	63	63	64	75	67	80	.585	.590	.618	1.20	.65	4.7	4.6	3.8	4.6
August	29.936	30.270	29.500	69.7	74.6	71.8	77.5	64.9	71.2	87	56	61	61	63	76	64	75	.556	.546	.588	2.42	1.18	4.2	4.4	4.5	4.4
September	30.040	30.344	29.730	66.1	70.6	68.0	72.9	62.2	67.6	86	44	60	61	62	83	75	82	.547	.567	.580	2.12	.98	5.8	5.0	4.6	5.2
October	30.001	30.630	29.380	53.5	59.5	56.9	62.4	49.0	55.7	78	35	44	45	46	73	61	68	.311	.324	.328	4.30	2.00	4.3	4.6	3.4	4.3
November	30.019	30.460	29.210	46.7	51.0	48.1	53.0	41.7	47.4	69	14	41	41	40	80	72	74	.282	.291	.270	3.19	1.24	6.2	6.4	4.3	6.3
December	30.019	30.550	29.490	36.3	41.9	39.6	46.0	32.4	39.2	66	16	31	34	33	81	73	77	.186	.207	.200	2.67	1.18	5.5	3.4	3.2	5.7
Year	29.979	30.630	28.873	52.1	57.1	54.0	60.5	47.4	54.0	92	8	45	46	46	77	67	76	.347	.356	.362	36.05	2.31	5.2	5.1	4.4	5.0

AUGUSTA, GA.

[ϕ=33° 28′ N.; λ=81° 54′ W.]

January	29.922	30.340	29.540	43.4	54.4	52.4	60.4	40.4	50.4	79	29	38	38	40	82	58	63	0.254	0.262	0.269	3.98	0.95	4.9	4.4	4.4	4.8
February	29.881	30.260	29.420	42.6	52.0	51.3	57.6	40.3	49.0	74	30	37	38	39	82	62	66	.247	.257	.263	8.91	2.57	7.6	6.9	4.5	6.6
March	29.839	30.330	29.192	54.6	65.9	63.4	71.1	50.8	61.0	93	34	47	46	47	77	51	57	.363	.350	.350	6.72	3.37	6.6	4.9	2.9	5.2
April	29.789	30.310	29.172	61.5	73.8	69.6	78.2	56.4	67.3	90	44	53	52	52	76	56	56	.421	.408	.403	3.19	1.09	5.7	6.6	4.0	5.0
May	29.898	30.270	29.190	67.8	79.0	73.6	82.6	61.9	72.2	91	48	60	58	60	78	49	65	.550	.494	.543	6.85	2.17	6.6	5.3	5.3	5.6
June	29.789	30.010	29.480	73.9	83.4	77.8	87.3	67.2	77.2	96	53	67	64	66	80	54	69	.673	.613	.643	5.89	1.62	4.7	5.9	6.6	5.8
July	29.883	30.100	29.630	75.7	86.2	79.1	89.8	70.1	80.0	98	62	70	67	68	82	54	71	.728	.677	.699	6.22	2.54	5.3	7.0	7.0	6.6
August	29.798	30.070	29.550	75.1	87.1	81.1	91.3	71.3	81.3	98	63	69	67	68	81	52	67	.708	.671	.703	.90	.46	4.7	5.9	5.6	5.5
September	29.839	30.059	29.570	70.2	79.6	75.1	83.3	67.3	75.3	94	51	66	65	66	87	64	75	.656	.646	.655	11.36	8.38	7.7	7.2	6.5	7.1
October	29.851	30.290	29.180	57.8	68.7	64.3	74.5	54.0	64.2	84	39	51	51	54	80	51	70	.394	.389	.423	11.06	9.82	3.8	4.2	3.0	4.0
November	29.915	30.200	29.500	52.5	61.6	56.9	65.4	49.1	57.2	85	21	48	45	47	85	58	71	.372	.351	.363	4.13	1.39	7.2	6.4	5.5	6.5
December	29.969	30.360	29.340	39.7	52.3	49.5	58.4	37.5	48.0	79	22	34	37	39	82	58	68	.220	.253	.268	4.61	1.18	5.0	4.1	4.0	4.8
Year	29.864	30.360	29.172	59.6	70.3	66.2	75.0	55.5	65.3	98	21	53	52	54	81	55	66	.466	.448	.465	73.82	9.82	5.8	5.7	4.9	5.6

AUSTIN, TEX.

[ϕ=30° 17′ N.; λ=97° 44′ W.]

January	29.418	29.870	28.960	45.4	55.8	54.6	62.2	40.3	51.2	81	23	41	41	44	86	60	68	0.291	0.286	0.310	1.85	1.41	6.5	6.2	4.4	6.1
February	29.401	29.966	28.940	39.4	49.5	50.1	56.3	36.0	46.2	76	20	36	39	42	88	69	77	.229	.255	.294	.82	.48	6.2	6.4	5.8	6.1
March	29.279	29.680	28.820	55.6	68.6	69.4	74.4	53.4	63.9	92	36	50	50	52	83	55	56	.387	.385	.407	3.62	1.86	6.2	5.1	3.6	5.3
April	29.262	29.610	28.950	63.9	76.6	76.1	81.3	61.8	71.6	93	52	58	58	59	82	54	59	.511	.498	.527	2.72	1.59	6.6	5.7	5.3	6.0
May	29.312	29.580	28.920	66.7	79.4	77.7	84.0	64.1	74.0	98	45	62	61	62	86	57	62	.581	.567	.586	12.72	6.16	7.5	5.8	5.7	6.2
June	29.276	29.470	29.089	74.2	87.9	87.1	92.0	71.7	81.8	97	67	70	66	67	86	49	53	.728	.647	.669	.97	.70	4.1	3.5	2.2	3.6
July	29.362	29.550	29.160	75.1	87.6	85.2	91.4	72.9	82.2	98	69	72	68	70	89	54	62	.776	.693	.725	2.45	.75	6.0	4.9	4.2	5.0
August	29.332	29.500	29.156	75.3	92.3	91.8	96.4	74.0	85.2	100	68	69	64	64	81	40	40	.712	.597	.598	.01	.01	3.1	2.5	1.4	2.3
September	29.296	29.520	29.050	69.4	85.7	85.2	90.6	68.2	79.4	97	59	64	62	63	84	47	49	.613	.574	.592	2.63	1.96	3.0	4.5	2.0	3.6
October	29.372	29.740	28.878	62.1	78.2	75.5	82.7	60.3	71.5	98	48	56	53	54	81	44	50	.469	.428	.442	1.90	.96	4.7	3.5	3.1	4.0
November	29.478	29.870	29.096	45.8	57.4	55.2	62.2	42.5	52.4	83	28	40	41	42	81	57	63	.267	.274	.283	5.87	2.47	5.7	5.4	5.8	6.0
December	29.520	29.900	29.090	44.9	58.3	56.1	63.6	41.5	52.6	79	16	40	42	44	81	56	64	.301	.316	.330	2.48	1.65	4.4	4.2	3.0	4.3
Year	29.359	29.960	28.820	59.8	73.1	72.0	78.1	57.2	67.7	100	16	55	54	55	84	54	59	.489	.460	.480	38.07	6.16	5.3	4.8	3.9	4.9

BAKER, OREG.

[ϕ=44° 48′ N.; λ=117° 50′ W.]

January	26.449	26.900	25.805	13.1	21.5	20.0	25.2	6.9	16.0	37	−14	10	15	16	88	75	82	0.071	0.088	0.088	1.98	0.41	5.8	6.7	6.9	6.9
February	26.522	26.960	26.189	15.0	25.8	26.6	30.4	9.9	20.2	42	−15	11	17	18	82	66	69	.081	.097	.105	.15	.05	4.0	5.7	6.2	5.4
March	26.408	26.740	25.900	32.3	43.5	43.9	47.3	28.2	37.8	61	20	26	26	27	77	51	52	.140	.143	.149	.47	.18	5.2	6.7	6.5	6.2
April	26.356	26.700	25.920	32.7	48.5	4[illegible]	51.1	29.4	40.2	71	17	26	26	29	74	43	53	.137	.139	.163	1.12	.58	5.8	7.5	6.9	6.9
May	26.452	26.710	26.040	39.7	60.7	62.2	64.8	37.2	51.0	85	30	31	32	32	70	38	35	.171	.187	.185	.59	.26	4.1	6.0	5.6	5.7
June	26.421	26.790	26.060	46.3	65.5	68.2	70.4	44.5	57.4	88	33	39	42	42	76	44	41	.244	.269	.268	1.81	.43	4.3	4.8	5.0	4.8
July	26.472	26.650	26.240	51.8	77.0	81.9	84.1	50.1	67.1	96	43	37	42	44	57	30	2[illegible]	.219	.274	.293	.03	.03	1.5	1.6	1.8	1.7
August	26.475	26.690	26.300	53.5	81.4	84.7	87.5	51.2	69.4	97	43	37	42	42	54	25	24	.222	.269	.277	.25	.25	1.1	2.3	2.7	2.3
September	26.463	26.640	26.193	41.4	64.3	65.6	68.1	38.5	53.3	90	27	28	32	32	60	32	32	.156	.181	.181	.28	.28	2.2	3.5	3.8	3.5
October	26.567	26.860	26.240	37.3	60.0	60.0	64.8	32.9	48.8	78	19	26	30	30	62	34	33	.142	.168	.169	.16	.08	2.5	4.1	4.4	3.8
November	26.693	27.020	26.370	24.4	43.4	41.7	47.5	20.2	33.8	60	0	18	24	23	76	47	48	.102	.133	.128	.10	.06	1.4	4.8	4.0	3.9
December	26.507	26.850	25.950	31.4	40.1	37.3	42.9	26.6	34.8	59	15	25	28	28	78	64	70	.138	.158	.156	1.59	.67	5.1	7.0	7.5	6.9
Year	26.482	27.020	25.805	34.9	52.6	53.3	57.0	31.3	44.2	97	−15	26	30	30	71	46	47	.152	.176	.180	8.53	.67	3.6	5.0	5.1	4.8

Annual meteorological summary for the year ending December 31, 1929—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	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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																										
January	16.5	NW.	66	S.	13	4	1	5	2	4	8	20	18	0	11	8	12	10	8	5	1	0	3	3	0	23	0	0
February	14.7	NW.	45	E.	3	7	6	2	2	7	8	8	16	0	13	6	9	12	9	8	4	0	2	3	0	18	0	0
March	18.4	SW.	52	W.	9	2	1	5	2	7	24	8	13	0	13	7	11	12	11	1	0	1	4	0	0	7	1	0
April	20.0	W.	78	NE.	14	4	10	3	4	7	12	14	6	0	10	7	13	15	13	0	0	0	2	0	0	0	3	0
May	16.3	S.	50	S.	8	5	5	2	3	20	15	6	6	0	8	15	8	12	10	0	0	0	4	0	0	0	8	0
June	13.8	S.	38	NE.	2	5	8	2	5	13	16	5	6	0	12	13	5	10	7	0	0	0	4	0	2	0	6	0
July	14.1	SW.	35	SW.	2	6	11	3	2	13	19	5	3	0	10	16	5	6	5	0	0	0	2	0	2	0	2	0
August	12.1	S.	35	S.	2	10	6	3	9	10	12	5	7	0	12	13	6	7	5	0	0	0	1	0	0	0	5	0
September	14.8	S.	40	NE.	4	2	12	6	2	10	13	6	9	0	9	12	9	5	4	0	0	0	4	0	0	0	1	0
October	16.6	W.	60	E.	6	7	5	5	2	6	10	15	12	0	14	10	7	9	7	0	0	0	0	0	0	0	1	0
November	14.2	W.	37	W.	2	3	6	5	2	5	13	17	9	0	7	10	13	13	9	3	2	0	3	1	0	5	0	0
December	14.8	W.	60	NE.	6	7	9	2	3	4	12	21	4	0	11	5	15	9	5	3	1	0	4	4	0	15	0	0
Year	15.5	SW.	78	NE.	71	62	80	43	38	106	162	130	109	0	130	122	113	120	93	20	8	1	33	11	4	68	27	0

AUGUSTA, GA.

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

January	4.5	NW.	21	W.	0	4	9	4	3	2	6	9	16	9	14	7	10	13	10	0	0	0	4	0	0	6	0	0
February	4.4	NW.	20	NW.	0	5	7	9	8	5	3	2	13	4	6	9	13	13	11	0	0	0	2	0	0	4	1	0
March	6.0	NW.	34	W.	1	3	5	10	12	7	3	5	12	5	10	14	7	14	9	0	0	0	1	0	0	2	0	4
April	4.8	NW.	32	S.	0	4	5	7	11	11	7	4	9	2	8	16	6	9	8	0	0	0	0	0	0	1	0	5
May	4.7	S.	30	SW.	0	4	8	8	16	11	5	2	8	0	7	16	8	13	10	0	0	0	0	0	0	2	0	10
June	3.8	S.	22	W.	0	3	8	4	5	16	9	0	5	10	8	9	13	13	13	0	0	0	0	0	0	14	0	10
July	3.9	S.	27	NE.	0	1	9	3	12	16	6	4	4	7	2	18	11	11	9	0	0	0	0	0	0	17	0	12
August	4.0	NE.	35	W.	1	5	14	3	6	10	8	5	7	4	7	16	8	5	4	0	0	0	0	0	0	19	0	7
September	4.7	NE.	20	NW.	0	6	26	7	11	3	3	1	3	0	3	14	13	12	7	0	0	0	0	0	0	7	0	3
October	5.0	NE.	28	N.	0	5	23	4	3	1	5	3	15	3	16	8	7	4	4	0	0	0	1	0	0	0	0	1
November	4.7	NW.	18	W.	0	8	10	5	8	4	3	4	14	4	7	5	18	10	9	0	0	0	3	0	0	2	0	0
December	4.2	NW.	21	W.	0	3	6	1	3	8	4	9	17	11	15	5	11	7	6	1	0	0	4	0	0	12	2	0
Year	4.6	NW.	35	W.	2	51	130	65	98	94	62	48	123	59	103	137	125	124	100	1	0	1	15	0	62	24	55	0

AUSTIN, TEX.

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

January	7.5	N.	35	NW.	1	12	10	1	12	12	2	3	10	0	8	8	15	9	5	0	0	0	3	0	0	7	1	0
February	8.5	N.	27	N.	0	16	17	0	8	6	0	2	7	0	8	7	13	10	5	0	0	0	1	0	0	7	0	0
March	7.6	SE.	35	NW.	1	7	7	0	23	11	0	3	11	0	9	13	9	13	7	0	0	1	1	0	1	0	4	0
April	8.4	SE.	30	W.	0	7	9	3	21	11	3	2	4	0	5	15	10	8	4	0	0	0	1	0	2	0	6	0
May	8.5	SE.	45	NW.	1	6	7	7	24	12	1	2	3	0	5	12	14	14	13	0	0	0	0	0	0	0	0	0
June	6.7	S.	28	NE.	0	2	4	5	27	15	2	4	1	0	14	14	2	4	3	0	0	0	0	0	23	0	2	0
July	6.0	S.	33	SW.	1	2	3	3	22	23	5	2	2	0	9	15	7	11	7	0	0	0	0	0	22	0	7	0
August	5.5	SE.	19	SE.	0	0	3	8	26	17	3	2	3	0	24	7	0	1	0	0	0	0	0	0	31	0	2	0
September	5.5	SE.	29	N.	0	14	9	7	16	6	2	0	5	1	16	9	5	3	3	0	0	0	0	0	17	0	1	0
October	5.6	SE.	31	NW.	0	12	10	4	13	10	1	1	10	1	14	10	7	6	4	0	0	1	1	0	3	0	2	0
November	7.0	N.	33	N.	1	18	11	2	6	6	0	4	13	0	10	8	12	9	9	0	0	1	0	0	0	3	3	0
December	7.4	S.	39	N.	1	7	5	4	13	19	3	0	10	1	14	7	10	7	6	2	2	0	2	1	0	10	2	0
Year	7.1	SE.	45	NW.	6	103	95	44	211	148	22	25	79	3	136	125	104	95	66	2	2	3	9	1	104	27	41	0

BAKER, OREG.

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

January	4.8	SE.	16	SE.	0	5	3	4	32	6	4	3	4	1	4	13	14	15	12	15	15	0	1	26	0	31	0	0
February	5.6	SE.	19	NW.	0	2	2	1	24	8	2	4	13	0	8	12	8	5	2	12	5	0	0	14	0	28	0	0
March	5.9	SE.	23	SW.	0	6	3	1	28	2	2	6	13	1	7	13	11	10	4	10	5	0	0	0	0	25	0	0
April	6.4	SE.	21	NW.	0	5	2	2	23	5	2	6	15	0	6	6	18	10	8	8	5	0	0	1	0	19	0	0
May	5.7	SE.	22	SW.	0	7	1	2	30	2	1	6	13	0	9	10	12	7	4	1	0	2	0	0	0	0	2	0
June	4.8	SE.	24	W.	0	8	2	0	27	4	2	9	8	0	14	3	13	10	7	0	0	1	0	0	0	8	2	0
July	4.9	SE.	18	SW.	0	6	3	0	24	6	1	7	15	0	25	4	2	1	0	0	0	0	0	0	0	9	0	2
August	5.0	SE.	18	NW.	0	7	1	0	30	1	1	10	11	1	21	6	4	2	1	0	0	0	0	0	0	6	1	0
September	4.6	SE.	18	NW.	0	8	2	0	26	2	1	8	12	1	16	9	5	2	1	0	0	0	0	0	0	0	0	0
October	5.4	SE.	15	NW.	0	4	3	0	32	2	2	10	9	0	16	9	6	4	2	1	0	0	0	0	0	13	0	0
November	5.1	SE.	17	N.	0	4	2	3	35	5	0	5	6	0	13	13	4	3	1	1	1	0	0	0	0	30	0	0
December	5.9	SE.	26	SW.	0	2	2	4	35	9	5	2	1	2	8	3	20	11	8	9	4	0	0	3	0	24	0	0
Year	5.3	SE.	26	SW.	0	64	26	17	346	52	23	76	120	6	147	101	117	80	50	57	35	5	1	44	17	182	9	0

Annual meteorological summary for the year ending December 31, 1929—Continued

BALTIMORE, MD.

[ϕ=39° 17′ N.; λ=76° 37′.]

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: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.965	30.530	29.240	31.7	37.8	35.5	43.4	27.3	35.4	67	9	22	20	23	65	49	59	0.129	0.120	0.135	2.90	0.75	5.4	6.0	5.0	5.5
February	29.977	30.320	29.530	30.3	38.8	37.7	43.0	28.2	35.6	63	19	23	24	24	72	54	58	.130	.132	.139	3.45	1.11	4.8	5.1	4.5	4.7
March	29.846	30.440	28.820	45.8	54.6	50.8	59.9	40.5	50.2	83	16	35	35	36	67	50	60	.233	.236	.242	3.16	1.11	4.6	5.8	3.3	5.3
April	29.779	30.330	28.940	53.7	62.1	58.7	67.0	47.7	57.4	93	36	44	44	44	70	55	62	.303	.301	.311	6.73	3.33	6.4	5.3	5.4	5.8
May	29.942	30.420	28.870	60.7	69.3	66.0	73.9	54.7	64.3	95	43	51	52	53	70	57	64	.394	.419	.424	1.78	.44	5.4	5.9	5.4	5.7
June	29.822	30.009	29.480	70.4	78.9	75.2	82.9	63.7	73.3	95	48	58	57	60	67	49	62	.513	.496	.548	4.82	.99	5.1	4.4	5.1	4.7
July	29.907	30.220	29.540	74.1	82.9	78.8	86.6	68.1	77.4	97	58	62	61	63	68	48	59	.582	.553	.590	1.13	.45	4.9	5.0	4.2	4.6
August	29.866	30.210	29.460	70.1	79.7	76.3	83.4	65.5	74.4	94	57	59	59	60	70	50	57	.522	.519	.522	4.04	2.34	4.4	4.6	4.3	4.5
September	29.973	30.310	29.640	65.9	75.8	71.1	79.1	61.7	70.4	96	44	58	58	60	76	56	68	.501	.504	.536	2.79	1.04	4.9	4.6	5.0	4.8
October	29.932	30.590	29.150	51.1	61.8	57.4	65.2	47.3	56.2	79	38	43	44	45	75	55	64	.291	.306	.308	6.77	4.16	4.8	4.8	2.9	4.8
November	29.952	30.420	29.170	45.6	52.5	48.3	54.8	41.8	48.3	82	12	39	38	38	76	59	67	.267	.268	.256	2.44	1.30	7.3	5.4	5.4	6.3
December	29.950	30.480	29.340	35.3	41.6	39.9	45.8	31.6	38.7	71	16	28	31	31	75	67	71	.170	.191	.185	2.46	.85	6.1	6.1	4.0	6.1
Year	29.909	30.590	28.820	52.9	61.3	58.0	65.4	48.2	56.8	97	9	44	44	45	71	54	63	.336	.337	.350	42.47	4.16	5.3	5.2	4.5	5.2

BELLEFONTE, PA.

[ϕ=40° 54′ N.; λ=77° 43′ W.]

January	28.912	29.430	28.200	22.6	26.7	25.3	33.8	15.8	24.8	59	−2	18	18	17	83	69	69	0.106	0.105	0.101	2.46	0.49	7.8	6.9	7.0	7.0
February	28.959	29.290	28.570	19.1	28.7	25.5	33.5	14.4	24.0	55	−3	15	22	18	83	74	73	.093	.120	.105	2.28	.79	6.9	6.9	6.7	7.0
March	28.829	29.330	27.940	35.8	45.4	42.1	53.1	28.4	40.8	75	7	30	33	32	79	63	66	.184	.210	.198	1.83	.94	6.1	6.2	4.8	6.2
April	28.797	29.290	28.220	46.8	54.6	50.5	60.4	38.4	49.4	84	28	40	42	40	78	66	68	.262	.286	.260	5.34	1.36	6.9	6.8	6.8	6.9
May	28.947	29.416	27.980	54.4	64.3	57.5	68.6	42.9	55.8	94	28	48	50	47	80	62	70	.361	.388	.347	4.41	1.62	6.0	6.9	6.1	6.2
June	28.861	29.044	28.490	63.3	75.0	66.6	79.2	50.6	64.9	92	32	55	56	56	74	53	71	.448	.470	.473	2.68	1.41	4.8	5.5	6.0	5.5
July	28.952	29.270	28.630	67.1	78.2	71.6	83.0	53.7	68.4	94	35	58	59	59	75	54	66	.510	.522	.524	1.51	.52	5.1	5.3	4.4	5.0
August	28.916	29.221	28.537	62.4	76.6	67.6	80.7	49.9	65.3	90	36	54	54	55	74	47	64	.423	.433	.438	1.22	.68	5.0	5.1	4.2	5.1
September	29.005	29.370	28.720	58.7	72.4	63.9	77.5	50.8	64.2	95	29	53	56	54	82	58	71	.433	.466	.439	3.19	.93	5.0	5.1	4.2	5.3
October	28.935	29.575	28.250	43.9	54.8	49.3	58.7	37.4	48.0	79	26	37	41	37	78	61	63	.239	.266	.227	7.44	3.87	6.8	6.7	4.9	6.5
November	28.928	29.350	28.080	34.6	42.8	37.7	46.1	30.0	38.0	70	2	31	34	31	86	73	76	.192	.219	.189	2.66	1.14	5.5	7.2	5.3	7.2
December	28.911	29.380	28.313	29.9	34.0	30.6	37.5	23.0	30.2	57	2	25	26	26	82	73	80	.145	.150	.143	1.96	.54	9.1	8.4	7.5	8.6
Year	28.913	29.575	27.940	44.9	54.5	49.0	59.3	36.3	47.8	95	−3	39	41	39	80	63	70	.282	.303	.287	36.98	3.87	6.2	6.4	5.7	6.4

BINGHAMTON, N. Y.

[ϕ=42° 06′ N.; λ=75° 55′ W.]

January	29.053	29.680	28.304	24.1	27.6	.....	32.8	16.5	24.6	62	1	19	19	...	80	67	...	0.111	0.108	.....	1.87	0.53	8.0	7.9	.....	7.6
February	29.138	29.470	28.760	21.2	28.4	.....	31.8	16.8	24.3	49	−3	17	19	...	85	68	...	.100	.108	.....	2.31	.77	7.9	7.6	.....	7.7
March	29.984	29.442	28.000	36.6	43.8	.....	50.5	31.3	40.9	68	7	30	30	...	76	61	...	.178	.183	.....	2.03	.50	7.1	7.4	.....	7.1
April	29.966	29.490	28.300	44.0	52.0	.....	57.3	39.3	48.2	85	25	39	42	...	81	71	...	.251	.293	.....	7.27	1.95	7.4	7.1	.....	7.2
May	29.108	29.600	27.980	52.7	62.5	.....	68.1	44.2	56.2	97	31	45	46	...	75	57	...	.320	.336	.....	5.55	2.20	5.6	6.9	.....	6.4
June	29.027	29.252	28.590	62.5	73.4	.....	78.4	54.6	66.5	91	36	54	54	...	75	52	...	.443	.442	.....	2.64	.92	4.9	5.3	.....	5.2
July	29.117	29.500	28.760	64.9	77.7	.....	82.7	57.9	70.3	95	44	58	57	...	78	50	...	.491	.474	.....	4.01	1.46	4.9	4.6	.....	4.1
August	29.080	29.437	28.650	59.4	73.7	.....	77.7	54.3	66.0	90	43	54	54	...	82	52	...	.424	.433	.....	1.64	.73	4.7	4.5	.....	4.7
September	29.184	29.624	28.830	57.1	72.8	.....	76.8	52.7	64.8	94	32	53	59	...	87	63	...	.435	.528	.....	2.55	.95	6.1	4.5	.....	4.8
October	29.096	29.782	28.450	43.6	53.2	.....	57.4	39.8	48.6	77	24	37	39	...	78	61	...	.230	.256	.....	4.58	3.19	7.9	7.8	.....	7.2
November	29.075	29.520	28.230	37.6	43.3	.....	47.0	33.7	40.4	68	7	31	31	...	77	62	...	.195	.194	.....	2.73	1.15	7.9	7.2	.....	7.7
December	29.057	29.630	28.510	28.8	32.5	.....	36.7	23.1	29.9	57	0	22	25	...	77	73	...	.128	.138	.....	2.94	.72	8.8	7.9	.....	8.1
Year	29.074	29.782	27.980	44.4	53.4	.....	58.1	38.7	48.4	95	−3	38	40	...	79	61	...	.276	.291	.....	40.12	3.19	6.8	6.6	.....	6.5

BIRMINGHAM, ALA.

[ϕ=33° 32′ N.; λ=86° 50′ W.]

January	29.355	29.730	28.860	42.7	52.4	49.8	57.7	37.9	47.8	76	21	37	38	38	79	61	66	0.251	0.264	0.266	5.69	1.66	5.6	5.0	5.1	5.3
February	29.313	29.730	28.876	38.5	47.8	46.9	52.8	35.5	44.2	74	19	32	35	36	80	64	67	.199	.219	.225	6.33	1.28	6.1	6.2	6.1	6.4
March	29.257	29.670	28.720	52.0	64.5	62.2	69.4	49.5	59.4	89	30	44	45	44	75	53	58	.322	.337	.325	13.14	4.31	5.4	5.6	4.6	5.2
April	29.238	29.710	28.740	60.1	72.0	67.4	75.9	55.8	65.8	85	41	53	53	51	78	54	60	.421	.422	.392	6.85	3.23	6.0	5.6	4.8	5.9
May	29.321	29.630	28.710	65.5	74.4	71.1	79.0	61.0	70.0	92	42	60	61	61	85	66	73	.543	.556	.562	10.20	2.93	5.5	7.1	5.0	6.2
June	29.235	29.450	28.930	71.2	82.2	77.7	86.2	66.8	76.5	95	57	66	66	65	83	60	66	.637	.652	.622	4.88	3.21	4.3	5.6	4.6	5.0
July	29.332	29.525	29.070	73.5	85.5	79.0	88.7	69.8	79.8	95	64	68	69	68	84	59	72	.701	.715	.698	4.34	1.14	4.1	5.7	5.7	5.4
August	29.266	29.475	29.040	72.2	83.2	82.0	92.5	68.6	80.6	98	57	66	65	64	82	47	56	.654	.625	.600	2.01	.87	2.4	3.8	4.1	3.2
September	29.270	29.480	29.010	67.8	80.3	73.9	83.7	65.3	74.5	92	50	63	64	65	86	60	75	.594	.619	.624	5.98	1.80	5.3	6.2	5.5	5.8
October	29.305	29.650	28.930	54.9	66.4	62.9	72.4	52.5	62.4	84	38	49	50	52	82	54	68	.365	.380	.398	4.74	2.47	4.0	4.1	3.8	4.1
November	29.356	29.700	28.950	48.7	56.1	52.0	59.6	45.6	52.6	81	18	45	44	44	88	68	77	.345	.343	.335	14.69	5.02	7.3	6.5	6.4	6.7
December	29.418	29.800	28.860	39.5	50.6	47.5	55.4	36.2	45.8	74	13	35	37	36	83	61	66	.232	.256	.245	2.97	.70	4.5	4.7	3.8	4.4
Year	29.306	29.800	28.710	57.2	68.6	64.4	72.9	53.7	63.3	98	13	52	52	52	82	59	67	.439	.449	.441	81.82	5.02	5.0	5.5	4.9	5.3

Annual meteorological summary for the year ending December 31, 1929—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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temperature 32°: 32° or below	Maximum temperature 32°: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	10.2	SW.	40	NW.	6	4	6	5	5	6	19	8	9	0	11	6	14	10	8	6	2	0	1	3	0	24	0	0
February	8.8	NW.	33	SE.	1	12	10	3	2	8	7	2	12	0	13	6	9	8	7	4	3	0	4	2	0	18	0	0
March	10.6	SW.	54	SW.	5	2	1	6	6	16	18	5	8	0	14	6	11	11	9	4	1	0	4	0	0	6	2	2
April	11.0	SW.	42	SW.	5	4	8	7	5	10	18	3	5	0	11	8	11	17	12	2	0	2	0	0	0	3	0	0
May	9.4	SW.	42	SW.	4	6	8	3	4	19	12	1	9	0	11	9	11	14	8	0	0	0	1	0	1	0	7	0
June	8.6	SW.	42	SW.	2	13	3	4	3	19	11	1	6	0	13	11	6	11	10	0	0	0	0	0	6	0	12	0
July	8.4	SW.	31	SW.	0	8	7	5	0	17	18	2	5	0	15	9	7	9	6	0	0	0	0	0	11	0	6	0
August	8.0	S.	40	SE.	2	13	7	5	5	12	9	5	6	0	16	8	7	9	8	0	0	0	1	0	5	0	5	0
September	7.7	NE.	30	NW.	0	13	12	4	4	9	11	2	4	1	12	12	6	9	8	0	0	0	1	0	6	0	5	0
October	9.9	SW.	48	SE.	3	7	12	3	2	8	21	1	8	0	13	9	9	9	8	1	0	0	0	0	0	0	1	0
November	8.8	SW.	36	SW.	1	5	10	2	1	9	17	5	11	0	8	9	13	13	8	3	1	0	1	1	0	5	0	0
December	7.7	SW.	29	W.	0	9	9	2	6	11	21	1	3	0	10	6	15	9	6	6	1	0	6	2	0	16	0	0
Year	9.1	SW.	54	SW.	29	96	93	49	43	144	182	36	86	1	147	99	119	129	98	26	8	3	18	8	32	69	43	2

BELLEFONTE, PA.

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

January	------	W.	52	SE.	2	1	1	6	2	4	10	30	4	4	5	9	17	17	9	25	10	0	0	15	0	30	0	0
February	------	W.	----	------	0	2	4	5	4	1	4	24	7	5	5	10	13	8	7	18	6	0	2	11	0	27	0	0
March	------	W.	35	W.	1	1	1	0	3	7	14	19	6	11	8	9	14	9	6	9	3	0	3	1	0	20	1	2
April	------	W.	44	W.	1	2	6	2	4	5	10	19	5	7	7	7	16	16	13	5	1	1	2	0	0	8	5	0
May	------	W.	42	SE.	1	4	3	5	3	5	9	13	7	13	7	11	13	16	12	0	0	0	4	0	1	5	5	0
June	------	W.	----	------	0	4	4	3	2	5	9	14	7	12	8	13	9	6	5	0	0	0	3	0	2	1	8	0
July	------	W.	----	------	0	4	5	5	6	3	12	17	1	9	8	17	6	8	6	0	0	0	2	0	2	0	7	0
August	------	W.	----	------	0	8	3	2	2	4	9	14	4	19	10	14	7	7	4	0	0	0	5	0	1	0	5	0
September	------	S.	----	------	0	6	8	2	4	10	6	7	4	13	9	11	10	12	10	0	0	0	5	0	4	3	6	0
October	------	SW.	36	SW.	1	3	5	6	3	3	17	11	7	7	6	10	15	10	8	1	0	0	1	0	0	11	1	0
November	------	W.	----	------	0	2	4	3	0	5	8	25	2	11	4	9	17	10	7	8	3	0	3	4	0	17	0	0
December	------	W.	----	------	0	5	5	1	5	2	10	24	1	9	1	6	24	12	7	14	5	0	1	11	0	26	0	0
Year	------	W.	52	SE.	6	42	49	40	38	54	118	214	55	120	78	126	161	131	94	80	28	1	31	42	10	148	38	2

BINGHAMTON, N. Y.

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

January	7.7	NW.	33	SW.	1	0	1	3	2	0	5	9	11	0	3	8	20	18	12	21	13	0	0	17	0	30	0	0
February	4.8	NW.	15	W.	0	2	5	5	1	1	3	4	7	0	3	6	19	9	6	16	6	0	0	14	0	25	0	0
March	6.1	NW.	34	SW.	1	0	4	3	0	3	7	3	10	1	3	12	16	14	11	6	4	0	1	2	0	16	1	1
April	6.6	NW.	34	W.	1	1	4	10	3	1	0	4	7	0	4	8	18	20	16	8	4	0	2	0	0	2	2	0
May	5.7	NW.	31	SW.	0	1	6	4	2	1	3	7	6	1	4	15	12	15	12	0	0	1	2	0	1	1	5	0
June	4.3	NW.	19	SW.	0	1	8	4	0	1	6	3	7	0	9	12	9	8	8	0	0	0	0	0	2	0	8	0
July	4.3	W.	19	SW.	0	2	6	8	0	0	3	5	7	0	13	12	6	11	10	0	0	0	2	0	3	0	7	0
August	4.0	NW.	17	NW.	0	3	7	7	0	2	2	5	5	0	13	11	7	7	5	0	0	0	6	0	0	0	5	0
September	4.1	NE.	19	SW.	0	1	10	7	3	1	4	2	2	0	12	10	8	10	9	0	0	0	6	0	3	1	5	0
October	5.5	NW.	23	SW.	0	0	8	6	0	2	4	6	5	0	4	9	18	10	9	3	1	0	1	0	0	7	0	0
November	5.4	W.	21	SW.	0	1	4	4	2	1	6	5	7	0	2	12	16	14	9	5	2	0	0	3	0	13	0	0
December	5.2	W.	19	SW.	0	1	5	3	3	2	8	6	3	0	1	11	19	17	12	15	10	0	1	11	0	27	0	0
Year	5.3	NW.	34	W.	3	13	68	64	16	15	51	59	77	2	71	126	168	153	119	74	40	1	21	47	9	122	33	1

BIRMINGHAM, ALA.

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

January	7.5	S.	32	SE.	0	13	1	11	9	11	5	8	4	0	12	5	14	11	11	0	0	0	0	0	0	14	1	0
February	5.9	N.	27	SE.	0	14	6	9	9	6	0	0	12	0	9	3	16	12	10	0	0	0	0	0	0	9	3	0
March	8.5	SE.	31	SE.	0	10	3	4	15	10	8	7	5	0	9	12	10	14	12	0	0	0	0	0	0	1	6	0
April	7.0	S.	27	SE.	0	3	4	7	8	17	5	5	11	0	8	12	10	12	10	0	0	1	1	0	0	0	10	0
May	6.3	SE.	24	W.	0	9	6	3	19	15	5	2	13	0	9	6	16	15	12	0	0	1	1	0	2	0	12	0
June	4.6	S.	20	NW.	0	8	10	4	13	11	4	3	16	1	11	11	8	10	9	0	0	0	0	0	10	0	10	0
July	4.1	S.	22	S.	0	3	5	13	10	10	11	3	14	3	6	19	6	12	11	0	0	0	1	0	17	0	14	0
August	4.0	N.	19	SE.	0	16	5	6	9	7	7	4	17	1	18	11	2	8	7	0	0	0	0	0	27	0	11	0
September	5.4	NE.	28	S.	0	8	14	11	9	7	5	1	15	0	8	11	11	12	10	0	0	0	0	0	6	0	6	0
October	6.0	E.	27	SE.	0	11	4	20	0	1	4	8	16	0	19	2	10	8	7	0	0	0	0	0	0	0	2	0
November	6.1	N.	25	SE.	0	13	9	4	9	7	2	5	11	0	9	2	19	14	14	1	0	0	0	0	0	3	5	0
December	6.0	S.	23	SW.	0	8	1	2	6	15	10	6	12	2	14	9	8	10	8	5	3	0	5	3	0	13	1	0
Year	6.0	S.	32	SE.	0	116	68	94	122	117	66	52	88	7	132	103	130	138	121	6	3	2	8	3	62	40	81	0

Annual meteorological summary for the year ending December 31, 1929—Continued

BISMARCK, N. DAK.

[ϕ=46° 47′ N.; λ=100° 38′ 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: Dew point: Maximum	Temperature: Dew point: Minimum	Temperature: Dew point: Mean: 8 a. m.	Temperature: Dew point: Mean: Noon, local time	Temperature: Dew point: Mean: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.278	28.670	27.592	−5.9	1.2	−0.9	7.7	−13.5	−2.9	38	−33	−8	−8	−4	89	64	84	0.032	0.033	0.036	0.69	0.15	4.6	6.2	4.5	5.6
February	28.246	28.610	27.640	−0.9	9.4	9.2	15.5	−6.4	4.6	33	−43	−3	2	4	89	67	79	.043	.053	.057	.32	.18	5.3	4.9	6.1	5.2
March	28.037	28.390	27.340	26.4	36.4	34.8	41.0	23.4	32.2	67	5	22	26	26	82	68	71	.120	.147	.143	1.61	.94	5.8	5.6	5.8	5.8
April	28.091	28.390	27.410	33.5	49.5	50.6	54.5	31.8	43.2	74	20	28	28	31	80	45	50	.155	.153	.176	1.87	.68	5.3	5.2	6.0	5.5
May	28.205	28.630	27.641	41.3	58.7	60.1	64.0	38.5	51.2	81	23	35	25	34	78	44	41	.211	.231	.218	2.37	.78	3.5	4.0	4.8	4.1
June	28.120	28.470	27.570	54.7	70.8	71.1	75.6	50.2	62.9	90	36	47	46	46	76	44	42	.334	.318	.319	1.09	.73	3.7	3.9	5.4	4.1
July	28.166	28.495	27.730	62.6	82.5	84.7	88.3	58.9	73.6	106	47	52	52	51	72	38	32	.406	.405	.383	1.06	.36	3.5	2.4	2.8	2.9
August	28.210	28.470	27.860	57.8	81.0	80.2	85.9	55.3	70.6	99	38	48	48	50	70	34	37	.341	.346	.370	.75	.22	2.7	3.5	3.6	3.8
September	28.222	28.620	27.671	45.4	58.6	58.2	63.6	42.6	53.1	102	30	40	41	40	83	56	55	.264	.274	.260	1.69	.96	6.2	5.9	6.1	6.0
October	28.256	28.750	27.821	39.1	56.0	52.3	60.2	36.9	48.6	83	26	35	40	39	84	58	63	.205	.252	.243	1.82	.90	3.6	4.6	4.1	4.5
November	28.259	28.898	27.650	23.9	33.3	29.1	36.8	19.0	27.9	56	−6	20	23	22	83	66	76	.111	.130	.122	.25	.06	6.1	5.7	6.3	6.0
December	28.258	28.990	27.740	19.6	17.1	14.9	22.4	4.9	13.6	47	−27	6	10	11	84	71	82	.066	.075	.080	.81	.49	4.0	4.8	4.4	5.4
Year	28.196	28.990	27.340	32.4	46.2	45.4	51.3	28.5	39.9	106	−43	27	29	29	81	55	59	.191	.201	.201	14.33	.96	4.5	4.7	5.0	4.9

BLOCK ISLAND, R. I.

[ϕ=40° 10′ N.; λ=71° 36′ W.]

January	29.956	30.680	29.160	30.5	33.1	31.7	38.5	24.6	31.6	57	10	23	24	22	74	68	66	0.137	0.141	0.128	3.21	0.75	5.8	5.4	3.8	4.9
February	30.025	30.437	29.430	30.1	34.0	32.9	37.4	27.5	32.4	48	18	25	26	26	80	73	75	.141	.152	.148	3.28	1.17	5.6	6.0	3.2	4.8
March	29.864	30.390	28.800	38.1	42.0	39.3	46.2	33.6	39.9	64	12	34	34	34	83	76	81	.201	.209	.203	4.59	1.37	4.7	5.4	4.3	5.1
April	29.845	30.400	28.840	43.7	47.1	44.6	50.9	39.8	45.4	69	34	38	40	40	83	77	84	.238	.251	.251	5.66	1.96	6.6	6.7	6.2	6.2
May	30.016	30.500	29.090	53.8	57.5	52.6	60.5	48.1	54.3	81	42	48	49	48	80	75	84	.342	.365	.337	4.81	1.85	5.8	6.1	6.2	5.3
June	29.892	30.140	29.480	62.7	66.9	62.4	70.3	57.3	63.8	85	46	58	59	58	84	78	88	.486	.522	.504	1.09	.49	4.9	5.0	5.0	5.0
July	29.984	30.360	29.530	68.4	72.7	66.6	75.4	62.0	68.7	85	54	62	62	62	80	70	86	.563	.589	.562	.90	.43	4.2	4.8	4.7	4.5
August	29.937	30.280	29.420	66.9	71.1	66.7	73.8	62.0	67.9	80	56	60	60	61	81	70	83	.538	.539	.551	1.28	.64	4.3	4.2	3.8	4.2
September	30.064	30.480	29.760	63.5	63.7	64.0	69.9	59.4	64.6	87	46	58	59	59	83	77	85	.498	.516	.522	3.57	1.28	5.4	6.1	5.3	5.8
October	29.989	30.680	29.250	52.0	55.7	54.0	58.9	48.2	53.6	70	36	44	44	44	74	65	71	.304	.304	.312	1.96	1.20	4.6	5.1	4.0	4.3
November	29.993	30.480	29.140	44.8	47.2	46.2	50.4	41.1	45.8	64	20	38	39	39	79	74	75	.248	.258	.251	3.48	1.70	5.6	6.8	5.5	6.5
December	29.999	30.650	29.260	35.2	37.1	36.6	41.8	31.2	36.5	56	16	30	32	31	81	83	80	.172	.185	.183	4.47	1.17	6.4	6.0	4.8	6.5
Year	29.964	30.680	28.800	49.1	52.3	49.8	56.2	44.6	50.4	87	10	43	44	44	80	74	80	.322	.334	.329	38.30	1.96	5.3	5.6	4.7	5.3

BOISE, IDAHO

[ϕ=43° 37′ N.; λ=116° 13′ W.]

January	27.225	27.730	26.610	19.7	26.6	26.7	30.5	15.7	23.1	42	−7	17	19	20	88	72	73	0.095	0.104	0.107	2.49	0.63	6.3	6.7	6.8	6.9
February	27.281	27.800	26.950	20.0	29.6	30.8	33.6	17.1	25.4	47	−1	18	20	20	89	64	63	.103	.111	.113	.63	.28	5.0	6.0	5.8	6.2
March	27.139	27.500	26.590	36.3	47.3	49.8	52.1	33.5	42.8	66	25	30	30	29	78	52	47	.166	.166	.164	1.41	.78	5.7	6.4	6.8	6.5
April	27.078	27.420	26.630	39.0	52.1	54.1	56.8	36.9	46.8	73	24	34	33	33	82	50	47	.198	.193	.192	1.28	.32	6.5	7.7	7.2	7.2
May	27.134	27.470	26.690	46.0	66.1	66.2	71.1	44.6	57.3	89	32	38	40	40	73	41	36	.229	.261	.255	.14	.13	4.9	4.9	4.8	4.7
June	27.104	27.510	26.760	52.9	71.0	74.7	77.0	51.1	64.0	95	39	41	44	42	68	42	37	.265	.294	.272	1.08	.42	4.3	4.3	5.0	4.5
July	27.122	27.360	26.920	61.0	83.5	88.9	90.7	59.0	74.8	98	51	42	42	40	51	23	18	.268	.255	.249	T.	T.	2.7	1.5	2.2	2.0
August	27.136	27.370	26.940	63.8	86.3	91.1	93.2	61.3	77.2	103	52	42	43	42	47	23	20	.280	.283	.280	.11	.08	2.1	2.8	2.8	2.5
September	27.139	27.350	26.840	47.7	67.5	70.1	72.2	45.5	58.8	94	34	35	34	35	63	30	30	.207	.195	.208	.26	.19	2.8	1.9	3.2	2.5
October	27.264	27.570	26.941	43.2	63.2	63.8	67.7	40.0	53.8	80	26	30	29	32	60	28	32	.171	.163	.187	.13	.11	2.5	3.3	3.2	3.1
November	27.423	27.758	27.081	29.2	45.1	45.0	49.6	25.7	37.6	59	15	19	21	22	64	39	39	.104	.119	.120	.13	.12	1.6	4.4	4.4	4.1
December	27.282	27.628	26.794	34.0	41.5	40.8	45.2	30.1	37.6	65	14	27	28	29	76	62	64	.148	.156	.158	1.17	.54	4.4	6.7	6.7	6.6
Year	27.194	27.800	26.590	41.1	56.6	58.8	61.6	38.4	50.0	103	−7	31	32	32	70	44	42	.186	.192	.192	8.83	0.78	4.1	4.7	4.9	4.7

BOSTON, MASS.

[ϕ=42° 21′ N.; λ=71° 04′ W.]

January	29.826	30.600	29.020	26.8	32.3	29.1	36.9	21.2	29.0	60	6	20	22	20	72	65	67	0.120	0.129	0.113	3.82	1.31	4.9	5.2	3.7	5.0
February	29.935	30.350	29.390	27.3	34.1	32.9	38.3	25.1	31.7	56	14	21	24	25	76	66	71	.120	.134	.137	3.78	1.11	5.5	5.6	3.6	5.3
March	29.753	30.300	28.650	38.0	45.2	41.0	49.8	33.0	41.4	69	9	30	31	30	73	61	66	.176	.182	.174	2.80	1.11	5.4	6.5	5.2	5.8
April	29.759	30.255	28.810	44.5	49.3	48.2	54.5	39.7	47.1	84	29	36	39	39	74	70	72	.223	.243	.249	7.52	2.67	5.9	6.4	6.7	7.0
May	29.897	30.400	28.980	58.9	66.8	60.6	71.9	50.0	61.0	96	42	47	47	47	66	52	63	.345	.345	.341	2.82	.86	4.5	5.3	5.4	5.2
June	29.787	30.043	29.360	65.9	73.7	68.6	77.7	59.2	68.4	94	45	53	54	55	65	52	65	.426	.432	.467	2.30	.68	4.6	4.2	4.7	5.1
July	29.865	30.280	29.420	70.6	77.4	72.7	82.2	62.9	72.6	94	54	58	57	58	65	51	62	.494	.484	.500	1.35	.64	4.4	4.5	3.9	4.6
August	29.829	30.160	29.280	65.5	74.9	69.7	78.5	60.1	69.3	90	54	56	55	58	72	52	67	.453	.446	.494	2.22	1.16	4.1	4.8	4.4	5.2
September	29.971	30.480	29.622	61.6	69.9	65.4	73.8	56.7	65.2	97	40	54	55	56	76	62	74	.433	.461	.472	.76	.30	5.6	5.1	5.6	6.2
October	29.885	30.530	29.110	48.9	58.2	53.5	61.9	44.5	53.2	78	34	39	39	41	70	52	65	.261	.260	.278	2.38	1.95	4.7	5.2	4.0	5.6
November	29.907	30.390	29.010	41.6	47.8	45.0	51.2	38.2	44.7	77	12	34	34	33	74	62	63	.216	.224	.209	3.01	1.54	5.7	6.7	5.2	6.4
December	29.900	30.580	29.182	30.3	35.3	33.9	39.1	26.1	32.6	52	7	23	25	26	73	67	70	.131	.142	.142	4.43	.90	6.0	6.9	5.8	6.8
Year	29.860	30.600	28.650	48.3	55.4	51.7	59.6	43.1	51.4	97	6	39	40	41	71	59	67	.283	.290	.298	37.19	2.67	5.1	5.5	4.8	5.7

Annual meteorological summary for the year ending December 31, 1929—Continued

BISMARCK, N. DAK.

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

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	6.6	NW.	40	NW.	1	9	3	6	8	3	3	5	21	4	9	12	10	11	7	20	11	0	0	29	0	31	0	0
February	6.3	NW.	24	NW.	0	8	1	3	9	4	1	3	21	6	9	12	7	7	2	14	7	0	2	25	0	28	0	0
March	9.0	NW.	34	W.	2	8	9	6	6	5	6	3	19	0	7	14	10	10	8	13	8	0	0	5	0	28	0	2
April	8.3	N.	26	NE.	0	13	7	8	6	5	3	4	13	1	10	10	10	11	10	2	2	0	0	0	0	16	2	0
May	9.3	N.	32	N.	0	15	5	10	8	7	3	3	10	1	12	14	5	9	7	1	1	0	0	0	0	10	2	0
June	8.6	NW.	33	NW.	1	8	2	11	6	8	3	5	16	1	15	10	5	8	5	0	0	1	0	0	2	0	3	0
July	7.3	SE.	26	S.	0	10	4	7	12	10	3	6	8	2	21	7	3	8	7	0	0	1	0	0	13	0	9	0
August	6.7	E.	31	NW.	0	14	4	18	9	6	2	0	4	5	15	15	1	4	4	0	0	1	0	0	9	0	6	0
September	6.7	NW.	25	SW.	0	11	6	9	9	3	1	2	14	5	7	12	11	6	4	0	0	0	0	0	1	2	1	0
October	6.9	NW.	26	SE.	0	11	3	13	10	2	2	2	14	5	16	5	10	7	6	4	4	0	2	1	0	8	0	0
November	9.2	NW.	32	NW.	0	10	0	4	4	9	5	2	25	1	8	9	13	10	2	14	9	0	0	9	0	30	0	0
December	8.5	NW.	36	NW.	1	5	4	7	8	10	2	1	25	0	11	7	13	6	4	11	6	0	0	22	0	31	0	0
Year	7.8	NW.	40	NW.	5	122	48	102	95	72	34	36	190	31	140	127	98	97	66	79	48	3	4	91	25	184	23	2

BLOCK ISLAND, R. I.

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

January	21.4	W.	56	SW.	20	2	0	8	0	4	7	22	19	0	15	9	7	14	10	10	5	0	3	9	0	27	0	1
February	16.0	NW.	48	E.	6	6	6	6	0	1	8	10	19	0	12	8	8	10	10	7	4	0	6	7	0	19	0	0
March	16.9	SW.	54	W.	11	0	3	5	4	9	16	9	16	0	12	7	12	15	14	3	2	0	10	1	0	9	4	0
April	18.4	W.	54	NE.	13	6	10	5	4	6	9	18	2	0	7	9	14	17	12	1	1	0	5	0	0	0	4	0
May	15.9	SW.	48	W.	8	3	4	2	2	18	18	13	2	0	7	16	8	13	12	0	0	0	5	0	0	0	11	0
June	11.6	SW.	32	W.	0	1	5	6	7	13	13	8	7	0	10	14	6	7	6	0	0	0	8	0	0	0	2	0
July	12.0	SW.	29	NW.	0	3	5	2	8	11	21	10	2	0	14	12	5	6	5	0	0	0	7	0	0	0	4	0
August	11.5	S.	35	SE.	1	8	9	1	1	19	14	5	5	0	16	9	6	8	4	0	0	0	7	0	0	0	4	0
September	13.6	NE.	31	N.	0	9	11	9	2	9	13	5	2	0	8	12	10	10	8	0	0	0	11	0	0	0	1	0
October	17.7	SW.	42	W.	12	9	5	4	3	9	12	9	10	1	14	10	7	8	4	0	0	1	2	0	0	0	1	0
November	16.0	W.	56	NW.	9	3	9	4	0	9	12	13	10	0	8	9	13	14	9	4	0	0	4	1	0	5	0	0
December	16.9	W.	51	E.	7	6	9	6	3	0	13	16	9	0	10	4	17	10	9	8	3	0	7	2	0	15	0	0
Year	15.7	SW.	56	SW.	87	56	76	58	34	108	156	138	103	1	133	119	113	132	103	33	15	1	75	20	0	75	31	1

BOISE, IDAHO

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

January	3.5	SE.	20	SE.	0	11	3	9	10	8	1	1	18	1	4	13	14	13	10	19	12	0	1	17	0	31	0	0
February	3.7	NW.	19	N.	0	11	5	3	9	3	1	7	17	0	7	9	12	8	4	11	5	0	3	9	0	27	0	0
March	5.4	SE.	28	NW.	0	5	1	7	17	7	1	7	17	0	9	6	16	8	7	8	5	0	0	0	0	16	0	0
April	5.4	SE.	25	NW.	0	9	2	9	11	2	1	9	17	0	4	8	18	12	8	7	3	0	0	0	0	8	0	0
May	5.7	NW.	29	E.	0	8	3	3	9	4	2	12	21	0	9	17	5	2	1	0	0	0	0	0	0	0	1	0
June	4.7	W.	17	SW.	0	8	2	7	9	8	0	11	15	0	14	7	9	9	7	0	0	1	1	0	0	6	0	0
July	4.5	W.	21	W.	0	3	1	6	17	2	1	13	18	1	26	3	2	0	0	0	0	0	0	0	0	4	0	0
August	3.9	SE.	20	NE.	0	7	2	3	14	4	1	10	21	0	19	11	1	2	1	0	0	0	0	0	0	28	0	0
September	3.8	W.	18	W.	0	3	3	3	12	7	0	15	16	1	19	9	2	4	2	0	0	0	0	0	0	1	0	0
October	3.4	SE.	25	NE.	0	10	2	6	6	4	0	12	16	6	20	6	5	2	1	1	0	0	0	0	0	3	0	0
November	2.8	SE.	21	NW.	0	8	5	4	7	0	0	4	17	15	14	12	4	2	1	3	0	0	0	0	0	27	0	0
December	4.4	SE.	20	SE.	0	8	2	8	18	7	1	7	10	1	6	9	16	8	4	6	3	2	4	0	0	22	0	0
Year	4.3	SE.	29	E.	0	91	31	68	139	56	9	108	203	25	151	110	104	70	46	55	28	4	9	26	54	134	8	0

BOSTON, MASS.

[H_b=118 ft.; h_t=106 ft.; h_r=96 ft.; h_a=165 ft.]

January	11.2	W.	32	S.	0	1	0	1	4	4	15	27	10	0	13	8	10	11	10	13	9	0	1	8	0	29	0	0
February	8.3	NW.	27	SE.	0	5	5	3	3	6	6	13	15	0	11	7	10	12	11	11	7	0	0	7	0	22	0	1
March	9.6	SW.	34	SW.	1	3	5	5	5	7	15	11	11	0	12	6	13	11	9	5	3	0	1	0	0	9	2	0
April	10.0	W.	33	W.	1	4	11	7	5	4	9	13	6	1	6	7	17	16	15	5	3	0	1	0	0	4	1	0
May	9.3	SW.	34	SE.	2	4	2	2	4	11	17	15	7	0	8	17	6	10	10	0	0	0	0	0	0	3	0	0
June	6.7	NW.	23	NW.	0	1	3	8	5	12	8	10	13	0	12	12	6	6	6	0	0	0	0	0	0	2	0	0
July	6.3	SW.	20	NW.	0	5	1	6	2	7	21	13	7	0	12	14	5	7	5	0	0	0	0	0	0	6	0	0
August	7.0	SW.	29	W.	0	8	2	2	5	4	15	10	16	0	12	10	9	6	5	0	0	0	1	0	0	1	0	0
September	6.3	SW.	28	NW.	0	9	7	9	2	4	15	8	6	0	7	12	11	11	5	0	0	0	0	8	0	2	0	0
October	7.8	NW.	30	NW.	0	3	4	4	3	3	14	12	19	0	10	10	11	5	2	0	0	0	1	0	0	0	0	1
November	7.1	W.	27	NW.	0	3	3	4	2	6	16	11	15	0	9	8	13	12	10	3	2	1	2	2	0	9	0	0
December	7.1	W.	22	NW.	0	3	6	3	5	2	11	14	18	0	7	11	13	13	12	12	6	0	2	5	0	22	0	0
Year	8.1	W.	34	SE.	4	49	49	54	45	70	162	157	143	1	119	122	124	120	100	49	30	1	16	23	13	95	22	2

Annual meteorological summary for the year ending December 31, 1929—Continued

BROKEN ARROW, OKLA.

[ϕ=36° 02′ N.; λ=95° 49′ W.]

Month	Pressure			Temperature								Moisture												
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.246	29.680	28.620	28.6	36.5		42.8	23.3	33.0	63	11	25	27		86	68		0.147	0.155		2.55	1.47	6.1	6.0		6.1
February	29.288	29.710	28.720	23.6	32.0		37.2	21.3	29.2	60	−3	21	25		90	75		.121	.141		1.13	.41	6.8	6.9		6.4
March	29.096	29.600	28.530	44.4	57.3		62.5	42.2	52.4	89	28	39	41		83	57		.256	.269		4.13	2.38	5.9	7.5		6.6
April	29.059	29.470	28.590	55.1	66.1		71.2	51.7	61.4	83	35	51	53		86	65		.388	.420		6.79	2.98	7.0	6.6		6.2
May	29.173	29.470	28.660	59.4	68.0		71.9	56.0	64.0	83	41	56	58		89	72		.469	.506		7.02	2.70	8.3	7.5		7.7
June	29.115	29.320	28.830	69.2	78.9		82.4	65.9	74.2	92	59	66	66		88	67		.637	.654		5.95	2.41	6.0	5.5		5.5
July	29.198	29.370	28.990	73.2	86.2		89.1	70.5	79.8	99	64	69	70		87	59		.710	.724		3.07	2.00	4.3	4.3		4.0
August	29.183	29.340	28.930	71.3	89.6		93.6	68.7	81.2	102	56	64	64		77	43		.598	.597		.43	.36	3.2	3.2		3.1
September	29.181	29.460	28.900	62.3	78.2		81.6	60.7	71.2	95	52	58	60		88	56		.496	.535		3.07	1.31	3.8	4.7		4.2
October	29.211	29.450	28.640	54.1	67.4		71.3	52.2	61.8	83	35	50	51		88	59		.384	.406		4.82	1.80	5.9	5.9		5.2
November	29.322	29.714	28.900	36.0	47.2		50.4	34.4	42.4	71	16	33	35		89	64		.195	.210		1.39	.44	6.5	7.1		6.7
December	29.289	29.760	28.780	35.0	46.7		52.6	31.4	42.0	74	5	31	34		86	64		.214	.235		1.23	.87	4.4	5.4		5.4
Year	29.197	29.760	28.530	51.0	62.8		67.2	48.2	57.7	102	−3	47	49		86	62		.385	.404		41.58	2.98	5.7	5.9		5.6

BROWNSVILLE, TEX.

[ϕ=26° 00′ N.; λ=97° 26′ W.]

January	29.959	30.460	29.580	57.6	68.0	63.7	71.1	55.1	63.1	82	37	54	55	56	89	64	79	0.449	0.454	0.483	0.46	0.17	5.0	5.7	5.2	5.4
February	29.926	30.540	29.520	54.2	62.8	60.1	68.0	50.4	59.2	81	33	51	51	52	90	68	76	.411	.407	.423	.27	.21	7.1	6.9	6.7	6.8
March	29.828	30.210	29.490	64.3	76.3	71.4	79.2	62.9	71.0	90	43	60	58	61	88	55	72	.549	.505	.561	.26	.15	5.2	4.2	4.0	3.9
April	29.801	30.170	29.590	73.2	83.1	78.1	85.1	72.3	78.7	96	62	70	67	69	89	60	75	.734	.676	.719	.88	.86	5.7	5.9	6.0	5.1
May	29.862	30.190	29.540	73.4	83.3	78.8	85.4	72.0	78.7	90	60	68	67	70	85	59	74	.719	.681	.740	8.60	7.38	4.4	5.6	6.1	4.9
June	29.834	30.030	29.640	76.5	83.6	83.0	89.2	74.5	81.8	93	71	73	70	72	88	58	69	.802	.731	.779	1.54	1.13	2.0	4.4	2.8	3.0
July	29.915	30.070	29.770	77.3	86.0	83.2	89.7	75.1	82.4	94	69	74	71	72	88	62	70	.823	.754	.797	4.69	2.01	3.6	7.0	3.9	4.9
August	29.892	30.010	29.760	76.8	89.4	83.8	91.6	75.5	83.6	95	73	74	70	72	90	53	68	.835	.728	.785	3.29	2.35	1.3	4.7	3.3	3.6
September	29.832	29.970	29.660	74.7	86.4	81.7	88.8	73.7	81.2	95	68	72	70	71	91	60	72	.779	.745	.770	5.16	2.36	1.9	5.7	3.2	4.4
October	29.914	30.230	29.520	68.0	81.1	74.7	83.4	66.7	75.0	92	50	64	63	65	88	56	72	.614	.591	.626	1.23	.76	3.0	4.5	3.1	3.9
November	30.019	30.350	29.670	57.4	66.3	62.3	69.0	53.8	61.4	84	40	53	53	55	85	66	78	.437	.441	.466	1.72	.82	7.3	7.1	6.4	6.7
December	30.097	30.540	29.690	53.5	66.4	61.1	69.6	52.3	61.0	83	29	50	52	53	87	62	75	.408	.443	.456	.62	.25	4.4	5.1	5.3	4.8
Year	29.907	30.540	29.490	67.2	78.0	73.5	80.8	65.4	73.1	96	29	64	62	64	88	60	73	.630	.596	.634	28.72	7.38	4.2	5.6	4.6	4.8

BUFFALO, N. Y.

[ϕ=42° 53′ N.; λ=78° 53′ W.]

January	29.138	29.740	28.120	21.4	24.2	23.4	30.9	16.5	23.7	62	−1	17	19	20	82	80	84	0.102	0.111	0.115	3.73	1.09	7.6	7.8	6.6	7.6
February	29.225	29.640	28.769	21.3	25.0	23.3	28.0	16.8	22.4	53	3	19	21	19	89	84	83	.104	.117	.109	1.67	.50	8.8	7.1	7.0	7.7
March	29.062	29.600	28.030	35.6	38.8	37.9	46.7	29.5	38.1	65	7	30	32	31	80	77	77	.177	.190	.182	2.38	.47	7.7	7.1	6.9	7.6
April	29.057	29.545	28.410	42.0	43.7	44.5	51.5	36.1	43.8	70	22	36	36	36	82	77	74	.226	.223	.222	5.02	1.28	7.0	6.5	7.6	7.2
May	29.196	29.720	28.110	49.5	53.5	54.4	60.7	45.0	52.8	86	34	43	43	44	80	71	70	.293	.299	.303	2.79	1.22	6.2	6.3	5.1	5.5
June	29.124	29.380	28.660	61.3	64.5	64.9	70.9	56.2	63.6	88	39	52	53	54	74	67	70	.413	.420	.442	1.66	.70	4.0	4.7	5.7	4.7
July	29.189	29.549	28.880	66.9	71.6	71.7	76.0	61.8	68.9	84	49	59	59	60	76	66	69	.512	.515	.538	1.62	.78	3.7	3.6	3.5	3.8
August	29.178	29.490	28.770	63.4	68.9	67.9	72.9	58.7	65.8	84	51	56	57	58	77	67	73	.451	.473	.497	1.22	.63	3.2	4.1	3.1	4.0
September	29.253	29.680	28.890	60.0	65.7	64.0	70.1	56.1	63.1	86	37	55	58	58	84	78	81	.452	.506	.497	3.25	1.64	5.2	4.5	4.7	4.8
October	29.187	29.860	28.480	47.1	52.5	50.8	55.8	43.2	49.5	72	30	43	47	46	85	82	84	.286	.335	.323	2.25	1.64	7.2	6.8	6.4	6.8
November	29.157	29.650	28.310	36.9	40.8	38.9	43.7	33.3	38.6	66	8	31	32	32	79	71	76	.192	.201	.199	2.31	.66	7.3	7.3	6.7	7.6
December	29.158	29.740	28.510	25.6	27.5	27.3	32.6	22.1	27.4	48	7	22	24	24	85	84	86	.121	.129	.131	5.22	1.18	9.9	8.9	9.0	9.1
Year	29.160	29.860	28.030	44.2	48.1	47.4	53.3	39.6	46.5	88	−1	39	40	40	81	75	77	.277	.293	.296	33.12	1.64	6.5	6.2	6.0	6.4

BURLINGTON, VT.

[ϕ=44° 29′ N.; λ=73° 12′ W.]

January	29.512	30.240	28.660	16.5	20.2		27.1	9.5	18.3	55	−9	11	13		79	72		0.080	0.084		1.33	0.46	8.1	7.5		7.8
February	29.642	29.984	29.220	15.6	23.0		27.3	10.6	19.0	44	−6	13	17		88	78		.083	.097		1.38	.71	8.1	7.6		7.4
March	29.437	29.930	28.410	30.5	35.2		40.6	25.1	32.8	59	−1	24	26		76	69		.138	.146		2.47	.57	7.1	7.8		7.8
April	29.447	29.946	28.660	39.6	45.6		50.5	34.6	42.6	71	16	32	32		76	62		.192	.192		3.74	.77	8.2	8.4		8.1
May	29.559	30.042	28.404	52.7	59.4		64.8	43.6	54.2	92	31	42	42		68	55		.286	.288		4.51	1.39	6.8	7.2		7.0
June	29.472	29.759	29.030	62.6	69.5		74.4	54.5	64.4	87	40	54	55		74	62		.438	.460		5.55	1.67	6.4	5.7		6.2
July	29.557	29.988	29.150	66.0	73.3		78.1	57.0	67.6	90	43	56	56		72	57		.467	.471		3.35	1.33	5.7	5.2		4.8
August	29.518	29.861	28.970	62.3	69.2		73.1	54.1	63.6	85	45	54	53		76	58		.433	.417		1.54	.59	5.8	6.4		6.0
September	29.652	30.182	29.200	58.5	67.1		70.8	50.5	60.6	91	29	52	53		81	62		.417	.426		1.42	.46	6.9	5.8		6.2
October	29.557	30.258	28.910	44.7	51.4		54.9	38.9	46.9	73	26	36	36		72	56		.224	.220		2.87	1.21	6.8	6.5		6.6
November	29.530	30.060	28.630	35.3	39.6		42.6	30.6	36.6	63	9	29	29		77	66		.178	.180		2.24	.56	8.0	7.6		7.9
December	29.554	30.264	28.900	19.4	22.8		27.6	13.5	20.6	41	−11	16	18		87	82		.098	.104		3.47	1.06	8.6	8.5		8.6
Year	29.536	30.264	28.404	42.0	48.0		52.6	35.2	43.9	92	−11	35	36		77	65		.253	.257		33.87	1.67	7.2	7.0		7.0

Annual meteorological summary for the year ending December 31, 1929—Continued

BROKEN ARROW, OKLA.

[H_b=765 ft.; h_t=11 ft.; h_r=4 ft.; h_a=56 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	12.0	N.	37	NW.	2	9	4	4	3	6	2	0	3	0	10	7	14	8	6	2	1	0	3	5	0	28	1	0
February	9.7	N.	29	S.	0	7	7	3	4	3	2	2	0	0	10	2	16	9	7	10	4	1	2	9	0	26	1	0
March	13.0	S.	36	SE.	2	3	5	2	3	10	3	0	5	0	5	11	15	9	6	0	0	0	0	0	0	4	2	0
April	13.8	S.	38	S.	5	5	1	1	6	9	2	2	4	0	7	13	10	10	8	0	0	1	0	0	0	0	12	0
May	11.6	S.	42	N.	2	1	10	1	4	12	2	0	1	0	3	9	19	14	10	1	0	0	0	0	0	0	9	0
June	11.3	S.	34	SW.	1	5	3	3	5	12	2	0	0	0	10	12	8	12	12	0	0	1	0	0	2	0	12	0
July	9.3	S.	34	S.	1	3	5	0	3	14	6	0	0	0	16	13	2	5	5	0	0	0	1	0	12	0	5	0
August	9.2	S.	23	N.	0	4	5	0	5	13	3	0	1	0	19	11	1	3	2	0	0	0	0	0	23	0	5	0
September	8.9	S.	26	N.	0	8	2	0	7	10	2	1	0	0	15	5	10	7	5	0	0	0	3	0	4	0	7	0
October	9.8	SE.	36	S.	1	7	2	3	7	7	1	3	1	0	11	9	11	11	7	0	0	0	1	0	0	0	4	0
November	9.8	N.	26	N.	0	7	5	0	2	5	4	3	4	0	6	10	14	8	6	1	0	0	1	0	0	9	0	0
December	10.8	S.	37	N.	2	7	0	1	2	9	9	1	2	0	12	7	12	6	4	3	2	0	5	5	0	17	2	0
Year	10.8	S.	42	N.	16	66	49	18	51	110	38	12	21	0	124	109	132	102	78	17	7	3	16	19	41	84	60	0

BROWNSVILLE, TEX.

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

January	7.8	S.	26	NE.	0	11	8	6	21	12	0	0	4	0	9	12	10	8	5	0	0	0	5	0	0	0	0	0
February	9.9	NW.	31	S.	0	8	8	4	12	5	1	1	16	1	4	13	11	5	2	0	0	0	5	0	0	0	0	0
March	12.1	S.	33	S.	1	4	8	8	27	10	0	3	2	0	13	14	4	5	2	0	0	0	1	0	0	1	0	0
April	11.8	SE.	33	SE.	1	2	9	7	33	8	0	0	1	0	9	17	4	2	1	0	0	0	0	0	2	0	3	0
May	11.9	SE.	32	N.	0	2	6	7	33	9	1	1	2	1	9	17	5	8	7	0	0	0	0	0	1	0	3	0
June	8.6	SE.	24	SE.	0	2	3	11	31	7	0	2	4	0	20	8	2	6	5	0	0	0	0	0	10	0	1	0
July	8.6	SE.	30	S.	0	1	0	10	39	9	0	0	2	1	8	20	3	9	8	0	0	0	0	0	16	0	7	0
August	7.9	SE.	25	NE.	0	6	10	7	31	3	2	0	3	0	17	11	3	4	4	0	0	0	0	0	26	0	5	0
September	7.2	SE.	23	NE.	0	10	14	9	15	3	1	1	6	1	11	15	4	11	8	0	0	0	0	0	15	0	2	0
October	7.3	SE.	27	NE.	0	9	5	15	10	3	2	2	16	0	14	11	6	5	4	0	0	0	1	0	4	0	1	0
November	9.2	NW.	26	S.	0	7	7	6	5	8	1	1	25	0	7	6	17	11	8	0	0	0	1	0	0	0	0	0
December	9.0	SE.	32	SE.	0	6	6	15	13	4	0	2	16	0	8	19	4	6	5	1	0	0	7	0	0	4	1	0
Year	9.3	SE.	33	SE.	2	68	84	105	270	81	8	13	97	4	129	163	73	80	59	1	0	0	20	0	75	4	23	0

BUFFALO, N. Y.

[H_b=767 ft.; h_t=247 ft.; h_r=238 ft.; h_a=280 ft.]

January	22.0	W.	70	SW.	19	0	2	3	6	4	10	33	4	0	4	6	21	23	19	22	20	0	1	18	0	30	1	0
February	13.9	W.	52	W.	8	0	4	6	8	1	18	15	4	0	2	9	17	21	12	22	20	0	1	17	0	28	0	0
March	18.0	SW.	74	W.	12	1	5	4	2	10	24	7	9	0	2	11	18	21	15	7	5	0	3	3	0	18	3	2
April	16.6	SW.	73	SW.	7	0	7	7	4	3	20	12	7	0	4	9	17	18	14	4	3	0	2	0	0	7	2	0
May	14.8	SW.	58	W.	12	4	6	4	2	5	25	13	3	0	7	15	9	14	10	1	0	0	1	0	0	0	3	0
June	12.2	SW.	46	SW.	6	4	7	4	2	6	25	6	6	0	10	14	6	11	6	0	0	0	0	0	0	0	5	0
July	12.6	SW.	48	W.	9	3	8	3	1	3	32	7	5	0	14	12	5	9	6	0	0	0	0	0	0	0	8	0
August	11.3	SW.	36	W.	5	11	7	4	5	3	15	9	8	0	16	9	6	3	3	0	0	0	0	0	0	0	2	0
September	12.5	SW.	54	SW.	6	5	2	14	7	3	17	5	7	0	12	7	11	8	6	0	0	0	0	0	0	0	2	1
October	16.5	SW.	54	W.	11	3	8	4	10	4	15	8	10	0	6	11	14	11	6	2	1	0	0	0	0	4	0	0
November	18.7	W.	62	SW.	15	1	6	5	3	4	11	24	6	0	0	14	16	16	10	9	5	0	1	4	0	11	0	0
December	17.9	W.	64	W.	13	0	5	14	2	4	15	20	2	0	1	3	27	22	18	20	16	0	1	17	0	28	0	0
Year	15.6	SW.	78	SW.	123	32	67	72	52	50	227	159	71	0	78	120	167	177	125	87	70	0	10	59	0	126	26	3

BURLINGTON, VT.

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

January	12.2	NW.	40	S.	3	4	5	2	0	6	4	2	7	1	3	9	19	16	10	18	12	0	0	21	0	30	0	0
February	7.0	S.	36	S.	3	2	8	2	6	6	2	0	0	2	3	7	18	11	6	20	11	0	0	19	0	27	0	0
March	11.2	S.	39	S.	3	3	3	2	0	13	1	1	8	0	3	7	21	14	12	12	7	0	1	6	0	21	2	0
April	9.5	S.	46	S.	2	7	0	0	4	9	4	1	5	0	1	8	21	16	14	9	8	0	0	0	0	12	0	0
May	9.6	S.	37	SW.	4	4	1	0	3	11	6	0	6	0	7	5	19	13	9	1	0	0	0	0	1	1	5	0
June	8.8	S.	25	S.	0	6	0	0	2	14	3	1	4	0	7	8	15	13	12	0	0	0	0	0	0	0	12	0
July	7.6	S.	30	S.	0	7	1	2	0	15	3	1	2	0	11	13	7	11	8	0	0	0	0	0	0	6	1	0
August	7.1	S.	22	S.	0	4	2	0	0	9	5	3	8	0	7	13	11	9	5	0	0	0	0	0	0	7	0	0
September	7.6	S.	30	S.	0	7	0	3	0	12	5	0	3	0	6	11	13	10	8	0	0	0	0	0	1	2	1	0
October	9.9	NW.	40	SE.	3	5	1	1	3	10	5	1	4	1	6	9	16	17	11	3	0	0	0	0	0	8	1	1
November	10.7	S.	44	S.	3	1	3	0	2	12	3	0	9	0	3	7	20	12	9	9	3	0	1	5	0	15	0	0
December	8.8	S.	36	S.	2	6	4	3	1	10	1	1	5	0	2	4	25	21	10	27	20	0	1	20	0	31	1	0
Year	9.0	S.	46	S.	23	56	28	15	21	127	42	11	61	4	59	101	205	163	114	99	61	0	4	71	2	147	35	2

Annual meteorological summary for the year ending December 31, 1929—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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.740	30.150	28.920	30.1	34.7	35.5	42.5	24.2	33.4	70	13	26	28	27	84	76	71	0.153	0.171	0.168	4.98	2.29	7.1	6.5	5.9	6.9
February	29.749	30.200	29.140	26.7	33.3	34.4	38.5	24.4	31.4	60	5	23	23	25	84	65	68	.132	.132	.145	4.20	2.32	6.5	5.6	6.2	6.3
March	29.589	30.160	29.128	47.2	56.1	56.2	60.7	45.1	52.9	88	26	41	43	41	81	64	61	.281	.303	.286	3.54	.82	6.1	5.7	7.3	6.3
April	29.552	30.010	29.032	56.4	64.0	64.0	69.2	53.8	61.5	80	43	50	50	50	79	63	63	.367	.383	.378	2.97	.68	6.0	6.6	6.7	6.2
May	29.669	29.980	28.910	60.2	68.8	68.6	73.7	57.3	65.5	90	39	55	56	56	83	66	66	.459	.478	.479	5.19	1.40	6.6	7.2	7.5	7.3
June	29.589	29.773	29.330	69.6	79.5	77.6	83.0	65.9	74.4	94	53	63	62	63	79	56	63	.581	.567	.593	3.76	1.60	5.6	5.9	5.8	5.6
July	29.660	29.850	29.450	74.0	84.3	82.6	88.3	71.0	79.6	96	62	69	69	69	84	61	64	.710	.710	.714	1.28	.36	5.0	6.8	5.9	6.1
August	29.652	29.860	29.380	68.8	81.1	79.6	84.8	66.8	75.8	96	57	64	64	66	85	57	65	.610	.610	.656	3.29	.98	4.1	4.4	5.3	4.6
September	29.657	29.890	29.400	64.0	74.1	72.0	77.8	62.2	70.0	89	48	60	61	62	88	65	73	.541	.559	.586	5.44	2.64	6.0	5.8	4.8	5.6
October	29.676	29.980	29.350	52.6	64.9	62.3	68.1	50.9	59.5	81	34	47	48	49	83	57	64	.336	.349	.364	1.08	.34	5.4	4.9	5.2	5.4
November	29.758	30.180	29.250	39.7	47.4	46.3	51.6	37.7	44.6	72	9	36	36	35	85	68	67	.226	.237	.221	2.51	1.07	6.4	6.8	5.3	6.8
December	29.741	30.240	29.300	36.2	43.2	42.5	47.7	32.9	40.3	68	5	32	34	35	85	72	76	.223	.244	.247	4.12	1.43	6.1	6.8	6.5	6.7
Year	29.669	30.240	28.910	52.1	61.0	60.1	65.5	49.4	57.4	96	5	47	48	48	83	64	67	.385	.395	.403	42.36	2.64	5.9	6.1	6.0	6.2

CANTON, N. Y.

[ϕ=44° 36′ N.; λ=75° 10′ W.]

January	29.471	30.160	28.440	15.7	18.5	16.2	27.1	7.2	17.2	61	−12	12	12	...	83	74	...	0.081	0.079	.....	3.31	0.96	7.3	6.1	....	6.5
February	29.584	29.940	29.100	13.3	20.3	15.4	23.6	6.2	14.9	45	−18	10	14	...	87	76	...	.074	.085	.....	1.67	.41	7.0	5.5	....	5.9
March	29.391	29.841	28.350	30.5	35.6	32.7	40.9	24.5	32.7	58	−3	26	28	...	84	75	...	.149	.152	.....	3.93	.67	7.3	6.6	....	6.8
April	29.387	29.890	28.710	39.6	48.8	43.6	52.4	34.6	43.5	74	14	34	37	...	82	66	...	.207	.233	.....	3.68	.58	7.2	6.0	....	7.0
May	29.512	30.006	28.422	52.0	58.5	53.4	63.8	43.3	53.6	88	33	44	44	...	76	61	...	.309	.303	.....	4.04	.92	5.6	5.3	....	5.5
June	29.431	29.750	28.950	61.9	69.4	63.2	73.5	52.8	63.2	88	39	54	56	...	77	64	...	.441	.473	.....	4.50	1.29	4.4	4.9	....	4.8
July	29.508	29.936	29.120	65.9	73.8	68.0	78.3	56.2	67.2	89	43	58	59	...	75	61	...	.488	.511	.....	3.77	1.03	4.2	3.3	....	3.8
August	29.481	29.808	28.970	60.6	69.4	63.4	73.3	52.2	62.8	83	38	53	54	...	78	59	...	.415	.426	.....	1.81	.62	5.5	4.6	....	5.1
September	29.602	30.118	29.170	58.1	67.9	60.1	71.4	51.0	61.2	91	25	51	54	...	79	62	...	.401	.440	.....	2.51	.88	4.5	3.5	....	4.3
October	29.530	30.246	28.875	42.8	51.2	44.4	54.1	36.5	45.3	75	23	36	37	...	79	60	...	.222	.231	.....	3.23	1.70	6.5	6.4	....	6.1
November	29.484	30.000	28.540	33.3	38.2	35.2	41.6	28.3	35.0	66	2	30	28	...	86	67	...	.179	.173	.....	3.04	1.06	8.6	7.6	....	8.0
December	29.535	30.220	28.800	17.5	20.2	17.7	24.9	9.7	17.3	40	−23	16	17	...	93	87	...	.096	.100	.....	2.42	.56	9.3	8.6	....	8.5
Year	29.493	30.246	28.350	40.9	47.6	42.8	52.1	33.5	42.8	91	−23	35	37	...	82	68	...	.255	.268	.....	37.91	1.70	6.4	5.7	....	6.0

CAPE HENRY, VA.

[ϕ=36° 56′ N.; λ=76° 00′ W.]

January	30.069	30.600	29.450	39.7	44.5	42.6	49.6	34.7	42.2	71	22	32	32	34	72	62	72	0.196	0.201	0.209	3.07	1.45	5.2	5.4	3.8	5.7
February	30.070	30.410	29.490	36.8	42.0	39.5	47.3	32.9	40.1	73	23	32	33	34	82	71	81	.189	.206	.208	5.25	1.54	5.7	6.1	4.8	6.1
March	29.992	30.550	28.990	50.6	59.3	53.6	63.7	44.6	54.2	87	25	43	41	41	74	54	64	.304	.297	.289	3.36	1.49	4.7	4.6	3.9	5.1
April	29.902	30.460	28.930	58.8	64.7	60.8	70.1	52.0	61.0	93	39	49	48	49	70	57	69	.357	.348	.365	1.45	1.31	4.6	4.9	3.6	5.0
May	30.070	30.550	29.170	64.4	69.6	65.4	73.8	57.7	65.8	90	47	55	55	56	74	63	75	.462	.453	.478	6.73	3.17	4.8	4.4	5.0	5.2
June	29.930	30.159	29.620	71.7	76.2	72.0	80.1	65.7	72.9	92	51	64	64	64	78	67	77	.614	.607	.617	5.60	1.94	5.1	5.0	5.3	5.6
July	30.031	30.272	29.690	75.9	81.3	76.1	84.4	69.9	77.2	96	61	68	68	69	78	66	78	.701	.690	.705	2.80	.56	4.6	4.7	4.8	4.9
August	29.968	30.300	29.620	74.7	79.7	74.0	81.9	68.7	75.3	92	61	67	66	66	78	65	78	.674	.661	.661	1.92	.81	5.6	5.0	4.6	5.4
September	30.059	30.220	29.820	70.3	75.5	71.0	78.1	66.4	72.2	90	56	64	64	65	82	70	82	.617	.616	.635	5.52	2.62	5.8	5.1	4.3	5.7
October	30.037	30.595	29.370	59.2	65.4	60.4	68.1	54.2	61.2	80	41	50	50	50	72	60	69	.374	.380	.373	5.24	3.66	3.9	3.9	2.8	3.9
November	30.070	30.477	29.380	52.1	57.0	52.1	60.0	47.0	53.5	83	19	46	45	44	79	66	76	.337	.333	.325	3.25	1.68	6.8	6.1	5.5	6.0
December	30.074	30.480	29.500	41.1	50.3	44.9	53.8	36.5	45.2	75	17	35	38	36	79	63	72	.219	.247	.230	2.19	1.05	4.8	5.0	3.1	5.2
Year	30.023	30.600	28.930	57.9	63.8	59.4	67.6	52.5	60.1	96	17	50	50	51	76	64	74	.420	.420	.425	46.38	3.66	5.1	5.0	4.3	5.3

CHARLES CITY, IOWA

[ϕ=43° 04′ N.; λ=92° 38′ W.]

January	28.998	29.401	28.320	2.0	9.2	6.5	14.4	−5.2	4.6	36	−22	0	4	3	90	77	84	0.045	0.054	0.051	2.68	0.80	6.4	6.0	5.3	5.6
February	29.018	29.443	28.290	4.9	15.2	13.2	18.8	−0.6	9.1	32	−28	4	10	10	94	76	86	.058	.071	.073	1.73	.90	7.7	6.6	6.5	6.5
March	28.813	29.530	28.100	29.2	38.7	37.2	43.0	25.3	34.2	60	1	26	29	29	87	69	74	.147	.163	.168	1.67	1.27	5.3	6.5	5.1	5.7
April	28.806	29.202	28.290	43.5	53.6	52.5	58.3	39.4	48.8	82	19	37	38	40	79	59	65	.258	.247	.264	4.89	1.57	5.5	6.0	6.1	5.5
May	28.974	29.383	28.490	50.3	61.1	60.8	65.8	43.8	54.8	87	30	42	41	43	74	51	53	.302	.300	.312	3.24	1.71	5.2	4.5	4.8	4.6
June	28.880	29.220	28.480	61.1	71.9	71.3	76.6	54.5	65.6	89	41	53	52	54	76	51	56	.421	.406	.431	1.49	.46	5.0	4.7	4.7	4.8
July	28.944	29.169	28.590	67.3	80.9	78.4	83.8	62.1	73.0	92	50	60	60	62	79	51	58	.538	.535	.567	3.54	1.77	4.9	3.7	4.1	4.3
August	28.974	29.256	28.640	63.0	77.7	74.3	80.8	57.9	69.4	90	44	57	57	58	80	50	58	.466	.475	.498	1.24	1.20	3.8	3.0	2.5	3.0
September	28.974	29.330	28.610	53.8	67.8	62.2	70.9	49.9	60.4	93	29	48	48	50	83	52	66	.355	.359	.378	3.96	1.74	3.9	4.2	5.0	4.2
October	28.975	29.290	28.540	41.9	56.4	50.9	59.4	38.4	48.9	80	28	38	39	40	87	56	67	.242	.250	.255	1.49	1.40	5.3	5.2	4.4	5.1
November	29.008	29.596	28.400	25.5	34.8	29.7	37.4	21.0	29.2	54	−7	23	24	23	89	65	76	.133	.137	.134	1.11	*.30	4.8	5.0	3.9	5.3
December	28.960	29.480	28.460	17.9	25.9	23.0	29.0	13.7	21.4	52	−8	16	20	20	94	79	88	.100	.116	.118	.25	*.35	6.8	5.9	5.5	5.9
Year	28.944	29.596	28.100	38.4	49.4	46.7	53.2	33.4	43.3	93	−28	34	35	36	84	61	69	.254	.259	.271	27.29	1.77	5.4	5.1	4.8	5.0

*Nov. 30–Dec. 1.

Annual meteorological summary for the year ending December 31, 1929—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	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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	9.8	NE.	48	SW.	1	16	9	7	5	11	6	7	7	0	7	8	16	11	11	5	0	0	2	3	0	25	2	0
February	8.0	N.	27	SW.	0	18	12	2	3	9	6	0	6	0	7	8	13	8	5	12	6	0	1	7	0	21	1	0
March	9.8	S.	37	SW.	2	16	4	4	6	23	6	5	4	0	8	7	16	13	12	1	0	1	0	0	0	5	3	0
April	9.7	S.	36	SW.	2	4	3	8	8	22	7	3	5	0	9	5	16	14	9	0	0	1	0	0	0	0	6	0
May	8.4	S.	37	NW.	1	13	8	6	11	17	3	1	2	1	4	8	19	13	10	0	0	1	0	0	1	0	14	0
June	6.8	S.	38	NW.	1	13	10	5	8	14	6	3	0	1	8	10	12	7	7	0	0	0	0	0	4	0	10	0
July	5.8	S.	39	SW.	2	8	9	2	4	16	16	6	1	0	6	12	13	10	7	0	0	0	0	0	10	0	13	0
August	5.5	NE.	34	N.	1	12	19	5	6	13	4	0	1	2	13	9	9	9	8	0	0	0	0	0	5	0	9	0
September	5.4	NE.	28	N.	0	10	15	7	5	15	3	0	4	1	9	10	11	11	10	0	0	0	0	0	0	0	8	0
October	7.0	N.	27	SE.	0	8	8	3	13	8	7	4	9	0	12	5	14	6	6	0	0	0	2	0	0	0	1	0
November	7.7	N.	25	N.	0	15	6	5	6	9	6	2	10	1	7	6	17	6	6	2	0	0	2	2	0	8	1	0
December	8.6	S.	29	N.	0	5	1	1	6	23	13	4	9	0	9	4	18	12	9	5	3	0	1	8	0	15	2	0
Year	7.7	S.	48	SW.	10	126	104	57	81	180	83	35	58	6	99	92	174	120	100	25	9	3	8	20	20	74	70	0

CANTON, N. Y.

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

January	11.6	W.	51	SW.	11	1	2	4	1	0	5	11	7	0	6	11	14	21	15	23	18	0	0	20	0	30	2	0
February	6.9	W.	32	W.	0	0	2	6	1	2	7	9	1	0	8	9	11	16	13	20	15	0	0	23	0	28	0	0
March	9.9	SW.	36	SW.	2	3	5	3	0	2	8	5	5	0	5	10	16	21	20	11	9	0	1	4	0	22	4	4
April	11.0	E.	45	SW.	2	1	1	9	0	2	9	4	4	0	6	7	17	17	13	7	7	1	1	0	0	10	2	2
May	10.1	W.	46	SW.	2	0	4	1	0	0	11	12	3	0	11	8	12	12	11	2	0	1	0	0	0	0	4	1
June	7.1	W.	45	SW.	1	2	2	3	0	2	12	7	2	0	12	9	9	16	11	0	0	0	0	0	0	0	7	1
July	7.2	W.	32	SW.	0	2	3	1	2	0	18	5	0	0	16	10	5	13	12	0	0	1	0	0	0	0	6	2
August	6.6	SW.	24	W.	0	2	4	1	0	4	9	7	3	1	14	5	12	9	8	0	0	0	1	0	0	0	4	1
September	7.7	SW.	39	SW.	1	4	2	5	1	2	11	3	2	0	16	6	8	8	6	0	0	0	1	0	1	4	1	0
October	8.5	SW.	37	SW.	2	2	2	3	0	4	9	6	4	1	9	7	15	14	8	3	1	1	0	0	0	11	1	3
November	10.0	SW.	37	W.	3	1	3	2	0	1	14	5	4	0	1	9	20	16	10	10	5	0	1	8	0	19	1	0
December	10.1	W.	31	E.	0	2	5	7	0	1	6	8	2	0	2	5	24	23	15	26	18	0	4	25	0	30	0	2
Year	8.9	SW.	51	SW.	24	20	35	45	5	20	119	82	37	2	106	96	163	186	142	102	73	4	9	80	1	154	32	16

CAPE HENRY, VA.

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

January	13.1	NE.	40	N.	8	5	16	3	2	7	10	7	12	0	11	7	13	13	9	3	1	0	4	2	0	11	0	0
February	12.0	N.	38	N.	3	14	8	2	6	8	6	3	9	0	8	7	13	11	11	3	1	0	3	3	0	14	0	0
March	12.9	SW.	50	NW.	10	8	2	0	11	12	19	5	5	0	11	11	9	7	7	0	0	0	4	0	0	5	2	1
April	13.2	SW.	40	NW.	5	4	5	3	4	13	19	2	10	0	13	8	9	7	4	0	0	0	2	0	2	0	0	0
May	11.2	SW.	37	E.	3	5	7	5	14	8	20	2	1	0	14	8	9	11	9	0	0	0	1	0	1	0	8	0
June	9.9	SW.	39	NW.	3	7	7	1	8	10	21	3	3	0	10	9	11	12	8	0	0	0	2	0	1	0	6	0
July	10.0	SW.	49	N.	3	2	9	5	4	12	25	3	2	0	12	10	9	10	8	0	0	0	0	0	8	0	9	0
August	8.9	E.	27	NE.	0	7	10	12	8	9	9	3	4	0	9	13	9	8	7	0	0	0	0	0	2	0	5	0
September	12.1	NE.	43	NE.	5	8	19	2	2	10	16	3	0	0	9	7	14	9	7	0	0	0	3	0	1	0	4	0
October	12.5	SW.	46	NE.	4	5	12	5	11	3	16	3	7	0	18	6	7	8	5	0	0	0	0	0	0	0	0	0
November	11.5	SW.	38	N.	4	6	11	0	4	10	16	6	7	0	8	9	13	9	9	1	0	0	1	1	0	2	1	0
December	10.8	SW.	34	NW.	2	3	7	2	6	7	21	6	10	0	12	9	10	10	6	3	2	0	4	0	0	9	0	0
Year	11.5	SW.	50	NW.	50	74	113	40	80	109	198	46	70	0	135	104	126	115	90	10	4	0	24	6	15	41	35	1

CHARLES CITY, IOWA

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

January	6.2	NW.	25	W.	0	8	6	1	13	3	7	7	17	0	10	6	15	13	10	20	13	0	0	28	0	31	0	0
February	5.2	SE.	19	SE.	0	4	7	2	14	3	1	10	15	0	8	7	13	10	4	16	10	0	0	27	0	28	0	0
March	7.2	SE.	28	NW.	0	3	4	3	14	7	10	7	14	0	8	11	12	6	4	5	3	0	0	3	0	22	2	0
April	6.7	SE.	27	SW.	0	3	13	3	18	5	5	6	7	0	11	11	8	11	10	3	3	1	1	0	0	6	4	0
May	6.1	SE.	20	N.	0	10	4	3	12	10	6	3	14	0	13	9	9	11	8	0	0	0	0	0	0	7	3	0
June	5.2	SE.	26	SE.	0	3	5	7	9	8	7	10	11	0	11	12	7	8	6	0	0	0	0	0	0	6	3	0
July	4.9	SE.	17	SW.	0	3	1	4	14	12	11	7	10	0	16	8	7	12	9	0	0	0	0	0	5	0	8	0
August	4.5	SE.	19	NW.	0	3	5	3	22	9	5	1	14	0	18	11	2	4	2	0	0	0	0	0	0	0	5	0
September	5.8	SE.	22	SW.	0	9	3	2	21	9	3	5	7	1	14	8	8	10	5	0	0	0	0	0	2	1	3	0
October	5.8	SE.	23	NW.	0	6	4	3	19	6	7	10	6	1	13	4	14	9	9	3	3	0	0	0	0	6	2	0
November	6.0	NW.	22	NW.	0	9	2	0	5	7	10	14	13	0	10	9	11	8	6	12	5	0	0	8	0	26	0	0
December	5.9	NW.	18	N.	0	8	4	2	12	5	5	9	17	0	8	11	12	4	2	7	2	0	0	17	0	31	0	0
Year	5.8	SE.	28	NW.	0	69	58	33	173	84	77	89	145	2	140	107	118	106	75	66	39	1	4	84	7	158	33	0

Annual meteorological summary for the year ending December 31, 1929—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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.073	30.450	29.700	48.7	57.5	53.0	60.6	45.5	53.0	76	32	43	44	45	82	64	76	0.307	0.322	0.325	4.66	1.85	5.7	5.1	4.0	5.2
February	30.033	30.390	29.620	48.0	54.3	51.4	57.7	44.5	51.1	72	31	43	44	44	82	70	78	.301	.321	.314	4.86	.88	7.4	6.9	6.0	7.1
March	30.014	30.460	29.390	58.4	66.1	61.5	68.8	53.9	61.4	88	38	51	51	51	77	60	71	.409	.406	.404	2.05	.57	6.0	5.7	4.2	5.4
April	29.964	30.490	29.260	66.0	73.0	67.5	75.6	60.6	68.1	85	46	57	58	59	75	61	74	.490	.499	.503	1.88	.58	4.7	5.3	4.6	5.2
May	30.074	30.440	29.400	72.1	76.5	72.4	78.5	65.6	72.0	89	50	64	65	64	76	68	76	.607	.627	.608	4.30	1.70	4.9	5.0	5.6	4.9
June	29.949	30.180	29.630	76.4	80.6	76.2	83.5	69.8	76.6	94	58	69	68	68	78	67	77	.711	.697	.696	4.81	2.03	5.3	6.1	6.8	5.9
July	30.039	30.240	29.770	78.6	83.5	78.7	86.0	73.5	79.8	99	63	71	71	71	78	68	77	.770	.772	.756	6.07	2.24	5.0	6.3	6.0	5.9
August	29.951	30.240	29.690	77.6	84.9	80.1	87.2	74.2	80.7	96	68	72	72	73	81	66	79	.775	.788	.815	5.22	1.68	5.8	5.9	5.4	5.9
September	29.984	30.200	29.730	74.1	79.2	75.5	80.9	70.9	75.9	87	54	69	70	70	85	74	83	.729	.747	.745	3.86	.97	7.3	7.6	5.8	7.2
October	29.997	30.400	29.330	62.8	72.6	67.1	74.2	59.7	67.0	83	47	56	57	59	78	60	75	.458	.487	.511	1.71	1.25	4.2	4.2	2.4	4.0
November	30.067	30.370	29.640	56.4	64.6	59.3	66.6	53.5	60.0	81	28	51	52	52	82	65	77	.413	.427	.419	2.00	.97	5.7	5.1	4.6	5.3
December	30.121	30.480	29.530	45.0	54.9	51.3	59.5	41.9	50.7	74	27	40	45	45	84	70	79	.275	.326	.318	3.54	1.71	5.2	4.5	3.7	4.8
Year	30.022	30.490	29.260	63.7	70.6	66.2	73.3	59.5	66.4	99	27	57	58	58	80	66	77	.520	.535	.534	44.96	2.24	5.6	5.6	4.9	5.6

CHARLOTTE, N. C.
[ϕ=35° 13′ N.; λ=80° 51′ W.]

January	29.263	29.730	28.770	37.4	46.0	44.5	52.2	34.3	43.2	71	23	33	37	36	83	72	72	0.196	0.235	0.221	2.58	0.49	5.3	5.5	4.2	5.7
February	29.242	29.610	28.750	36.6	45.5	44.8	50.9	34.1	42.5	73	23	32	33	33	83	63	66	.197	.206	.203	8.58	2.80	6.3	6.1	6.2	6.4
March	29.199	29.720	28.420	49.6	60.3	58.1	65.8	45.9	55.8	90	26	41	42	43	74	54	61	.292	.301	.314	7.09	2.47	5.9	5.3	4.2	5.5
April	29.142	29.680	28.500	57.1	69.3	65.8	74.5	52.7	63.6	90	42	47	47	46	72	49	52	.344	.348	3.27	3.35	1.45	4.5	5.4	3.8	4.9
May	29.273	29.690	28.420	63.6	74.1	69.6	78.9	58.5	68.7	89	43	56	56	56	78	55	64	.475	.473	.488	5.90	1.47	6.3	6.1	4.8	6.1
June	29.164	29.389	28.840	70.4	80.0	76.3	85.1	64.8	75.0	93	51	63	62	62	78	56	64	.583	.560	.575	5.88	1.85	5.0	5.5	6.0	5.6
July	29.260	29.490	29.024	72.2	83.0	77.0	87.3	68.0	77.6	97	59	66	65	66	81	55	70	.649	.622	.648	3.52	1.09	6.1	5.7	6.3	6.1
August	29.190	29.500	28.910	70.6	82.1	77.7	86.2	67.2	76.7	95	59	65	64	66	84	56	67	.633	.613	.636	2.78	.95	3.7	5.6	4.8	5.2
September	29.253	29.440	29.010	65.4	75.3	72.0	79.0	63.4	71.2	92	45	61	61	63	87	64	74	.564	.557	.592	3.01	2.02	6.4	5.8	5.4	6.2
October	29.237	29.730	28.590	52.4	65.3	60.7	69.1	49.0	59.0	78	39	45	44	47	78	50	63	.312	.395	.333	6.47	3.42	3.7	3.6	2.9	3.9
November	29.273	29.600	28.720	47.6	55.4	52.8	58.6	44.8	51.7	78	15	43	43	43	86	66	73	.321	.322	.319	4.31	1.79	7.0	6.3	5.5	6.6
December	29.287	29.680	28.620	36.3	47.6	46.0	53.1	34.1	43.6	73	17	32	35	36	84	63	70	.197	.220	.234	3.54	1.22	4.9	4.3	3.6	4.8
Year	29.232	29.730	28.420	54.9	65.3	62.1	70.1	51.4	60.7	97	15	49	49	50	81	59	66	.397	.397	.406	57.01	3.42	5.4	5.4	4.8	5.6

CHATTANOOGA, TENN.
[ϕ=35° 04′ N.; λ=85° 18′ W.]

January	29.307	29.710	28.790	37.8	45.1	45.1	51.3	33.5	42.4	74	18	29	30	31	71	58	59	0.185	0.195	0.194	5.72	1.40	6.3	6.0	4.9	5.7
February	29.274	29.700	28.790	35.1	43.3	43.6	48.8	32.9	40.8	64	20	27	30	30	71	61	62	.160	.179	.182	5.83	1.84	7.1	6.2	6.2	6.4
March	29.202	29.690	28.540	48.5	59.4	59.7	65.1	46.1	55.6	89	25	38	40	40	68	52	53	.259	.280	.285	10.80	3.66	5.9	6.5	5.2	5.8
April	29.169	29.670	28.640	56.4	67.5	66.9	72.4	54.0	63.2	85	44	47	48	48	71	52	55	.337	.352	.359	6.70	1.99	6.5	6.4	5.1	6.0
May	29.273	29.620	28.570	63.2	71.8	69.7	76.8	58.7	67.8	90	40	56	57	57	77	61	67	.459	.481	.492	12.00	2.11	5.9	6.1	6.8	6.2
June	29.168	29.400	28.870	69.0	79.5	78.3	84.1	64.8	74.4	91	56	61	62	63	78	57	62	.550	.570	.583	4.39	1.80	4.7	5.3	5.0	5.0
July	29.268	29.500	29.000	72.2	83.5	80.2	87.3	68.9	78.1	94	63	65	66	66	78	56	64	.621	.630	.653	3.21	1.21	4.3	6.0	5.7	5.5
August	29.202	29.470	28.970	70.7	84.0	82.7	88.0	67.7	77.8	94	60	62	61	63	75	48	52	.571	.554	.579	.45	.45	3.1	4.0	3.4	3.5
September	29.228	29.450	29.020	66.6	76.4	74.4	79.9	64.2	72.0	91	52	60	62	63	80	63	69	.535	.566	.586	5.66	2.01	6.2	6.2	5.3	6.0
October	29.257	29.660	28.740	53.0	64.4	62.0	68.0	50.6	59.3	79	39	45	46	48	76	56	62	.315	.330	.349	3.12	1.41	4.8	4.9	4.0	4.8
November	29.310	29.690	28.830	46.0	51.6	51.0	55.2	43.6	49.4	75	11	39	40	41	78	67	70	.279	.294	.302	11.60	2.80	7.2	6.9	6.5	6.7
December	29.352	29.800	28.710	36.4	45.7	44.7	50.7	32.5	41.6	71	9	30	33	34	78	62	68	.196	.217	.224	2.89	.86	4.6	4.9	3.5	4.8
Year	29.251	29.800	28.540	54.6	64.4	63.2	69.0	51.5	60.2	94	9	47	48	49	75	58	62	.372	.387	.399	72.37	3.66	5.6	5.8	5.2	5.5

CHEYENNE, WYO.
[ϕ=41° 08′ N.; λ=104° 48′ W.]

January	23.815	24.140	23.250	18.9	27.6	23.4	32.9	11.3	22.1	50	−5	10	11	11	67	49	59	0.067	0.073	0.071	0.32	0.08	4.6	5.9	5.1	5.7
February	23.845	24.160	23.590	15.2	23.4	19.5	27.2	7.3	17.2	47	−15	6	10	10	67	58	66	.057	.069	.067	.85	.25	5.9	6.1	6.2	6.6
March	23.832	24.270	23.400	27.5	37.7	36.3	42.3	22.9	32.6	58	6	18	20	21	67	50	54	.098	.104	.110	1.51	.52	6.1	5.4	5.9	6.1
April	23.862	24.100	23.450	33.2	45.0	44.3	49.5	29.7	39.6	65	19	24	24	26	69	49	53	.128	.131	.141	4.79	3.20	5.0	6.0	7.2	6.1
May	23.998	24.290	23.480	39.8	54.9	55.5	59.6	36.4	48.0	75	24	33	32	34	78	46	49	.190	.182	.201	1.46	.36	5.6	6.2	6.5	6.4
June	24.023	24.250	23.620	51.2	68.7	68.9	74.0	46.9	60.4	91	34	39	39	39	66	38	40	.244	.248	.246	.72	.49	5.2	4.2	5.3	5.0
July	24.131	24.280	23.900	59.1	77.9	74.5	81.7	55.3	68.5	90	42	48	44	48	68	31	42	.341	.296	.342	2.05	.68	4.3	3.8	7.0	5.1
August	24.168	24.310	24.006	59.1	76.1	74.3	80.4	56.4	68.4	90	49	48	46	48	69	37	42	.334	.321	.338	1.80	.69	4.3	4.5	6.2	5.1
September	24.047	24.240	23.819	45.4	59.8	58.0	64.3	41.6	53.0	89	28	36	38	40	80	52	58	.241	.234	.254	1.81	.56	5.3	5.2	5.4	5.5
October	24.077	24.390	23.527	39.1	54.3	50.1	57.9	34.9	46.4	78	12	27	27	28	65	40	48	.155	.152	.160	1.47	.39	3.8	4.1	4.3	4.3
November	24.037	24.310	23.640	24.6	32.7	27.3	36.5	17.0	26.8	55	−4	15	18	18	66	54	66	.086	.099	.098	1.53	.48	4.9	4.6	4.9	5.2
December	23.993	24.270	23.640	30.0	40.0	33.3	43.4	23.2	33.3	60	−2	13	16	17	49	40	52	.079	.091	.094	.11	.07	2.7	5.1	3.8	4.8
Year	23.986	24.390	23.250	36.9	49.8	47.1	54.1	31.9	43.0	91	−15	27	27	28	68	45	52	.168	.167	.177	18.42	3.20	4.8	5.1	5.6	5.5

Annual meteorological summary for the year ending December 31, 1929—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 and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: 1 in. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	9.2	SW.	32	NW.	0	10	11	3	0	4	16	9	9	0	12	10	9	6	5	0	0	0	6	0	0	0	1	0
February	9.0	NE.	24	NE.	0	10	15	6	4	4	7	2	8	0	5	6	17	12	11	0	0	0	1	0	0	2	2	0
March	11.6	SW.	37	W.	1	7	7	10	2	14	11	6	5	0	9	13	9	10	7	0	0	0	6	0	0	0	2	0
April	9.6	SW.	28	NW.	0	3	6	8	3	8	16	8	8	0	10	10	10	10	8	0	0	0	0	0	0	0	8	0
May	9.6	S.	36	S.	1	4	6	10	4	17	13	7	1	0	10	13	8	9	8	0	0	1	0	0	0	0	9	0
June	7.9	S.	36	NW.	1	7	7	2	6	18	9	8	3	0	6	13	11	11	8	0	0	1	0	0	3	0	13	0
July	7.8	SW.	24	W.	0	6	5	6	6	13	15	6	5	0	5	18	8	12	9	0	0	0	0	0	5	0	10	0
August	7.8	SW.	22	E.	0	8	12	5	3	4	14	10	6	0	5	16	10	10	9	0	0	0	0	0	8	0	14	0
September	10.3	E.	26	NE.	0	10	16	15	6	8	3	1	1	0	4	10	16	14	11	0	0	0	0	0	0	0	6	0
October	10.4	NE.	36	S.	2	8	22	4	0	4	8	10	6	0	16	10	5	4	2	0	0	0	1	0	0	0	0	0
November	9.0	NE.	25	NE.	0	6	18	5	2	9	7	7	6	0	11	6	13	9	7	0	0	0	1	0	0	1	0	0
December	8.1	W.	38	E.	1	8	9	3	0	4	13	16	9	0	14	6	11	6	6	0	0	0	4	0	0	6	2	0
Year	9.2	SW.	38	E.	6	87	134	77	36	107	132	90	67	0	107	131	127	113	91	0	0	2	13	0	16	9	65	0

CHARLOTTE, N. C.

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

January	5.2	NE.	24	W.	0	7	18	6	5	2	13	5	5	1	10	5	16	10	9	0	0	0	5	0	0	16	0	0
February	4.5	NE.	17	NW.	0	11	14	10	2	5	7	4	3	0	8	7	13	11	10	3	1	0	5	0	0	15	3	0
March	6.2	SW.	33	NW.	1	5	7	5	5	12	15	3	10	0	9	12	10	13	12	0	0	0	1	0	0	4	5	0
April	5.2	SW.	21	SW.	0	5	5	3	2	10	22	5	8	0	12	10	8	9	7	0	0	0	0	0	0	0	5	0
May	4.0	SW.	24	W.	0	2	14	2	6	13	19	3	0	3	7	11	13	12	9	0	0	0	0	0	0	0	11	0
June	3.6	SW.	18	NW.	0	8	10	4	1	11	19	5	2	0	7	15	8	13	11	0	0	1	0	0	9	0	9	0
July	3.3	SW.	28	NW.	0	4	9	6	6	11	15	7	3	1	3	18	10	15	10	0	0	0	0	0	0	16	0	12
August	3.2	NE.	21	NW.	0	7	19	3	9	6	3	6	2	7	8	17	6	10	8	0	0	0	5	0	0	9	0	7
September	4.0	NE.	15	N.	0	7	21	6	6	12	1	0	1	6	8	8	14	14	12	0	0	0	3	0	2	0	3	0
October	4.4	NE.	21	N.	0	13	15	4	3	6	6	6	2	7	16	7	8	8	6	0	0	0	1	0	0	0	2	0
November	4.6	S.	15	SW.	0	11	11	1	5	10	12	9	5	5	9	3	18	15	12	1	0	0	2	1	0	4	1	0
December	4.8	S.	21	W.	0	9	9	1	4	20	12	3	1	3	15	5	11	7	5	1	1	0	7	1	0	13	1	0
Year	4.4	SW.	33	NW.	1	89	152	51	54	118	144	47	42	33	112	118	135	137	111	5	2	1	29	2	36	52	59	0

CHATTANOOGA, TENN.

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

January	8.2	SW.	36	SE.	3	7	11	3	13	3	13	4	8	0	10	8	13	13	13	2	0	0	3	0	0	17	0	0
February	6.2	NE.	25	NW.	0	8	16	1	4	0	10	4	13	0	7	7	14	13	12	2	0	0	3	0	0	13	1	0
March	8.8	SE.	34	NW.	1	4	7	0	16	6	16	3	10	0	8	9	14	17	15	1	1	0	0	0	0	3	3	0
April	8.2	SW.	43	SE.	2	3	8	1	10	7	17	6	8	0	6	13	11	14	13	0	0	1	0	0	0	0	7	0
May	6.9	SE.	34	SW.	1	8	9	1	19	2	16	2	5	0	4	14	13	15	13	0	0	2	0	0	2	0	14	0
June	5.6	SW.	30	NW.	0	5	9	1	10	3	12	7	13	0	8	14	8	12	11	0	0	0	0	0	5	0	11	0
July	5.5	SW.	35	NW.	1	3	11	1	5	2	25	8	7	0	4	21	6	13	9	0	0	0	0	0	7	0	11	0
August	5.9	NE.	22	NW.	0	8	19	1	5	1	14	6	7	1	15	15	1	1	1	0	0	0	0	0	10	0	4	0
September	5.1	NE.	21	SE.	0	13	16	1	13	4	9	2	0	2	5	14	11	10	10	0	0	0	0	0	2	0	6	0
October	6.9	SW.	25	NW.	0	7	11	0	11	2	16	5	8	2	14	6	11	9	8	0	0	0	3	0	0	0	0	0
November	7.0	NE.	26	SE.	0	3	12	1	13	6	10	5	9	1	8	5	17	16	15	1	1	0	1	1	0	5	0	0
December	6.3	SW.	27	NW.	0	2	4	0	11	6	18	12	6	3	13	8	10	11	8	6	4	0	10	6	0	14	0	0
Year	6.7	SW.	43	SE.	8	71	133	11	130	42	176	64	94	9	102	134	129	144	128	12	6	3	20	7	26	52	57	0

CHEYENNE, WYO.

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

January	13.0	W.	49	W.	15	7	4	2	1	7	15	17	9	0	9	9	13	10	4	14	10	0	2	14	0	31	0	0
February	11.3	W.	44	W.	6	9	0	2	2	4	6	21	12	0	8	5	15	12	8	17	12	0	0	18	0	28	0	0
March	14.8	W.	44	W.	11	6	3	1	3	3	6	19	21	0	10	5	16	13	8	16	13	0	1	7	0	30	0	0
April	12.6	W.	48	SW.	7	6	2	3	4	8	3	19	15	0	7	10	13	8	7	8	6	0	1	1	0	16	1	0
May	11.1	S.	39	W.	4	10	6	6	4	14	2	11	9	0	7	8	16	10	9	3	3	2	0	0	0	9	5	0
June	10.7	S.	45	W.	2	5	4	2	5	15	4	17	8	0	12	10	8	7	4	0	0	3	2	0	1	9	9	0
July	8.5	S.	38	W.	1	7	4	3	7	8	9	15	9	0	7	18	6	8	8	0	0	1	0	0	0	0	13	0
August	8.3	S.	34	SW.	1	2	4	6	3	10	7	14	16	0	10	13	8	10	7	0	0	1	1	0	1	0	10	0
September	8.7	W.	41	W.	1	10	5	3	6	12	3	13	8	0	10	10	10	13	8	4	4	0	7	0	0	6	4	0
October	10.3	W.	28	SE.	0	14	1	1	5	4	7	14	15	1	15	8	8	10	7	6	5	1	2	3	0	9	1	0
November	12.5	W.	42	W.	7	11	3	1	1	1	8	18	17	0	11	8	11	11	9	13	10	0	1	12	0	29	0	0
December	12.9	W.	52	W.	10	4	0	0	1	5	10	31	11	0	11	13	7	2	2	5	2	0	0	6	0	20	0	0
Year	11.2	W.	52	W.	65	91	36	30	42	91	80	209	150	1	117	117	131	114	81	86	65	8	17	61	2	178	43	0

Annual meteorological summary for the year ending December 31, 1929—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 Mean: Monthly	Temperature Extremes: Maximum	Temperature Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.333	29.830	28.470	14.9	19.6	19.4	25.7	9.4	17.6	43	−9	9	12	13	76	71	74	0.074	0.083	0.085	3.93	1.01	6.6	6.2	4.6	6.1
February	29.372	29.870	28.690	16.7	24.4	23.8	28.4	14.8	21.6	47	−2	13	17	18	82	70	75	.085	.097	.101	.54	.20	6.0	6.3	6.0	6.7
March	29.184	29.866	28.390	38.4	45.4	44.2	51.8	34.7	43.2	71	9	31	33	34	75	62	67	.189	.197	.205	5.23	3.12	6.4	5.8	5.5	6.1
April	29.179	29.560	28.510	46.7	53.8	51.7	57.7	44.5	51.1	84	31	39	40	41	75	60	68	.257	.266	.282	4.79	2.21	6.2	6.5	6.1	6.4
May	29.337	29.790	28.770	53.1	60.6	59.1	65.1	48.5	56.8	90	35	45	44	45	74	56	63	.332	.323	.345	2.29	.95	5.5	6.1	6.0	6.4
June	29.249	29.540	28.860	60.4	68.1	66.2	72.2	56.6	64.4	90	45	53	54	53	78	63	64	.425	.432	.422	4.96	2.89	5.2	6.6	5.4	5.9
July	29.306	29.610	29.023	69.1	78.7	76.4	82.0	65.6	73.8	93	55	61	61	62	75	56	62	.545	.550	.563	2.18	.83	4.6	5.3	5.3	5.2
August	29.325	29.580	28.900	65.3	74.9	71.5	77.7	63.4	70.6	93	54	58	58	59	77	58	65	.488	.503	.505	3.49	1.71	3.7	4.9	4.9	4.8
September	29.349	29.650	28.940	59.7	69.1	65.7	72.0	57.3	64.6	91	42	53	53	52	79	58	64	.420	.420	.411	3.03	2.12	5.5	4.3	3.7	4.9
October	29.317	29.760	28.759	48.7	56.5	54.8	59.4	46.8	53.1	77	34	41	42	43	76	62	67	.264	.286	.288	3.06	1.04	5.5	5.7	5.2	5.6
November	29.354	29.890	28.680	32.8	39.6	38.1	41.9	30.7	36.3	54	1	27	27	28	78	61	67	.163	.164	.170	1.47	1.02	6.0	5.5	5.4	6.0
December	29.290	29.790	28.790	25.9	30.6	30.8	33.7	23.5	28.6	47	1	23	25	26	87	79	80	.130	.141	.145	1.84	.90	8.1	7.5	7.7	8.2
Year	29.300	29.890	28.390	44.3	51.8	50.1	55.6	41.3	48.5	93	−9	38	39	40	78	63	68	.281	.288	.294	36.81	3.12	5.8	5.9	5.5	6.0

CINCINNATI, OHIO

[ϕ=39° 09′ N.; λ=84° 31′ 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	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.417	29.860	28.490	25.4	29.1	29.4	38.4	20.0	29.2	70	−1	22	22	24	87	73	79	0.133	0.129	0.144	4.60	1.49	7.0	6.2	5.3	7.0
February	29.440	29.910	28.970	22.2	31.3	30.8	36.1	19.6	27.8	60	−5	20	23	23	92	71	73	.120	.132	.131	1.58	.96	6.0	5.7	6.0	6.3
March	29.293	29.930	28.620	42.4	51.9	53.2	58.5	39.8	49.2	88	16	37	38	38	81	62	58	.247	.255	.253	2.51	.94	6.3	6.0	5.4	6.0
April	29.262	29.720	28.600	51.5	61.3	58.9	66.6	46.7	56.6	85	33	43	42	42	73	53	58	.294	.293	.286	3.98	1.83	6.0	5.6	5.8	5.9
May	29.397	29.790	28.443	56.8	65.7	62.8	70.2	51.1	60.6	90	35	51	51	52	81	61	69	.396	.404	.410	7.74	1.85	5.9	6.3	6.3	6.4
June	29.317	29.530	29.010	64.5	76.2	72.1	80.0	58.8	69.4	90	40	58	57	58	79	54	63	.490	.480	.498	4.98	1.83	4.5	4.5	4.2	4.7
July	29.394	29.600	29.130	69.4	81.5	77.0	84.7	64.2	74.4	91	50	63	61	62	80	56	63	.581	.600	.578	4.54	1.38	4.4	4.3	4.3	4.5
August	29.374	29.620	29.030	64.4	78.4	74.4	81.9	60.2	71.0	90	50	59	58	57	82	52	56	.509	.504	.478	1.80	1.12	4.3	4.2	2.8	3.9
September	29.403	29.670	29.150	60.1	74.2	68.9	76.8	57.4	67.1	92	39	57	57	57	89	58	68	.484	.498	.499	5.17	1.65	5.2	4.5	4.6	5.0
October	29.390	29.820	28.734	47.3	60.2	56.4	63.5	44.7	54.1	78	32	43	44	44	85	58	65	.282	.298	.297	3.24	1.52	5.8	5.7	5.8	5.8
November	29.429	29.890	28.785	36.8	44.2	41.9	47.7	33.8	40.8	68	1	33	34	35	85	69	76	.204	.220	.225	4.19	1.59	6.1	6.7	5.6	6.5
December	29.395	29.910	28.750	31.6	38.6	36.6	41.1	27.7	34.4	64	1	28	30	31	88	78	81	.176	.188	.196	2.43	1.05	6.7	7.0	7.3	7.2
Year	29.376	29.930	28.443	47.7	57.6	55.2	62.1	43.7	52.9	92	−5	43	43	44	84	62	67	.327	.333	.333	46.76	1.85	5.7	5.6	5.3	5.8

CLEVELAND, OHIO

[ϕ=41° 30′ N.; λ=81° 42′ 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	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.217	29.760	28.220	22.2	25.3	25.1	33.1	16.9	25.0	61	−4	18	17	18	82	70	74	0.108	0.107	0.110	5.23	2.08	8.1	7.9	7.3	7.8
February	29.266	29.700	28.760	22.3	26.8	27.5	31.0	19.3	25.2	57	1	18	19	20	83	72	74	.105	.110	.113	1.98	.83	7.9	7.4	8.1	7.9
March	29.107	29.720	28.190	39.5	45.6	46.1	52.7	34.4	43.6	80	13	31	32	35	73	61	66	.189	.199	.224	3.54	.61	7.3	6.6	6.2	6.9
April	29.089	29.550	28.420	47.7	52.4	52.0	58.3	42.9	50.6	84	30	40	38	40	75	62	66	.260	.251	.260	5.26	1.80	6.3	7.2	7.1	7.1
May	29.239	29.730	28.180	54.0	57.8	58.7	64.5	48.4	56.4	87	34	44	44	46	71	63	63	.316	.318	.333	3.41	.78	5.8	5.8	6.5	5.7
June	29.157	29.380	28.752	62.8	68.5	69.0	73.7	57.9	65.8	87	44	53	54	53	72	62	58	.425	.435	.420	4.17	1.75	5.4	5.8	5.3	5.3
July	29.228	29.540	28.910	69.4	74.9	75.0	79.7	65.3	72.5	91	55	58	58	59	68	59	58	.498	.514	.511	6.30	2.22	4.7	4.5	4.4	4.8
August	29.222	29.520	28.820	64.6	70.0	71.1	74.4	61.7	68.0	86	53	54	55	54	69	60	56	.426	.442	.431	1.98	1.00	6.1	5.5	4.9	5.5
September	29.272	29.600	28.940	61.4	69.0	67.3	72.6	58.5	65.6	90	44	52	52	53	72	58	63	.411	.423	.434	1.62	.67	5.4	5.0	5.4	5.2
October	29.208	29.792	28.380	49.4	55.3	54.3	58.5	45.9	52.2	73	34	40	40	40	70	59	62	.255	.260	.264	2.68	1.30	6.6	6.6	5.4	6.6
November	29.215	29.680	28.480	37.4	40.8	40.2	44.5	34.2	39.4	68	4	31	31	32	78	69	71	.189	.190	.193	2.92	.70	6.6	7.4	5.7	7.5
December	29.180	29.680	28.650	29.3	32.5	32.6	38.0	26.0	32.0	61	7	25	26	26	82	76	75	.139	.150	.154	2.68	.79	8.5	8.9	7.5	8.8
Year	29.200	29.792	28.180	46.7	51.6	51.6	56.8	42.6	49.7	91	−4	39	39	40	75	64	66	.277	.283	.287	41.77	2.22	6.6	6.6	6.2	6.6

COLUMBIA, MO.

[ϕ=38° 57′ N.; λ=92° 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 Mean: Maximum	Temperature Mean: Minimum	Temperature Mean: Monthly	Temperature Extremes: Maximum	Temperature Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.248	29.710	28.450	19.9	26.1	-----	33.5	13.5	23.5	63	0	16	19	---	83	73	---	0.098	0.116	-----	2.09	0.98	5.9	5.7	-----	6.0
February	29.286	29.760	28.580	18.9	28.1	-----	33.7	17.0	25.4	56	−5	15	18	---	85	66	---	.092	.107	-----	1.03	.74	6.1	6.8	-----	6.4
March	29.077	29.720	28.520	40.7	53.8	-----	59.5	37.5	48.5	89	19	34	36	---	79	54	---	.214	.232	-----	4.05	1.95	5.3	5.6	-----	6.1
April	29.040	29.470	28.500	51.0	62.2	-----	66.6	48.4	57.5	88	33	44	46	---	78	58	---	.304	.328	-----	5.74	1.80	5.9	6.2	-----	6.2
May	29.198	29.560	28.790	55.7	66.5	-----	70.3	51.7	61.0	88	36	50	53	---	83	64	---	.393	.432	-----	11.98	3.16	6.5	6.4	-----	6.7
June	29.113	29.356	28.750	65.6	77.3	-----	80.3	62.0	71.2	92	48	61	62	---	85	61	---	.547	.573	-----	7.49	1.75	5.6	5.4	-----	4.9
July	29.194	29.380	28.970	71.4	84.2	-----	87.2	68.4	77.8	94	56	66	69	---	83	62	---	.644	.730	-----	1.49	.49	5.0	6.0	-----	5.3
August	29.196	29.380	28.880	67.8	84.2	-----	87.7	65.6	76.6	100	50	62	62	---	81	48	---	.562	.563	-----	.40	.12	4.9	4.2	-----	4.2
September	29.206	29.520	28.880	59.9	73.1	-----	76.3	57.5	66.9	96	44	54	55	---	83	57	---	.439	.458	-----	3.08	1.54	5.0	5.0	-----	4.9
October	29.208	29.520	28.840	49.4	62.5	-----	67.1	47.8	57.4	82	32	44	46	---	84	58	---	.305	.324	-----	6.96	3.25	4.1	4.7	-----	4.6
November	29.290	29.810	28.840	32.9	42.1	-----	46.3	29.9	38.1	68	−3	28	29	---	82	60	---	.165	.171	-----	1.23	.44	5.8	5.8	-----	5.9
December	29.237	29.730	28.920	30.4	37.9	-----	43.0	25.7	34.4	68	0	27	30	---	85	75	---	.169	.190	-----	.88	.44	5.1	6.5	-----	6.5
Year	29.191	29.810	28.450	47.0	58.2	-----	62.6	43.8	53.2	100	−5	42	44	---	83	61	---	.328	.352	-----	46.40	3.25	5.4	5.7	-----	5.6

Annual meteorological summary for the year ending December 31, 1929—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: Number of winds, 8 a. m. and 8 p. m.: Days with 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	10.8	NW.	34	SW.	1	3	1	6	5	7	9	18	13	0	8	7	16	16	11	20	13	0	1	22	0	31	0	0
February	8.4	W.	33	SW.	1	4	8	8	5	1	6	16	8	0	5	8	15	11	4	14	9	0	0	18	0	26	0	0
March	11.7	SW.	39	NW.	3	7	12	1	4	11	12	12	3	0	7	12	12	9	6	7	3	1	1	2	0	9	3	0
April	11.6	NE.	37	SW.	1	10	13	6	2	12	7	7	3	0	9	6	15	14	13	4	9	1	0	0	0	1	7	0
May	9.9	SW.	35	SW.	2	7	8	7	6	7	9	12	6	0	7	9	15	8	6	0	0	0	0	0	0	0	4	0
June	8.8	NE.	37	SE.	1	6	13	7	4	12	5	7	6	0	9	8	13	9	6	0	0	2	0	0	0	0	9	0
July	7.5	SW.	27	N.	0	7	5	7	7	6	14	13	3	0	11	9	11	10	9	0	0	0	0	0	4	0	7	0
August	7.9	NE.	24	SW.	0	4	16	5	3	9	12	6	7	0	12	12	7	7	5	0	0	1	0	0	1	0	5	0
September	8.6	S.	25	SW.	0	2	16	4	6	13	10	5	3	1	11	8	11	8	7	0	0	0	0	0	2	0	4	0
October	10.9	SW.	34	NW.	1	3	9	4	13	6	9	9	9	0	12	5	14	12	11	2	2	0	1	0	0	0	0	0
November	9.8	SW.	28	NE.	0	0	7	2	4	2	20	6	19	0	11	4	15	7	4	7	1	0	0	5	0	11	0	0
December	10.1	W.	39	NE.	1	5	5	2	8	5	11	17	9	0	4	3	24	14	8	15	11	0	2	11	0	22	0	0
Year	9.7	SW.	39	NW.	11	58	113	59	67	91	124	128	89	1	106	91	168	125	90	69	39	5	5	58	7	100	39	0

CINCINNATI, OHIO

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

January	8.2	SW.	38	SW.	1	6	10	5	3	8	14	8	8	0	7	7	17	16	13	14	7	1	2	14	0	29	1	0
February	5.8	SW.	24	SW.	0	5	10	3	3	8	12	11	4	0	7	9	12	9	7	11	6	0	0	10	0	22	1	0
March	8.4	SW.	37	NW.	1	4	7	1	2	23	17	3	5	0	6	14	11	14	11	5	1	0	0	0	0	8	2	0
April	9.0	SW.	36	SW.	1	5	10	2	2	14	14	6	7	0	9	8	13	13	11	0	0	2	0	0	0	0	6	0
May	6.0	SW.	27	SW.	0	7	13	6	3	5	19	2	7	0	8	8	15	16	12	1	0	0	0	0	1	0	9	0
June	5.2	SW.	23	NE.	0	10	10	2	4	12	12	5	5	0	10	12	8	12	11	0	0	1	0	0	1	0	12	0
July	4.9	SW.	23	SW.	0	4	20	3	1	12	14	6	2	0	11	15	5	13	9	0	0	0	0	0	3	0	13	0
August	4.5	NE.	22	NW.	0	9	18	5	3	4	9	5	7	2	15	9	7	8	6	0	0	0	0	0	2	0	6	0
September	4.6	NE.	20	SE.	0	5	24	5	2	9	7	6	2	0	12	8	10	12	10	0	0	0	3	0	3	0	6	0
October	6.7	SW.	26	SW.	0	8	11	3	7	8	15	2	7	1	10	9	12	12	10	2	1	0	3	0	0	0	2	0
November	6.9	SW.	31	SW.	0	3	12	2	2	7	19	9	5	1	9	5	16	16	8	4	2	0	5	3	0	11	1	0
December	8.1	SW.	23	SW.	0	2	8	1	1	15	26	3	6	0	7	5	19	16	13	11	9	0	3	9	0	18	0	0
Year	6.5	SW.	38	SW.	3	68	153	38	33	125	178	66	65	4	111	109	145	157	121	48	26	4	16	36	10	88	59	0

CLEVELAND, OHIO

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

January	14.7	W.	50	W.	10	2	3	3	9	8	11	22	4	0	1	10	20	22	14	22	14	0	1	17	0	30	2	0
February	9.3	W.	31	SE.	0	1	5	0	9	6	11	15	8	1	1	6	21	11	6	21	9	0	0	16	0	25	0	0
March	13.4	SW.	64	W.	4	6	3	1	4	17	19	6	6	0	5	11	15	17	17	6	3	1	3	0	0	11	5	0
April	13.1	SW.	60	SW.	5	6	10	2	4	8	15	11	4	0	3	11	16	14	13	1	0	0	1	0	0	2	7	0
May	10.1	SW.	40	W.	2	8	10	2	4	7	11	14	6	0	7	16	8	14	12	1	1	0	1	0	0	0	3	0
June	9.6	S.	42	S.	2	9	11	0	4	10	14	7	5	0	9	13	8	10	7	0	0	0	1	0	0	0	8	0
July	10.8	S.	39	SW.	5	6	7	2	5	17	9	12	4	0	14	8	9	12	10	0	0	0	0	0	1	0	11	0
August	10.6	N.	47	NW.	3	13	11	0	8	7	9	9	5	0	7	15	9	7	6	0	0	0	0	0	0	0	4	0
September	10.6	S.	35	W.	2	9	7	9	6	15	4	7	3	0	13	4	13	12	9	0	0	0	0	0	0	0	1	0
October	15.0	SW.	46	NW.	13	10	5	4	8	11	13	4	7	0	6	10	15	11	10	3	1	1	1	0	0	0	3	0
November	13.4	SW.	42	SW.	7	3	5	2	5	13	21	8	3	0	5	4	21	14	11	9	5	1	9	5	0	10	1	0
December	14.2	SW.	44	S.	6	3	4	2	6	19	14	14	0	0	2	2	27	15	10	14	9	0	3	10	0	23	0	0
Year	12.1	SW.	64	W.	59	76	81	27	72	138	151	129	55	1	73	110	182	159	125	77	42	3	11	48	1	101	45	0

COLUMBIA, MO.

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

January	8.5	E.	33	N.	1	5	3	6	5	3	3	2	4	0	9	9	13	9	9	10	2	0	1	17	0	30	0	0
February	6.8	E.	23	SW.	0	3	1	6	3	4	2	3	6	0	7	6	15	9	4	11	6	0	0	13	0	26	1	0
March	8.2	S.	36	NW.	1	3	2	1	5	10	3	2	5	0	9	10	12	8	6	2	1	0	1	0	0	9	2	0
April	9.1	S.	35	S.	2	2	5	5	2	8	3	3	2	0	9	8	13	14	12	0	0	3	0	0	0	0	8	0
May	6.8	E.	26	N.	0	1	6	6	6	4	3	1	2	2	6	8	17	18	17	0	0	1	2	0	0	0	10	0
June	5.9	S.	27	NW.	0	2	6	2	3	7	2	4	3	1	11	10	9	14	13	0	0	0	0	0	3	0	13	0
July	5.0	SW.	19	NW.	0	3	6	4	4	5	8	0	1	0	8	15	8	11	9	0	0	0	0	0	13	0	11	0
August	5.5	NE.	25	SW.	0	2	5	7	5	6	3	0	1	2	14	12	5	6	4	0	0	0	0	0	12	0	9	0
September	5.6	SE.	27	SW.	0	3	6	2	9	7	1	0	2	0	13	7	10	9	7	0	0	0	2	0	4	0	6	0
October	6.5	SW.	20	NW.	0	4	5	6	3	3	5	3	2	0	14	8	9	11	8	1	1	0	2	0	0	1	3	0
November	7.1	NW.	34	W.	1	0	6	2	1	7	5	4	5	0	9	7	14	6	3	3	1	0	0	3	0	12	0	0
December	6.8	SW.	24	N.	0	2	1	1	3	5	11	3	5	0	7	10	14	10	5	7	4	0	5	7	0	18	1	0
Year	6.8	S.	36	NW.	5	30	52	48	49	69	49	25	38	5	116	110	139	125	97	34	15	4	13	40	32	96	64	0

Annual meteorological summary for the year ending December 31, 1929—Continued

COLUMBIA, S. C.

[ϕ=34° 00′ N.; λ=81° 03′ W.]

Month	Pressure			Temperature								Moisture														
	Monthly mean	Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
		Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.743	30.200	29.290	41.4	51.3	50.0	57.4	38.9	48.2	74	26	37	38	38	84	62	66	0.242	0.251	0.252	2.82	0.89	4.6	4.5	4.6	5.5
February	29.713	30.110	29.270	40.4	49.8	48.7	54.6	38.0	46.3	75	26	37	39	39	87	69	71	.243	.265	.259	6.96	1.89	5.9	6.4	4.9	6.5
March	29.674	30.190	28.980	52.6	63.0	61.8	68.6	49.2	58.9	91	31	48	47	47	86	60	62	.370	.361	.351	5.27	1.89	5.3	5.1	3.9	4.9
April	29.617	30.160	28.950	59.0	71.8	68.2	76.1	55.3	65.7	89	42	54	54	51	85	55	57	.435	.428	.392	4.20	1.02	4.5	5.2	3.4	5.0
May	29.737	30.150	28.930	65.7	76.2	71.6	80.4	60.8	70.6	88	47	61	62	61	85	62	70	.554	.572	.546	5.49	1.83	5.5	5.4	4.8	5.3
June	29.622	29.860	29.320	71.4	81.4	76.3	85.9	66.5	76.2	95	52	66	65	65	85	59	70	.659	.625	.625	4.24	1.06	4.8	4.6	6.0	4.7
July	29.714	29.940	29.450	74.1	84.1	78.6	88.2	69.8	79.0	96	61	69	67	67	85	57	69	.714	.663	.672	7.62	2.63	4.6	4.6	6.1	4.8
August	29.634	29.940	29.360	73.3	85.0	79.0	88.9	70.2	79.6	97	60	68	66	67	83	53	68	.685	.639	.669	6.05	1.71	3.7	3.5	5.8	4.2
September	29.689	29.910	29.440	68.1	78.0	73.4	81.5	66.1	73.8	92	49	64	64	65	88	64	76	.627	.618	.633	3.27	1.36	7.4	6.4	5.4	6.4
October	29.689	30.160	29.020	55.2	68.2	63.6	72.1	52.4	62.2	82	41	50	48	51	82	52	65	.369	.360	.387	5.62	4.42	3.7	4.0	2.6	3.9
November	29.744	30.050	29.280	50.6	59.5	56.1	62.8	47.9	55.4	84	19	46	44	46	84	59	69	.346	.327	.346	2.06	.65	6.0	5.8	5.3	6.1
December	29.784	30.190	29.130	39.7	50.8	49.0	56.6	37.5	47.0	77	19	34	34	37	81	57	65	.218	.227	.246	3.97	1.27	4.0	4.4	3.7	4.7
Year	29.697	30.200	28.930	57.6	68.3	64.7	72.8	54.4	63.6	97	19	53	52	53	85	59	67	.455	.445	.448	57.57	4.42	5.0	5.0	4.7	5.2

COLUMBUS, OHIO

[ϕ=39° 58′ N.; λ=83° 00′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon	8 p. m.	8 a. m.	Noon	8 p. m.	8 a. m.	Noon	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon	8 p. m.	Daylight
January	29.192	29.670	28.350	24.6	27.2	27.5	36.1	19.3	27.7	67	0	20	20	22	80	72	78	0.119	0.118	0.128	3.54	0.72	7.2	6.9	6.2	7.4
February	29.223	29.670	28.830	21.3	28.4	29.6	33.9	18.5	26.2	59	−2	19	21	23	90	74	77	.112	.121	.130	3.36	2.06	6.1	6.5	5.8	6.4
March	29.088	29.680	28.370	40.9	49.4	50.5	55.9	38.8	47.4	84	16	35	36	39	80	63	66	.224	.239	.268	1.76	.44	6.3	6.2	5.5	6.1
April	29.060	29.520	28.400	48.4	57.8	57.5	63.9	44.9	54.4	83	30	42	42	43	78	59	61	.279	.290	.299	3.71	1.65	5.9	6.8	6.9	6.5
May	29.202	29.634	28.230	55.3	63.8	62.6	68.8	50.6	59.7	89	33	47	49	51	74	60	68	.350	.373	.412	4.55	1.26	5.2	6.0	6.0	5.6
June	29.127	29.340	28.810	63.4	73.9	72.8	78.5	58.9	68.7	92	41	56	56	59	78	56	64	.463	.468	.514	4.76	1.25	4.5	4.7	4.7	4.5
July	29.200	29.440	28.910	68.3	79.9	78.0	83.7	64.7	74.2	92	50	60	60	62	76	51	59	.539	.528	.566	2.91	.84	5.0	4.2	4.4	4.5
August	29.185	29.440	28.860	63.3	75.0	73.3	78.8	60.2	69.5	88	52	56	55	56	77	51	57	.459	.442	.469	3.78	1.66	4.5	4.6	4.5	4.2
September	29.224	29.500	28.950	59.9	71.7	68.3	75.4	57.2	66.3	91	40	54	55	57	83	58	68	.452	.470	.492	2.28	.56	4.7	4.9	4.9	5.0
October	29.186	29.650	28.450	47.0	57.8	55.5	61.4	44.8	53.1	76	35	41	42	46	81	60	73	.269	.281	.322	4.09	1.81	5.2	5.6	5.9	5.8
November	29.210	29.660	28.500	36.1	42.0	40.9	46.2	33.6	39.9	67	1	32	32	35	86	69	78	.201	.205	.222	3.72	1.23	6.5	7.1	5.2	6.7
December	29.172	29.650	28.620	30.7	34.3	34.7	38.9	27.3	33.1	59	8	27	27	30	84	75	83	.159	.165	.187	3.81	1.43	8.6	7.0	7.1	8.0
Year	29.172	29.680	28.230	46.6	55.1	54.3	60.1	43.2	51.7	92	−2	41	41	44	81	62	69	.302	.308	.334	42.27	2.06	5.8	5.9	5.6	5.9

CONCORD, N. H.

[ϕ=43° 12′ N.; λ=71° 32′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon	8 p. m.	8 a. m.	Noon	8 p. m.	8 a. m.	Noon	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon	8 p. m.	Daylight
January	29.620	30.450	28.730	17.9	24.5	-----	29.8	11.9	20.8	56	−16	13	16	---	81	68	---	0.090	0.096	-----	3.00	0.73	4.6	5.5	----	4.6
February	29.768	30.160	29.250	17.8	28.7	-----	33.5	13.0	23.2	53	−13	15	20	---	87	69	---	.093	.112	-----	3.70	1.20	5.7	5.6	----	5.1
March	29.565	30.090	28.490	31.7	40.0	-----	44.9	26.3	35.6	63	3	26	28	---	78	64	---	.150	.161	-----	3.78	1.16	6.1	6.4	----	5.3
April	29.585	30.050	28.660	41.0	48.8	-----	52.5	33.5	43.0	80	22	33	36	---	75	64	---	.197	.223	-----	3.40	1.04	7.1	7.4	----	6.3
May	29.708	30.220	28.700	54.5	66.3	-----	70.7	42.7	56.7	95	29	46	49	---	74	56	---	.332	.379	-----	4.30	1.63	4.2	5.3	----	4.3
June	29.607	29.857	29.180	63.3	73.3	-----	77.3	51.9	64.6	92	37	55	59	---	75	63	---	.448	.522	-----	1.72	.40	4.2	5.1	----	4.5
July	29.688	30.113	29.250	66.8	77.6	-----	81.8	54.3	68.0	95	42	58	56	---	75	51	---	.503	.475	-----	1.10	.47	4.2	4.2	----	3.9
August	29.650	29.983	29.008	61.4	73.0	-----	76.7	52.6	64.6	88	41	51	56	---	79	56	---	.433	.452	-----	3.00	1.27	4.3	5.5	----	4.5
September	29.801	30.322	29.360	55.0	68.7	-----	72.5	48.0	60.2	93	30	51	54	---	87	62	---	.395	.445	-----	2.23	1.43	6.4	6.2	----	6.0
October	29.692	30.345	28.880	43.5	55.2	-----	58.7	37.5	48.1	76	23	38	41	---	80	60	---	.239	.276	-----	2.06	.97	5.8	5.9	----	5.5
November	29.690	30.211	28.780	33.7	43.1	-----	46.3	29.0	37.6	70	7	30	35	---	87	74	---	.183	.220	-----	2.37	.94	6.7	6.6	----	7.2
December	29.681	30.400	29.010	23.1	29.5	-----	32.4	18.6	25.5	45	−2	20	22	---	85	74	---	.111	.123	-----	2.17	.58	6.9	6.2	----	6.2
Year	29.671	30.450	28.490	42.5	52.4	-----	56.4	34.9	45.7	95	−16	37	39	---	80	63	---	.264	.290	-----	32.83	1.63	5.5	5.8	----	5.3

CONCORDIA, KANS.

[ϕ=39° 35′ N.; λ=97° 41′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon	8 p. m.	8 a. m.	Noon	8 p. m.	8 a. m.	Noon	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon	8 p. m.	Daylight
January	28.614	29.060	27.870	15.9	22.7	22.8	29.4	11.9	20.6	51	−1	11	14	14	79	67	68	0.076	0.084	0.086	0.78	0.38	6.2	6.3	4.5	6.2
February	28.624	29.000	28.152	16.5	27.2	25.8	31.7	13.6	22.6	58	−10	13	17	18	84	65	71	.085	.101	.104	0.94	.44	4.8	5.8	6.4	5.9
March	28.430	29.040	27.800	37.1	51.0	49.9	56.9	35.3	46.1	73	22	29	31	31	74	48	50	.164	.177	.177	.06	.03	7.5	6.5	6.0	6.9
April	28.388	28.790	27.830	47.3	61.6	62.0	66.8	45.0	55.9	90	22	42	43	43	82	55	55	.272	.289	.288	5.09	2.81	6.0	6.2	6.0	6.2
May	28.558	28.920	28.150	54.3	65.2	64.9	69.0	51.1	60.0	83	34	50	51	52	85	61	64	.380	.391	.405	3.56	1.80	7.0	7.2	6.5	7.3
June	28.472	28.748	28.150	64.6	76.7	77.7	81.4	61.3	71.1	95	48	58	59	61	82	56	59	.498	.516	.546	4.12	1.51	6.0	5.0	4.7	5.4
July	28.543	28.780	28.230	71.5	84.4	84.1	88.5	68.8	78.6	101	60	64	64	65	78	52	55	.599	.610	.636	1.98	1.41	5.8	4.3	3.3	4.3
August	28.551	28.780	28.250	69.2	85.3	83.6	89.9	66.6	78.2	103	53	59	59	62	73	45	51	.517	.511	.566	1.33	.71	6.0	4.7	5.0	4.8
September	28.552	28.890	28.250	58.4	70.7	68.9	76.2	55.4	65.8	96	45	50	50	51	77	52	55	.376	.378	.386	2.96	1.28	5.8	5.4	5.3	5.2
October	28.588	28.907	28.092	49.1	62.1	57.4	65.5	46.7	56.1	83	32	45	46	46	86	59	68	.311	.334	.335	3.82	2.05	5.4	5.0	5.0	5.1
November	28.688	29.223	28.240	29.8	38.9	36.5	43.0	27.1	35.0	58	−4	26	29	29	84	68	74	.141	.160	.162	1.42	.56	5.0	5.6	5.1	5.6
December	28.636	29.110	28.090	25.8	36.1	33.8	41.7	22.9	32.3	63	1	21	23	24	81	62	68	.121	.132	.134	.09	.08	5.2	5.3	4.0	5.1
Year	28.554	29.223	27.800	45.0	56.8	55.6	61.7	42.1	51.9	103	−10	39	40	41	80	58	62	.295	.307	.319	26.15	2.81	5.9	5.6	5.2	5.7

Annual meteorological summary for the year ending December 31, 1929—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: Number of winds, 8 a. m. and 8 p. m.: Days with 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	6.6	NE.	36	W.	0	8	18	2	2	6	9	14	3	0	10	9	12	9	9	0	0	0	6	0	0	5	0	0
February	5.6	NE.	27	SW.	0	4	23	6	5	7	2	4	5	0	7	6	15	10	9	1	0	0	4	0	0	7	0	0
March	7.7	S.	42	W.	2	4	11	6	6	11	9	8	6	1	10	15	6	13	11	0	0	0	1	0	1	1	3	0
April	6.7	S.	26	W.	0	3	9	3	6	13	13	6	7	0	12	12	6	10	10	0	0	1	0	0	0	0	6	0
May	6.4	S.	37	S.	2	4	16	7	9	13	7	3	3	0	9	14	8	13	11	0	0	1	0	0	0	0	15	0
June	5.5	S.	25	SW.	0	7	7	2	5	23	12	3	1	0	13	9	8	13	13	0	0	0	0	0	0	8	0	0
July	5.2	S.	19	NE.	0	3	8	2	14	18	10	2	3	2	9	18	4	11	8	0	0	0	1	0	14	0	13	0
August	4.8	NE.	26	NW.	0	4	25	4	6	8	7	5	2	1	14	12	5	10	7	0	0	0	1	0	18	0	10	0
September	5.5	NE.	18	S.	0	10	22	7	14	3	1	1	2	0	5	14	11	11	9	0	0	0	5	0	3	0	3	0
October	6.4	NE.	26	NE.	0	9	27	3	1	0	12	4	6	0	17	6	8	5	5	0	0	0	1	0	0	0	1	0
November	5.8	NE.	22	SW.	0	8	17	5	1	12	9	4	4	0	10	4	16	12	7	0	0	0	2	1	0	2	0	0
December	5.9	SW.	26	SW.	0	5	11	2	1	6	17	16	4	0	14	7	10	9	8	1	0	0	8	0	0	12	2	0
Year	6.0	NE.	42	SW.	4	69	194	49	70	120	108	70	46	4	130	126	109	126	107	2	0	2	29	1	44	27	64	0

COLUMBUS, OHIO

[H_b=822 ft.; h_t=179 ft.; h_r=171 ft.; h_a=222 ft.]

January	11.4	NW.	42	W.	7	3	1	11	7	10	6	8	16	0	4	8	19	17	14	21	7	0	2	13	0	30	1	0
February	7.9	NW.	25	W.	0	3	3	12	5	8	5	7	13	0	6	11	11	9	8	12	6	0	1	11	0	22	2	0
March	10.9	S.	60	NW.	4	5	1	2	7	24	11	2	10	0	7	14	10	14	10	7	1	0	0	0	0	9	2	0
April	11.0	S.	40	NW.	5	5	4	7	3	12	9	6	14	0	6	10	14	13	12	1	0	1	1	0	0	1	6	0
May	9.1	NW.	42	W.	2	9	5	8	4	7	10	6	13	0	9	11	11	16	14	2	0	0	0	0	0	0	7	0
June	7.4	S.	40	NW.	1	7	7	3	4	18	7	5	9	0	13	10	7	13	13	0	0	0	0	0	1	0	12	0
July	7.0	S.	40	NW.	1	8	3	9	2	18	7	7	8	0	10	18	3	12	11	0	0	0	0	0	3	0	14	0
August	6.6	NW.	30	NW.	0	14	9	7	3	9	4	4	12	0	15	11	5	7	5	0	0	0	0	0	0	0	8	0
September	7.0	E.	32	NW.	0	7	3	10	12	14	4	3	7	0	11	9	10	14	12	0	0	0	2	0	2	0	6	0
October	9.3	NW.	34	W.	1	5	7	5	11	6	10	5	13	0	9	9	13	13	10	1	0	0	1	0	0	0	1	0
November	8.5	W.	37	NW.	2	5	6	6	5	6	10	11	10	1	7	6	17	13	11	8	0	0	4	4	0	11	0	0
December	8.7	SW.	30	NW.	0	1	2	8	3	17	13	14	4	0	2	8	21	16	13	13	9	0	3	10	0	17	0	0
Year	8.7	S.	60	NW.	23	72	51	88	66	149	96	78	129	1	99	125	141	157	133	65	23	1	14	38	6	90	59	0

CONCORD, N. H.

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

January	6.8	NW.	24	NW.	0	4	1	1	2	3	3	4	13	0	14	9	8	11	9	15	8	0	0	22	0	31	0	0
February	4.4	NW.	23	SW.	0	7	5	0	1	2	1	3	9	0	9	9	10	10	8	13	10	0	0	11	0	28	0	0
March	5.9	NW.	24	NW.	0	5	3	1	5	3	2	1	11	0	11	9	11	12	10	8	4	0	0	4	0	23	2	0
April	6.3	NE.	28	W.	0	3	8	2	4	1	0	4	8	0	8	8	14	13	12	6	2	0	0	0	0	13	0	0
May	6.0	NW.	30	W.	0	6	7	4	4	3	1	4	2	0	15	11	5	12	11	0	0	0	0	0	4	2	4	0
June	4.7	NW.	20	W.	0	2	3	3	7	2	1	1	11	0	13	12	5	11	9	0	0	0	0	0	2	0	7	0
July	4.5	NW.	19	W.	0	8	5	4	3	2	5	2	2	0	16	7	8	5	5	0	0	0	0	0	4	0	3	0
August	4.3	NW.	21	W.	0	9	4	3	5	2	1	2	5	0	13	12	6	9	8	0	0	0	0	0	0	0	6	0
September	3.6	NE.	17	NW.	0	8	7	4	3	2	0	3	3	0	10	7	13	9	6	0	0	0	1	0	2	4	2	0
October	5.5	NW.	27	SW.	0	4	4	3	2	2	5	4	7	0	11	8	12	7	6	0	0	0	1	0	0	9	0	0
November	4.6	NW.	24	W.	0	7	4	4	2	1	1	5	6	0	4	8	18	13	8	4	3	0	0	5	0	19	0	0
December	4.4	NW.	21	NW.	0	7	3	0	5	2	5	3	6	0	9	7	15	9	8	13	6	0	0	14	0	30	0	0
Year	5.1	NW.	30	W.	0	70	54	29	43	25	25	36	83	0	133	107	125	121	100	59	33	0	2	56	12	159	24	0

CONCORDIA, KANS.

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

January	7.5	NW.	30	NW.	0	9	8	9	8	9	7	3	7	2	9	10	12	7	3	13	4	0	2	19	0	31	0	0
February	6.7	N.	22	NW.	0	12	5	4	9	9	7	5	4	1	11	4	13	11	6	16	9	0	0	14	0	27	0	0
March	8.1	S.	31	S.	0	6	8	3	2	12	15	7	8	1	4	10	17	3	0	1	0	0	0	0	0	11	4	0
April	9.1	S.	35	SW.	1	6	10	5	8	13	7	2	9	0	6	13	11	14	9	0	0	1	0	0	1	3	8	0
May	7.7	S.	23	NW.	0	9	7	8	10	19	3	1	4	1	2	12	17	13	10	0	0	0	0	0	0	0	5	0
June	6.7	S.	29	N.	0	7	8	10	4	19	6	0	3	3	10	9	11	11	7	0	0	0	3	2	0	8	0	11
July	6.2	S.	19	SE.	0	5	5	9	10	25	4	1	2	1	11	16	4	8	5	0	0	0	1	0	14	0	4	0
August	5.8	S.	24	NE.	0	3	9	9	9	19	3	3	2	5	10	12	9	8	5	0	0	0	1	0	14	0	6	0
September	7.1	S.	26	S.	0	10	9	4	12	14	0	6	4	1	11	10	9	13	9	0	0	0	0	0	2	0	9	0
October	5.4	S.	25	N.	0	12	1	13	2	12	7	8	2	5	11	7	13	10	8	0	0	0	2	0	0	1	4	0
November	6.9	NW.	27	NW.	0	9	5	5	2	4	11	10	10	4	10	8	12	9	6	11	6	0	0	5	0	22	0	0
December	6.4	NW.	26	NW.	0	7	5	4	3	11	7	14	10	1	13	5	13	8	0	4	1	0	8	6	0	27	0	0
Year	7.0	S.	35	SW.	1	95	80	83	79	166	77	60	65	25	108	116	141	115	68	45	20	4	16	44	39	122	51	0

Annual meteorological summary for the year ending December 31, 1929—Continued

CORPUS CHRISTI, TEX.

[ϕ=27° 49′ N.; λ=97° 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: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.029	30.520	29.570	55.5	63.1	60.2	66.6	53.1	59.8	82	38	52	57	56	90	81	86	0.425	0.491	0.466	0.64	0.37	5.0	6.7	6.7	6.5
February	29.992	30.580	29.549	50.0	56.5	55.4	60.6	46.4	53.5	81	27	47	50	50	91	79	82	.350	.387	.384	.06	.04	7.6	7.0	6.7	7.1
March	29.887	30.230	29.500	64.0	72.4	69.1	74.4	62.7	68.6	87	51	60	61	60	86	69	76	.532	.558	.547	1.06	.91	7.0	5.6	4.2	5.6
April	29.864	30.240	29.600	73.5	79.5	76.8	81.1	72.0	76.6	88	59	69	68	70	85	70	80	.712	.707	.735	.86	.83	7.1	8.1	7.8	7.5
May	29.918	30.220	29.520	74.7	80.0	78.3	82.3	72.4	77.4	89	57	69	70	71	84	71	80	.732	.739	.776	5.34	3.25	6.8	7.6	7.5	7.3
June	29.887	30.080	29.650	78.3	85.7	83.4	87.8	75.9	81.8	94	72	74	73	74	86	67	73	.829	.816	.825	1.59	1.21	2.5	4.2	3.3	3.5
July	29.972	30.140	29.800	78.3	86.5	84.2	88.3	76.5	82.4	92	72	74	74	75	88	68	74	.849	.854	.866	3.98	1.83	5.4	6.5	5.9	5.7
August	29.955	30.070	29.830	78.7	87.9	85.2	89.7	77.4	83.6	98	75	76	74	74	90	65	71	.881	.850	.855	1.59	1.25	2.5	3.8	2.8	2.7
September	29.895	30.050	29.690	76.3	86.2	83.4	87.7	75.2	81.4	94	70	73	73	72	88	66	70	.807	.814	.803	3.65	2.76	4.6	4.5	3.3	3.9
October	29.975	30.330	29.540	69.4	78.8	75.9	80.8	67.9	74.4	91	50	64	66	65	84	65	70	.622	.647	.637	1.69	.90	5.2	4.9	3.7	4.6
November	30.078	30.430	29.680	55.0	62.9	61.2	66.0	52.0	59.0	86	36	52	52	53	89	71	77	.415	.438	.446	3.07	1.74	7.6	7.1	6.1	6.9
December	30.154	30.570	29.710	51.2	60.1	57.3	63.7	49.0	56.4	81	28	49	51	50	93	74	78	.387	.432	.411	2.14	.92	4.5	5.8	4.5	5.5
Year	29.967	30.580	29.500	67.1	75.0	72.5	77.4	65.0	71.2	98	27	63	64	64	88	70	76	.628	.644	.646	25.67	3.25	5.5	6.0	5.2	5.6

DALLAS, TEX.

[ϕ=32° 46′ N.; λ=96° 47′ W.]

January	29.516	29.950	29.026	38.9	46.9		54.6	35.5	45.0	71	19	33	32		79	59		0.205	0.194		3.32	1.44	5.1	5.9		5.4
February	29.535	30.050	28.940	33.0	39.8		44.3	31.1	37.7	69	12	30	32		87	74		.174	.188		1.75	.83	6.5	6.9		6.7
March	29.383	29.820	28.850	52.8	64.5		70.5	50.4	60.4	90	37	45	46		77	54		.325	.335		2.43	1.46	5.3	4.5		4.1
April	29.361	29.740	28.990	60.6	72.6		77.6	59.2	68.4	88	44	54	53		79	51		.440	.425		2.64	1.23	5.8	5.1		4.3
May	29.416	29.700	28.960	64.2	74.4		78.7	62.0	70.4	90	48	60	60		87	64		.538	.539		10.38	4.11	7.4	6.4		5.2
June	29.379	29.560	29.150	72.4	85.4		90.6	71.5	81.0	98	63	67	65		83	53		.657	.627		.33	.19	2.1	3.1		2.2
July	29.462	29.620	29.266	75.5	87.5		92.5	74.5	83.5	101	70	69	66		82	51		.717	.646		.53	.20	3.2	4.0		2.5
August	29.443	29.580	29.250	76.8	91.5		96.1	76.4	86.2	102	68	64	61		65	37		.603	.551		.04	.03	1.0	2.0		.9
September	29.425	29.650	29.160	68.8	82.2		86.1	68.0	77.0	95	60	62	61		79	50		.562	.547		2.23	1.40	2.9	3.0		2.0
October	29.478	29.790	28.940	60.1	72.5		76.8	58.4	67.6	88	37	53	52		78	51		.427	.419		1.63	.88	4.5	3.8		3.6
November	29.594	30.000	29.219	42.7	51.5		55.6	40.9	48.2	75	28	37	36		79	58		.227	.223		1.58	1.26	4.8	5.8		5.6
December	29.608	30.060	29.180	42.7	54.0		58.5	39.9	49.2	77	14	37	39		80	60		.273	.308		1.54	1.23	3.6	4.1		4.4
Year	29.467	30.060	28.850	57.4	68.6		73.5	55.6	64.6	102	12	51	50		80	55		.429	.417		28.40	4.11	4.4	4.6		3.9

DAVENPORT, IOWA

[ϕ=41° 30′ N.; λ=90° 38′ W.]

January	29.428	29.870	28.605	10.5	17.2	15.5	22.8	4.6	13.7	41	−11	7	11	12	85	80	94	0.067	0.078	0.077	3.01	1.04	5.8	5.8	5.2	6.2
February	29.447	29.950	28.680	12.7	21.9	21.3	26.3	9.9	18.1	43	−11	10	16	16	89	76	80	.076	.098	.099	.81	.47	6.2	6.0	5.8	6.2
March	29.236	29.930	28.550	36.5	46.2	46.2	52.5	34.2	43.4	74	12	32	36	36	82	68	68	.187	.223	.223	2.60	1.12	5.2	6.3	6.1	6.1
April	29.225	29.620	28.610	47.4	57.3	56.5	61.7	44.2	53.0	83	26	41	44	44	79	62	64	.273	.304	.305	5.49	2.43	6.4	7.2	6.3	6.5
May	29.337	29.800	28.850	54.0	63.9	63.1	69.0	50.2	59.6	89	34	47	50	49	77	62	62	.352	.382	.377	1.23	.51	5.9	7.0	6.5	6.2
June	29.284	29.590	28.930	62.9	73.8	73.7	78.8	59.2	69.0	89	42	54	55	56	74	53	56	.439	.447	.465	4.30	2.20	5.6	6.3	5.4	5.7
July	29.354	29.610	29.060	69.6	81.1	80.5	85.5	65.9	75.7	95	53	62	62	63	78	54	57	.573	.567	.595	5.64	2.02	5.8	6.2	5.6	5.6
August	29.375	29.630	29.029	65.3	78.5	76.3	82.3	62.4	72.4	98	51	58	59	60	79	52	59	.500	.509	.538	2.69	2.57	4.5	5.4	4.6	4.7
September	29.384	29.710	29.042	57.8	69.7	67.5	74.1	55.1	64.6	92	35	52	52	53	80	55	61	.400	.407	.423	3.13	.97	5.3	4.7	4.9	5.2
October	29.380	29.710	28.998	46.1	58.7	55.4	62.2	44.1	53.2	80	30	41	41	42	83	56	63	.265	.271	.276	3.77	1.31	4.6	5.1	4.4	5.1
November	29.436	30.010	28.800	29.7	39.3	36.9	42.5	26.8	34.6	58	−3	26	27	27	86	62	68	.153	.161	.159	1.51	.49	4.8	5.4	4.4	5.4
December	29.377	29.860	28.940	24.5	30.7	29.9	35.2	21.6	28.4	61	−1	22	24	24	89	75	80	.125	.135	.139	.53	.42	7.2	7.5	5.4	7.0
Year	29.359	30.010	28.550	43.1	53.2	51.9	57.7	39.8	48.8	98	−11	38	40	40	82	63	67	.284	.298	.306	34.71	2.57	5.6	6.1	5.4	5.8

DAYTON, OHIO

[ϕ=39° 46′ N.; λ=84° 10′ W.]

January	29.111	29.570	28.240	24.2	27.7	27.8	36.3	18.5	27.4	67	−2	18	19	21	76	67	74	0.114	0.117	0.126	4.34	1.12	7.6	7.3	5.6	7.4
February	29.139	29.600	28.660	21.7	30.1	29.1	34.5	18.4	26.4	58	−5	17	22	21	79	70	72	.106	.122	.122	3.43	2.48	6.5	6.1	5.4	6.7
March	28.998	29.610	28.340	41.5	50.7	51.3	56.4	39.0	47.7	84	16	35	37	38	78	61	61	.229	.249	.255	2.45	.65	6.9	7.1	5.5	6.5
April	28.972	29.420	28.300	49.8	59.3	57.5	65.2	45.6	55.4	83	32	42	44	42	74	59	59	.281	.313	.288	4.01	1.96	7.2	7.2	6.6	6.6
May	29.112	29.530	28.170	55.3	64.7	62.6	69.3	50.8	60.0	92	33	48	49	50	77	59	67	.364	.382	.397	7.41	1.61	6.8	6.9	6.7	6.4
June	29.037	29.225	28.710	63.8	75.3	72.1	79.3	58.5	68.9	90	40	56	56	56	76	52	59	.458	.456	.467	5.30	1.55	4.9	5.3	5.7	5.2
July	29.110	29.320	28.860	68.7	81.3	78.1	84.5	64.6	74.6	92	49	62	62	62	78	54	60	.559	.580	.576	5.32	.96	5.2	5.4	5.0	4.9
August	29.098	29.330	28.750	64.4	77.9	74.1	81.1	60.3	70.7	88	51	58	55	57	78	47	56	.487	.450	.474	1.21	.58	5.5	5.5	4.2	4.9
September	29.129	29.390	28.850	60.2	73.2	68.3	75.8	56.8	66.3	91	40	55	56	57	83	57	68	.457	.477	.487	3.04	1.04	5.6	5.7	4.3	5.7
October	29.099	29.554	28.410	46.7	58.8	55.5	61.8	44.6	53.2	74	33	42	44	45	85	60	70	.279	.296	.308	3.64	2.00	5.7	5.4	6.0	6.0
November	29.134	29.590	28.446	35.8	42.5	40.2	45.8	32.9	39.4	67	0	32	34	33	86	72	75	.203	.219	.212	2.97	1.16	5.7	6.4	5.3	6.6
December	29.091	29.580	28.550	30.3	34.2	34.3	38.5	26.8	32.6	60	0	28	28	30	89	79	83	.168	.175	.183	3.21	1.04	7.4	6.3	7.4	7.7
Year	29.086	29.610	28.170	46.9	56.3	54.2	60.7	43.1	51.9	92	−5	41	42	43	80	61	67	.309	.320	.325	46.33	2.48	6.2	6.2	5.6	6.2

Annual meteorological summary for the year ending December 31, 1929—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: Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	10.4	SE.	37	SE.	2	17	4	7	26	1	1	0	6	0	7	7	17	8	3	0	0	0	5	0	0	0	1	0
February	10.6	N.	29	N.	0	22	8	4	10	1	1	2	8	0	5	7	16	4	0	0	0	0	2	0	0	3	0	0
March	12.4	SE.	32	NW.	0	7	9	9	23	10	1	1	2	0	8	12	11	5	3	0	0	0	0	0	0	0	2	0
April	12.6	SE.	31	E.	0	1	10	5	36	6	1	0	1	0	2	9	19	4	2	0	0	0	1	0	0	0	4	0
May	13.0	SE.	33	NW.	1	5	4	15	32	4	0	1	1	0	6	6	19	9	8	0	0	0	0	0	0	0	10	0
June	10.1	E.	36	NE.	1	5	0	16	22	9	5	0	3	0	18	9	3	4	3	0	0	0	0	0	0	3	0	2
July	9.4	SE.	33	NE.	2	1	1	8	29	12	6	4	1	0	5	18	8	12	7	0	0	0	0	0	0	8	0	13
August	8.9	E.	24	E.	0	8	2	15	17	14	1	3	2	0	21	7	3	4	4	0	0	0	0	0	0	13	0	6
September	9.5	E.	38	N.	1	13	6	23	4	7	1	3	3	0	14	13	3	6	5	0	0	0	0	0	0	7	0	5
October	8.9	E.	25	N.	0	16	6	16	6	6	1	5	6	0	13	7	11	10	5	0	0	0	1	0	0	2	0	3
November	9.8	N.	36	N.	1	20	3	7	10	3	3	1	13	0	8	4	18	12	9	1	0	0	4	0	0	0	0	0
December	9.0	E.	35	NW.	1	12	5	15	8	7	0	5	10	0	11	6	14	12	6	1	0	0	8	0	0	3	5	0
Year	10.4	SE.	38	N.	9	127	58	140	223	80	21	25	56	0	118	105	142	90	55	2	0	0	21	0	33	6	51	0

DALLAS, TEX.

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

January	12.7	SE.	43	W.	4	5	4	1	8	6	0	4	3	0	11	8	12	7	6	1	0	1	2	0	0	10	3	0
February	11.3	N.	31	W.	0	8	4	3	5	0	0	3	5	0	7	5	16	12	7	3	2	1	1	4	0	16	1	0
March	12.9	SE.	38	NE.	5	3	4	3	8	4	3	3	2	1	14	9	8	6	5	0	0	1	1	0	1	0	5	0
April	13.7	SE.	55	SE.	8	4	1	2	10	7	1	3	2	0	11	13	6	7	4	0	0	1	1	0	0	0	6	0
May	12.6	SE.	68	W.	4	3	2	7	11	3	0	2	2	1	10	12	9	14	14	0	0	1	1	0	1	0	11	0
June	10.3	SE.	34	NE.	2	3	4	3	11	9	0	0	0	0	21	8	1	3	2	0	0	0	0	0	20	0	5	0
July	9.1	SE.	36	SE.	1	2	0	4	12	8	4	0	1	0	23	5	3	6	5	0	0	0	0	0	26	0	2	0
August	8.3	SE.	33	N.	1	1	3	5	6	11	3	0	1	1	31	0	0	2	0	0	0	0	0	0	31	0	1	0
September	9.3	E.	35	E.	1	5	3	9	9	3	0	1	0	0	24	3	3	5	5	0	0	0	0	0	6	0	6	0
October	9.9	SE.	28	W.	0	3	4	6	5	4	1	5	3	0	15	12	4	8	4	0	0	0	2	0	0	0	6	0
November	10.7	N.	31	N.	0	4	4	3	2	4	2	5	5	1	11	6	13	6	4	1	1	0	0	0	0	5	0	0
December	11.0	SE.	40	NW.	2	1	1	4	5	9	3	5	2	1	16	4	11	6	3	1	1	0	4	1	0	9	1	0
Year	11.0	SE.	68	W.	28	42	34	50	92	68	17	31	26	5	194	85	86	82	59	6	4	5	12	5	85	40	47	0

DAVENPORT, IOWA

[H_b=606 ft.; h_t=71 ft.; h_r=64 ft.; h_a=50 ft.]

January	9.8	NW.	36	NW.	4	7	11	6	3	5	7	8	13	2	9	7	15	13	10	19	11	0	0	24	0	31	0	0
February	8.3	W.	30	SW.	0	5	8	9	1	2	8	13	10	0	8	9	11	9	7	14	8	0	2	18	0	27	0	0
March	11.7	SW.	50	NW.	2	7	5	3	5	13	11	10	8	0	8	9	14	12	9	1	1	2	0	2	0	10	4	0
April	12.4	NE.	41	W.	3	2	15	7	3	8	10	9	6	0	7	9	14	14	9	1	1	1	0	0	0	1	5	0
May	9.3	NW.	33	NW.	1	2	12	8	8	8	6	5	12	1	7	11	13	8	6	0	0	0	0	0	0	0	4	0
June	8.2	NE.	35	NW.	1	2	12	5	4	10	13	6	5	3	8	11	11	11	10	0	0	1	0	0	0	0	4	0
July	6.4	SW.	48	NW.	1	1	5	9	10	7	15	8	4	3	6	17	8	10	9	0	0	1	0	0	8	0	8	0
August	6.0	SW.	28	W.	0	4	7	7	13	10	4	7	5	5	9	16	6	4	3	0	0	0	0	0	2	0	3	0
September	7.1	S.	30	S.	0	3	3	11	8	11	4	4	5	1	11	7	12	11	9	0	0	0	1	0	2	0	3	0
October	8.5	E.	33	NE.	1	3	7	12	7	7	11	9	9	3	13	6	12	12	10	2	1	0	3	0	0	1	0	0
November	9.5	NW.	33	NW.	1	2	7	0	3	4	12	11	18	3	12	6	12	9	7	7	3	1	2	6	0	17	0	0
December	9.3	W.	31	N.	0	4	6	6	3	4	12	11	13	3	6	8	17	8	3	7	3	0	9	11	0	25	0	0
Year	8.9	W.	50	NW.	14	42	108	83	68	83	113	101	108	24	104	116	145	121	92	51	28	6	17	61	12	112	31	0

DAYTON, OHIO

[H_b=899 ft.; h_t=137 ft.; h_r=132 ft.; h_a=173 ft.]

January	10.0	NW.	44	SW.	3	6	6	9	3	3	12	11	12	0	6	5	20	16	13	16	8	1	2	14	0	29	1	0
February	7.1	SW.	28	SW.	0	5	10	4	2	7	12	11	5	0	4	13	11	11	7	10	8	0	0	11	0	24	2	0
March	10.1	SW.	46	NW.	2	4	3	2	4	18	16	6	9	0	4	17	10	14	12	5	1	0	1	0	0	9	2	0
April	10.8	SW.	46	NW.	3	4	13	4	4	6	14	9	6	0	3	15	12	13	11	1	0	2	0	0	0	2	7	0
May	7.8	SW.	36	SW.	1	11	12	9	1	3	17	4	5	0	7	12	12	16	12	2	0	1	0	0	1	0	11	0
June	7.0	SW.	31	NW.	0	7	12	1	2	11	16	5	6	0	8	16	6	13	12	0	0	1	0	0	0	0	11	0
July	6.6	SW.	30	W.	0	8	15	1	3	5	22	6	2	0	8	19	4	11	10	0	0	0	0	0	5	0	11	0
August	5.6	NE.	21	NW.	0	6	29	1	5	3	10	1	6	1	10	16	5	8	6	0	0	0	0	0	0	0	7	0
September	6.0	NE.	23	NE.	0	3	24	6	2	14	7	2	2	0	8	11	11	13	12	0	0	0	0	0	2	0	6	0
October	8.3	SW.	33	W.	1	13	11	3	5	8	13	5	3	1	10	5	16	10	9	1	0	0	1	0	0	0	2	0
November	8.2	W.	30	NW.	0	8	12	2	5	2	12	13	11	0	8	6	16	12	9	8	2	0	1	4	0	11	0	0
December	9.4	SW.	26	SW.	0	5	7	4	1	4	29	9	3	0	4	7	20	17	12	13	11	0	0	11	0	18	1	0
Year	8.1	SW.	46	NW.	10	75	154	46	37	84	180	82	70	2	80	142	143	154	125	56	30	5	5	40	8	93	61	0

Annual meteorological summary for the year ending December 31, 1929—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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.018	29.500	28.620	45.9	56.4	58.6	63.4	43.1	53.2	82	28	39	39	37	78	55	49	0.263	0.259	0.246	0.42	0.36	5.6	5.0	4.0	4.7
February	28.995	29.570	28.510	42.6	53.2	57.5	61.5	39.6	50.6	77	21	36	35	34	78	57	47	.226	.224	.206	.18	.10	5.6	5.3	4.4	5.2
March	28.883	29.240	28.590	55.6	70.6	74.1	77.4	54.0	65.7	95	38	46	44	41	73	45	36	.346	.321	.283	.72	.32	4.7	3.5	4.1	4.2
April	28.852	29.190	28.598	66.6	78.9	82.7	84.8	64.6	74.7	98	56	57	55	52	75	49	39	.496	.465	.417	1.17	1.12	7.0	5.2	5.8	5.9
May	28.905	29.320	28.590	68.1	80.7	83.2	86.2	65.6	75.9	101	53	60	61	56	76	54	45	.535	.555	.490	4.41	1.88	6.6	4.6	4.8	5.3
June	28.866	29.100	28.689	74.6	88.6	91.7	94.8	73.1	84.0	99	65	65	66	62	81	48	39	.691	.646	.561	3.32	1.80	4.2	1.8	2.7	2.8
July	28.953	29.150	28.750	75.4	87.4	89.6	92.5	74.5	83.5	98	70	70	69	66	82	54	48	.722	.704	.649	1.32	1.01	4.0	4.4	3.7	4.1
August	28.947	29.100	28.773	76.4	91.3	93.8	96.2	76.1	86.2	100	71	66	66	61	71	43	34	.650	.633	.543	T.	T.	1.1	1.5	2.6	1.7
September	28.913	29.150	28.640	71.9	84.7	86.3	89.5	71.0	80.2	98	64	65	64	62	86	53	46	.629	.610	.555	1.47	.73	3.8	3.6	3.2	3.7
October	28.998	29.420	28.520	62.1	76.7	75.8	80.4	61.1	70.8	97	48	55	55	53	80	48	47	.454	.444	.413	1.19	.58	3.2	4.0	3.3	3.8
November	29.109	29.590	28.740	45.7	58.8	58.5	64.7	43.1	53.9	81	29	37	36	37	74	46	47	.242	.230	.238	.08	.05	5.7	4.3	4.0	4.6
December	29.149	29.600	28.740	43.2	56.3	57.5	62.4	40.9	51.6	77	22	39	41	40	86	59	56	.275	.293	.286	2.01	1.21	3.0	4.7	2.5	3.8
Year	28.966	29.600	28.500	60.7	73.6	75.8	79.5	58.9	69.2	101	21	53	53	50	78	51	44	.461	.449	.407	16.29	1.88	4.5	4.0	3.8	4.2

DENVER, COLO.

[ϕ=39° 45′ N.; λ=105° 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	24.577	24.950	23.970	23.6	32.3	32.0	38.4	16.9	27.6	61	0	11	13	14	60	46	51	0.071	0.077	0.084	0.14	0.13	2.4	4.5	4.9	4.5
February	24.600	24.980	24.300	17.5	30.1	27.0	34.2	13.0	23.6	53	−9	8	11	14	68	48	59	.062	.071	.082	.78	.20	2.3	4.6	5.6	4.7
March	24.572	25.030	24.110	33.5	45.1	45.3	50.1	29.4	39.8	70	16	21	21	22	62	41	44	.114	.113	.122	2.16	1.00	6.0	5.4	6.0	5.7
April	24.583	24.860	24.160	38.5	52.6	52.8	57.3	36.0	46.6	76	20	26	24	27	62	38	43	.139	.130	.148	1.69	.96	3.9	6.0	6.7	5.1
May	24.719	25.070	24.080	45.2	59.8	61.8	65.5	43.3	54.4	82	29	35	32	34	69	40	41	.206	.189	.203	1.65	1.10	5.2	6.1	6.1	5.7
June	24.719	24.992	24.260	56.2	75.3	77.0	80.8	53.6	67.2	95	45	41	36	39	59	28	30	.290	.217	.248	.67	.46	4.4	4.4	5.3	4.7
July	24.830	25.000	24.590	63.1	80.7	78.6	85.7	61.2	73.4	95	50	50	47	50	64	32	39	.379	.332	.368	1.63	.80	3.0	3.0	7.2	4.5
August	24.867	25.030	24.700	63.0	79.9	78.8	84.2	61.9	73.0	93	55	51	47	50	66	34	40	.379	.328	.372	2.72	1.81	3.8	3.1	6.4	4.2
September	24.759	24.980	24.509	50.6	65.0	65.6	69.6	48.1	58.8	93	34	43	41	43	76	47	50	.277	.262	.285	1.34	.45	5.4	4.4	5.0	4.6
October	24.807	25.150	24.200	42.4	58.4	57.2	62.6	39.8	51.2	82	23	30	30	30	62	39	42	.171	.174	.177	1.00	.47	4.2	3.5	3.5	3.9
November	24.797	25.140	24.380	26.8	38.6	33.3	42.6	20.5	31.6	67	0	16	21	21	65	52	61	.092	.112	.111	1.32	.30	3.1	4.3	3.3	4.1
December	24.740	25.090	24.350	30.9	43.3	40.4	48.5	25.7	37.1	66	−4	16	18	20	55	38	45	.090	.095	.106	.32	.27	2.1	5.0	2.4	3.4
Year	24.715	25.150	23.970	40.9	55.1	54.2	60.0	37.4	48.7	95	−9	29	28	30	64	40	45	.186	.175	.192	15.42	1.81	3.8	4.5	5.2	4.6

DES MOINES, IOWA

[ϕ=41° 35′ N.; λ=93° 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.182	29.620	28.550	8.3	15.3	14.8	20.8	2.5	11.6	38	−10	6	9	10	88	74	80	0.059	0.067	0.070	2.70	1.18	4.5	5.9	6.7	6.3
February	29.195	29.650	28.550	10.4	20.1	19.4	23.8	6.6	15.2	45	−13	9	14	15	94	78	82	.070	.087	.091	2.06	.77	6.4	6.3	5.7	6.2
March	28.978	29.700	28.380	35.0	44.8	44.7	50.1	31.6	40.8	73	10	30	31	32	83	61	64	.173	.184	.194	1.11	.48	5.5	7.9	5.8	6.5
April	28.949	29.330	28.390	46.8	57.1	58.3	62.2	43.8	53.0	89	26	40	41	43	79	56	58	.265	.267	.289	4.38	1.06	6.1	6.9	7.1	6.6
May	29.125	29.570	28.640	53.3	63.9	65.0	68.9	49.5	59.2	87	33	47	44	45	78	50	51	.351	.320	.337	2.18	1.14	6.3	7.4	7.4	6.8
June	29.029	29.350	28.650	62.9	74.7	75.6	79.4	58.5	69.0	94	43	56	55	56	78	53	53	.457	.459	.469	2.42	.88	6.1	6.3	4.9	5.5
July	29.099	29.320	28.790	69.2	80.1	81.0	84.9	65.7	75.3	95	56	63	62	64	80	58	59	.579	.587	.617	3.72	2.05	6.1	6.6	5.1	5.8
August	29.116	29.390	28.795	65.2	79.5	78.5	84.0	62.9	73.4	95	49	60	60	61	82	52	57	.519	.523	.556	2.82	1.02	4.6	4.6	4.4	4.4
September	29.119	29.490	28.780	57.0	70.4	67.0	73.6	53.9	63.8	92	37	51	51	53	82	54	62	.396	.405	.413	4.67	2.10	4.8	5.3	5.5	5.1
October	29.129	29.430	28.650	46.3	60.1	57.1	63.8	43.4	53.6	80	32	42	42	43	85	56	62	.276	.284	.290	2.74	.95	3.9	4.8	4.6	5.0
November	29.202	29.790	28.670	29.0	39.6	35.6	42.5	25.1	33.8	58	0	28	26	26	86	59	70	.146	.150	.152	1.87	.97	4.5	4.5	5.2	5.0
December	29.150	29.650	28.670	22.9	30.9	28.7	35.0	18.8	26.9	61	−6	20	23	23	88	72	79	.120	.132	.132	.34	.27	5.4	6.2	4.7	6.1
Year	29.106	29.790	28.360	42.2	53.0	52.1	57.4	38.5	48.0	95	−13	38	38	39	84	60	65	.284	.289	.301	31.01	2.10	5.4	6.1	5.6	5.8

DETROIT, MICH.

[ϕ=42° 20′ N.; λ=83° 03′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.229	29.790	28.380	19.2	22.0	22.2	29.1	14.4	21.8	50	−3	16	17	19	86	78	87	0.096	0.098	0.111	4.27	0.87	6.8	7.4	5.4	6.7
February	29.290	29.740	28.740	19.7	25.2	24.8	29.9	17.4	23.2	51	−1	17	20	21	86	78	84	.097	.109	.115	1.36	.36	8.0	6.8	5.9	7.2
March	29.120	29.740	28.180	36.0	44.4	43.5	50.5	32.8	41.6	74	10	31	36	37	81	75	80	.185	.233	.224	2.85	1.20	7.4	6.2	5.0	6.5
April	29.119	29.540	28.430	45.6	52.4	50.8	57.9	41.6	49.8	83	28	41	44	44	83	74	78	.271	.310	.304	5.65	1.84	5.8	6.6	5.9	6.3
May	29.267	29.770	28.290	51.2	60.9	58.6	65.6	46.9	56.2	92	35	46	52	51	84	75	77	.339	.422	.402	3.59	1.49	4.5	5.7	5.8	5.8
June	29.194	29.414	28.750	61.6	70.7	68.2	75.2	56.5	65.8	90	40	55	59	59	80	68	73	.455	.517	.515	2.55	.66	3.6	5.2	4.6	4.3
July	29.259	29.580	28.940	68.7	78.3	75.4	82.5	63.9	73.2	93	51	60	63	64	76	60	67	.539	.583	.595	2.65	.68	3.8	3.6	3.9	4.4
August	29.261	29.552	28.850	63.4	74.0	71.2	78.3	59.6	69.0	92	52	53	55	57	78	52	63	.463	.440	.479	.52	.35	3.8	4.8	4.5	4.8
September	29.309	29.650	28.938	59.0	69.4	66.0	73.4	56.3	64.8	90	42	53	51	55	81	55	68	.416	.397	.449	1.75	.58	4.5	4.0	4.8	4.7
October	29.242	29.833	28.376	47.3	55.1	52.9	58.7	44.2	51.4	71	32	42	41	44	82	62	74	.275	.270	.299	3.99	2.28	5.3	5.3	5.7	5.6
November	29.247	29.760	28.480	34.3	38.8	37.5	42.2	31.6	36.9	64	4	31	33	32	86	80	82	.189	.204	.197	3.20	.97	6.6	6.0	5.5	6.5
December	29.213	29.720	28.637	26.3	28.6	27.9	32.0	22.2	27.1	45	5	24	25	25	92	87	88	.133	.138	.137	4.79	1.21	9.6	9.2	8.8	9.2
Year	29.229	29.833	28.180	44.4	51.6	49.9	56.2	40.6	48.4	93	−3	39	41	42	83	70	77	.288	.310	.320	37.17	2.28	5.8	6.0	5.5	6.0

Annual meteorological summary for the year ending December 31, 1929—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: Number of winds, 8 a. m. and 8 p. m.: Days with 33 miles and over	N	NE	E	SE	S	SW	W	NW	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	7.1	SE.	30	N.	0	10	3	10	22	4	0	1	12	0	13	7	11	5	2	0	0	0	0	0	0	3	0	0
February	7.9	SE.	31	NW.	0	11	5	6	21	5	1	2	4	1	11	9	8	5	2	0	0	0	1	0	0	5	0	0
March	8.4	SE.	39	NW.	2	8	3	12	21	4	1	0	12	1	16	8	7	9	6	0	0	0	0	0	3	0	3	0
April	8.9	SE.	35	NW.	1	4	6	5	28	8	2	0	6	1	7	13	10	4	2	0	0	1	0	0	5	0	3	0
May	9.7	SE.	46	NW.	3	4	6	18	26	2	1	1	4	0	8	13	10	9	6	0	0	3	0	0	6	0	10	0
June	10.2	SE.	34	SW.	1	0	0	13	41	5	1	0	0	0	18	12	0	3	2	0	0	0	0	0	29	0	4	0
July	9.0	SE.	30	SE.	0	0	2	26	32	2	0	0	0	0	12	18	1	6	4	0	0	0	0	0	27	0	6	0
August	7.6	SE.	25	E.	0	0	1	26	29	5	0	1	0	0	26	5	0	0	0	0	0	0	0	0	31	0	1	0
September	7.5	SE.	22	SE.	0	2	5	20	23	7	0	1	2	0	18	7	5	8	6	0	0	6	0	0	15	0	1	0
October	6.9	SE.	27	NW.	0	6	4	11	23	7	2	4	5	0	17	7	7	5	5	0	0	0	0	0	4	0	1	0
November	7.5	SE.	31	NW.	0	13	4	6	16	1	2	4	13	1	13	10	7	4	1	0	0	0	0	0	0	2	0	0
December	6.0	SE.	28	N.	0	9	1	10	27	2	2	1	9	1	15	9	7	4	3	1	1	0	3	0	0	8	2	0
Year	8.1	SE.	46	NW.	7	67	40	163	309	52	12	15	67	5	174	118	73	62	39	1	1	4	4	0	120	18	31	0

DENVER, COLO.

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

January	6.3	S.	29	N.	0	12	9	1	4	13	8	9	6	0	14	11	6	3	1	11	3	0	1	9	0	31	0	1
February	6.7	S.	25	W.	0	15	6	2	9	13	7	0	4	0	12	10	6	10	8	14	10	0	0	13	0	28	0	0
March	6.6	S.	31	NW.	0	11	2	2	7	14	6	11	9	0	10	12	9	11	10	11	9	0	1	1	0	20	0	0
April	7.5	S.	31	N.	0	4	9	3	2	16	13	3	10	0	10	14	6	9	7	9	5	1	1	0	0	10	2	0
May	7.0	S.	32	N.	0	12	8	7	3	13	6	6	7	0	8	10	13	12	6	2	1	0	0	0	0	1	8	0
June	6.9	S.	30	NW.	0	5	7	4	5	18	6	6	9	0	11	11	8	6	3	0	0	0	0	0	4	0	8	0
July	6.2	S.	30	NE.	0	8	0	4	5	25	7	7	6	0	11	15	5	11	7	0	0	0	0	0	9	0	14	0
August	5.8	S.	24	NE.	0	5	4	0	6	28	7	5	7	0	12	16	3	4	4	0	0	0	0	0	2	0	10	0
September	5.9	N.	22	NW.	0	11	8	4	2	16	8	4	7	0	11	11	8	8	7	2	1	0	1	0	1	0	6	0
October	6.3	S.	28	NW.	0	9	12	2	5	22	4	0	8	0	17	6	8	7	4	5	4	0	1	2	0	7	2	0
November	6.7	S.	32	N.	0	6	5	1	4	30	7	1	6	0	12	15	3	12	9	13	12	0	0	7	0	25	0	0
December	6.5	S.	30	W.	0	3	4	2	5	34	10	3	1	0	16	14	1	3	1	4	3	0	0	7	0	20	0	0
Year	6.5	S.	32	N.	0	101	74	32	57	242	89	55	80	0	144	145	76	96	67	71	48	1	5	39	16	142	50	1

DES MOINES, IOWA

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

January	7.0	N.	25	NW.	0	11	5	8	5	5	8	6	14	0	9	6	16	10	8	16	9	0	0	26	0	31	1	0
February	5.9	N.	19	SW.	0	14	5	6	6	3	11	6	5	0	8	7	13	15	9	18	15	0	0	19	0	28	0	0
March	7.3	SW.	28	SW.	0	10	4	3	4	8	15	8	10	0	6	10	15	5	4	3	1	1	1	3	0	13	1	0
April	8.2	SW.	32	SW.	0	7	8	9	6	8	11	6	5	0	6	11	13	11	9	1	1	0	0	0	0	2	5	0
May	6.8	N.	20	SW.	0	5	6	6	9	11	10	5	10	0	4	11	16	11	9	0	0	0	0	0	0	0	2	0
June	6.5	S.	23	SW.	0	5	5	6	3	15	10	7	9	0	9	12	9	10	7	0	0	0	0	3	0	6	0	0
July	5.6	SW.	22	SW.	0	10	1	11	4	10	17	6	3	0	7	13	11	9	7	0	0	0	1	0	8	0	10	0
August	5.2	SW.	18	SE.	0	8	8	8	3	13	10	8	3	1	12	12	7	7	5	0	0	0	0	0	5	0	7	0
September	6.0	S.	25	SW.	0	12	6	4	10	12	8	4	3	1	8	12	10	9	9	0	0	0	1	0	2	0	7	0
October	8.6	E.	30	E.	0	8	1	12	11	10	7	4	8	1	14	4	13	9	7	1	0	0	4	0	0	1	2	0
November	9.4	N.	40	NW.	1	12	0	3	3	9	10	6	17	0	10	13	7	9	6	6	3	0	1	7	0	21	0	0
December	8.9	NW.	30	N.	0	6	3	6	5	8	7	7	19	1	9	8	14	10	3	6	4	0	3	11	0	27	0	2
Year	7.1	SW.	40	NW.	1	108	52	82	69	112	124	73	106	4	102	119	144	115	83	51	33	1	11	66	18	123	41	2

DETROIT, MICH.

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

January	11.5	W.	38	SW.	5	2	6	3	5	4	15	19	8	0	7	7	17	19	12	22	15	0	0	19	0	30	0	0
February	8.9	W.	32	W.	0	4	4	11	4	3	10	13	7	0	2	12	14	12	8	21	10	0	0	17	0	26	0	0
March	11.4	SW.	48	W.	4	6	10	4	3	3	25	8	3	0	6	11	14	18	12	7	4	0	0	1	0	12	3	0
April	11.2	SW.	53	SW.	1	4	9	7	6	4	12	10	8	0	9	8	13	15	9	2	0	1	0	0	0	3	6	0
May	9.5	SW.	38	NW.	3	8	9	7	6	4	11	15	2	0	10	8	13	12	9	2	0	0	0	0	1	0	7	0
June	8.0	SW.	28	SW.	0	7	9	5	6	6	11	14	2	0	13	14	3	10	8	0	0	0	0	0	1	0	6	0
July	8.5	SW.	34	SW.	2	5	5	12	6	3	14	17	0	0	13	14	4	10	8	0	0	0	0	0	6	0	10	0
August	7.3	SW.	21	NW.	0	8	12	4	5	5	11	12	5	0	14	11	6	7	2	0	0	0	0	0	3	0	4	0
September	7.9	SW.	31	SW.	0	6	12	10	3	6	13	7	3	0	11	12	7	10	7	0	0	0	0	0	3	0	6	0
October	10.3	SW.	30	SW.	0	11	5	9	4	5	15	9	4	0	13	5	13	13	8	1	0	0	0	0	0	0	0	0
November	10.6	W.	33	SW.	2	5	6	5	0	2	18	22	2	0	4	16	10	11	6	9	3	0	0	5	0	13	0	0
December	11.1	W.	46	SW.	3	2	9	10	1	1	16	21	2	0	0	3	28	15	12	18	12	0	2	15	0	28	0	0
Year	9.7	SW.	53	SW.	20	68	96	87	49	46	171	167	46	0	102	121	142	152	101	82	45	1	2	57	14	112	42	0

Annual meteorological summary for the year ending December 31, 1929—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.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*			
January	28.485	28.900	27.770	−11.9	−3.3	−5.0	3.1	−17.3	−7.1	29	−32	−13	−6	−7	94	90	92	0.024	0.033	0.030	0.41	0.16	3.4	4.8	3.7	4.8
February	28.456	28.830	27.790	−4.2	6.7	4.5	10.8	−7.9	1.4	33	−29	−6	4	2	91	87	89	.036	.055	.050	.12	.03	5.8	5.7	4.6	5.7
March	28.242	28.830	27.492	21.9	33.3	31.2	38.4	18.7	28.6	66	−2	18	25	26	86	74	80	.106	.142	.140	.76	.38	6.6	5.2	6.7	5.5
April	28.305	28.680	27.520	31.0	46.4	45.7	51.1	28.6	39.8	71	16	27	30	30	84	56	58	.146	.165	.169	1.54	.47	4.2	5.4	5.1	5.3
May	28.430	28.860	27.900	38.7	55.0	55.8	60.3	34.2	47.2	87	17	32	33	32	75	46	44	.191	.208	.202	2.17	.61	3.5	4.4	4.1	4.1
June	28.331	28.740	27.820	53.2	69.0	67.5	73.4	48.0	60.7	90	35	46	46	46	78	46	49	.330	.333	.325	5.26	4.08	4.2	4.7	3.5	4.3
July	28.384	28.750	27.970	59.1	77.7	75.6	82.2	54.8	68.5	100	46	53	54	54	80	46	50	.409	.430	.444	3.41	2.75	2.8	3.6	2.6	3.4
August	28.428	28.750	28.050	55.6	77.3	74.7	82.1	52.1	67.1	99	37	48	48	49	76	38	43	.339	.345	.334	1.55	.99	2.6	4.1	3.2	3.6
September	28.424	28.810	27.819	43.0	57.6	55.4	61.3	40.3	50.8	100	23	38	39	40	83	54	60	.246	.258	.267	2.73	1.86	5.9	5.9	6.0	6.1
October	28.466	28.970	27.933	36.3	52.8	47.0	55.4	33.6	44.5	79	19	32	36	36	87	58	67	.189	.219	.212	2.12	.88	4.4	4.9	4.2	4.9
November	28.426	29.070	27.720	17.8	24.0	22.5	28.3	13.2	20.8	43	−12	16	20	20	91	85	90	.100	.116	.116	.78	.19	5.3	6.9	6.7	6.7
December	28.446	29.170	27.775	5.5	10.4	8.4	15.4	−0.1	7.6	39	−31	3	7	6	89	86	88	.059	.068	.063	.87	.31	5.7	5.5	5.4	5.9
Year	28.402	29.170	27.492	28.8	42.2	40.2	46.8	24.8	35.8	100	−32	24	28	28	84	64	68	.181	.198	.198	21.72	4.08	4.5	5.1	4.6	5.0

DODGE CITY, KANS.

[ϕ=37° 45′ N.; λ=100° 00′ W.]

January	27.406	27.840	26.710	19.8	30.0	27.9	36.1	15.8	26.0	58	1	16	20	20	85	66	71	0.095	0.110	0.111	0.56	0.50	4.8	4.8	5.5	5.0
February	27.427	27.820	27.020	16.7	30.2	27.5	35.1	13.7	24.4	56	−12	14	19	20	90	62	73	.088	.107	.112	.72	.24	5.1	4.1	5.8	4.5
March	27.304	27.810	26.720	35.5	54.7	51.8	60.0	32.9	46.4	84	19	26	26	27	69	36	40	.146	.147	.151	.48	.48	4.5	4.6	4.2	4.4
April	27.270	27.590	26.902	45.5	64.6	62.8	70.0	43.3	56.6	90	24	38	39	40	76	43	48	.239	.249	.263	1.67	.70	4.3	4.2	4.1	4.2
May	27.408	27.739	26.970	53.9	67.0	65.6	71.3	50.9	61.1	87	32	50	49	48	88	55	60	.379	.370	.384	2.61	1.52	6.8	5.5	5.9	5.9
June	27.358	27.621	27.044	64.0	80.0	79.3	84.6	60.8	72.7	99	50	56	56	58	77	48	51	.456	.463	.487	2.73	1.32	4.9	2.9	4.0	3.4
July	27.437	27.640	27.180	69.6	87.8	84.8	91.3	66.9	79.1	100	58	62	60	60	78	42	46	.560	.531	.530	5.51	2.42	3.3	2.9	3.5	3.1
August	27.456	27.650	27.209	67.7	88.5	84.8	92.0	66.3	79.2	102	57	59	57	58	76	38	44	.511	.481	.492	1.58	.64	3.9	2.5	3.7	3.1
September	27.423	27.740	27.132	56.7	74.1	70.4	79.0	54.5	66.8	100	44	49	49	50	78	46	52	.358	.357	.366	2.61	1.75	3.5	3.8	3.1	3.1
October	27.461	27.730	26.850	48.1	64.1	58.3	67.7	45.2	56.4	84	27	43	43	44	84	52	62	.305	.308	.317	.85	.65	4.3	4.3	3.7	4.4
November	27.535	27.950	27.115	28.4	40.2	35.3	43.3	24.7	34.0	68	1	25	29	28	87	66	76	.136	.159	.156	2.53	.90	5.3	4.9	4.5	4.6
December	27.488	27.900	26.980	25.5	43.8	37.0	50.1	21.9	36.0	71	0	20	25	24	81	51	60	.117	.151	.138	.05	.02	2.8	3.8	2.4	3.3
Year	27.414	27.950	26.710	44.3	60.4	57.1	65.0	41.4	53.2	102	−12	38	39	40	81	50	57	.282	.286	.292	21.90	2.42	4.5	4.0	4.2	4.1

DUBUQUE, IOWA

[ϕ=42° 30′ N.; λ=90° 44′ W.]

January	29.327	29.760	28.580	7.5	12.4	11.9	19.0	0.3	9.6	36	−16	0	5	7	79	68	78	0.054	0.581	0.061	3.13	1.04	6.7	6.6	5.3	6.6
February	29.352	29.840	28.570	8.8	18.5	19.1	23.2	4.9	14.0	39	−24	6	9	13	86	64	75	.062	.071	.084	1.00	.68	5.4	6.8	6.8	7.0
March	29.141	29.860	28.440	33.7	42.2	42.1	46.9	30.4	38.6	64	7	28	30	30	78	63	64	.158	.173	.178	2.41	1.17	6.6	6.3	6.0	6.5
April	29.120	29.530	28.548	46.2	55.5	54.7	59.7	42.3	51.0	83	24	38	38	40	72	54	60	.241	.245	.263	3.47	.80	6.5	6.7	6.6	6.3
May	29.299	29.706	28.770	51.5	62.7	61.9	66.7	46.9	56.8	87	33	42	41	42	72	48	51	.304	.297	.300	1.39	.65	6.2	6.8	6.1	6.6
June	29.200	29.530	28.790	61.5	71.5	72.3	76.1	56.6	66.4	87	43	53	52	54	74	52	[illegible]	.423	.404	.433	4.69	2.23	5.5	6.8	5.3	6.3
July	29.266	29.550	28.910	67.7	80.5	79.7	83.8	64.2	74.0	94	52	59	59	61	75	46	55	.515	.513	.553	1.47	.65	5.5	5.9	4.5	5.7
August	29.291	29.566	28.924	63.2	77.0	75.6	80.5	60.2	70.4	92	48	57	57	58	81	51	56	.479	.474	.502	1.83	1.51	5.1	5.3	4.8	4.9
September	29.304	29.630	28.940	56.1	69.2	65.9	72.3	53.0	62.6	91	35	49	49	50	78	50	59	.364	.370	.386	1.55	.91	5.4	4.6	4.6	5.0
October	29.297	29.660	28.870	44.3	57.2	54.5	59.9	41.5	50.7	80	30	39	40	40	83	56	61	.248	.257	.256	2.10	.54	4.4	6.1	5.4	5.7
November	29.332	29.900	28.740	28.2	37.3	35.0	40.3	24.3	32.3	57	−4	23	26	26	81	64	70	.137	.152	.152	.66	.40	5.1	5.2	4.8	5.8
December	29.281	29.780	28.780	22.5	28.4	27.7	32.3	18.8	25.6	56	−4	20	23	23	90	79	82	.117	.129	.131	.54	.29	8.2	7.2	5.6	7.5
Year	29.268	29.900	28.440	40.9	51.0	50.0	55.1	37.0	46.0	94	−24	34	36	37	79	58	64	.258	.306	.275	24.26	2.23	5.9	6.2	5.5	6.2

DUE WEST, S. C.

[ϕ=34° 21′ N.; λ=82° 22′ W.]

January	29.363	29.830	28.930	37.6	48.3	-----	53.7	34.9	44.3	73	22	34	35	----	85	64	----	0.207	0.226	-----	3.05	0.72	4.9	5.1	----	5.3
February	29.336	29.730	28.870	37.8	47.5	-----	52.3	35.1	43.7	71	24	35	36	----	88	68	----	.220	.235	-----	9.69	2.89	6.7	6.2	----	6.6
March	29.288	29.820	28.613	50.1	60.9	-----	66.4	45.9	56.2	88	29	44	42	----	80	54	----	.317	.306	-----	10.94	4.52	5.5	5.4	----	5.6
April	29.243	29.780	28.650	57.5	69.3	-----	73.9	52.2	63.0	86	40	51	50	----	79	53	----	.383	.377	-----	5.44	2.97	4.8	5.7	----	5.0
May	29.367	29.760	28.590	64.2	74.0	-----	77.7	58.7	68.2	85	42	59	59	----	83	61	----	.518	.524	-----	4.99	.99	6.6	6.3	----	6.4
June	29.256	29.477	28.970	71.1	80.2	-----	84.7	64.6	74.6	95	51	65	64	----	82	60	----	.627	.604	-----	5.20	1.50	5.7	5.9	----	6.2
July	29.353	29.590	29.090	73.1	84.2	-----	87.5	67.1	77.3	95	61	68	67	----	84	57	----	.690	.665	-----	4.16	.95	6.1	5.4	----	5.8
August	29.276	29.560	29.007	72.1	84.5	-----	88.6	67.7	78.2	96	60	66	65	----	92	53	----	.648	.623	-----	.66	.30	4.6	4.7	----	4.0
September	29.321	29.521	29.060	66.7	75.3	-----	78.4	63.7	71.0	92	47	63	63	----	89	69	----	.595	.600	-----	15.44	5.96	6.0	7.0	----	6.6
October	29.317	29.780	28.730	53.2	65.9	-----	69.3	49.2	59.2	82	35	48	48	----	83	55	----	.344	.352	-----	8.78	6.53	4.0	4.4	----	4.1
November	29.357	29.660	28.900	48.6	56.2	-----	59.1	45.1	52.1	80	16	44	44	----	86	66	----	.327	.333	-----	5.27	2.02	6.6	6.5	----	6.2
December	29.397	29.810	28.750	36.4	48.7	-----	54.5	33.9	44.2	76	18	34	36	----	88	65	----	.218	.240	-----	3.87	1.75	4.5	4.6	----	4.3
Year	29.323	29.830	28.590	55.7	66.2	-----	70.5	51.5	61.0	96	16	51	51	----	84	60	----	.424	.424	-----	77.49	6.53	5.5	5.6	----	5.5

Annual meteorological summary for the year ending December 31, 1929—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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	7.5	W.	35	N.	1	6	3	4	4	2	16	14	13	0	14	7	10	8	4	12	8	0	0	31	0	31	0	1
February	7.3	W.	22	NW.	0	4	4	3	6	6	6	15	12	0	7	9	12	7	0	14	7	0	0	27	0	28	0	1
March	9.4	NE.	32	NW.	0	9	10	5	10	8	6	5	9	0	8	11	12	11	4	12	9	0	0	11	0	29	0	4
April	9.2	NE.	35	NE.	1	5	20	6	6	3	4	8	8	0	9	12	9	11	9	7	5	0	2	2	0	21	0	0
May	10.0	NW.	28	N.	0	12	7	4	8	6	4	7	14	0	16	10	5	8	5	4	2	0	0	0	0	16	2	0
June	8.0	W.	28	SE.	0	5	4	6	10	5	9	13	8	0	13	12	5	11	10	0	0	2	0	0	1	0	11	0
July	7.1	SE.	38	NW.	2	4	4	9	11	9	5	9	11	0	17	12	2	8	4	0	0	2	0	0	7	0	8	1
August	7.0	S.	27	NW.	0	6	4	9	10	14	3	3	13	0	17	10	4	7	7	0	0	0	0	0	7	0	5	0
September	7.0	S.	24	NE.	0	7	10	1	9	8	5	8	12	0	7	10	13	6	4	0	0	0	1	0	1	5	2	0
October	7.9	SE.	31	NW.	0	10	4	9	10	3	9	10	7	0	14	5	12	6	6	5	4	0	2	2	0	13	0	0
November	9.7	NW.	37	N.	2	9	1	2	3	4	15	10	16	0	6	10	14	9	6	15	8	0	0	15	0	30	0	0
December	9.5	W.	31	NW.	0	6	7	3	4	5	11	12	14	0	9	8	14	13	5	15	13	0	0	25	0	31	0	2
Year	8.3	W.	38	NW.	6	83	78	61	91	73	93	114	137	0	137	116	112	105	64	84	56	4	5	113	16	204	28	9

DODGE CITY, KANS.

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

January	8.5	SE.	29	NW.	0	9	9	3	13	11	6	3	8	0	12	10	9	4	2	10	3	0	2	12	0	31	0	0
February	7.7	N.	22	SE.	0	9	6	1	10	6	7	6	11	0	15	3	10	5	4	10	5	0	1	13	0	28	0	0
March	9.5	NW.	33	SE.	1	7	10	3	3	10	8	8	12	1	16	6	9	1	1	1	0	0	0	0	0	15	1	0
April	10.9	NW.	36	NW.	2	5	9	7	10	5	10	3	11	0	15	9	6	8	5	0	0	2	0	0	1	3	6	0
May	9.8	SE.	30	SE.	0	4	10	5	19	16	2	2	3	1	7	12	12	10	7	0	0	0	0	0	0	0	5	0
June	9.2	SE.	28	S.	0	5	11	3	20	13	3	2	3	0	19	6	5	8	6	0	0	2	0	0	0	0	0	0
July	7.6	SE.	29	NE.	0	6	3	2	26	15	7	3	0	0	19	7	5	10	9	0	0	1	0	0	22	0	12	0
August	7.1	SE.	30	NE.	0	3	6	3	20	17	4	3	6	0	20	5	6	9	8	0	0	0	1	0	16	0	8	0
September	9.0	S.	27	SE.	0	6	11	2	14	16	2	3	6	0	19	6	5	7	6	0	0	0	0	0	4	0	5	0
October	6.9	NW.	22	NE.	0	3	7	2	15	7	7	5	16	0	16	7	8	7	5	0	0	0	2	0	0	4	2	0
November	7.7	NW.	26	NE.	0	6	6	2	3	6	4	9	24	0	15	4	11	8	8	13	8	0	0	6	0	30	0	0
December	6.8	NW.	25	NW.	0	6	7	0	8	2	6	10	22	1	18	6	7	3	0	2	1	0	8	3	0	29	0	0
Year	8.4	SE.	36	NW.	3	69	95	33	161	124	66	57	122	3	191	81	93	80	61	36	17	5	14	34	57	140	49	0

DUBUQUE, IOWA

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

January	5.9	NW.	23	NW.	0	10	8	2	3	9	8	1	21	0	6	9	16	15	9	23	14	0	0	28	0	31	0	0
February	4.9	NW.	19	NW.	0	4	13	1	5	7	7	0	18	1	8	2	18	9	3	19	8	0	3	21	0	28	0	0
March	6.7	S.	32	NW.	0	5	8	3	6	17	7	3	13	0	8	7	16	9	6	3	2	2	3	3	0	14	3	0
April	6.6	S.	24	N.	0	6	8	5	8	14	6	0	12	1	7	8	15	13	12	3	1	3	0	0	0	1	4	0
May	5.8	NW.	23	NE.	0	9	4	3	12	14	3	0	15	2	8	8	15	8	5	1	0	2	1	0	0	0	2	0
June	5.1	S.	24	NW.	0	4	10	4	12	12	2	2	14	0	8	11	11	8	7	0	0	1	1	0	0	0	7	0
July	4.7	S.	24	S.	0	1	5	1	13	18	8	1	13	2	10	10	11	11	9	0	0	0	0	0	4	0	9	0
August	4.3	S.	21	N.	0	9	5	3	5	18	9	0	10	3	12	11	8	3	2	0	0	0	2	0	1	0	4	0
September	5.3	S.	20	S.	0	5	2	0	12	24	3	0	12	2	13	6	11	7	6	0	0	0	0	0	1	0	2	0
October	5.5	NW.	24	N.	0	6	3	3	8	13	9	2	13	5	11	5	15	11	11	2	2	0	6	0	0	1	0	0
November	6.1	NW.	22	NW.	0	7	3	0	1	11	11	2	25	0	10	8	12	8	3	8	4	0	1	8	0	20	0	0
December	5.8	NW.	23	N.	0	6	8	4	7	6	9	4	18	0	4	7	20	12	3	13	6	0	9	13	0	30	0	1
Year	5.6	NW.	32	NW.	0	72	77	29	92	163	82	15	184	16	105	92	168	114	76	72	37	8	26	73	6	125	31	1

DUE WEST, S. C.

[H_b=711 ft.; h_t=10 ft.; h_r=4 ft.; h_a=55 ft.]

January	8.8	W.	33	W.	1	2	8	5	1	3	2	9	1	0	12	7	12	12	11	0	0	0	4	0	0	14	0	0
February	6.7	NE.	28	NW.	0	3	7	6	2	1	4	2	3	0	6	9	13	11	10	2	1	0	0	8	0	12	4	0
March	9.3	SW.	40	W.	2	1	3	8	4	3	7	3	2	0	8	10	13	13	12	0	0	0	2	0	0	4	2	0
April	8.5	SW.	34	NW.	1	3	4	1	2	2	12	8	1	0	12	11	7	11	9	0	0	1	0	0	0	0	7	0
May	7.7	SW.	40	W.	1	1	7	4	4	4	10	1	0	0	6	11	14	12	10	0	0	0	2	0	0	0	10	0
June	6.7	SW.	26	NE.	0	1	4	3	3	3	10	3	3	0	5	12	13	13	9	0	0	0	0	0	0	8	15	0
July	6.0	SW.	38	S.	1	0	5	4	4	4	8	6	0	0	5	18	8	12	9	0	0	0	1	0	0	9	17	0
August	6.2	SW.	29	NW.	0	0	12	4	0	2	5	4	1	3	13	15	3	9	4	0	0	0	1	0	0	13	11	0
September	7.5	NE.	24	W.	0	1	13	8	2	3	2	1	0	0	3	13	14	16	13	0	0	0	4	0	2	0	8	0
October	8.6	NE.	39	NE.	1	3	14	3	0	0	5	4	2	0	16	7	8	5	4	0	0	0	0	0	0	0	1	0
November	7.5	NE.	25	W.	0	1	9	6	0	5	3	6	0	0	10	3	17	14	13	1	0	0	2	1	0	4	2	0
December	7.9	SW.	30	SW.	0	1	4	3	0	1	11	7	4	0	15	7	9	8	7	1	1	0	6	1	0	13	1	0
Year	7.6	SW.	40	W.	7	17	90	55	22	31	79	51	17	3	111	123	131	136	111	4	2	2	30	2	34	47	82	0

Annual meteorological summary for the year ending December 31, 1929—Continued

DULUTH, MINN.

[ϕ=46° 47′ N.; λ=92° 06′ W.]

Month	Pressure			Temperature								Moisture											
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	D. light
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.793	29.230	28.162	−6.7	2.5	−0.3	7.0	−12.3	−2.6	26	−34	−11	−5	−6	78	67	76	0.026	0.034	0.033	1.51	0.40	3.6	3.4	3.5	4.1
February	28.827	29.290	28.200	1.4	11.5	9.5	15.6	−2.0	6.8	34	−26	−1	5	5	89	72	81	.044	.053	.057	.37	.15	5.8	5.0	4.4	5.2
March	28.620	29.280	27.950	23.7	31.9	29.2	36.1	20.5	28.3	57	−10	20	22	22	84	67	74	.115	.121	.127	1.79	.70	6.3	6.3	5.9	6.1
April	28.684	29.080	28.020	33.2	43.9	39.9	47.7	30.0	38.8	74	19	27	29	29	77	58	65	.148	.161	.157	1.61	.70	5.5	4.7	5.3	5.2
May	28.804	29.230	28.460	41.7	52.0	48.9	56.5	36.0	46.2	81	20	33	36	35	71	58	60	.202	.231	.219	1.97	.85	4.2	4.8	4.1	4.9
June	28.724	29.135	28.320	52.7	64.8	60.1	68.9	45.8	57.4	86	33	45	48	48	75	57	65	.313	.354	.353	2.77	1.08	3.5	4.9	4.9	4.3
July	28.765	29.144	28.330	60.8	73.0	69.2	76.5	54.3	65.4	92	43	54	57	56	79	59	64	.426	.474	.458	3.41	2.06	2.8	3.8	3.4	3.2
August	28.814	29.140	28.496	58.1	72.3	67.1	76.2	54.4	65.3	90	41	53	56	54	83	58	64	.404	.451	.427	.93	.34	4.8	3.4	4.6	4.2
September	28.803	29.160	28.320	48.4	59.4	54.1	62.8	44.8	53.8	90	28	43	46	44	83	67	72	.295	.332	.307	4.82	2.06	4.4	6.1	5.1	5.7
October	28.819	29.270	28.260	40.1	52.0	47.4	54.9	37.3	46.1	82	28	34	38	36	79	61	66	.205	.237	.221	2.47	1.26	5.7	5.9	4.8	5.5
November	28.763	29.320	27.976	20.7	28.7	25.1	32.2	16.8	24.5	57	−17	17	18	18	83	63	72	.106	.112	.113	.59	.13	5.4	5.3	4.4	5.4
December	28.785	29.360	28.050	11.3	17.0	14.5	20.5	6.7	13.6	41	−17	9	10	10	88	74	80	.069	.074	.073	.92	.34	6.4	6.0	5.3	6.1
Year	28.767	29.360	27.950	32.1	42.4	38.7	46.2	27.7	37.0	92	−34	27	30	29	81	63	70	.196	.220	.212	23.16	2.06	4.9	5.0	4.6	5.0

EASTPORT, MAINE

[ϕ=44° 54′ N.; λ= 66° 59′ W.]

January	29.769	30.760	28.940	19.0	23.7	21.9	30.6	11.5	21.0	55	−9	12	13	13	72	63	67	0.093	0.095	0.092	3.58	1.03	6.4	6.2	4.9	6.4
February	29.969	30.450	29.420	21.0	26.0	26.2	30.3	17.1	23.7	43	2	16	18	19	79	69	73	.094	.102	.110	2.15	.54	6.4	6.8	5.7	6.6
March	29.753	30.360	28.540	30.2	33.8	32.1	37.6	24.5	31.0	52	−4	23	24	24	76	69	73	.138	.142	.138	3.11	1.64	7.8	7.4	6.4	7.0
April	29.814	30.350	28.980	36.8	40.4	38.4	44.3	32.1	38.2	58	23	29	27	29	73	61	71	.162	.152	.165	2.69	.79	7.5	6.5	7.5	7.4
May	29.917	30.445	29.170	48.4	52.6	47.9	56.7	40.6	48.6	82	34	39	38	40	72	61	75	.244	.236	.250	3.28	.56	5.9	6.5	7.1	7.0
June	29.816	30.120	29.380	54.0	60.4	54.8	64.4	46.6	55.5	85	40	48	49	47	81	68	78	.336	.351	.328	1.55	1.01	6.7	5.8	4.3	7.2
July	29.873	30.269	29.400	59.9	65.3	60.0	70.5	51.5	61.0	85	46	52	52	51	78	67	75	.397	.400	.381	1.48	.56	4.6	5.5	5.1	6.6
August	29.842	30.121	29.210	59.5	64.2	59.3	67.5	52.7	60.1	76	49	52	52	52	79	68	79	.399	.398	.395	2.13	.95	5.1	6.1	4.2	6.9
September	30.016	30.550	29.580	55.6	60.3	55.8	63.6	50.0	56.8	81	40	49	49	49	80	69	80	.363	.361	.360	4.28	1.14	6.7	6.3	6.5	6.8
October	29.886	30.518	28.970	45.4	49.8	46.4	52.1	40.5	46.3	61	27	39	39	40	79	69	79	.254	.254	.259	1.67	1.03	6.9	6.6	7.4	7.5
November	29.890	30.480	28.940	36.1	40.1	37.9	43.2	30.8	37.0	57	10	29	29	29	74	65	70	.173	.175	.179	2.25	.76	7.1	6.6	5.5	7.3
December	29.913	30.557	28.810	24.0	27.2	24.5	30.8	17.6	24.2	45	2	19	20	18	79	74	75	.114	.122	.105	3.57	.96	7.0	8.3	7.8	8.0
Year	29.872	30.760	28.540	40.8	45.3	42.1	49.3	34.6	42.0	85	−9	34	34	34	77	67	75	.231	.232	.230	31.74	1.64	6.5	6.6	6.0	7.0

ELKINS, W. VA.

[ϕ=38° 53′ N.; λ=79° 49′ W.]

January	27.985	28.440	27.350	27.4	32.4	31.3	42.5	20.0	31.2	67	−10	22	23	23	79	70	72	0.133	0.144	0.140	3.21	1.00	8.3	8.0	7.1	8.1
February	27.999	28.340	27.510	23.7	32.8	30.4	37.9	19.4	28.6	59	−1	20	23	24	87	67	77	.119	.131	.135	2.58	.92	7.9	7.4	7.2	7.8
March	27.931	28.410	27.070	37.7	49.3	47.3	57.5	31.2	44.4	86	7	32	32	33	82	57	62	.204	.201	.211	3.42	1.19	6.5	6.9	6.1	7.2
April	27.809	28.344	27.340	48.5	58.1	55.2	63.9	41.2	52.6	82	26	40	37	40	74	53	59	.168	.244	.260	4.49	1.00	6.3	6.5	7.0	6.6
May	28.046	28.410	27.090	53.7	63.3	60.1	69.3	46.0	57.6	84	30	49	48	48	85	61	69	.367	.362	.368	8.09	1.96	7.6	7.5	7.2	7.9
June	27.988	28.220	27.730	59.5	71.8	67.5	76.6	52.4	64.5	88	34	55	55	57	85	54	70	.441	.423	.477	4.62	1.71	6.1	5.6	6.0	6.1
July	28.060	28.300	27.812	64.1	76.4	70.7	80.6	56.7	68.6	87	41	59	58	61	84	54	72	.506	.501	.545	5.26	1.29	5.4	6.0	5.4	5.9
August	28.040	28.276	27.710	58.1	72.7	66.8	76.9	53.7	65.3	85	42	55	54	58	90	54	74	.447	.436	.493	1.81	1.20	5.2	5.5	5.6	6.0
September	28.091	28.296	27.880	55.2	71.0	63.4	75.9	49.9	62.9	87	32	52	53	56	92	55	78	.412	.420	.474	3.28	.94	3.8	4.6	3.9	5.5
October	28.025	28.483	27.280	43.8	56.5	49.7	60.7	38.2	49.4	76	28	39	40	41	85	57	75	.250	.258	.288	7.28	4.34	6.5	6.4	4.7	6.9
November	28.023	28.370	27.300	37.6	43.6	40.9	49.2	32.3	40.8	75	−3	34	35	35	86	72	79	.221	.234	.232	4.55	1.52	7.4	8.3	6.8	8.3
December	27.993	28.410	27.340	34.2	39.1	37.2	45.2	27.8	36.5	67	−8	29	30	30	81	72	76	.182	.190	.182	2.41	.59	8.7	7.7	6.0	7.5
Year	28.008	28.483	27.070	45.3	55.6	51.7	61.4	39.1	50.2	88	−10	40	41	42	84	60	72	.296	.295	.315	51.00	4.34	6.6	6.7	6.1	7.0

ELLENDALE, N. DAK.

[ϕ=45° 59′ N.; λ=98° 34′ W.]

January	28.519	28.940	27.850	−3.9	2.7	.....	8.5	−11.8	−1.6	30	−26	−8	−2	...	81	77	...	0.033	0.058	.....	0.74	0.23	4.9	6.6	.....	5.8
February	28.489	28.832	27.900	0.3	8.4	.....	13.6	−5.8	3.9	31	−36	−2	4	...	86	79	...	.042	.057	.....	.32	.12	7.0	6.6	.....	6.6
March	28.266	28.900	27.612	27.3	36.5	.....	41.1	24.0	32.6	66	0	25	27	...	89	68	...	.138	.152	.....	.78	.49	6.9	6.3	.....	6.4
April	28.319	28.620	27.490	33.9	48.4	.....	53.6	31.7	42.6	80	19	31	31	...	87	55	...	.173	.182	.....	2.51	.66	5.7	6.0	.....	6.1
May	28.455	28.855	27.960	43.8	58.6	.....	63.6	38.1	50.8	85	22	38	36	...	78	46	...	.243	.234	.....	1.42	.66	4.5	4.5	.....	4.4
June	28.356	28.710	27.880	56.3	72.5	.....	76.4	49.4	62.9	93	36	49	46	...	77	41	...	.359	.334	.....	.47	.18	5.3	5.7	.....	5.2
July	28.406	28.732	27.980	62.7	80.1	.....	84.9	56.5	70.7	99	43	56	55	...	80	45	...	.464	.459	.....	2.79	1.18	4.3	3.7	.....	3.8
August	28.451	28.720	28.080	56.9	78.9	.....	83.6	52.5	68.0	97	38	52	54	...	84	44	...	.398	.428	.....	1.70	.60	3.2	2.8	.....	3.9
September	28.448	28.840	27.930	46.5	60.1	.....	64.5	42.4	53.4	94	20	42	43	...	85	56	...	.279	.294	.....	1.40	.59	7.9	7.0	.....	6.9
October	28.484	28.890	27.910	38.3	56.0	.....	59.0	35.5	47.2	84	23	35	37	...	87	54	...	.205	.229	.....	3.30	1.57	4.2	4.7	.....	4.9
November	28.489	29.110	27.897	21.6	29.5	.....	33.9	17.7	25.8	50	−6	19	21	...	88	70	...	.109	.119	.....	.21	.09	5.7	6.8	.....	6.4
December	28.474	28.200	27.960	11.7	17.4	.....	22.6	6.1	14.4	45	−19	8	12	...	86	80	...	.071	.084	.....	.23	.15	5.1	6.0	.....	6.5
Year	28.430	29.200	27.490	33.0	45.8	.....	50.4	28.0	39.2	99	−36	29	30	...	84	60	...	.210	.219	.....	15.87	1.57	5.4	5.6	.....	5.6

Annual meteorological summary for the year ending December 31, 1929—Continued

DULUTH, MINN.

[H_b=1,133 ft.; h_t=5 ft.; h_r=3 ft.; h_a=47 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: Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	12.5	NW.	56	NW.	7	1	1	4	1	1	7	21	26	0	15	8	8	13	8	16	13	0	0	31	0	31	0	0
February	10.2	NW.	34	NW.	1	5	6	4	0	0	6	13	22	0	9	8	11	8	3	14	8	0	1	28	0	28	0	1
March	12.1	SW.	53	NW.	5	6	11	7	0	3	15	7	13	0	9	8	14	10	7	10	6	0	5	12	0	26	0	1
April	12.4	NE.	37	NE.	6	1	31	5	1	0	9	6	7	0	13	8	9	7	4	4	3	0	1	1	0	21	1	0
May	11.3	NW.	30	NW.	0	5	18	9	0	0	5	10	15	0	12	10	9	8	7	3	1	1	4	0	0	11	3	1
June	9.5	NE.	29	NE.	0	3	19	8	0	0	8	12	10	0	8	18	4	12	9	0	0	1	4	0	0	0	8	0
July	8.6	NW.	32	W.	0	3	10	10	2	2	8	14	11	2	15	11	2	8	5	0	0	0	1	0	0	0	8	0
August	8.9	NW.	33	NW.	1	9	11	9	0	2	11	7	13	0	16	10	5	8	5	0	0	0	1	0	0	0	3	0
September	11.0	NW.	31	NW.	0	2	11	5	1	3	11	8	19	0	11	7	12	13	10	0	0	0	2	0	0	3	1	0
October	12.4	NW.	36	N.	3	7	4	9	5	1	6	15	15	0	10	8	13	8	5	2	1	0	2	0	0	10	2	0
November	13.3	NW.	39	NW.	4	5	2	1	1	0	15	18	18	0	10	8	12	9	5	12	6	0	0	10	0	26	0	0
December	12.0	NW.	46	NW.	6	11	4	2	4	4	9	8	20	0	9	8	14	13	8	18	12	0	1	26	0	31	0	1
Year	11.2	NW.	56	NW.	33	58	128	73	15	16	110	139	189	2	140	112	113	117	76	79	50	3	25	106	3	187	21	5

EASTPORT, MAINE

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

January	13.4	W.	38	S.	7	4	1	2	4	3	11	11	26	0	11	2	18	20	16	18	16	1	0	17	0	30	1	1
February	9.3	NW.	36	NE.	2	8	8	6	3	1	5	10	15	0	8	4	16	11	9	12	9	0	2	17	0	28	0	1
March	10.8	S.	38	NW.	2	9	3	4	6	12	9	11	8	0	4	13	14	17	12	13	10	0	7	6	0	23	2	0
April	12.1	S.	54	E.	5	6	10	7	3	12	9	8	5	0	5	6	19	13	9	5	3	0	5	1	0	15	1	0
May	9.7	S.	34	NW.	1	4	3	8	3	16	16	9	3	0	6	5	20	14	13	1	0	0	7	0	0	0	5	0
June	6.9	S.	28	SE.	0	5	6	2	1	28	8	4	5	1	2	11	17	11	5	0	0	1	11	0	0	0	2	0
July	7.6	S.	26	SW.	0	2	0	1	0	27	11	8	12	1	11	6	14	11	7	0	0	1	12	0	0	0	1	0
August	7.2	S.	26	S.	0	4	1	0	4	22	10	10	11	0	4	11	16	9	7	0	0	0	11	0	0	0	2	0
September	7.5	S.	25	NW.	0	9	6	3	1	15	15	6	4	1	6	6	18	14	10	0	0	0	9	0	0	0	0	1
October	8.7	W.	30	E.	0	6	3	5	1	12	15	13	5	2	6	4	21	13	9	2	1	0	5	0	0	4	0	1
November	8.7	W.	41	E.	1	7	2	2	4	9	12	13	11	0	4	8	18	12	8	6	5	0	4	4	0	13	0	2
December	11.4	W.	36	E.	3	10	8	5	3	3	6	17	9	1	4	6	21	17	13	17	13	0	3	18	0	30	0	0
Year	9.4	S.	54	E.	21	74	51	45	33	160	127	120	114	6	71	82	212	162	118	74	57	3	76	63	0	143	14	6

ELKINS, W. VA.

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

January	7.3	W.	35	NW.	2	2	4	0	10	6	11	19	8	2	2	8	21	21	17	18	14	0	1	8	0	27	0	0
February	4.8	W.	19	W.	0	5	10	3	5	2	6	13	10	2	3	6	19	15	10	19	9	0	0	7	0	26	0	0
March	6.2	W.	36	W.	1	3	4	4	4	11	8	14	9	5	6	7	18	16	10	9	6	0	3	0	0	21	1	0
April	7.1	W.	37	SW.	1	8	3	0	4	11	8	12	14	0	4	13	13	14	14	3	2	2	0	0	0	7	5	0
May	5.1	W.	30	W.	0	8	2	5	8	9	9	10	10	1	3	7	21	23	21	1	1	1	7	0	0	2	9	0
June	3.7	W.	30	N.	0	6	5	4	7	5	8	10	12	3	7	14	9	11	8	0	0	0	5	0	0	0	10	0
July	3.6	W.	27	W.	0	5	6	1	11	10	10	5	8	6	7	13	11	15	8	0	0	0	7	0	0	0	8	0
August	3.2	NW.	24	NW.	0	14	7	1	5	8	3	7	9	8	8	11	12	7	3	0	0	0	10	0	0	0	4	0
September	3.0	NW.	24	W.	0	12	6	3	10	6	2	7	7	7	10	7	13	10	9	0	0	0	7	0	0	0	4	0
October	5.2	W.	26	W.	0	7	4	4	13	5	4	9	6	10	5	9	17	12	12	2	2	0	4	0	0	6	0	0
November	5.2	W.	31	W.	0	4	5	1	6	8	10	16	8	2	4	3	23	17	14	7	4	0	4	4	0	16	0	0
December	5.8	W.	22	SW.	0	2	1	2	2	12	14	17	9	3	4	6	21	18	12	11	9	0	0	9	0	18	0	0
Year	5.0	W.	37	SW.	4	76	57	28	85	93	93	139	110	49	63	104	198	179	138	70	47	6	48	28	0	123	41	0

ELLENDALE, N. DAK.

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

January	11.1	NW.	46	NW.	5	4	8	0	1	3	1	5	9	0	9	10	12	14	7	23	14	0	2	29	0	31	0	0
February	10.9	NW.	35	N.	2	7	0	1	2	3	4	1	10	0	5	10	13	10	4	16	10	0	0	28	0	28	0	0
March	13.5	NW.	49	NW.	5	3	6	2	3	5	3	2	7	0	6	12	13	11	3	13	9	0	2	5	0	27	0	5
April	12.1	NE.	35	NW.	4	8	5	1	2	5	3	2	4	0	8	9	13	10	9	4	3	0	2	0	0	14	1	0
May	14.0	NW.	49	SW.	6	6	4	2	1	7	1	2	8	0	12	12	7	11	8	1	1	0	0	0	0	12	2	0
June	11.8	NW.	39	NW.	5	3	4	2	3	4	2	2	10	0	8	14	8	9	5	0	0	0	0	0	0	9	3	0
July	10.4	S.	46	N.	4	5	4	2	1	7	5	4	3	0	16	12	3	11	6	0	0	1	1	0	0	9	10	1
August	9.6	SE.	40	SE.	3	8	3	2	4	3	4	1	6	0	14	13	4	10	9	0	0	0	1	0	0	5	12	0
September	10.6	NW.	33	NW.	1	2	3	1	2	7	2	3	9	1	4	9	17	11	8	0	0	0	1	0	2	2	2	2
October	11.9	NW.	35	NW.	2	4	4	1	4	4	5	2	7	0	13	9	9	9	7	4	4	0	1	1	0	12	1	1
November	13.7	NW.	50	N.	3	4	1	0	1	4	5	1	14	0	6	12	12	8	2	15	8	0	1	10	0	30	0	0
December	13.2	NW.	38	NW.	5	3	3	2	3	3	3	2	12	0	7	9	15	7	1	11	6	0	0	23	0	31	0	3
Year	11.9	NW.	50	N.	45	57	45	16	27	55	38	27	99	1	108	131	126	121	69	87	55	1	11	96	20	187	31	12

Annual meteorological summary for the year ending December 31, 1929—Continued

EL PASO, TEX.

[ϕ=31° 47′ N.; λ=106° 30′ 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 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	26.167	26.500	25.810	35.9	51.4	52.8	57.8	33.0	45.4	73	22	18	18	22	48	26	30	0.099	0.098	0.116	T.	T.	2.3	2.4	2.4	3.0
February	26.122	26.520	25.810	37.7	52.1	54.7	58.4	35.3	46.8	70	18	21	20	21	52	32	28	.113	.113	.114	0.29	0.17	2.2	2.6	3.0	3.0
March	26.108	26.450	25.740	44.4	60.0	62.6	66.5	42.4	54.4	81	25	23	21	20	46	24	22	.131	.120	.115	.21	.21	2.3	3.3	3.1	3.2
April	26.083	26.310	25.880	52.4	72.5	75.6	78.6	51.2	64.9	89	44	21	18	13	30	13	9	.119	.103	.081	T.	T.	2.0	2.1	3.0	2.5
May	26.124	26.450	25.779	60.1	78.0	78.9	83.9	58.3	71.1	95	43	36	29	28	46	22	24	.238	.195	.194	1.51	.57	1.1	1.8	3.0	2.4
June	26.103	26.330	25.925	72.1	89.8	93.8	96.6	70.4	83.5	105	60	37	32	29	31	15	12	.245	.200	.174	.54	.54	1.0	1.0	1.6	1.6
July	26.180	26.370	25.950	72.6	85.8	88.9	93.0	71.1	82.0	102	65	56	54	52	58	36	31	.457	.421	.390	3.01	1.47	4.4	2.5	3.5	3.9
August	26.231	26.350	26.093	69.8	84.2	85.0	89.7	68.3	79.0	95	62	57	54	53	66	37	36	.477	.423	.415	1.18	.30	3.9	2.6	4.8	3.6
September	26.149	26.360	25.970	66.7	82.0	83.5	87.4	65.8	76.6	93	59	51	50	48	59	35	32	.385	.367	.345	.12	.05	2.8	2.4	3.2	3.2
October	26.208	26.470	25.720	56.0	68.6	69.1	73.9	53.7	63.8	93	34	42	43	42	64	45	42	.282	.283	.277	1.60	.79	3.5	4.3	3.5	4.3
November	26.270	26.600	26.010	36.9	52.7	53.2	58.8	35.2	47.0	72	24	28	27	29	71	39	42	.158	.151	.166	.33	.17	1.6	1.6	1.4	1.8
December	26.293	26.600	26.000	34.5	51.1	51.8	57.5	32.3	44.7	70	15	22	22	25	61	33	38	.118	.115	.135	.50	.46	1.3	1.7	1.1	1.6
Year	26.170	26.600	25.720	53.3	69.0	70.8	75.2	51.4	63.3	105	15	34	32	32	53	30	29	.235	.216	.210	9.29	1.47	2.4	2.4	2.8	2.8

ERIE, PA.

[ϕ=42° 07′ N.; λ=80° 05′ W.]

January	29.247	29.830	28.240	23.3	26.1	25.3	32.4	18.2	25.3	65	−2	17	18	18	75	71	70	0.100	0.111	0.107	3.26	0.93	8.5	7.9	7.2	8.6
February	29.310	29.730	28.830	23.6	27.3	25.7	30.6	18.9	24.8	55	−1	17	20	19	74	73	74	.101	.112	.108	1.36	.37	8.1	7.5	6.5	7.5
March	29.149	29.730	28.180	38.1	43.8	42.0	51.2	33.2	42.2	76	11	30	32	34	75	65	72	.188	.198	.210	3.05	.81	7.2	5.8	6.0	6.4
April	29.136	29.602	28.500	46.9	51.0	49.1	55.8	41.5	48.6	81	28	40	38	39	76	63	70	.259	.251	.251	5.57	1.71	6.7	6.0	6.6	6.7
May	29.285	29.780	28.250	53.1	57.1	57.1	64.5	47.3	55.9	87	35	44	45	46	73	65	68	.312	.323	.337	3.89	1.37	6.2	4.3	4.0	4.9
June	29.205	29.440	28.790	64.4	68.5	67.9	73.5	57.1	65.3	87	42	54	56	54	70	66	63	.435	.471	.444	1.38	.52	3.9	3.0	4.0	3.7
July	29.276	29.620	28.970	69.7	76.0	73.4	80.1	63.1	71.6	92	52	59	63	61	70	66	66	.522	.586	.551	1.99	.65	3.5	2.3	3.5	3.2
August	29.264	29.590	28.890	65.1	70.6	69.7	74.3	60.4	67.4	86	51	53	56	57	66	60	64	.410	.453	.466	.29	.23	3.9	3.6	3.5	3.7
September	29.324	29.705	28.980	62.1	69.0	66.2	72.5	57.8	65.2	87	40	53	56	55	72	66	69	.421	.480	.458	1.89	.81	4.8	3.7	4.8	4.9
October	29.260	29.920	28.450	48.8	55.3	51.9	58.2	44.3	51.2	76	33	40	45	43	71	70	73	.252	.313	.290	1.65	.78	6.7	5.8	5.2	6.0
November	29.254	29.750	28.450	37.4	41.1	39.1	44.3	34.1	39.2	69	6	31	34	32	77	76	75	.189	.214	.196	4.65	1.02	8.0	7.7	6.4	8.6
December	29.236	29.730	28.691	28.7	31.3	30.2	35.1	24.7	29.9	52	7	23	25	24	78	77	78	.131	.140	.135	4.38	1.11	9.5	8.5	8.4	9.5
Year	29.246	29.920	28.180	46.8	51.4	49.8	56.0	41.7	48.9	92	−2	38	41	40	73	68	70	.277	.304	.296	33.36	1.71	6.4	5.5	5.5	6.2

ESCANABA, MICH.

[ϕ=45° 48′ N.; λ=87° 05′ W.]

January	29.229	29.880	28.400	4.1	11.8	9.9	16.9	−2.0	7.4	33	−19	2	4	4	90	70	76	0.049	0.052	0.054	2.83	0.80	5.6	5.8	4.0	4.8
February	29.420	29.920	28.550	5.0	16.2	14.4	19.9	1.2	10.6	35	−17	3	9	9	90	72	77	.051	.069	.065	.86	.54	6.7	7.0	6.7	5.9
March	29.212	29.890	28.280	25.7	32.5	29.8	37.2	21.2	29.2	59	−3	22	24	24	86	70	78	.127	.130	.131	1.41	.42	5.6	6.2	5.6	5.7
April	29.257	29.630	28.820	36.0	42.9	40.7	46.9	32.9	39.9	77	22	30	31	30	80	64	67	.173	.176	.170	3.51	.85	4.9	5.0	4.1	4.5
May	29.373	29.840	28.830	44.0	51.3	49.1	55.2	38.6	46.9	83	30	37	37	36	77	60	62	.235	.240	.228	2.25	.91	4.5	5.7	4.5	4.8
June	29.293	29.644	28.750	54.2	59.8	58.2	64.2	48.8	56.5	77	35	48	49	49	79	69	72	.345	.363	.359	3.79	1.40	5.1	5.8	5.4	4.7
July	29.333	29.690	28.820	63.2	69.9	68.1	74.0	56.8	65.4	91	47	55	56	56	76	64	67	.442	.463	.467	2.01	.63	3.9	4.3	3.6	3.2
August	29.364	29.710	28.920	58.4	67.6	65.2	71.1	53.3	62.2	92	44	53	54	56	83	64	73	.412	.435	.461	1.87	1.16	3.7	4.5	4.3	4.4
September	29.390	29.810	28.880	52.5	59.4	57.4	62.6	48.9	55.8	79	34	47	49	48	82	69	73	.337	.362	.359	2.04	.50	5.6	6.2	5.1	5.2
October	29.365	29.980	28.750	42.3	49.3	48.0	53.2	38.8	46.0	68	25	36	38	40	80	67	74	.223	.238	.253	2.16	.91	6.1	6.0	6.5	5.5
November	29.315	29.830	28.480	26.7	33.3	30.8	36.6	22.8	29.7	55	−1	22	23	22	81	66	71	.126	.132	.130	.51	.20	6.7	6.7	6.2	5.6
December	29.341	29.900	28.500	19.2	22.5	22.6	26.6	14.6	20.6	44	0	16	19	19	88	86	86	.092	.103	.103	1.78	.65	9.1	9.2	8.3	8.6
Year	29.324	29.980	28.280	35.9	43.0	41.2	47.0	31.3	39.2	92	−19	31	33	33	83	68	73	.218	.230	.232	25.02	1.40	5.6	6.0	5.4	5.2

EUREKA, CALIF.

[ϕ=40° 48′ N.; λ=124° 11′ W.]

January	30.044	30.340	29.610	42.5	48.6	48.9	51.0	39.0	45.0	58	32	39	41	43	88	77	80	0.239	0.262	0.278	4.31	1.11	5.5	5.4	5.9	6.1
February	30.121	30.470	29.620	42.2	49.1	49.0	51.3	38.2	44.8	60	29	37	38	40	83	67	73	.227	.235	.255	2.06	.99	5.0	5.6	5.5	4.9
March	30.060	30.397	29.480	45.0	50.9	51.1	53.7	41.6	47.6	73	34	41	43	44	87	74	76	.258	.275	.284	2.31	.64	6.1	6.4	6.6	6.3
April	30.026	30.276	29.510	45.2	52.0	51.2	53.8	42.7	48.2	62	32	42	44	45	90	74	80	.272	.287	.300	2.61	.55	8.6	7.1	7.0	7.5
May	30.043	30.220	29.780	48.4	53.8	53.9	56.0	47.2	51.6	62	41	45	46	46	89	76	76	.303	.310	.315	.14	.10	6.9	5.4	5.4	5.5
June	29.983	30.270	29.670	52.2	58.3	58.4	60.7	50.5	55.6	64	42	49	51	51	91	76	76	.355	.370	.373	2.39	1.31	6.9	6.5	5.0	6.0
July	30.012	30.199	29.800	54.0	59.2	59.8	61.7	52.5	57.1	65	49	51	52	52	91	78	77	.378	.391	.396	T.	T.	7.4	4.8	3.2	4.8
August	29.995	30.170	29.830	54.5	60.1	60.4	62.7	52.8	57.8	70	50	52	53	54	93	79	80	.393	.407	.419	.01	.01	7.4	4.8	3.8	5.4
September	29.904	30.040	29.730	52.0	58.6	58.1	61.0	50.2	55.6	72	44	50	52	53	94	80	83	.366	.395	.402	0	0	2.9	4.7	5.5	5.2
October	30.016	30.170	29.819	50.5	55.9	56.7	60.3	47.3	53.8	73	39	48	50	52	93	79	84	.341	.369	.385	.21	.10	3.0	4.8	3.4	5.5
November	30.120	30.390	29.944	43.9	52.3	51.8	55.4	39.6	47.5	77	32	40	45	46	89	77	82	.254	.299	.308	T.	T.	1.0	1.6	2.8	7.3
December	30.065	30.375	29.500	49.1	54.1	53.6	56.6	45.5	51.0	67	36	47	49	49	92	83	86	.324	.351	.354	7.13	2.03	5.9	7.0	7.0	7.2
Year	30.034	30.470	29.480	48.3	54.4	54.4	57.0	45.6	51.3	77	29	45	47	48	90	77	79	.309	.329	.339	21.17	2.03	5.6	5.3	5.1	6.0

Annual meteorological summary for the year ending December 31, 1929—Continued

EL PASO, TEX.

[H_b=3,778 ft.; h_t=152 ft.; h_r=145 ft.; h_a=175 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 33 miles and over	N	NE	E	SE	S	SW	W	NW	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32°: Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																										
January	9.2	W.	41	W.	6	1	7	7	1	2	1	28	15	0	20	8	3	0	0	1	0	0	0	0	0	14	0	0
February	11.7	W.	44	W.	7	3	4	8	1	0	0	23	17	0	19	6	3	2	2	4	2	0	0	0	0	8	0	0
March	12.1	W.	48	W.	5	1	3	10	2	2	1	27	16	0	18	12	1	1	1	0	0	0	0	0	0	1	2	0
April	11.4	W.	40	W.	8	2	2	8	2	0	3	34	8	1	18	12	0	0	0	0	0	0	0	0	0	0	0	0
May	12.0	E.	46	NW.	9	4	8	15	9	0	0	14	12	0	21	10	0	10	8	0	0	3	0	0	5	0	10	0
June	9.3	E.	46	NE.	2	1	5	13	7	1	3	12	18	0	25	5	0	1	1	0	0	1	0	0	29	0	1	0
July	8.2	E.	42	NE.	3	2	7	30	9	1	2	4	7	0	15	14	2	8	6	0	0	0	0	0	23	0	11	0
August	6.8	E.	31	SE.	0	3	10	21	11	4	0	7	6	0	14	16	1	15	11	0	0	0	0	0	16	0	10	0
September	8.6	E.	33	W.	1	1	2	26	5	1	2	9	14	0	20	7	3	3	2	0	0	0	0	0	10	0	4	0
October	8.3	E.	32	NW.	0	1	6	22	8	3	0	13	9	0	16	9	6	8	5	1	1	0	2	0	4	0	3	0
November	8.9	E.	31	NE.	0	1	4	18	3	2	0	12	18	2	24	4	2	3	2	2	1	0	0	0	0	0	1	0
December	6.9	NW.	28	W.	0	1	5	10	2	0	2	21	20	1	25	3	3	2	2	1	1	0	0	0	0	14	0	0
Year	9.4	E.	48	W.	41	21	63	188	60	16	14	204	160	4	235	106	24	53	40	9	5	4	2	0	87	46	42	0

ERIE, PA.

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

January	17.1	W.	54	SE.	12	2	1	0	9	12	15	19	4	0	0	5	26	18	16	19	12	0	0	18	0	30	2	0
February	11.3	SW.	37	SE.	1	8	0	2	6	10	17	7	6	0	4	6	18	13	6	19	12	0	1	15	0	26	0	0
March	14.5	SW.	58	SW.	4	8	1	0	7	16	16	7	7	0	3	17	11	18	16	7	4	1	1	0	0	13	2	1
April	13.8	SW.	62	SW.	4	8	3	3	5	4	20	11	6	0	5	9	16	18	14	4	0	0	1	0	0	2	5	0
May	11.0	W.	43	SW.	3	9	3	0	5	11	12	18	4	0	9	15	7	12	12	1	0	0	1	0	0	0	4	0
June	9.5	SW.	40	SW.	2	9	2	2	2	10	17	7	11	0	14	12	4	10	8	0	0	0	0	0	0	0	6	0
July	10.5	SW.	38	SW.	2	8	2	3	8	11	16	7	7	0	17	13	1	12	7	0	0	0	0	0	2	0	7	0
August	9.9	NW.	26	NW.	0	10	2	1	6	9	8	9	17	0	16	10	5	3	2	0	0	0	0	0	0	0	3	0
September	10.7	N.	34	SW.	1	14	3	4	9	5	9	9	6	1	14	3	13	12	8	0	0	0	0	0	0	0	2	0
October	14.7	NW.	55	E.	4	3	5	3	9	14	9	5	14	0	5	10	16	10	6	2	0	0	0	0	0	0	0	0
November	14.0	W.	31	SE.	1	7	0	0	5	15	14	16	2	1	1	6	23	17	16	9	6	0	0	4	0	9	1	0
December	14.2	S.	42	SW.	7	7	8	1	2	22	15	6	1	0	0	2	29	20	17	18	11	0	2	13	0	24	0	0
Year	12.6	SW.	62	SW.	41	93	30	19	73	139	168	121	85	2	88	108	169	163	128	79	45	1	6	50	2	104	32	1

ESCANABA, MICH.

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

January	9.3	NW.	37	N.	1	6	5	2	0	5	13	13	18	0	13	8	10	13	12	19	13	0	0	30	0	31	0	0
February	7.0	N.	27	NE.	0	19	4	2	1	7	8	6	9	0	7	8	13	10	4	19	10	0	3	26	0	28	0	2
March	9.7	S.	36	NW.	2	11	10	3	2	12	11	2	11	0	11	8	12	12	8	16	9	0	4	8	0	27	1	3
April	9.9	S.	37	N.	1	20	5	8	2	13	8	2	2	0	14	6	10	13	11	7	4	3	4	0	0	15	4	0
May	9.8	S.	35	N.	1	12	3	0	5	22	6	4	10	0	12	8	11	8	6	6	2	0	5	0	0	9	3	2
June	9.3	S.	31	N.	0	16	8	2	1	20	8	1	4	0	13	10	7	12	10	0	0	0	3	0	0	0	6	1
July	8.5	S.	36	N.	1	17	2	2	2	17	11	5	6	0	14	16	1	10	8	0	0	0	0	0	1	0	10	2
August	7.9	S.	32	NW.	0	17	3	1	0	21	9	0	11	0	14	8	9	8	6	0	0	0	0	0	0	0	6	1
September	9.2	S.	28	NW.	0	10	11	1	2	14	12	4	6	0	10	13	7	12	7	0	0	0	0	0	0	0	4	2
October	11.4	N.	48	N.	2	16	4	2	4	9	12	4	11	0	10	9	12	8	6	2	0	0	3	0	0	4	1	2
November	9.9	SW.	28	NW.	0	6	4	0	2	2	21	12	12	1	9	10	11	4	4	12	3	0	0	8	0	20	0	1
December	9.5	NW.	37	N.	2	13	11	1	4	4	11	5	12	1	1	7	23	13	10	25	13	0	1	25	0	31	0	0
Year	9.3	S.	48	N.	10	163	70	24	25	146	130	58	112	2	128	111	126	123	92	106	54	3	26	97	2	165	35	16

EUREKA, CALIF.

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

January	5.0	SE.	25	N.	0	13	7	7	10	10	6	6	3	0	8	6	17	17	14	1	1	1	6	0	0	0	0	0
February	5.5	N.	26	N.	0	21	5	4	13	4	2	5	0	2	11	6	11	6	5	0	0	0	0	0	0	3	0	0
March	6.3	N.	31	N.	0	18	6	2	10	6	3	6	9	2	9	6	16	11	9	0	0	2	2	0	0	0	0	0
April	6.0	N.	22	W.	0	11	1	5	13	8	6	6	10	0	3	10	17	16	13	1	1	1	0	0	0	0	0	0
May	6.9	N.	26	N.	0	24	0	2	4	4	8	8	10	2	11	7	13	5	2	0	0	0	0	0	0	0	0	0
June	6.1	N.	23	SW.	0	23	2	1	1	12	10	2	8	1	6	10	14	8	8	0	0	0	0	0	1	0	0	0
July	6.5	N.	20	N.	0	23	2	2	3	4	12	1	13	2	10	14	7	0	0	0	0	0	0	0	0	0	0	0
August	4.5	NW.	16	NW.	0	8	1	3	5	6	8	5	22	4	7	16	8	1	0	0	0	0	0	0	3	0	0	0
September	4.5	N.	23	NW.	0	16	4	5	8	2	7	9	7	2	11	7	12	0	0	0	0	0	0	10	0	0	0	0
October	4.2	N.	30	N.	0	15	8	3	7	3	7	5	10	4	10	8	13	6	2	0	0	0	0	15	0	0	0	0
November	3.0	SE.	24	N.	0	7	8	6	12	6	8	0	5	8	5	6	19	0	0	0	0	0	0	7	0	0	0	0
December	5.6	SE.	32	SW.	0	10	5	3	26	6	6	0	3	3	7	3	21	15	13	0	0	0	0	0	0	0	0	0
Year	5.3	N.	32	SW.	0	189	49	43	112	71	83	53	100	30	98	99	168	85	66	2	2	4	68	0	0	3	0	0

Annual meteorological summary for the year ending December 31, 1929—Continued

EVANSVILLE, IND.
[ϕ=37° 58′ N.; λ=87° 33′ W.]

Month	Pressure			Temperature								Moisture												
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness		
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.668	30.100	28.805	28.0	32.7	33.0	40.5	21.9	31.2	70	5	23	21	23	80	62	65	0.135	0.139	0.143	4.61	2.22	6.3	6.4	4.9	6.5
February	29.680	30.140	29.110	25.1	31.8	33.1	36.6	22.9	29.8	56	0	20	22	22	79	66	63	.119	.129	.127	3.26	1.59	6.1	6.4	6.2	6.4
March	29.527	30.130	29.020	45.1	54.9	55.7	60.1	42.8	51.4	87	23	38	40	41	78	58	59	.255	.271	.276	2.52	.73	5.4	5.7	7.0	5.8
April	29.489	29.950	28.910	53.7	63.8	62.4	68.4	50.6	59.5	81	40	46	48	49	76	58	64	.326	.353	.366	3.84	.74	5.4	5.4	6.1	5.5
May	29.616	29.929	28.750	58.8	67.4	67.0	72.5	55.0	63.8	92	35	53	55	56	82	66	69	.428	.465	.478	6.27	1.51	6.0	6.6	6.8	6.2
June	29.532	29.730	29.275	68.4	78.8	77.7	83.6	63.9	73.8	95	47	60	62	62	76	57	60	.531	.564	.568	3.50	1.59	4.3	5.0	4.5	4.5
July	29.605	29.820	29.380	73.3	84.4	82.1	88.7	70.0	79.4	96	56	66	66	66	79	56	60	.655	.653	.651	2.56	.75	4.4	6.2	5.1	5.2
August	29.592	29.830	29.280	68.1	81.5	78.9	85.5	65.5	75.5	96	58	61	63	63	80	54	60	.555	.588	.592	3.38	1.64	3.6	4.2	4.8	4.2
September	29.606	29.850	29.350	63.0	73.9	72.1	77.7	61.8	69.8	92	46	58	62	62	86	67	70	.509	.570	.566	6.50	2.46	4.6	5.2	5.5	4.9
October	29.619	29.930	29.208	51.4	63.1	60.7	66.5	50.2	58.4	82	34	45	47	48	80	59	65	.311	.337	.343	1.68	.64	5.1	5.3	4.2	5.1
November	29.685	30.130	29.140	38.9	46.1	45.6	50.1	37.0	43.6	70	4	34	36	35	83	66	70	.218	.232	.234	2.38	.89	5.8	6.2	6.2	6.2
December	29.654	30.170	29.120	34.5	39.9	39.6	44.9	30.9	37.9	66	4	31	32	34	84	74	79	.203	.219	.227	3.51	.80	6.3	7.1	6.8	6.8
Year	29.606	30.170	28.750	50.7	59.9	58.9	64.6	47.7	56.2	96	0	45	46	47	80	62	65	.354	.377	.381	44.01	2.46	5.3	5.8	5.7	5.6

FORT SMITH, ARK.
[ϕ=35° 22′ N.; λ=94° 24′ W.]

January	29.598	30.000	29.000	32.5	39.8	39.4	45.6	28.3	37.0	67	14	29	29	29	85	65	66	0.165	0.164	0.164	4.28	2.14	5.5	5.7	4.7	5.2
February	29.620	30.090	29.050	28.1	35.3	35.6	39.6	25.5	32.6	63	3	25	28	28	86	76	74	.138	.158	.155	2.66	.69	6.3	6.9	6.0	6.5
March	29.444	29.970	28.920	47.4	60.0	59.5	65.1	44.9	55.0	92	30	42	47	46	83	64	64	.286	.338	.325	5.45	2.30	5.1	6.4	5.7	5.5
April	29.407	29.850	28.971	57.1	67.6	69.4	73.7	55.0	64.4	85	39	50	53	53	78	61	58	.375	.418	.415	3.78	1.72	6.2	6.3	5.4	6.0
May	29.512	29.809	28.770	61.7	71.3	70.8	75.9	58.4	67.2	88	41	56	58	59	83	64	68	.471	.502	.518	7.19	2.13	7.5	7.2	6.3	6.8
June	29.452	29.629	29.220	71.0	81.9	82.4	86.2	67.2	76.7	96	57	64	65	67	80	58	60	.609	.630	.670	5.22	2.17	5.0	4.8	3.9	4.4
July	29.531	29.720	29.345	75.4	87.8	86.9	91.9	72.7	82.3	101	60	69	69	70	81	56	58	.715	.722	.734	2.99	2.28	3.5	4.1	3.1	3.5
August	29.505	29.650	29.270	74.2	90.3	89.5	95.4	72.2	83.8	105	58	64	65	64	70	43	45	.604	.625	.624	.12	.08	2.5	2.9	3.4	3.2
September	29.596	29.760	29.220	65.4	79.5	78.6	84.1	64.0	74.0	96	56	59	62	61	80	58	57	.514	.558	.550	3.52	1.11	4.1	4.6	3.4	4.4
October	29.548	29.800	29.023	55.1	67.7	65.9	72.0	53.6	62.8	83	34	50	51	53	84	58	64	.379	.401	.421	4.09	1.67	4.8	4.9	3.5	5.0
November	29.661	30.030	29.230	39.0	49.4	47.7	53.4	37.0	45.2	68	23	34	34	36	82	58	65	.203	.207	.224	1.40	.44	5.3	5.9	5.6	6.3
December	29.642	30.100	29.200	37.6	48.8	47.8	54.8	34.2	44.5	75	7	33	39	37	83	70	69	.222	.270	.258	4.12	1.45	4.3	4.9	4.2	4.8
Year	29.536	30.100	28.770	53.7	65.0	64.5	69.8	51.1	60.5	105	3	48	50	50	81	61	62	.390	.416	.422	44.71	2.30	5.0	5.4	4.6	5.1

FORT WAYNE, IND.
[ϕ=41° 05′ N.; λ=85° 10′ W.]

January	29.111	29.620	28.330	18.3	23.0	24.1	30.1	12.8	21.4	54	−5	14	17	19	83	75	80	0.093	0.103	0.115	4.23	1.19	6.7	7.1	7.4	7.1
February	29.155	29.630	28.630	18.8	26.3	25.9	30.5	15.7	23.1	51	−2	16	19	20	86	74	79	.094	.109	.116	.73	.34	7.4	7.6	7.2	6.9
March	28.999	29.640	28.200	38.8	47.5	46.4	53.3	35.7	44.5	75	12	33	36	37	80	67	70	.205	.238	.235	3.57	2.12	6.8	7.2	6.3	6.7
April	28.985	29.377	29.300	46.4	56.4	54.6	61.6	42.8	52.2	83	30	39	41	41	76	59	62	.257	.277	.277	4.49	.69	6.4	6.8	7.1	6.5
May	29.127	29.580	28.300	52.8	61.8	60.5	66.7	48.1	57.4	89	34	46	48	48	78	62	65	.339	.364	.370	4.69	1.02	5.9	6.3	6.8	6.1
June	29.053	29.255	28.690	62.4	73.1	70.8	76.8	55.9	66.8	89	38	54	56	56	76	57	60	.441	.459	.463	2.30	.89	5.8	6.9	5.3	6.1
July	29.123	29.400	28.850	68.4	80.3	77.9	84.3	63.8	74.0	94	50	60	58	61	78	50	58	.536	.519	.550	4.95	2.82	4.1	4.4	5.5	4.6
August	29.126	29.385	28.697	63.2	75.6	73.4	79.0	59.6	69.3	88	49	56	55	57	78	50	58	.460	.443	.486	2.62	2.06	4.2	5.2	5.0	5.2
September	29.161	29.450	28.820	57.1	69.8	66.2	73.2	54.5	63.8	90	38	53	54	54	86	59	66	.425	.447	.443	2.35	.90	4.8	5.6	5.1	5.1
October	29.118	29.602	28.410	45.5	55.6	52.6	58.6	42.3	50.4	75	32	40	42	42	83	64	70	.260	.279	.276	3.91	1.38	5.3	6.2	5.9	5.8
November	29.139	29.630	28.450	32.5	39.7	37.4	42.8	30.6	36.7	65	0	30	31	30	89	72	75	.178	.190	.184	2.61	.89	6.0	6.7	6.3	6.4
December	29.092	29.590	28.640	25.1	29.7	30.0	34.2	23.1	28.6	59	5	23	25	27	90	84	87	.130	.147	.155	3.27	1.26	7.6	8.5	8.2	8.8
Year	29.099	29.640	28.200	44.1	53.2	51.6	57.6	40.5	49.0	94	−5	39	40	41	82	64	69	.285	.298	.306	39.72	2.82	5.9	6.5	6.3	6.3

FORT WORTH, TEX.
[ϕ=32° 43′ N.; λ=97° 15′ W.]

January	29.334	29.810	28.841	39.7	48.5	49.3	56.5	35.7	46.1	71	21	34	33	36	79	57	62	0.211	0.198	0.223	2.08	1.15	5.7	6.1	4.9	5.7
February	29.355	29.900	28.770	33.9	39.5	41.5	46.5	31.5	39.0	71	14	29	29	32	81	65	70	.168	.170	.189	2.78	1.61	7.0	6.6	6.4	6.8
March	29.191	29.640	28.640	53.4	65.4	66.2	71.8	49.9	60.8	91	38	44	46	45	73	52	50	.318	.329	.319	1.39	1.01	5.6	5.5	4.8	5.5
April	29.171	29.600	28.824	60.5	73.4	73.7	78.1	58.8	68.4	89	45	54	53	53	79	51	52	.436	.426	.427	2.06	.87	5.9	5.5	5.6	5.4
May	29.235	29.510	28.790	64.3	75.3	74.4	79.8	61.8	70.8	90	48	59	59	60	83	60	63	.517	.530	.539	5.83	1.07	6.9	6.4	5.8	6.7
June	29.190	29.380	28.970	73.1	86.7	88.6	92.2	71.4	81.8	100	64	66	65	64	79	49	48	.645	.624	.615	.20	.11	2.8	3.4	3.1	3.4
July	29.265	29.440	29.050	75.7	88.8	90.5	94.3	74.0	84.2	103	69	68	65	63	78	47	42	.685	.617	.580	.43	.38	3.9	5.1	3.1	4.5
August	29.247	29.410	29.079	76.2	93.0	94.1	97.9	75.6	86.8	105	68	64	63	62	68	38	35	.614	.593	.570	T.	T.	2.4	2.7	1.8	2.5
September	29.241	29.520	28.980	68.8	83.8	83.0	88.0	67.5	77.8	97	60	61	60	60	77	47	48	.548	.534	.532	2.29	1.38	3.2	3.5	3.4	3.6
October	29.292	29.620	28.740	60.2	74.0	73.1	78.9	58.3	68.6	90	39	54	55	54	80	53	52	.435	.454	.428	2.12	1.05	4.8	4.7	3.6	4.8
November	29.415	29.840	28.990	42.7	52.7	51.5	58.2	40.3	49.2	82	26	37	38	39	80	58	64	.229	.238	.250	1.50	1.06	5.6	5.7	5.8	6.1
December	29.414	29.810	28.980	43.1	55.4	53.5	61.9	39.6	50.8	79	15	36	37	38	76	52	59	.264	.237	.279	.41	.33	4.5	4.1	3.7	3.8
Year	29.279	29.900	28.640	57.6	69.7	70.0	75.3	55.4	65.4	105	14	50	50	50	78	52	54	.422	.415	.413	21.09	1.61	4.9	4.9	4.3	4.6

Annual meteorological summary for the year ending December 31, 1929—Continued

EVANSVILLE, IND.

[H_b=431 ft.; h_t=76 ft.; h_r=74 ft.; h_a=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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	10.1	S.	42	W.	2	8	9	9	4	8	7	7	10	0	6	12	13	15	11	9	6	0	3	5	0	26	1	0
February	7.2	N.	24	SW.	0	13	7	5	2	8	5	5	9	2	7	6	15	11	6	9	7	0	3	10	0	22	1	0
March	10.2	S.	36	SW.	1	10	0	5	9	17	9	6	6	0	8	12	11	13	10	0	0	0	2	0	0	6	2	0
April	10.9	S.	38	SW.	3	5	10	5	3	16	11	4	6	0	9	11	10	14	12	0	0	2	0	0	0	0	9	0
May	8.0	S.	35	SW.	1	13	6	8	5	17	8	3	2	0	8	10	13	14	12	1	1	0	0	0	1	0	10	0
June	7.0	S.	38	N.	1	9	7	7	7	13	10	5	2	0	11	14	5	7	7	0	0	0	0	0	8	0	7	0
July	6.4	SW.	27	SW.	0	4	12	8	5	10	20	1	1	1	10	14	7	10	7	0	0	0	0	0	14	0	10	0
August	5.7	NE.	32	NW.	0	12	18	7	0	5	9	7	2	2	13	14	4	6	6	0	0	0	0	0	5	0	4	0
September	5.4	NE.	26	W.	0	11	15	4	5	9	5	3	3	5	13	7	10	12	12	0	0	0	1	0	1	0	11	0
October	7.8	E.	25	NW.	0	10	6	13	4	11	8	5	5	0	13	5	13	14	6	1	0	0	0	0	0	0	0	0
November	7.3	NW.	30	NW.	0	12	5	4	5	4	12	4	13	1	8	8	14	8	7	4	2	0	2	2	0	9	1	0
December	9.3	SW.	32	SW.	0	9	0	2	3	16	15	8	8	1	9	3	19	11	9	7	5	0	5	8	0	17	0	0
Year	7.9	S.	42	W.	8	116	95	77	52	134	119	58	67	12	115	116	134	135	105	31	21	2	16	25	29	80	56	0

FORT SMITH, ARK.

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

January	9.8	E.	36	SW.	1	2	2	36	2	1	3	9	7	0	14	5	12	10	9	1	0	0	0	2	0	19	1	0
February	6.6	E.	31	W.	0	3	2	25	3	0	7	13	3	0	10	2	16	13	10	11	7	0	0	6	0	21	2	0
March	8.2	E.	32	W.	0	2	3	27	7	5	4	8	6	0	13	7	11	12	9	0	0	1	1	0	1	2	6	0
April	8.5	E.	30	SE.	0	4	0	25	3	11	4	6	6	1	7	13	10	7	5	0	0	1	0	0	0	0	10	0
May	7.3	E.	62	NW.	2	7	3	33	7	3	4	1	4	0	6	9	16	11	10	0	0	1	0	0	0	0	10	0
June	6.3	E.	36	N.	1	6	7	25	6	10	2	2	2	0	15	9	6	10	9	0	0	0	0	0	13	0	9	0
July	5.1	E.	26	SW.	0	5	8	28	2	9	5	2	3	0	19	10	2	4	4	0	0	0	0	0	22	0	5	0
August	5.4	E.	24	E.	0	7	8	36	1	1	4	2	3	0	19	9	3	2	2	0	0	0	0	0	26	0	4	0
September	5.5	E.	20	W.	0	6	8	33	5	1	0	4	3	0	15	7	8	6	5	0	0	0	1	0	5	0	6	0
October	6.2	E.	24	NW.	0	4	8	26	4	3	6	5	5	1	12	9	10	11	10	0	0	0	0	0	0	0	7	0
November	6.2	E.	23	N.	0	8	6	17	2	3	10	4	10	0	9	6	15	10	7	2	0	0	2	0	0	9	0	0
December	6.8	E.	26	NW.	0	3	2	26	3	4	5	8	11	0	13	7	11	9	8	2	0	1	2	3	0	14	5	0
Year	6.8	E.	62	NW.	4	57	57	337	45	51	54	64	63	2	152	93	120	105	88	16	7	4	6	11	67	65	65	0

FORT WAYNE, IND.

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

January	9.7	W.	32	W.	0	4	5	5	3	6	16	19	4	0	5	7	19	16	12	19	9	0	2	19	0	30	0	0
February	7.1	SW.	29	SW.	0	6	10	8	2	1	20	7	2	0	1	15	12	9	6	14	7	0	0	16	0	25	0	0
March	9.8	SW.	39	W.	2	5	4	6	4	8	18	13	4	0	5	10	16	15	14	4	2	0	4	1	0	10	5	0
April	10.4	SW.	40	S.	2	4	11	4	4	7	12	8	10	0	5	12	13	14	12	2	0	3	1	0	0	4	5	0
May	8.3	SW.	32	NE.	0	9	11	2	6	8	14	6	6	0	5	15	11	13	11	2	0	1	0	0	0	0	5	0
June	7.2	SW.	31	NW.	0	6	12	1	1	12	16	3	9	0	4	16	10	10	9	0	0	0	0	0	0	0	8	0
July	6.9	SW.	30	NW.	0	2	11	4	3	7	21	7	7	0	15	8	8	12	11	0	0	0	0	0	7	0	10	0
August	5.9	SW.	22	NW.	0	6	7	10	5	6	13	7	8	0	11	13	7	5	4	0	0	0	0	0	0	0	5	0
September	6.6	NE.	23	W.	0	6	18	8	4	10	6	4	4	0	11	8	11	11	7	0	0	0	4	0	0	0	3	0
October	8.9	SW.	29	SW.	0	9	7	7	2	6	16	6	9	0	11	6	14	12	10	2	2	0	2	0	0	0	0	0
November	8.6	W.	25	SW.	0	2	7	3	2	9	16	17	4	0	8	9	13	9	8	7	2	0	1	6	0	12	0	0
December	9.3	SW.	29	SW.	0	4	4	8	0	6	29	6	5	0	3	2	26	15	14	12	9	0	5	12	0	25	1	0
Year	8.2	SW.	40	S.	4	63	107	66	36	86	197	103	72	0	84	121	160	141	118	62	31	4	19	54	7	106	42	0

FORT WORTH, TEX.

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

January	8.6	NW.	31	SE.	0	5	1	3	17	10	7	1	18	0	8	11	12	5	5	1	0	0	1	0	0	9	3	0
February	7.5	NW.	24	W.	0	10	11	6	10	2	2	2	13	0	7	5	16	12	7	0	0	1	0	4	0	16	2	0
March	9.5	S.	30	W.	0	1	6	4	11	13	12	5	8	2	8	13	10	5	3	0	0	1	0	0	3	0	3	0
April	10.6	S.	32	S.	0	2	5	5	17	17	5	2	6	1	9	8	13	7	6	0	0	0	0	0	0	0	0	0
May	9.3	SE.	36	NW.	1	6	2	12	21	10	1	1	8	1	5	7	19	15	15	0	0	0	1	0	1	0	13	0
June	9.1	SE.	25	S.	0	3	7	7	20	16	5	0	1	1	17	10	3	3	2	0	0	0	0	0	22	0	5	0
July	8.3	S.	27	S.	0	1	4	10	23	14	6	1	2	1	11	14	6	3	1	0	0	0	0	0	27	0	3	0
August	7.4	SE.	18	NE.	0	2	11	9	15	10	10	1	2	2	25	4	2	0	0	0	0	0	0	0	31	0	1	0
September	6.8	SE.	23	SE.	0	3	10	12	19	5	1	1	7	2	18	4	8	7	7	0	0	0	0	0	11	0	4	0
October	6.7	SE.	23	S.	0	2	10	6	17	6	2	8	10	1	12	10	9	7	5	0	0	0	0	0	2	0	7	0
November	6.8	NW.	22	NW.	0	9	11	1	10	3	6	5	13	2	11	4	15	5	4	1	1	0	2	0	0	4	0	0
December	8.2	S.	26	SW.	0	6	4	1	13	17	12	2	7	0	16	6	9	5	2	2	0	0	3	1	0	11	3	0
Year	8.2	SE.	36	NW.	1	50	82	76	193	123	69	29	95	13	147	96	122	74	57	4	1	2	7	5	97	40	53	0

Annual meteorological summary for the year ending December 31, 1929—Continued

FRESNO, CALIF.

[ϕ=36° 40′ N.; λ=119° 49′ W.]

Month	Pressure			Temperature								Moisture													
		Extremes		Mean			Extremes			Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.741	30.020	29.252	38.4	46.4	48.3	50.5	35.6	43.0	65	27	36	38	38	92	74	71	0.215	0.230	0.234	1.26	0.72	5.4	7.2	6.5	7.0
February	29.748	29.990	29.370	41.8	54.6	57.8	59.5	39.1	49.3	69	29	36	36	35	79	51	44	.212	.218	.212	.62	.48	2.5	2.8	1.9	2.3
March	29.703	30.020	29.320	46.8	60.4	63.9	66.7	44.1	55.4	84	34	40	40	40	79	50	44	.255	.257	.250	1.53	1.10	3.7	4.6	3.8	4.0
April	29.660	29.930	29.440	46.6	64.7	67.3	69.9	44.6	57.2	82	34	40	38	37	79	39	36	.250	.233	.225	.69	.55	2.3	4.3	4.9	3.6
May	29.564	29.770	29.270	55.7	77.8	82.6	84.5	54.3	69.4	96	47	43	43	37	64	30	21	.284	.287	.230	.01	.01	1.3	2.3	3.2	2.2
June	29.536	29.790	29.240	61.4	82.0	87.9	89.2	60.1	74.6	110	44	48	45	40	65	30	22	.338	.310	.257	.28	.14	1.8	1.9	1.7	1.8
July	29.523	29.760	29.270	65.6	88.3	96.2	97.5	64.0	80.8	105	59	46	46	41	52	25	16	.319	.319	.259	T.	T.	.9	.8	.7	.8
August	29.531	29.700	29.380	67.9	89.8	97.0	98.7	65.4	82.0	105	56	46	47	43	48	24	16	.323	.328	.281	T.	T.	.9	.5	.6	.6
September	29.478	29.650	29.290	61.7	83.0	87.6	89.8	59.1	74.4	103	48	45	46	41	57	28	22	.311	.315	.273	.01	.01	1.1	.7	1.2	1.0
October	29.609	29.760	29.391	57.1	76.4	80.4	82.7	53.7	68.2	95	43	41	40	41	57	30	25	.268	.266	.264	T.	T.	.3	.8	.7	.5
November	29.750	30.070	29.570	46.1	66.8	68.3	71.9	42.3	57.1	86	36	25	26	27	42	22	22	.129	.140	.145	0	0	.1	.7	.5	.2
December	29.795	30.020	29.590	44.5	52.8	55.2	57.9	41.4	49.6	74	30	40	42	43	87	71	68	.261	.277	.286	.50	.44	3.7	7.1	6.0	6.4
Year	29.637	30.070	29.240	52.8	70.2	74.4	76.6	50.3	63.4	110	27	40	41	39	67	40	34	.264	.265	.243	.90	1.10	2.0	2.8	2.6	2.5

GALVESTON, TEX.

[ϕ=29° 15′ N.; λ=94° 50′ W.]

January	30.034	30.500	29.630	53.1	57.1	56.3	61.5	50.3	55.9	76	33	49	50	50	87	80	82	0.379	0.403	0.393	3.53	3.65	5.9	6.1	4.8	5.0
February	29.988	30.550	29.580	48.0	52.6	52.4	56.8	45.1	51.0	70	27	45	47	47	90	82	82	.316	.340	.338	2.73	1.12	7.5	7.3	6.3	6.9
March	29.907	30.280	29.440	61.4	66.2	64.5	69.1	59.8	64.4	79	45	58	58	59	88	75	84	.500	.503	.524	3.57	1.89	5.7	5.3	5.4	5.0
April	29.883	30.250	29.510	70.7	75.3	74.0	77.6	69.1	73.4	83	59	66	66	66	87	73	79	.655	.645	.665	9.92	8.10	5.8	5.5	6.4	5.2
May	29.944	30.150	29.570	72.6	76.7	75.2	79.2	70.1	74.6	82	53	68	68	68	86	75	80	.704	.701	.703	10.50	5.88	6.0	5.6	5.8	5.4
June	29.892	30.110	29.680	78.9	83.4	82.1	86.3	76.8	81.6	94	65	72	72	72	81	68	72	.799	.773	.789	1.96	1.07	3.4	3.2	3.2	3.3
July	29.978	30.120	29.780	80.4	84.3	83.1	87.0	78.2	82.6	95	68	74	73	73	81	69	73	.840	.815	.824	7.17	5.87	5.1	4.8	5.2	5.0
August	29.946	30.080	29.810	80.3	85.6	83.8	88.3	79.2	83.8	94	74	75	73	74	83	66	72	.857	.809	.829	.94	.51	3.5	2.9	2.2	3.2
September	29.894	30.040	29.719	77.2	82.7	81.3	85.3	75.7	80.5	90	69	72	70	70	83	66	70	.782	.742	.753	.44	.18	2.8	3.4	2.3	3.4
October	29.970	30.250	29.580	69.8	74.9	74.2	77.8	68.8	73.3	86	58	62	61	62	79	64	68	.587	.571	.585	4.02	2.03	4.3	3.8	3.2	4.0
November	30.066	30.400	29.750	54.4	58.7	58.1	62.3	50.8	56.6	78	35	50	50	51	85	75	80	.390	.393	.417	7.68	2.06	7.3	6.1	5.6	6.0
December	30.143	30.530	29.740	50.5	55.7	54.0	58.8	47.4	53.1	75	23	46	48	50	86	77	85	.390	.385	.393	3.28	1.29	5.4	4.9	4.5	4.7
Year	29.970	30.550	29.440	66.4	71.1	69.9	74.2	64.3	69.2	95	23	61	61	62	85	72	77	.597	.590	.601	57.74	8.10	5.2	4.9	4.6	4.8

GRAND HAVEN, MICH.

[ϕ=43° 04′ N.; λ=86° 14′ W.]

January	29.328	29.870	28.470	18.0	19.9	20.3	25.2	12.7	19.0	41	−1	16	17	16	92	87	84	0.092	0.094	0.094	4.39	0.86	9.3	9.3	8.9	9.1
February	29.394	29.890	28.760	17.2	22.4	21.5	26.0	13.4	19.7	45	−3	15	18	17	91	81	83	.088	.096	.097	.72	.12	8.8	7.9	7.5	7.7
March	29.211	29.867	28.350	33.7	38.2	37.8	44.2	30.3	37.2	67	8	30	32	32	85	77	79	.171	.184	.183	2.32	1.48	6.6	6.6	7.0	6.7
April	29.210	29.599	28.490	41.5	47.5	47.9	53.5	37.9	45.7	72	27	36	37	37	83	70	68	.223	.231	.240	4.11	1.15	6.3	5.9	6.0	6.1
May	29.365	29.850	28.740	49.2	55.3	53.9	59.7	43.1	51.4	83	33	42	42	43	76	63	67	.285	.298	.301	3.88	1.86	5.6	5.1	6.0	5.5
June	29.275	29.532	28.850	59.0	64.5	64.2	69.3	53.1	61.2	85	41	52	52	51	78	66	64	.403	.402	.384	2.65	.66	6.3	5.2	4.1	5.1
July	29.331	29.680	28.991	67.4	73.2	72.1	77.6	60.4	69.0	86	48	58	59	58	74	62	63	.503	.511	.496	.61	.22	3.3	3.6	4.5	3.6
August	29.357	29.640	28.930	61.7	69.4	68.8	73.5	56.1	64.8	80	45	55	57	54	79	66	61	.442	.472	.432	.85	.34	4.2	4.5	4.0	4.5
September	29.388	29.750	28.960	56.5	65.8	62.6	69.9	51.3	60.6	84	36	50	50	50	81	60	66	.386	.388	.382	.88	.54	4.8	5.0	3.7	4.9
October	29.334	29.900	28.480	45.7	52.3	50.6	55.1	41.1	48.1	65	27	42	42	42	86	68	74	.271	.275	.279	3.04	1.52	6.2	6.0	4.6	5.9
November	29.340	29.830	28.600	34.3	37.8	37.6	41.1	30.8	36.0	54	7	29	30	30	80	74	75	.167	.174	.178	1.21	.53	6.3	8.9	7.1	8.6
December	29.305	29.800	28.680	26.0	28.0	29.0	32.0	22.5	27.2	45	3	25	26	27	94	90	91	.134	.140	.148	1.76	.35	9.2	9.3	9.0	9.6
Year	29.320	29.900	28.350	42.5	47.9	47.2	52.3	37.7	45.0	86	−3	38	38	38	83	72	73	.264	.272	.268	26.42	1.86	6.6	6.4	6.0	6.4

GRAND JUNCTION, COLO.

[ϕ=39° 04′ N.; λ=108° 34′ W.]

January	25.355	25.800	24.780	12.6	26.4	25.2	30.8	8.2	19.5	44	−8	10	17	18	88	68	71	0.070	0.094	0.097	0.95	0.29	4.5	4.8	4.9	5.0
February	25.337	25.820	24.880	16.5	28.9	28.9	33.4	13.1	23.2	45	−12	13	17	18	86	59	62	.086	.097	.102	.79	.46	5.2	5.1	4.9	5.3
March	25.288	25.670	24.660	32.8	46.0	48.5	52.3	30.8	41.6	69	17	23	23	22	67	42	38	.126	.124	.124	1.02	.60	5.3	5.3	5.2	5.1
April	25.255	25.550	24.920	40.7	55.3	56.5	60.8	37.5	49.2	77	24	27	24	22	59	33	29	.148	.129	.119	.49	.16	6.1	6.7	5.4	6.0
May	25.315	25.600	24.780	49.3	67.5	69.1	73.1	46.8	60.0	85	33	34	31	29	58	28	28	.200	.177	.167	.45	.18	4.0	4.8	6.2	4.9
June	25.317	25.580	24.950	59.5	80.9	84.4	86.6	56.9	71.8	101	45	33	27	25	38	14	12	.189	.150	.135	.08	.06	2.3	1.8	2.7	2.0
July	25.417	25.610	25.190	67.0	84.0	84.2	90.8	65.3	78.0	98	58	52	50	49	60	34	34	.392	.376	.369	2.72	.67	4.0	3.0	6.2	4.9
August	25.462	25.600	25.330	65.0	83.4	84.8	89.0	63.9	76.4	95	59	50	49	48	60	33	31	.372	.354	.342	.99	.58	3.5	2.9	5.1	3.7
September	25.363	25.594	25.140	54.4	70.3	71.1	76.5	52.9	64.7	87	42	44	43	43	70	41	39	.295	.281	.281	2.16	.62	3.1	3.8	3.5	3.6
October	25.444	25.750	24.850	44.7	60.8	60.0	66.5	42.0	54.2	83	29	32	31	31	63	35	35	.190	.183	.180	.41	.11	3.5	3.4	3.1	3.3
November	25.519	25.820	25.130	26.6	41.9	39.6	46.5	23.4	35.0	58	13	20	19	19	79	39	42	.108	.103	.104	.74	.69	2.3	3.4	2.6	3.3
December	25.516	25.790	25.210	20.2	39.1	36.5	44.2	18.0	31.1	60	8	16	18	19	84	42	49	.087	.094	.100	.10	.10	2.7	3.7	3.6	3.5
Year	25.382	25.820	24.660	40.7	57.0	57.4	62.5	38.2	50.4	101	−12	30	29	29	68	39	39	.189	.180	.177	10.90	.69	3.9	4.0	4.4	4.2

Annual meteorological summary for the year ending December 31, 1929—Continued

FRESNO, CALIF.

[H_b=327 ft.; h_t=89 ft.; h_r=82 ft., h_a=98 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	3.2	NW.	24	NW.	0	3	1	16	11	2	4	3	17	5	6	8	17	6	5	1	0	0	12	0	0	6	0	0
February	4.9	NW.	28	NW.	0	3	9	7	7	1	1	1	26	1	20	6	2	3	2	0	0	0	0	0	0	4	0	0
March	5.2	NW.	27	NW.	0	0	2	9	5	2	1	2	36	5	16	9	6	7	5	1	1	0	0	0	0	0	2	0
April	6.6	NW.	24	NW.	0	3	1	1	2	1	0	3	46	3	13	15	2	5	3	0	0	1	0	0	0	0	2	0
May	7.7	NW.	30	NW.	0	1	0	0	0	0	1	2	56	2	20	9	2	1	0	0	0	0	0	0	0	4	0	0
June	7.5	NW.	20	NW.	0	0	1	0	2	1	0	3	52	1	23	4	3	4	3	0	0	0	0	0	0	14	0	0
July	7.8	NW.	20	NW.	0	0	0	1	0	0	0	2	59	0	28	2	1	0	0	0	0	0	0	0	0	29	0	0
August	6.3	NW.	18	NW.	0	1	0	2	1	0	0	3	54	1	29	2	0	0	0	0	0	0	0	0	0	31	0	0
September	5.1	NW.	17	S	0	1	4	2	1	1	2	5	43	1	27	2	1	1	0	0	0	0	0	0	0	15	0	0
October	4.8	NW.	19	NW.	0	0	2	10	4	0	1	4	38	3	30	1	0	0	0	0	0	0	0	0	0	7	0	0
November	3.1	NW.	16	NW.	0	3	1	19	6	1	0	6	20	4	30	0	0	0	0	0	0	0	0	0	0	0	0	0
December	3.5	NW.	15	NW.	0	1	2	10	7	5	3	7	21	6	7	9	15	4	2	0	0	0	14	0	0	4	0	0
Year	6.5	NW.	30	NW.	0	16	23	77	46	14	13	41	468	32	249	67	49	31	20	2	1	1	26	0	100	14	4	0

GALVESTON, TEX.

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

January	10.4	SE.	35	N.	2	11	5	12	14	13	2	0	5	0	11	11	9	10	9	0	0	0	4	0	0	0	4	0
February	10.1	N.	30	N.	0	15	12	11	9	4	0	1	4	0	6	5	17	10	8	0	0	0	0	0	0	3	2	0
March	10.4	SE.	28	NW.	0	3	8	10	21	13	1	1	5	0	10	13	8	6	3	0	0	1	1	0	0	0	3	0
April	12.4	S.	42	SE.	1	9	3	5	16	23	2	1	1	0	6	18	6	7	3	0	0	0	0	0	0	0	6	0
May	12.6	SE.	37	NW.	2	5	4	4	22	24	0	1	2	0	8	15	8	11	10	0	0	0	0	0	0	0	5	0
June	9.1	S.	31	SE.	0	6	2	4	15	21	6	3	3	0	18	10	2	4	3	0	0	0	0	0	0	3	5	0
July	9.5	S.	24	S.	0	0	6	3	10	32	4	5	2	0	9	17	5	10	7	0	0	0	0	0	0	3	9	0
August	7.9	S.	19	S.	0	4	6	4	16	12	11	8	1	0	22	7	2	4	3	0	0	0	0	0	0	6	4	0
September	8.2	S.	25	NE.	0	7	17	7	13	13	2	1	0	0	17	10	3	6	4	0	0	0	0	0	1	0	3	0
October	8.9	SE.	23	S.	0	9	9	7	18	12	1	2	4	0	16	8	7	4	4	0	0	0	0	0	0	0	2	0
November	10.1	N.	32	SE.	0	15	14	9	2	8	6	1	5	0	10	7	13	17	13	0	0	0	1	0	0	0	3	0
December	9.7	SE.	33	NW.	1	13	4	3	17	13	4	3	5	0	16	5	10	7	6	2	0	0	4	0	0	7	4	0
Year	9.9	S.	42	SE.	6	97	90	79	173	188	39	27	37	0	149	126	90	96	73	2	0	1	10	0	13	10	50	0

GRAND HAVEN, MICH.

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

January	12.6	W.	40	SW.	7	10	2	10	4	1	12	14	9	0	0	3	28	27	17	30	26	0	0	25	0	31	0	0
February	8.9	E.	30	SW.	0	7	4	17	4	2	5	11	6	0	3	8	17	15	7	22	13	0	2	21	0	28	0	0
March	12.2	S.	60	W.	3	11	4	5	8	10	9	11	4	0	4	14	13	13	5	10	5	0	3	2	0	14	3	0
April	12.2	S.	38	NW.	1	8	6	9	4	12	7	3	10	1	7	9	14	14	12	3	3	1	0	0	0	4	4	0
May	10.3	S.	37	W.	2	5	2	8	3	15	13	7	9	0	7	17	7	8	5	2	0	1	4	0	0	0	4	0
June	8.6	W.	38	W.	2	5	6	5	4	19	6	9	5	1	13	9	8	13	9	0	0	0	0	0	0	0	8	0
July	8.3	SW.	27	SW.	0	8	1	5	7	14	14	8	5	0	14	15	2	4	4	0	0	0	0	0	0	0	4	0
August	8.3	NW.	29	SW.	0	14	2	5	5	12	9	3	11	1	12	14	5	6	5	0	0	0	2	0	0	0	4	0
September	9.0	S.	36	W.	1	14	3	11	2	16	6	5	3	0	10	12	8	6	5	0	0	0	0	0	0	0	1	0
October	11.0	NW.	29	W.	0	17	3	9	6	5	10	5	7	0	10	6	15	11	9	0	0	0	1	0	0	1	0	0
November	13.2	W.	47	W.	6	7	5	2	4	2	13	20	7	0	3	3	24	12	7	11	10	0	0	6	0	13	0	0
December	11.4	W.	30	W.	2	8	6	16	3	3	8	15	3	0	1	0	30	15	9	15	12	0	1	13	0	29	1	0
Year	10.5	W.	60	W.	24	114	44	102	54	111	112	111	79	3	84	110	171	144	94	95	69	2	13	67	0	120	29	0

GRAND JUNCTION, COLO.

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

January	3.0	N.	18	NW.	0	14	6	4	11	0	2	4	18	3	13	9	9	10	8	12	10	0	0	19	0	31	0	0
February	3.7	NW.	18	NW.	0	14	7	3	7	2	1	4	17	1	11	8	9	8	6	11	7	0	1	10	0	28	0	0
March	5.2	N.	31	S.	0	18	6	3	12	5	1	5	12	0	10	12	9	8	4	7	6	0	0	0	0	19	0	0
April	6.8	N.	34	SW.	1	9	4	4	14	5	6	5	13	0	5	14	11	11	5	4	3	0	0	0	0	8	1	0
May	5.8	SE.	29	SW.	0	6	5	4	21	6	4	4	11	1	12	11	8	8	4	0	0	0	0	0	0	0	4	0
June	6.5	SE.	34	SW.	1	10	3	6	16	8	5	3	9	0	22	7	1	3	1	0	0	0	1	0	0	0	2	0
July	5.5	SE.	31	S.	0	9	2	5	25	6	4	2	9	0	14	13	4	15	10	0	0	0	0	0	0	0	0	0
August	4.9	SE.	25	S.	0	4	2	1	29	6	3	5	12	0	14	13	4	6	5	0	0	0	0	0	0	18	0	0
September	6.0	SE.	26	S.	0	7	3	2	25	12	4	0	6	1	16	10	4	13	8	0	0	0	0	0	0	0	0	0
October	4.6	SE.	25	SW.	0	12	2	6	19	4	3	5	10	1	20	4	7	5	4	4	1	0	0	0	0	5	2	0
November	3.7	SE.	14	SE.	0	4	6	1	24	4	4	2	11	4	17	9	4	4	2	6	3	0	0	1	0	30	0	0
December	3.3	NW.	13	SE.	0	11	4	2	10	5	2	7	21	0	16	13	2	1	1	2	1	0	1	4	0	31	0	0
Year	4.9	SE.	34	SW.	2	118	50	41	213	63	39	46	149	11	170	123	72	92	58	46	31	1	2	34	46	152	53	0

Annual meteorological summary for the year ending December 31, 1929—Continued

GRAND RAPIDS, MICH.

[φ=42° 58′ N.; λ=85° 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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.248	29.800	28.400	17.2	19.8	20.0	25.1	12.4	18.8	41	−2	13	14	15	83	78	79	0.081	0.086	0.089	4.00	0.69	9.2	8.5	8.2	8.9
February	29.313	29.820	28.700	17.7	23.3	22.1	27.2	13.9	20.6	45	−9	14	16	16	83	72	76	.084	.093	.093	.66	.12	8.7	7.5	7.2	7.3
March	29.184	29.770	28.240	35.8	43.1	41.2	47.6	31.7	39.6	66	9	30	31	31	79	63	68	.176	.182	.182	2.06	1.80	6.8	7.2	6.6	6.5
April	29.134	29.520	28.464	43.9	53.5	51.3	57.5	39.8	48.6	80	27	36	36	38	76	55	62	.234	.237	.252	5.61	1.35	6.4	7.2	6.6	6.8
May	29.288	29.760	28.660	50.6	60.5	58.8	64.9	44.7	54.8	88	32	41	42	42	71	52	56	.289	.296	.301	6.31	2.56	6.3	6.1	6.2	6.2
June	29.208	29.459	28.750	59.6	70.8	69.7	74.9	54.6	64.8	90	40	51	51	51	74	51	54	.394	.397	.396	2.18	.63	6.0	6.5	3.8	5.9
July	29.264	29.598	28.944	68.1	79.7	78.5	83.5	61.7	72.6	93	48	58	56	57	71	46	48	.498	.473	.478	2.30	1.23	4.3	5.1	4.9	5.0
August	29.278	29.563	28.820	61.4	75.6	73.3	79.4	56.9	68.2	88	47	54	52	51	77	45	47	.429	.404	.387	.70	.40	5.2	5.9	4.3	6.0
September	29.315	29.680	28.900	56.0	69.2	65.7	73.6	52.2	62.9	91	36	49	49	49	80	50	57	.369	.371	.369	.99	.67	4.9	6.3	5.1	6.2
October	29.264	29.830	28.400	44.6	55.3	51.7	57.9	40.9	49.4	72	29	39	38	40	82	56	66	.251	.240	.256	3.40	1.60	6.2	5.9	5.6	6.6
November	29.272	29.761	28.540	32.8	38.2	36.3	40.7	29.9	35.3	61	6	27	28	29	80	67	76	.158	.163	.172	1.29	.38	7.7	8.2	6.0	8.2
December	29.233	29.740	28.650	25.9	28.5	28.4	31.5	22.3	26.9	45	4	22	23	24	85	79	83	.122	.127	.133	2.71	.72	9.2	9.3	8.8	9.5
Year	29.246	29.830	28.240	42.8	51.5	49.8	55.3	38.4	46.9	93	−9	36	36	37	78	60	64	.257	.256	.259	32.21	2.56	6.7	7.0	6.1	6.9

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.354	29.890	28.490	2.8	8.7	8.1	14.7	−3.0	5.8	35	−24	1	4	5	91	81	84	0.049	0.057	0.058	2.54	0.97	5.8	5.2	4.9	5.4
February	29.415	29.922	28.618	6.1	14.4	14.7	19.8	1.9	10.8	37	−24	5	10	11	94	81	84	.059	.072	.073	1.58	.61	6.6	6.3	5.6	6.3
March	29.209	29.930	28.363	29.2	37.1	35.9	41.5	25.3	33.4	61	1	26	29	29	87	74	75	.147	.168	.163	2.11	1.51	5.7	5.9	6.0	6.3
April	29.224	29.630	28.761	40.1	48.0	46.8	53.2	36.8	45.0	77	24	35	36	37	82	64	69	.212	.218	.226	6.47	1.89	6.5	5.7	5.4	6.0
May	29.365	29.820	28.790	48.1	57.3	55.9	61.9	41.7	51.8	86	28	41	43	43	78	60	63	.290	.315	.313	1.70	.66	5.1	6.3	5.5	5.8
June	29.279	29.620	28.750	57.5	66.6	64.8	71.0	52.7	61.8	86	39	52	54	54	81	64	68	.400	.427	.427	3.75	1.86	6.6	6.1	5.8	6.1
July	29.328	29.650	28.880	65.5	76.5	74.4	80.4	60.1	70.2	91	47	58	58	59	75	54	60	.482	.503	.517	2.04	.89	4.0	5.8	3.7	5.0
August	29.360	29.700	28.930	60.2	71.7	71.3	76.0	56.2	66.1	89	46	55	55	57	83	58	61	.441	.449	.474	1.70	.85	6.2	5.8	4.6	5.8
September	29.381	29.770	28.920	54.4	65.2	61.8	68.7	50.9	59.8	92	35	49	48	50	82	56	66	.359	.353	.371	2.38	1.22	5.6	4.9	5.3	6.0
October	29.355	29.910	28.690	43.9	52.6	50.5	56.8	40.0	48.4	80	31	38	39	39	80	61	66	.236	.244	.251	1.86	.62	6.7	6.8	5.2	6.9
November	29.347	29.900	28.570	27.3	33.7	32.0	37.1	23.6	30.4	53	−5	22	22	21	78	62	65	.131	.137	.134	.53	.34	4.7	6.3	6.2	6.1
December	29.327	29.860	28.620	20.5	25.2	24.6	28.2	16.0	22.1	46	0	17	20	20	86	80	83	.097	.110	.112	.91	.53	9.2	8.7	8.1	8.6
Year	29.329	29.930	28.363	38.0	46.4	45.1	50.8	33.5	42.1	92	−24	33	35	35	83	66	70	.242	.254	.260	27.57	1.89	6.1	6.2	5.5	6.2

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.151	29.630	28.630	32.0	43.4	37.9	48.1	27.5	37.8	68	14	27	29	29	81	59	70	0.155	0.170	0.171	1.68	0.51	5.5	5.9	4.9	5.9
February	29.137	29.500	28.665	30.9	42.5	37.5	47.7	26.9	37.3	71	15	27	31	31	86	64	77	.162	.188	.183	7.04	2.09	6.3	5.6	5.8	5.9
March	29.087	29.600	28.220	45.8	59.5	52.8	64.0	39.8	51.9	87	19	39	38	42	79	50	68	.275	.264	.299	4.34	1.57	6.0	5.1	4.8	5.5
April	29.024	29.540	28.390	55.2	67.6	61.1	72.8	46.8	59.8	90	32	47	46	46	76	51	61	.339	.331	.334	5.18	2.69	4.9	5.7	4.5	5.3
May	29.162	29.573	28.310	61.7	72.6	65.8	77.2	53.8	65.5	88	42	55	55	57	80	56	74	.455	.457	.484	3.88	.97	6.7	6.8	5.8	6.6
June	29.053	29.269	28.800	69.5	79.6	71.6	82.9	60.8	71.8	92	45	62	61	64	78	55	78	.568	.545	.603	6.31	1.25	5.2	6.1	6.6	6.0
July	29.152	29.378	28.880	71.3	81.2	73.6	85.0	64.2	74.6	93	56	66	66	68	82	61	83	.637	.642	.684	3.83	1.25	5.8	5.1	5.7	5.5
August	29.090	29.410	28.810	69.0	79.7	72.7	83.6	62.7	73.2	91	51	64	63	67	86	59	82	.612	.597	.667	4.32	1.48	4.4	4.5	5.9	5.1
September	29.157	29.350	28.900	63.7	75.4	67.8	78.6	59.2	68.9	92	39	61	62	63	90	66	85	.546	.577	.591	3.11	*4.37	6.0	5.8	5.3	5.7
October	29.133	29.651	28.470	49.2	63.6	54.1	67.3	43.3	55.3	78	32	46	52	48	89	69	82	.318	.402	.348	6.60	1.59	3.3	3.5	3.2	3.6
November	29.160	29.500	28.550	44.4	54.7	47.7	57.2	39.5	48.4	79	10	40	45	42	86	71	82	.286	.337	.306	4.23	1.14	7.3	6.4	5.8	6.5
December	29.164	29.550	28.500	32.9	46.7	39.7	50.9	29.2	40.0	71	9	29	35	34	87	67	79	.178	.229	.211	3.10	1.43	4.5	5.4	4.4	5.0
Year	29.122	29.651	28.220	52.1	63.9	56.9	67.9	46.1	57.0	93	9	47	49	49	83	61	77	.378	.395	.407	53.62	4.37	5.5	5.5	5.2	5.6

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	28.989	29.420	28.560	37.8	46.0	44.5	51.9	34.7	43.3	71	23	32	34	34	79	66	68	0.191	0.209	0.207	3.82	0.82	4.8	5.1	4.6	5.5
February	28.958	29.320	28.520	37.5	46.1	44.8	51.2	34.4	42.8	66	23	32	37	36	82	71	72	.197	.231	.220	9.16	2.49	6.9	5.8	5.5	6.2
March	28.934	29.430	28.252	49.2	59.0	57.6	64.2	46.0	55.1	88	27	42	42	42	77	57	60	.292	.298	.302	9.03	3.03	5.9	5.5	4.8	5.8
April	28.884	29.410	28.310	57.1	67.4	65.7	72.6	53.9	63.2	86	41	48	47	46	74	51	52	.352	.336	.327	5.73	1.44	5.2	5.7	4.2	5.3
May	29.012	29.430	28.250	62.5	72.0	68.6	76.5	58.4	67.4	87	42	56	56	56	80	59	66	.470	.470	.467	3.66	1.66	6.5	6.0	5.9	6.0
June	28.907	29.150	28.630	69.9	79.1	75.1	83.5	65.1	74.3	92	54	63	62	63	78	57	67	.578	.558	.580	2.97	1.07	4.9	5.7	5.6	5.5
July	29.007	29.240	28.780	72.0	82.6	76.8	86.9	67.6	77.2	93	59	66	66	67	82	58	72	.650	.640	.657	1.62	.44	4.5	5.5	6.4	5.8
August	28.936	29.230	28.690	71.2	82.6	78.0	86.7	67.7	77.2	94	60	64	64	65	78	54	65	.600	.597	.620	1.35	.71	4.4	4.5	4.9	4.8
September	28.986	29.176	28.750	65.3	73.6	70.5	77.4	63.3	70.4	91	47	62	63	64	88	71	80	.563	.589	.602	12.95	5.85	6.4	6.3	6.2	6.4
October	28.970	29.450	28.360	53.9	63.7	60.2	67.9	50.9	59.4	80	41	46	48	48	76	61	66	.320	.354	.345	7.58	3.78	4.0	4.0	3.9	4.1
November	29.002	29.300	28.514	47.5	53.7	51.8	57.7	44.9	51.3	75	15	42	43	44	83	70	75	.304	.318	.319	5.50	1.06	6.6	6.7	5.6	6.4
December	29.021	29.400	28.380	37.6	47.8	46.2	54.0	34.7	44.4	73	17	32	36	36	80	66	69	.199	.229	.240	1.41	1.41	3.9	4.2	3.8	4.4
Year	28.967	29.450	28.250	55.1	64.5	61.6	69.2	51.8	60.5	94	15	49	50	50	80	62	68	.393	.402	.407	66.81	5.85	5.3	5.4	5.1	5.5

* Sept. 30—Oct. 1.

Annual meteorological summary for the year ending December 31, 1929—Continued

GRAND RAPIDS, MICH.

[H_b=707 ft.; h_t=70 ft.; h_r=70 ft.; h_a=87 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	6.9	W.	24	W.	0	1	2	5	8	5	9	18	14	0	0	7	24	18	16	28	16	0	0	23	0	31	0	2
February	5.3	W.	18	W.	0	4	2	11	9	5	3	17	5	0	3	11	14	12	8	21	11	0	1	20	0	28	0	0
March	6.5	W.	36	NW.	1	1	3	5	7	14	8	11	13	0	4	13	14	14	9	9	5	0	2	2	0	13	3	2
April	6.5	W.	22	W.	0	2	2	10	10	7	12	8	9	0	6	10	14	12	11	3	2	2	0	0	0	6	6	0
May	5.7	W.	27	W.	0	4	1	6	11	6	9	21	4	0	8	8	15	10	8	4	1	0	0	0	0	0	4	0
June	4.5	W.	27	NW.	0	0	3	9	6	10	4	19	9	0	6	14	10	11	9	0	0	1	1	0	0	1	0	7
July	4.7	W.	17	W.	0	2	3	4	10	6	11	18	7	1	8	17	6	8	4	0	0	0	0	0	4	0	7	0
August	4.0	W.	18	NW.	0	8	7	4	6	7	6	11	11	2	6	13	12	4	3	0	0	0	0	0	0	0	5	0
September	4.6	W.	24	NW.	0	6	3	12	6	10	5	11	3	4	9	4	17	7	6	0	0	0	0	0	3	0	0	0
October	5.3	W.	20	NW.	0	11	5	6	6	6	7	11	7	3	9	4	18	7	7	0	0	0	0	0	0	2	0	0
November	5.8	W.	19	NW.	0	5	2	7	1	4	12	15	14	0	4	3	23	13	9	12	9	0	0	6	0	13	0	0
December	5.7	SE.	17	NW.	0	3	4	5	13	5	10	5	15	2	0	3	28	14	11	17	11	0	1	13	0	28	1	0
Year	5.5	W.	36	NW.	1	47	37	84	93	85	96	165	111	12	63	107	195	130	101	94	55	3	5	64	8	121	33	4

GREEN BAY, WIS.

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

January	9.3	SW.	36	SW.	2	6	1	3	0	15	16	13	8	0	12	8	11	16	11	20	16	0	0	28	0	31	0	0
February	7.7	S.	29	SW.	0	11	3	5	3	12	9	7	5	1	8	6	14	10	6	13	9	0	2	26	0	28	0	2
March	11.2	S.	44	NE.	4	7	9	2	2	19	7	7	9	0	6	12	13	11	8	6	2	0	2	4	0	22	2	0
April	10.9	S.	48	NE.	2	11	9	7	7	16	3	4	3	0	8	8	14	12	12	4	3	0	2	0	0	8	5	0
May	10.6	S.	33	SW.	1	8	5	4	10	17	6	4	8	0	8	11	12	9	7	2	1	1	0	0	0	2	6	0
June	9.9	S.	29	S.	0	7	10	4	8	14	8	5	4	0	6	15	9	13	10	0	0	1	0	0	0	0	5	0
July	8.8	S.	37	NE.	1	5	6	6	9	14	10	8	4	0	10	15	6	5	5	0	0	0	0	0	1	0	6	0
August	7.5	S.	27	NW.	0	7	2	7	8	15	8	8	7	0	8	12	11	10	6	0	0	0	0	0	0	0	6	0
September	9.7	S.	32	S.	0	4	9	3	12	16	10	2	4	0	8	9	13	9	7	0	0	0	0	0	2	0	4	0
October	10.8	SW.	37	N.	2	10	6	5	5	9	15	4	7	1	6	9	16	8	7	2	0	0	1	0	0	1	1	0
November	11.2	SW.	30	SW.	0	5	3	2	0	10	21	12	7	0	9	7	14	5	4	6	3	0	1	8	0	19	0	1
December	10.2	N.	32	N.	0	14	4	7	1	7	15	9	5	0	1	5	25	9	4	17	7	0	1	24	0	31	0	0
Year	9.8	S.	48	NE.	12	95	67	55	65	164	128	83	71	2	90	117	158	117	87	70	41	2	9	90	3	142	35	3

GREENSBORO, N. C.

[H_b=886 ft.; h_t=5 ft.; h_r=3 ft.; h_a=56 ft.]

January	7.8	NE.	29	W.	0	7	16	5	1	3	10	12	8	0	10	6	15	11	8	1	0	0	2	0	0	22	0	0
February	6.3	NE.	31	NW.	0	15	10	7	1	5	10	3	4	1	11	4	13	12	11	2	1	0	3	1	0	23	4	0
March	9.4	SW.	42	SW.	3	5	6	2	3	13	19	8	6	0	10	9	12	12	10	0	0	0	4	0	0	8	3	0
April	9.2	SW.	31	NE.	0	1	5	2	1	5	28	7	10	1	9	12	9	11	7	0	0	0	0	0	1	0	1	0
May	8.1	SW.	35	W.	1	4	11	3	4	12	22	4	0	2	8	6	17	13	10	0	0	0	2	0	0	0	10	0
June	6.7	SW.	30	SW.	0	5	12	1	5	11	13	7	5	1	4	16	10	15	12	0	0	0	1	0	5	0	11	0
July	6.2	SW.	36	NW.	1	2	13	3	0	13	17	7	5	2	6	16	9	15	12	0	0	0	1	0	11	0	14	0
August	5.3	NE.	24	NE.	0	13	16	2	0	10	9	4	5	3	9	15	7	12	9	0	0	0	1	0	0	1	11	0
September	6.8	NE.	29	S.	0	6	18	3	4	19	8	2	0	0	8	10	12	12	10	0	0	0	1	0	2	0	4	0
October	7.3	NE.	31	NE.	0	8	20	2	2	2	13	8	6	1	17	8	6	8	5	0	0	0	2	0	0	1	0	0
November	6.8	SW.	29	SW.	0	13	7	2	1	11	15	4	6	1	8	4	18	13	12	1	0	0	3	1	0	12	1	0
December	7.0	SW.	34	NW.	1	6	8	0	2	4	27	11	4	0	13	7	11	10	7	2	2	0	7	1	0	18	0	0
Year	7.2	SW.	42	SW.	6	85	142	32	24	108	191	77	59	12	113	113	139	144	113	6	3	0	26	3	21	84	59	0

GREENVILLE, S. C.

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

January	7.9	NE.	37	W.	3	7	23	4	0	4	11	7	6	0	13	2	16	13	10	0	0	0	6	0	0	12	0	0
February	6.7	NE.	30	W.	0	9	21	5	2	8	6	3	1	1	9	7	12	12	11	3	2	0	6	1	0	14	2	0
March	8.7	NE.	40	SW.	2	10	14	6	3	13	8	5	3	0	9	9	13	14	12	0	0	0	0	0	0	3	4	0
April	8.7	SW.	31	W.	0	6	9	3	0	15	15	11	1	0	11	8	11	8	8	0	0	2	0	0	0	0	6	0
May	7.5	S.	42	W.	1	6	13	3	3	15	12	7	3	0	8	11	12	16	11	0	0	0	0	0	0	0	10	0
June	7.1	NE.	29	NE.	0	4	12	2	2	13	11	13	3	0	6	16	8	12	10	0	0	0	0	0	3	0	10	0
July	5.9	NE.	30	NE.	0	6	13	7	4	6	7	10	9	0	7	17	7	15	10	0	0	0	0	0	6	0	17	0
August	6.1	NE.	26	N.	0	15	19	7	4	4	1	8	4	0	10	15	6	9	4	0	0	0	1	0	10	0	8	0
September	7.5	NE.	26	NE.	0	4	30	7	2	9	4	0	2	2	8	8	14	18	16	0	0	0	0	0	1	0	5	0
October	8.3	NE.	36	NE.	1	10	30	2	0	5	4	6	5	0	15	8	8	9	6	0	0	0	0	0	0	0	5	0
November	6.9	NE.	27	W.	0	5	19	4	0	13	10	4	4	1	10	1	19	16	14	0	0	0	1	1	0	4	1	0
December	7.3	SW.	30	SW.	0	7	11	3	0	4	18	15	4	0	17	4	10	9	6	1	1	0	5	0	0	13	0	0
Year	7.4	NE.	42	W.	7	89	214	53	20	109	107	89	45	4	123	106	136	151	118	4	3	2	19	2	20	46	64	0

Annual meteorological summary for the year ending December 31, 1929—Continued

GROESBECK, TEX.
[ϕ=31° 30′ N.; λ=96° 28′ 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	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.574	30.020	29.110	42.7	52.0		58.5	38.2	48.4	72	20	39	39		88	64		0.264	0.265		3.84	2.24	6.2	6.5		6.4
February	29.574	30.120	29.062	36.2	43.9		48.9	33.7	41.3	70	16	34	35		91	74		.208	.219		1.74	0.94	7.0	6.4		6.4
March	29.443	29.860	28.960	53.8	65.8		71.5	51.9	61.7	89	35	50	50		89	60		.393	.387		2.31	1.28	5.7	5.5		4.9
April	29.434	29.780	29.090	61.9	74.2		78.4	60.5	69.4	88	48	55	58		87	59		.506	.511		3.45	1.78	6.3	5.8		5.3
May	29.477	29.720	29.030	66.1	76.3		80.4	63.0	71.7	93	44	63	63		89	66		.586	.600		16.59	5.20	7.7	6.4		6.0
June	29.442	29.610	29.240	73.3	86.2		89.8	70.3	80.0	94	64	70	69		89	57		.726	.702		.37	.34	4.1	4.6		3.5
July	29.538	29.680	29.320	75.3	87.8		91.3	72.1	81.7	97	68	72	70		90	55		.785	.721		3.13	2.38	4.0	5.7		4.6
August	29.515	29.645	29.310	73.3	91.5		95.6	71.2	83.4	100	64	68	64		85	42		.699	.609		.13	.10	1.8	2.1		2.2
September	29.487	29.650	29.220	67.5	85.4		89.4	65.5	77.4	96	58	64	61		89	47		.613	.559		2.19	1.07	3.2	3.3		3.3
October	29.540	29.840	29.040	58.8	76.5		80.2	57.3	68.8	89	36	55	54		86	48		.449	.443		2.36	1.38	3.2	4.0		3.9
November	29.650	30.010	29.290	43.4	53.9		57.8	41.3	49.6	74	28	40	39		89	61		.267	.259		6.62	3.38	4.9	5.8		5.9
December	29.676	30.080	29.250	43.0	54.9		59.1	40.1	49.6	77	8	39	42		87	63		.298	.318		1.47	.75	5.2	3.9		3.9
Year	29.529	30.120	28.960	57.9	70.7		75.1	55.4	65.2	100	8	54	54		88	58		.483	.466		44.20	5.20	4.9	5.0		4.7

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	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.527	29.970	28.720	16.8	22.9		30.3	11.7	21.0	56	−3	12	16		79	75		0.083	0.104		3.33	1.21	5.8	6.6		5.9
February	29.560	30.030	28.830	17.0	26.6		31.7	15.2	23.4	55	−6	12	16		81	64		.084	.098		.84	.52	5.8	6.6		6.4
March	29.339	30.010	28.770	40.7	51.5		58.0	38.0	48.0	87	19	34	35		77	55		.211	.216		5.11	1.96	5.3	6.5		5.9
April	29.310	29.710	28.720	50.5	60.2		65.3	47.3	56.3	88	32	43	43		76	56		.289	.297		3.85	1.04	5.7	6.3		5.8
May	29.465	29.830	28.990	56.0	65.2		69.9	51.8	60.8	88	38	49	49		79	58		.385	.386		4.92	1.43	6.6	8.1		6.9
June	29.368	29.630	29.020	65.4	76.0		80.3	61.0	70.6	93	46	58	58		79	56		.499	.505		4.80	1.70	5.4	5.2		4.8
July	29.449	29.670	29.210	71.6	82.5		86.4	68.1	77.2	95	58	66	65		81	57		.636	.635		6.15	2.36	4.9	7.0		5.3
August	29.459	29.680	29.140	66.9	80.1		84.2	64.0	74.1	98	49	61	62		82	55		.557	.567		1.34	.98	4.2	5.0		4.4
September	29.478	29.800	29.150	59.2	71.9		75.8	56.9	66.4	94	43	54	54		84	56		.436	.438		3.18	1.44	4.2	5.4		4.9
October	29.478	29.790	29.190	48.2	61.4		65.6	46.6	56.1	80	32	44	43		85	57		.296	.299		4.67	1.67	4.0	4.1		4.2
November	29.559	30.110	29.030	32.0	41.8		45.7	29.8	37.8	62	−1	28	29		82	62		.163	.175		1.43	.63	4.6	5.8		5.6
December	29.502	30.040	29.020	28.1	35.4		39.6	24.5	32.0	60	1	24	28		86	75		.148	.167		.66	.31	5.9	6.8		6.8
Year	29.458	30.110	28.720	46.0	56.3		61.1	42.9	52.0	98	−6	40	42		81	60		.316	.324		40.28	2.36	5.2	6.1		5.6

HARRISBURG, PA.
[ϕ=40° 16′ N.; λ=76° 52′ 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	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.680	30.250	28.930	27.4	31.3	30.0	37.8	22.9	30.4	63	5	17	16	16	65	52	55	0.107	0.097	0.098	3.16	0.81	6.7	6.1	4.9	6.2
February	29.713	30.040	29.280	26.2	33.6	33.2	38.1	23.7	30.9	55	13	19	19	20	73	54	58	.110	.107	.114	3.21	1.06	5.8	5.8	6.1	5.6
March	29.573	30.104	28.660	40.4	49.7	48.5	55.4	36.3	45.8	78	13	31	32	32	70	55	56	.196	.212	.212	2.19	.88	5.3	6.2	3.9	5.5
April	29.522	30.040	28.820	48.8	57.3	55.7	62.4	44.4	53.4	89	33	39	41	41	70	59	60	.251	.275	.273	6.03	1.86	6.9	6.9	6.4	6.5
May	29.678	30.157	28.650	56.6	65.7	63.6	70.8	50.8	60.8	91	38	47	48	48	72	55	60	.353	.369	.367	4.14	2.78	6.0	6.2	5.2	5.8
June	29.571	29.768	29.200	65.6	75.5	72.2	81.1	60.1	70.6	94	44	55	55	57	70	51	61	.463	.461	.490	5.74	1.88	4.4	5.1	5.7	4.9
July	29.655	29.990	29.320	69.2	78.9	76.6	83.9	63.9	73.9	95	54	59	59	60	72	51	60	.520	.514	.546	3.01	1.05	5.1	5.0	4.7	4.8
August	29.618	29.951	29.220	65.4	76.1	73.4	81.3	61.2	71.2	93	50	56	54	56	71	49	56	.455	.444	.461	2.49	1.13	4.1	4.6	3.9	4.6
September	29.721	30.100	29.370	61.6	72.1	69.6	77.1	57.8	67.4	96	41	54	55	56	77	55	65	.446	.461	.482	5.10	1.60	5.5	5.6	4.4	5.3
October	29.671	30.337	28.900	47.6	56.9	54.6	60.7	44.1	52.4	73	34	40	40	39	75	56	60	.254	.265	.255	7.10	4.08	4.9	6.4	3.7	5.5
November	29.688	30.140	28.860	41.0	47.1	44.6	49.8	37.6	43.7	72	10	34	33	33	78	60	64	.229	.221	.215	2.82	1.77	5.9	6.5	6.2	6.6
December	29.681	30.240	29.040	30.3	35.6	34.1	39.8	27.1	33.4	63	13	22	24	26	72	63	70	.134	.143	.145	2.40	.78	7.1	6.2	6.7	7.1
Year	29.648	30.337	28.650	48.3	56.7	54.7	61.5	44.2	52.8	96	5	39	40	40	72	55	60	.293	.297	.305	47.39	4.08	5.6	5.9	5.2	5.7

HARTFORD, CONN.
[ϕ=41° 46′ N.; λ=72° 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: Extremes: Monthly	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.846	30.540	29.020			27.0	34.8	19.5	27.2	60	3			14			56			0.088	3.54	0.95			4.5	4.5
February	29.911	30.280	29.420			31.2	37.4	22.3	29.8	53	8			20			61			.110	4.73	2.66			4.4	4.1
March	29.744	30.230	28.720			42.0	50.9	32.3	41.6	73	8			29			62			.173	3.52	1.09			4.7	4.7
April	29.731	30.220	28.800			49.3	56.3	39.6	48.0	90	28			37			67			.239	7.66	1.74			6.0	6.5
May	29.883	30.340	28.860			59.3	70.7	48.7	59.7	92	39			46			64			.338	4.41	1.04			5.5	4.9
June	29.760	29.990	29.360			69.7	79.0	58.7	68.8	92	43			56			63			.471	1.59	.79			4.4	5.0
July	29.847	30.240	29.440			78.5	83.4	61.1	72.2	92	50			59			62			.514	.94	.38			3.2	4.5
August	29.813	30.160	29.310			69.9	79.4	59.0	69.2	90	50			57			65			.479	4.82	2.98			4.3	5.0
September	29.941	30.402	29.600			66.3	75.9	54.7	65.3	95	38			57			74			.490	1.39	.49			4.5	5.1
October	29.869	30.532	29.190			52.3	61.2	42.0	51.6	74	30			39			63			.260	4.02	2.73			3.5	4.9
November	29.869	30.335	29.000			43.4	49.6	35.5	42.6	77	11			33			67			.212	2.64	1.48			4.9	6.5
December	29.890	30.560	29.230			32.0	38.4	25.0	30.7	50	4			24			71			.133	3.85	.73			5.7	6.8
Year	29.842	30.560	28.720			51.7	59.6	41.5	50.6	95	3			39			65			.292	43.11	2.98			4.6	5.2

Annual meteorological summary for the year ending December 31, 1929—Continued

GROESBECK, TEX.

[H_b=461 ft.; h_t=11 ft.; h_r=3 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	10.3	N.	33	NW.	1	8	1	2	6	8	0	1	5	0	7	8	16	9	5	0	0	0	1	0	0	10	2	0
February	10.0	N.	36	NE.	1	9	6	5	1	4	0	0	3	0	9	4	15	11	7	2	0	0	1	2	0	13	1	0
March	10.3	S.	40	S.	5	3	2	3	6	9	2	4	2	0	11	14	6	11	9	0	0	1	1	0	0	0	7	0
April	11.6	S.	32	E.	0	2	4	2	7	9	3	0	2	1	9	12	9	9	5	0	0	0	0	0	0	0	10	0
May	10.9	SE.	36	NW.	2	3	2	5	10	8	2	0	1	0	5	16	10	14	13	0	0	0	0	0	1	0	12	0
June	8.4	SE.	32	NE.	0	2	2	3	8	7	7	0	0	1	14	16	0	3	1	0	0	0	0	0	16	0	5	0
July	7.9	SE.	41	SW.	1	0	1	5	8	8	6	0	1	2	11	17	3	7	6	0	0	0	0	0	25	0	4	0
August	6.9	SE.	31	NE.	0	2	1	3	7	4	11	0	0	3	23	8	0	2	1	0	0	0	0	0	31	0	2	0
September	6.9	E.	27	SW.	0	5	6	8	2	5	3	0	0	1	18	7	5	7	5	0	0	0	0	0	12	0	6	0
October	7.5	SE.	25	SW.	0	2	4	5	7	1	3	1	6	2	15	12	4	5	4	0	0	0	1	0	0	0	6	0
November	8.5	N.	28	NE.	0	10	5	2	2	1	3	4	3	0	9	8	13	9	8	1	0	0	0	0	0	5	2	0
December	10.1	S.	36	NW.	1	4	1	2	5	10	3	2	3	1	16	7	8	4	4	2	2	0	0	3	0	11	1	0
Year	9.1	SE.	41	SW.	11	50	35	45	69	74	43	12	28	11	147	129	89	91	68	5	2	1	4	5	85	39	58	0

HANNIBAL, MO.

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

January	8.6	NW.	30	W.	0	3	7	2	2	2	8	1	8	0	11	6	14	15	12	14	9	0	2	19	0	30	0	0
February	7.5	SW.	28	SW.	0	1	3	4	1	0	9	2	7	1	7	7	14	9	4	13	7	0	1	15	0	26	0	0
March	9.4	SW.	32	W.	0	6	0	2	3	4	10	1	5	0	9	8	14	8	7	1	0	1	1	1	0	9	2	0
April	10.7	SW.	31	W.	0	0	7	4	1	3	10	2	3	0	10	8	12	17	12	0	0	1	0	0	0	1	6	0
May	8.0	SW.	35	W.	3	5	4	5	1	3	10	0	3	0	4	12	15	16	15	0	0	0	0	0	0	0	4	0
June	7.3	S.	37	SW.	1	1	3	3	1	3	10	5	3	1	13	7	10	11	10	0	0	0	1	0	3	0	8	0
July	6.0	SW.	28	S.	0	2	2	2	4	3	12	2	3	1	11	10	10	9	8	0	0	0	0	0	9	0	10	0
August	5.6	SW.	21	E.	0	3	4	3	5	3	7	0	4	2	11	13	7	10	6	0	0	0	1	0	5	0	5	0
September	6.5	S.	31	SW.	0	2	5	3	2	4	7	2	2	3	12	9	9	8	5	0	0	0	2	0	3	0	3	0
October	7.4	SW.	42	S.	1	3	1	3	4	3	6	6	3	2	18	1	12	10	10	1	1	0	2	0	0	1	1	0
November	7.9	SW.	28	NW.	0	6	3	0	0	1	11	4	4	1	9	10	11	5	3	3	1	0	5	4	0	11	0	0
December	8.0	SW.	29	N.	0	2	2	2	1	3	12	3	6	0	8	5	18	10	3	7	3	0	6	8	0	20	0	0
Year	7.7	SW.	42	S.	5	34	41	33	25	32	110	28	51	11	123	96	146	128	95	39	21	2	21	47	20	98	39	0

HARRISBURG, PA.

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

January	7.5	NW.	37	S.	2	3	4	3	8	7	9	6	22	0	7	13	11	12	9	15	6	0	2	7	0	28	0	0
February	6.1	NW.	25	NW.	0	4	10	4	4	2	5	8	19	0	6	15	7	9	6	8	4	0	1	8	0	21	0	0
March	7.1	SW.	33	SW.	1	4	1	4	12	7	13	14	7	0	10	9	12	11	9	4	2	0	0	0	0	9	0	0
April	7.6	NE.	38	S.	1	2	14	5	8	6	7	5	13	0	6	12	12	15	12	2	2	0	0	0	0	0	4	0
May	6.2	S.	30	NW.	0	4	6	7	12	6	14	6	7	0	10	9	12	13	11	0	0	0	0	0	1	0	6	0
June	5.4	W.	33	NW.	1	6	9	2	7	10	10	7	9	0	9	15	6	12	11	0	0	0	0	0	3	0	10	0
July	5.0	SW.	27	W.	0	5	9	3	4	15	14	9	3	0	11	14	6	10	10	0	0	0	0	0	8	0	9	0
August	4.9	N.	25	NW.	0	12	13	4	5	4	7	6	10	1	11	12	8	8	5	0	0	0	0	0	2	0	5	0
September	4.4	NE.	21	NE.	0	6	13	9	9	5	7	4	6	1	8	12	10	9	8	0	0	0	0	0	3	0	4	0
October	6.5	W.	29	SE.	0	4	9	5	3	6	7	13	14	1	10	9	12	9	8	0	0	0	0	0	0	0	1	0
November	5.8	W.	23	SW.	0	5	7	3	3	4	11	19	8	0	7	9	14	12	6	4	1	0	4	3	0	7	0	0
December	5.0	SW.	22	SW.	0	6	12	9	1	7	11	7	6	3	4	9	18	10	9	7	3	0	4	10	0	23	0	0
Year	6.0	SW.	38	S.	5	61	107	58	76	79	115	104	124	6	99	138	128	130	104	40	18	0	11	28	17	88	39	0

HARTFORD, CONN.

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

January	------	NW.	------	------	------	6	1	0	0	1	6	3	14	0	16	5	10	11	8	15	9	0	0	13	0	30	0	0
February	------	NW.	------	------	------	6	4	1	1	1	5	1	9	0	14	6	8	11	8	11	7	0	0	7	0	25	0	0
March	------	SW.	------	------	------	7	4	0	0	5	8	2	5	0	14	7	10	15	11	7	4	0	0	1	0	10	2	0
April	------	SW.	------	------	------	3	4	5	0	3	8	1	6	0	9	4	17	18	14	6	3	0	1	0	0	3	2	0
May	------	SW.	------	------	------	7	1	0	1	4	10	3	5	0	12	10	9	13	9	0	0	0	0	0	2	0	6	0
June	------	SW.	------	------	------	2	0	1	1	6	10	2	8	0	11	9	10	9	5	0	0	0	0	0	1	0	6	0
July	------	SW.	------	------	------	5	4	1	0	7	11	1	2	0	11	14	6	5	5	0	0	0	0	0	4	0	3	0
August	------	SW.	------	------	------	6	0	1	0	5	9	4	6	0	10	12	9	8	8	0	0	1	0	0	1	0	5	0
September	------	SW.	------	------	------	2	4	5	1	3	11	0	4	0	13	8	9	8	6	0	0	0	0	0	3	0	3	0
October	------	NW.	------	------	------	6	1	1	1	3	8	2	9	0	13	8	10	8	4	0	0	1	0	0	0	4	0	0
November	------	NW.	------	------	------	4	4	0	1	4	8	0	9	0	7	7	16	12	9	4	3	0	2	2	0	10	0	0
December	------	SW.	------	------	------	4	9	0	0	0	9	2	7	0	5	9	17	15	13	8	5	0	2	8	0	21	2	0
Year	------	SW.	------	------	------	58	36	15	6	42	103	21	84	0	135	99	131	133	100	51	31	3	5	31	11	103	29	0

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1929—Continued

HATTERAS, N. C.

[ϕ=35° 15′ N.; λ=75° 40′ W.]

Month	Pressure			Temperature								Moisture															
		Extremes		Mean					Extremes			Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight †
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.086	30.520	29.630	48.2	52.7	50.0	56.9	43.8	50.4	70	28	43	46	44	91	78	80	0.299	0.332	0.308	4.60	1.53	4.6	5.1	4.9	5.3
February	30.068	30.430	29.550	43.7	48.0	45.0	51.3	39.1	45.2	70	27	40	42	41	85	80	84	.263	.286	.262	7.07	1.63	5.9	6.3	4.9	5.5
March	30.035	30.557	29.200	55.9	60.2	56.5	63.4	49.9	56.6	78	30	49	52	50	78	75	78	.377	.415	.382	2.41	.51	5.5	5.5	3.6	4.8
April	29.947	30.500	29.090	63.9	67.7	62.2	69.6	56.4	63.0	78	47	54	58	56	72	72	82	.438	.499	.467	1.56	1.01	4.0	4.1	3.6	4.0
May	30.102	30.510	29.360	70.8	73.6	69.0	75.1	64.2	69.6	82	55	62	64	62	74	73	78	.569	.611	.566	4.86	1.51	4.7	4.3	4.9	4.2
June	29.955	30.195	29.650	76.4	78.7	74.4	80.5	69.7	75.1	86	57	68	71	69	76	77	83	.700	.760	.714	4.04	1.94	5.8	5.5	5.2	4.7
July	30.054	30.293	29.740	79.5	83.0	77.5	83.7	73.2	78.4	87	68	72	72	72	78	72	82	.780	.801	.780	12.50	7.72	4.9	4.8	5.3	4.5
August	29.970	30.300	29.680	77.9	81.9	75.8	82.7	72.0	77.4	88	62	71	71	70	79	69	83	.759	.758	.750	6.48	2.05	6.5	6.3	5.5	5.4
September	30.043	30.250	29.860	74.7	78.1	73.9	79.5	69.8	74.6	86	60	69	70	69	84	76	86	.725	.728	.723	13.71	3.28	6.1	6.1	5.0	5.7
October	30.041	30.530	29.460	64.8	69.6	64.4	70.9	59.6	65.2	80	48	57	55	57	76	62	77	.480	.454	.477	4.09	2.11	3.7	3.7	2.9	3.9
November	30.079	30.400	29.500	58.0	61.4	57.1	63.3	53.5	58.4	78	26	52	52	52	83	73	83	.425	.422	.413	3.22	1.23	7.7	6.0	5.2	6.6
December	30.100	30.450	29.590	47.7	54.0	49.7	57.1	43.1	50.1	70	26	43	44	44	83	70	82	.296	.307	.310	5.87	2.48	5.2	3.4	3.2	4.4
Year	30.040	30.557	29.090	63.5	67.4	63.0	69.5	57.9	63.7	88	26	57	58	57	79	73	82	.509	.531	.514	70.41	7.72	5.4	5.1	4.5	4.9

HAVRE, MONT.

[ϕ=48° 34′ N.; λ=109° 40′ W.]

January	27.405	27.950	26.677	0.8	6.8	4.3	11.6	−7.2	2.2	43	−39	−4	2	0	80	78	80	0.050	0.062	0.055	0.61	0.12	5.4	7.5	6.0	7.1
February	27.388	27.800	26.850	5.4	12.5	13.1	19.1	−2.8	8.2	37	−36	3	9	9	90	84	82	.062	.077	.073	.23	.17	7.0	6.5	6.1	6.2
March	27.197	27.540	26.699	30.2	42.0	41.8	47.5	25.4	36.4	73	8	25	27	28	82	57	60	.136	.148	.154	.85	.45	6.3	6.5	7.0	6.5
April	27.246	27.690	26.790	31.1	47.1	49.2	52.8	28.3	40.6	69	14	25	25	24	79	45	41	.136	.135	.133	.89	.37	7.3	7.8	6.6	7.0
May	27.351	27.750	26.910	41.0	59.8	60.8	65.6	38.5	52.0	86	24	35	33	34	80	41	42	.209	.200	.208	1.90	.52	4.2	5.0	5.5	5.1
June	27.260	27.580	26.760	52.3	69.6	71.6	75.0	43.9	62.0	92	41	45	43	43	76	42	39	.300	.287	.282	2.50	1.41	4.0	5.3	5.5	4.9
July	27.330	27.620	27.040	56.8	82.4	85.9	88.9	54.6	71.8	104	43	43	42	38	60	26	21	.280	.278	.237	.14	.14	3.2	2.7	3.4	3.3
August	27.356	27.650	27.020	56.9	82.5	85.4	88.7	54.5	71.6	99	41	42	43	42	60	26	23	.278	.286	.275	.26	.15	2.6	2.1	3.4	2.8
September	27.398	27.710	26.948	42.4	60.4	60.7	65.7	39.2	52.4	83	24	36	37	36	79	45	43	.211	.222	.216	1.46	.76	4.3	5.2	5.1	5.0
October	27.428	28.040	27.080	38.6	56.6	53.9	62.3	35.0	48.6	82	19	30	33	32	74	45	47	.168	.192	.180	.67	.52	3.0	4.2	4.3	4.2
November	27.475	28.090	26.970	30.8	37.7	34.3	42.4	23.5	33.0	62	−10	22	24	22	72	60	63	.119	.127	.120	.29	.18	6.0	6.2	5.1	6.3
December	27.387	28.060	26.840	14.8	21.0	18.1	24.3	8.4	16.4	51	−30	11	14	12	84	78	79	.082	.094	.088	1.39	.38	6.3	6.6	5.5	6.1
Year	27.352	28.090	26.677	33.4	48.2	48.3	53.7	28.9	41.3	104	−39	26	28	27	76	52	52	.169	.176	.168	10.99	1.41	5.0	5.5	5.3	5.4

HELENA, MONT.

[ϕ=46° 34′ N.; λ=112° 04′ W.]

January	25.745	26.050	25.165	7.5	13.1	12.4	17.9	1.1	9.5	48	−32	2	6	7	79	73	79	0.057	0.066	0.069	1.28	0.25	6.7	7.7	7.4	7.8
February	25.770	26.180	25.420	13.3	19.9	19.1	24.6	7.5	16.0	40	−20	9	13	11	81	73	71	.070	.082	.074	1.00	.51	6.9	7.4	8.3	7.5
March	25.663	26.040	25.155	31.1	39.8	40.7	45.1	27.6	36.4	66	5	23	24	24	71	54	53	.123	.131	.129	1.14	.69	6.1	6.8	7.5	6.8
April	25.675	26.030	25.260	31.0	44.2	45.7	49.3	28.4	38.8	66	6	23	24	24	70	48	45	.125	.132	.129	1.03	.40	6.1	7.3	8.2	7.5
May	25.791	26.120	25.500	40.3	57.7	58.6	62.9	38.4	50.6	84	26	34	38	41	76	50	55	.193	.234	.265	.88	.28	5.1	6.9	7.1	6.4
June	25.746	26.010	25.287	49.6	66.8	68.2	72.0	46.9	59.4	92	35	40	40	40	70	40	39	.250	.254	.251	.99	.42	4.8	6.0	6.0	6.2
July	25.827	26.110	25.562	57.1	78.4	82.7	85.4	55.8	70.6	100	44	40	40	37	55	27	22	.255	.252	.230	.24	.24	3.3	2.9	3.8	3.3
August	25.847	26.080	25.580	58.3	80.0	84.8	87.2	57.3	72.2	99	49	42	43	40	57	29	22	.277	.289	.254	.11	.07	3.7	2.9	3.7	3.0
September	25.841	26.090	25.510	41.5	55.9	57.8	61.9	39.5	50.7	82	30	34	34	34	74	48	45	.194	.201	.195	1.57	.30	5.0	5.2	4.9	5.1
October	25.903	26.360	25.400	39.6	52.6	52.2	59.1	36.3	47.7	75	23	28	31	32	64	45	47	.151	.173	.178	.25	.16	3.6	5.5	5.7	5.6
November	25.951	26.320	25.570	29.2	34.5	33.1	39.9	23.4	31.6	58	−7	20	22	23	68	61	65	.110	.119	.121	.38	.20	5.4	6.5	5.8	6.5
December	25.793	26.220	25.320	24.2	28.4	26.8	35.3	17.2	26.2	58	−1	14	18	18	67	64	69	.086	.099	.101	2.58	.58	6.1	7.4	7.2	7.3
Year	25.796	26.360	25.155	35.2	47.6	48.5	53.4	31.6	42.5	100	−32	26	28	28	69	51	51	.158	.169	.166	11.45	.69	5.2	6.0	6.3	6.1

HONOLULU, HAWAII

[ϕ=21° 19′ N.; λ=157° 52′ W.]

	*			†		†						†		†	†		†	†		†		†			†	
January	29.902	30.070	29.730	69.6	73.8	70.1	75.5	66.2	70.8	78	59	59	59	60	70	80	71	0.509	0.500	0.524	4.80	3.47	3.7	2.9	4.2	4.0
February	29.966	30.090	29.790	70.6	74.4	71.1	76.4	66.9	71.6	80	61	60	60	61	71	82	71	.529	.520	.540	2.43	.76	5.0	6.1	4.9	5.1
March	30.004	30.090	29.870	72.5	75.9	72.1	77.5	68.3	72.9	80	64	63	63	63	72	64	73	.570	.578	.573	.28	.10	5.5	4.9	4.2	5.2
April	30.036	30.120	29.920	73.8	77.4	73.4	78.9	70.1	74.5	82	67	63	63	63	69	62	71	.576	.577	.580	.80	.51	4.3	5.0	6.0	5.0
May	30.012	30.120	29.870	75.0	78.5	74.2	80.2	70.7	75.4	83	67	64	63	64	69	60	70	.596	.579	.595	.77	.42	4.1	4.1	3.9	4.5
June	30.004	30.097	29.860	77.1	79.9	76.4	81.6	73.0	77.3	84	71	65	65	65	66	60	68	.611	.610	.614	.27	.13	4.6	5.2	4.7	4.7
July	29.978	30.050	29.850	78.5	82.1	77.9	83.6	74.9	79.2	85	73	66	66	66	67	59	69	.651	.641	.652	.37	.14	4.5	5.0	4.7	4.8
August	29.948	30.060	29.840	78.9	82.1	77.9	83.9	74.2	79.0	88	71	67	68	68	68	61	71	.668	.674	.677	1.98	.48	3.8	5.4	5.1	4.7
September	29.940	30.010	29.830	79.3	82.4	78.5	84.4	74.2	79.3	88	71	68	68	68	68	62	70	.674	.686	.678	1.35	.58	3.4	3.5	2.9	4.1
October	29.949	30.030	29.790	77.9	81.4	77.1	83.0	73.3	78.2	85	67	68	67	67	71	62	72	.677	.665	.670	2.99	2.46	2.1	5.4	4.3	3.9
November	29.857	30.000	29.650	73.7	77.6	73.6	79.3	69.3	74.3	84	63	65	65	64	75	65	73	.619	.621	.607	4.94	2.79	4.9	6.8	4.4	6.1
December	29.896	30.030	29.700	71.0	74.5	71.7	76.1	67.9	72.0	81	61	62	62	62	74	66	73	.559	.563	.566	5.99	2.66	5.4	4.5	5.4	5.8
Year	29.958	30.120	29.650	74.8	78.3	74.5	80.0	70.8	75.4	88	59	64	64	64	70	62	71	.603	.601	.606	26.97	3.47	4.3	4.9	4.6	4.8

* No diurnal correction applied.

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

Annual meteorological summary for the year ending December 31, 1929—Continued

HATTERAS, N. C.

[H_b=11 ft.; h_t=5 ft.; h_r=4 ft.; h_a=50 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	14.7	N.	42	W.	4	15	10	1	1	3	11	10	11	0	9	14	8	13	10	0	0	0	4	0	0	3	0	0
February	13.1	N.	34	N.	2	20	12	0	1	4	8	1	10	0	9	9	10	14	11	0	0	0	1	0	0	4	0	0
March	14.3	S.	48	NW.	10	6	7	3	4	19	13	4	6	0	12	10	9	12	9	0	0	0	1	0	0	3	0	0
April	13.7	SW.	37	SW.	5	4	7	7	4	2	24	7	5	0	15	6	9	9	7	0	0	0	0	0	0	0	2	0
May	11.6	SW.	46	W.	3	2	16	2	4	8	23	7	0	0	13	12	6	11	10	0	0	0	0	0	0	0	6	0
June	11.1	SW.	36	W.	1	6	7	0	3	9	24	9	2	0	12	10	8	12	11	0	0	0	0	0	0	0	6	0
July	10.1	SW.	32	N.	0	3	10	3	2	10	27	3	4	0	14	11	6	15	14	0	0	0	0	0	0	0	9	0
August	9.0	NE.	36	N.	1	6	25	4	4	3	10	7	3	0	10	12	9	15	12	0	0	0	0	0	0	0	7	0
September	11.0	NE.	36	NE.	2	4	27	1	2	8	13	4	1	0	10	7	13	13	13	0	0	0	0	0	0	0	2	0
October	12.8	NE.	48	SE.	3	12	16	3	8	2	6	8	7	0	17	8	6	6	6	0	0	0	0	0	0	0	2	0
November	12.1	N.	33	N.	1	18	10	1	2	4	11	9	5	0	8	5	17	10	8	0	0	0	0	0	0	1	0	0
December	12.2	W.	34	W.	2	11	4	1	1	5	14	14	12	0	14	10	7	10	9	0	0	0	2	0	0	2	3	0
Year	12.1	SW.	48	NW.	34	107	151	26	36	77	184	83	66	0	143	114	108	140	120	0	0	0	8	0	0	13	37	0

HAVRE, MONT.

[H_b=2,505 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
January	6.5	SW.	28	SW.	0	3	7	10	0	1	20	15	6	0	4	9	18	13	8	20	13	0	0	25	0	31	0	0
February	6.7	SW.	31	SW.	0	4	7	1	1	0	19	16	8	0	5	12	11	5	1	15	5	0	1	22	0	28	0	0
March	7.6	SW.	32	SW.	0	7	6	4	0	0	28	13	4	0	6	12	13	6	5	9	2	1	0	2	0	25	1	3
April	6.8	SW.	33	SW.	1	5	7	7	2	1	15	14	8	1	2	12	16	6	3	7	4	0	0	3	0	20	0	0
May	6.2	E.	40	SW.	1	4	12	20	2	1	8	10	4	1	12	10	9	11	7	2	0	1	1	0	0	8	4	0
June	6.9	SW.	26	W.	0	1	1	16	3	5	18	12	2	2	9	16	5	8	7	0	0	0	0	0	1	0	6	0
July	5.4	E.	26	SW.	0	2	5	14	4	5	2	15	15	0	18	11	2	2	1	0	0	0	0	0	16	0	1	0
August	4.8	E.	28	W.	0	5	6	15	3	1	10	12	7	3	18	13	0	5	2	0	0	0	0	0	16	0	6	0
September	4.8	SW.	32	N.	0	8	3	10	1	1	16	12	5	4	11	8	11	8	6	0	0	1	1	0	0	5	3	0
October	6.2	SW.	28	W.	0	2	4	10	0	4	15	17	4	6	14	11	6	5	3	5	4	0	0	0	0	11	0	0
November	8.5	SW.	35	SW.	1	3	2	4	1	1	23	17	7	2	6	12	12	5	2	12	5	0	0	5	0	22	0	1
December	8.4	SW.	33	SW.	1	0	6	16	1	1	24	10	4	0	10	7	14	11	6	14	10	0	0	17	0	29	0	1
Year	6.6	SW.	40	SW.	4	44	66	127	18	21	198	163	74	19	115	133	117	85	51	84	43	3	3	74	33	179	21	5

HELENA, MONT.

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

Month	Wind: By self-register: Average hourly velocity	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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
January	5.6	SW.	30	SW.	0	5	2	0	0	7	21	14	12	1	4	6	21	17	10	22	17	0	1	22	0	30	0	0
February	6.4	SW.	31	SW.	0	6	1	0	1	2	22	11	11	2	2	9	17	10	6	20	10	0	2	17	0	28	0	1
March	9.2	SW.	32	SW.	0	2	1	1	0	10	26	15	7	0	5	9	17	9	3	14	7	0	0	2	0	22	0	2
April	7.7	SW.	31	SW.	0	6	1	2	1	2	29	13	6	0	1	10	19	9	5	10	5	0	0	1	0	17	0	0
May	7.7	SW.	28	SW.	0	7	4	0	2	8	20	12	9	0	6	12	13	11	9	7	5	2	0	0	0	7	3	0
June	8.2	SW.	33	SW.	1	4	3	1	0	7	27	14	3	1	7	11	12	11	4	0	0	2	0	0	1	0	5	0
July	7.4	SW.	28	S.	0	4	3	1	0	10	21	16	6	1	16	10	5	1	1	0	0	0	0	0	9	0	1	1
August	6.6	SW.	29	SW.	0	6	6	3	0	8	31	5	4	0	18	11	2	2	2	0	0	0	0	0	7	0	4	0
September	6.2	SW.	34	NW.	1	5	8	2	0	8	23	7	7	0	12	7	11	10	7	5	0	0	0	0	0	2	2	2
October	7.2	SW.	30	SW.	0	2	2	1	0	12	31	5	0	0	9	12	10	5	3	5	2	0	0	0	0	9	0	2
November	7.3	SW.	36	SW.	4	3	0	1	0	9	27	10	9	1	7	5	18	6	3	12	6	0	0	4	0	26	0	1
December	5.4	SW.	42	SW.	1	7	2	0	0	4	20	12	11	6	5	6	21	12	10	21	10	0	3	11	0	27	0	2
Year	7.1	SW.	42	SW.	7	57	32	12	4	87	298	134	94	12	92	107	166	103	63	116	62	4	6	57	17	168	15	11

HONOLULU, HAWAII*

[H_b=38 ft.; h_t=86 ft.; h_r=68 ft.; h_a=100 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
January	7.9	NE.	29	NE.	0	4	25	26	4	2	1	0	0	0	18	7	6	13	7	0	0	0	0	0	0	0	1	0
February	8.1	E.	25	E.	0	2	18	30	2	2	1	1	0	0	9	12	7	12	10	0	0	0	0	0	0	0	3	0
March	7.4	E.	25	NE.	0	5	9	40	2	1	4	1	0	0	8	17	6	7	3	0	0	0	0	0	0	0	0	0
April	8.5	E.	29	E.	0	0	15	40	1	2	1	0	1	0	13	9	8	8	6	0	0	0	0	0	0	0	1	0
May	8.1	E.	23	NE.	0	0	20	34	4	1	2	1	0	0	13	13	5	11	6	0	0	0	0	0	0	0	0	0
June	8.3	E.	24	E.	0	0	11	48	0	0	1	0	0	0	13	12	5	9	2	0	0	0	0	0	0	0	0	0
July	8.8	E.	21	E.	0	0	6	55	1	0	0	0	0	0	11	13	7	11	4	0	0	0	0	0	0	0	0	0
August	7.6	E.	22	E.	0	2	16	42	0	1	1	0	0	0	9	18	4	19	13	0	0	0	0	0	0	0	0	0
September	6.8	E.	22	E.	0	5	13	37	1	1	1	1	1	0	14	13	3	15	6	0	0	0	0	0	0	0	1	0
October	7.0	E.	22	E.	0	2	26	33	0	0	0	1	0	0	14	14	3	17	6	0	0	0	0	0	0	0	0	0
November	7.4	NE.	30	W.	0	15	19	13	3	3	3	2	2	0	7	11	12	16	10	0	0	0	0	0	0	0	1	0
December	8.2	NE.	28	NE.	0	7	29	15	2	2	2	3	2	0	12	7	12	15	11	0	0	0	0	0	0	0	0	0
Year	7.8	E.	30	W.	0	42	207	413	20	15	17	9	7	0	141	146	78	153	84	0	0	0	0	0	0	0	7	0

* At Honolulu for the observation hours see note on preceding page.

Annual meteorological summary for the year ending December 31, 1929—Continued

HOUGHTON, MICH.

[ϕ=47° 07′ N.; λ=88° 34′ W.]

Month	Pressure			Temperature								Moisture												
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness		
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.254	29.700	28.380	6.4	9.6		14.7	1.2	8.0	28	−13	4	7		90	87		0.051	0.057		6.33	1.42	9.3	9.2		8.9
February	29.347	29.850	28.570	3.9	12.7		16.8	−2.1	7.4	38	−21	1	8		88	79		.048	.061		1.19	.92	7.4	7.4		6.5
March	29.126	29.820	28.300	23.0	31.3		36.3	18.6	27.4	57	−6	20	23		86	73		.112	.130		3.85	.88	7.3	7.5		7.5
April	29.184	29.580	28.590	35.9	42.3		47.7	31.8	39.8	73	24	29	28		76	58		.165	.224		0.81	.46	5.5	5.2		5.6
May	29.277	29.700	28.780	44.6	52.8		57.8	38.3	48.0	85	27	37	35		77	54		.235	.231		1.96	.77	6.0	5.5		5.9
June	29.217	29.639	28.700	54.0	63.2		68.6	46.8	57.7	90	33	46	44		76	53		.335	.313		1.64	.54	5.0	5.4		5.5
July	29.241	29.620	28.760	62.1	71.7		76.5	55.3	65.9	95	45	54	50		75	54		.422	.425		4.68	1.84	4.8	3.6		4.5
August	29.285	29.651	28.890	59.1	68.2		73.0	53.8	63.4	88	46	52	52		82	57		.406	.405		1.14	.67	4.8	4.3		5.1
September	29.294	29.686	28.750	52.3	61.5		64.1	48.2	56.2	94	38	46	45		80	59		.318	.321		3.60	1.21	5.1	6.2		6.5
October	29.309	29.860	28.740	42.1	49.1		52.6	38.9	45.8	80	30	37	36		83	64		.229	.223		3.35	1.77	7.2	6.6		6.8
November	29.226	29.750	28.420	27.6	30.2		34.6	24.4	29.5	56	−2	23	24		84	77		.133	.134		3.24	.65	9.1	8.1		8.5
December	29.284	29.800	28.410	18.6	20.9		24.9	14.4	19.6	38	−7	16	17		89	85		.091	.095		2.83	.72	9.1	9.1		9.0
Year	29.254	29.860	28.300	35.8	42.8		47.3	30.8	39.1	95	−21	30	31		82	67		.212	.218		34.62	1.84	6.7	6.5		6.7

HOUSTON, TEX.

[ϕ=29° 47′ N.; λ=95° 24′ W.]

January	29.933	30.390	29.520	50.2	59.1		63.6	46.9	55.2	78	27	45	46		83	64		0.342	0.361		4.12	2.23	6.4	6.2		5.6
February	29.900	30.440	29.460	44.1	51.8		57.3	40.6	49.0	74	23	40	42		86	72		.270	.296		1.43	.51	7.4	6.9		7.0
March	29.809	30.190	29.360	58.7	69.1		72.7	57.1	64.9	89	41	54	55		87	62		.458	.457		2.33	1.18	6.0	5.8		5.7
April	29.786	30.140	29.510	66.4	76.4		80.1	64.8	72.4	89	56	63	61		88	61		.588	.567		8.02	6.44	6.8	7.0		5.7
May	29.846	30.050	29.420	68.9	77.7		82.0	66.1	74.0	89	51	66	65		90	68		.659	.648		12.03	3.79	6.5	6.6		5.9
June	29.799	30.010	29.630	74.4	85.9		89.9	72.2	81.0	96	64	72	69		91	58		.772	.717		3.20	1.12	2.7	5.2		3.9
July	29.875	30.020	29.680	75.9	85.3		89.8	74.3	82.0	97	69	73	70		91	61		.809	.729		3.84	1.40	3.2	6.5		4.9
August	29.848	29.980	29.700	75.8	87.4		93.1	74.8	84.0	98	71	72	68		88	54		.788	.691		1.33	.29	2.7	4.5		3.4
September	29.804	29.940	29.610	71.6	84.9		89.5	70.6	80.0	97	61	68	65		88	53		.695	.638		.15	.07	2.5	4.7		3.7
October	29.875	30.170	29.450	64.1	77.0		81.2	63.1	72.2	90	52	59	56		84	50		.525	.480		2.97	1.79	4.5	4.2		4.1
November	29.973	30.290	29.630	50.5	58.2		62.9	47.0	55.0	82	32	45	45		83	65		.332	.340		5.30	1.16	6.7	6.3		6.2
December	30.049	30.440	29.660	48.8	57.9		63.0	45.4	54.2	81	20	44	45		83	65		.342	.367		1.68	.65	5.0	5.3		5.3
Year	29.875	30.440	29.360	62.4	72.6		77.1	60.2	68.7	98	20	58	57		87	61		.548	.524		46.40	6.44	5.0	5.8		5.1

HURON, S. DAK.

[ϕ=44° 21′ N.; λ=98° 14′ W.]

January	28.715	29.140	28.030	0.3	6.3	5.7	13.7	−7.7	3.0	44	−26	−4	2	1	80	75	81	0.038	0.047	0.049	1.50	0.47	5.4	6.4	6.0	6.6
February	28.693	29.100	28.110	5.1	12.4	12.7	18.6	−2.3	8.2	36	−29	2	7	8	85	76	78	.051	.064	.067	.51	.28	7.1	7.4	6.1	7.2
March	28.465	29.110	27.860	31.2	40.3	39.3	45.4	27.3	36.4	67	11	27	28	28	85	62	67	.151	.154	.157	1.50	.54	5.4	5.2	5.5	5.5
April	28.483	28.800	27.710	37.3	52.5	52.3	57.6	35.2	46.4	83	17	33	33	34	84	52	55	.191	.194	.201	3.41	1.69	5.0	5.4	5.4	5.6
May	28.633	29.052	28.110	46.3	62.3	63.4	67.5	43.0	55.2	86	29	40	36	38	78	40	41	.265	.237	.248	1.17	.51	3.6	3.5	3.2	4.0
June	28.537	28.870	28.080	58.5	73.4	73.9	78.5	54.8	66.6	101	45	50	50	48	76	46	44	.381	.381	.358	.89	.48	4.1	4.4	4.6	4.8
July	28.583	28.838	28.205	66.1	82.6	82.9	87.7	62.2	75.0	99	48	58	59	58	76	48	46	.495	.532	.509	1.69	.92	4.8	3.5	3.8	4.3
August	28.617	28.874	28.300	61.8	81.5	80.4	87.0	59.0	73.0	99	42	55	55	55	78	41	43	.439	.439	.440	1.99	.60	2.9	3.7	3.8	3.6
September	28.634	29.015	28.127	50.3	62.8	60.8	67.2	47.0	57.1	104	30	45	44	45	82	54	60	.309	.299	.317	2.79	.98	7.4	6.6	5.8	6.7
October	28.660	29.022	28.191	41.0	57.0	53.7	61.4	39.0	50.2	84	25	36	37	38	83	51	58	.222	.229	.234	1.62	.72	3.9	4.5	4.4	4.7
November	28.708	29.370	28.190	24.3	32.8	30.6	37.6	19.8	28.7	60	−7	20	22	24	83	65	75	.117	.126	.133	.36	.19	4.9	6.1	5.3	6.4
December	28.683	29.410	28.170	17.6	23.6	21.7	28.7	11.7	20.2	54	−16	13	16	16	81	71	79	.086	.096	.100	.08	.05	4.4	5.9	5.6	5.9
Year	28.618	29.410	27.710	36.6	49.0	48.1	54.2	32.4	43.3	104	−29	31	32	33	81	57	61	.220	.233	.234	17.51	1.69	4.9	5.2	5.0	5.4

INDIANAPOLIS, IND.

[ϕ=39° 46′ N.; λ=86° 10′ W.]

January	29.183	29.610	28.350	22.0	26.0	27.3	34.4	15.5	25.0	64	−1	18	16	19	82	64	69	0.109	0.105	0.116	4.74	1.38	7.5	6.1	5.8	6.8
February	29.208	29.680	28.630	21.0	28.3	28.9	33.1	18.1	25.6	54	−5	17	18	19	85	65	65	.107	.106	.110	1.47	1.01	6.3	6.8	5.5	6.7
March	29.058	29.660	28.400	41.4	50.9	50.6	56.7	37.8	47.2	83	17	35	36	36	78	58	58	.222	.239	.230	3.24	.91	7.0	6.2	5.7	6.2
April	29.036	29.434	28.410	49.6	58.8	58.3	64.6	45.5	55.0	82	32	41	40	42	74	51	56	.277	.264	.279	4.28	1.21	6.7	5.5	6.9	6.3
May	29.175	29.500	28.310	54.7	63.5	62.9	68.1	50.7	59.4	89	34	48	48	48	78	60	61	.360	.366	.369	8.46	2.39	6.2	6.7	6.6	6.4
June	29.102	29.300	28.790	64.2	74.8	73.0	79.1	60.1	69.6	90	40	55	54	56	73	51	58	.446	.428	.469	5.36	1.91	4.0	5.7	4.8	4.4
July	29.172	29.380	28.920	69.6	80.4	79.5	84.4	66.6	75.5	93	50	61	60	61	75	53	56	.554	.547	.563	5.44	1.65	4.0	5.1	4.9	4.8
August	29.160	29.400	28.760	65.3	77.7	76.6	81.6	63.1	72.4	92	51	56	55	57	74	48	52	.469	.455	.482	2.49	2.09	4.0	4.2	4.2	4.1
September	29.184	29.460	28.898	59.1	71.8	69.2	75.2	57.7	66.4	90	42	53	52	54	82	53	61	.434	.427	.452	2.03	.92	4.5	4.5	4.5	4.8
October	29.170	29.562	28.589	47.1	58.3	56.4	61.7	45.0	53.4	77	32	41	40	41	80	56	60	.264	.265	.269	3.66	1.01	4.8	5.4	5.0	5.3
November	29.206	29.680	28.570	34.8	41.7	40.1	45.9	32.5	39.2	68	0	29	29	30	79	61	66	.178	.181	.185	2.15	.85	6.6	5.8	5.3	6.3
December	29.158	29.660	28.670	28.1	34.0	33.6	38.5	24.9	31.7	62	−2	24	26	27	84	72	76	.148	.162	.165	4.14	1.34	7.1	7.5	7.3	7.3
Year	29.151	29.680	28.310	46.4	55.5	54.7	60.3	43.1	51.7	93	−5	40	40	41	79	58	62	.297	.296	.307	47.46	2.39	5.7	5.8	5.5	5.8

Annual meteorological summary for the year ending December 31, 1929—Continued

HOUGHTON, MICH.

[H_b=668 ft.; h_t=64 ft.; h_r=57 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: Number of winds, 8 a. m. and 8 p. m.: Days with 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	11.0	W.	38	W.	4	1	0	9	0	2	1	9	9	0	0	8	23	24	22	26	24	0	0	31	0	31	0	0
February	6.7	W.	27	W.	0	0	2	6	1	0	0	12	4	3	6	10	12	7	5	17	7	0	0	27	0	28	0	3
March	8.9	E.	42	NW.	3	4	2	13	1	0	2	7	1	1	4	7	20	16	15	18	12	0	5	11	0	27	0	2
April	10.1	E.	38	W.	5	1	3	11	0	0	2	7	4	2	10	9	11	4	3	5	2	0	0	1	0	15	2	2
May	10.4	W.	35	W.	2	1	2	9	1	1	5	9	3	0	8	12	11	10	7	6	3	0	0	0	0	6	3	1
June	7.1	E.	30	W.	0	0	2	13	1	1	2	8	1	2	6	17	7	12	5	0	0	0	2	0	1	0	6	0
July	8.0	W.	34	NW.	2	0	1	10	0	2	2	11	3	2	12	13	6	11	10	0	0	1	3	0	2	0	7	3
August	7.7	W.	31	W.	0	1	1	10	2	1	1	10	5	0	13	8	10	8	5	0	0	0	3	0	2	0	2	1
September	8.1	E.	25	W.	0	1	2	12	2	4	1	4	4	0	6	10	14	13	9	0	0	1	3	0	2	0	2	0
October	9.8	E.	34	N.	2	4	3	11	1	1	1	8	2	0	8	7	16	14	8	4	2	0	3	0	2	0	5	0
November	10.4	W.	34	W.	2	0	5	3	1	2	5	6	8	6	1	6	23	19	15	20	14	0	0	10	0	18	0	0
December	8.6	E.	31	W.	0	3	6	12	*2	0	2	4	2	0	2	3	26	24	22	26	23	0	0	24	0	30	0	0
Year	8.9	W.	42	NW.	20	16	29	119	12	14	24	95	46	10	76	110	179	162	120	122	87	2	19	104	5	160	25	12

HOUSTON, TEX.

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

January	12.0	E.	37	E.	4	6	2	5	8	5	0	0	5	0	9	9	13	12	8	0	0	1	5	0	0	3	4	0
February	11.7	NW.	33	N.	1	5	8	6	2	1	0	0	5	1	6	6	16	9	7	1	0	0	0	1	0	5	1	0
March	12.3	SE.	33	W.	1	3	4	5	9	5	0	2	3	0	8	9	14	7	6	0	0	0	2	0	0	3	0	0
April	12.8	SE.	44	W.	2	5	5	2	11	5	0	0	2	0	6	16	8	10	5	0	0	0	1	0	0	0	6	0
May	12.7	SE.	39	NW.	3	3	4	4	13	5	1	1	0	0	7	12	12	13	12	0	0	0	0	0	0	0	11	0
June	9.3	SE.	37	N.	2	3	3	6	4	6	1	6	0	1	18	7	5	10	7	0	0	0	0	0	18	0	6	0
July	8.4	S.	28	E.	0	1	9	3	3	11	1	1	2	0	9	17	5	13	10	0	0	0	0	0	15	0	11	0
August	8.0	S.	36	N.	1	5	5	5	0	2	9	1	2	2	16	15	0	9	6	0	0	0	1	0	28	0	6	0
September	9.0	E.	26	NE.	0	7	12	3	1	3	2	0	1	1	15	10	5	5	5	2	0	0	0	0	11	0	5	0
October	10.6	E	35	NW.	1	10	5	6	1	2	0	3	4	0	6	7	8	6	6	0	0	0	0	0	0	0	3	0
November	11.1	N	33	N.	1	11	3	5	1	0	2	2	6	0	10	4	16	13	8	0	0	0	0	0	0	1	2	0
December	11.3	E.	37	NW.	3	3	3	6	4	6	3	1	5	0	12	6	13	7	6	1	1	0	3	0	0	8	2	0
Year	10.8	E.	44	W.	19	62	63	56	57	51	19	17	35	5	132	118	115	114	83	2	1	2	11	1	72	17	60	0

HURON, S. DAK.

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

January	7.6	NW.	35	NW.	2	5	8	3	8	7	3	0	27	1	7	7	17	15	12	23	15	0	0	27	0	31	0	1
February	7.9	NW.	24	NW.	0	8	4	1	8	7	2	5	20	1	4	8	16	9	5	20	9	0	1	25	0	28	0	0
March	9.3	NW.	33	NW.	1	4	3	6	7	14	3	8	16	1	9	13	9	10	5	13	5	0	3	3	0	23	1	2
April	9.2	S.	40	W.	1	10	6	12	3	12	4	7	6	0	8	13	9	6	6	4	1	1	2	0	0	10	3	0
May	9.4	S.	33	N.	1	10	6	5	8	18	2	5	8	0	16	9	6	7	6	1	0	0	0	0	0	7	3	0
June	8.1	S.	40	N.	2	10	4	2	11	15	3	8	6	1	12	11	7	7	4	0	0	1	1	0	4	0	6	1
July	8.3	S.	30	SE.	0	6	8	6	16	15	4	1	4	2	14	14	3	10	7	0	0	0	0	0	12	0	8	2
August	7.5	SE.	35	N.	1	5	5	15	18	5	1	4	8	1	17	12	2	10	5	0	0	1	0	0	7	0	12	0
September	8.1	SE.	28	S.	0	6	8	1	16	5	1	8	15	0	6	10	14	12	9	0	0	0	1	0	2	1	5	1
October	8.2	W.	31	W.	0	4	1	13	15	5	2	10	12	0	15	5	11	8	7	4	4	0	0	0	0	9	1	0
November	9.0	W.	31	NW.	0	5	0	1	8	9	8	11	18	0	9	7	14	8	3	16	6	0	0	8	0	29	0	1
December	8.4	NW.	27	W.	0	2	4	5	8	7	9	8	19	0	10	7	14	4	0	13	4	0	3	19	0	31	0	2
Year	8.4	S.	40	N.	8	75	57	70	126	119	42	75	159	7	127	116	122	106	69	94	44	3	11	82	25	169	39	10

INDIANAPOLIS, IND.

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

January	12.0	NW.	39	W.	3	5	5	6	7	11	6	10	12	0	5	11	15	16	12	17	11	0	1	14	0	31	2	0
February	9.1	NW.	30	SW.	0	5	2	10	5	6	9	9	10	0	3	13	12	11	5	14	9	0	2	14	0	25	0	0
March	12.1	S.	45	NW.	4	6	2	1	8	19	7	11	8	0	6	13	12	15	12	5	0	0	1	1	0	10	3	0
April	13.0	S.	44	W.	3	4	10	5	3	12	11	8	7	0	6	14	10	15	12	1	0	2	0	0	0	1	6	0
May	10.1	S.	42	NW.	2	8	12	3	7	12	12	5	3	0	6	11	14	16	14	1	1	0	0	0	0	0	11	0
June	9.0	SW.	64	NW.	2	2	17	3	4	9	17	3	5	0	14	12	4	12	8	0	0	0	0	0	0	0	11	0
July	7.9	SW.	28	SW.	0	3	8	7	6	5	19	10	4	0	11	15	5	11	9	0	0	0	0	0	5	0	9	0
August	7.6	E.	39	NW.	1	6	14	7	9	8	5	7	6	0	14	12	5	6	4	0	0	0	0	1	0	6	0	0
September	8.4	E.	29	W.	0	1	14	13	7	11	3	5	6	0	14	6	10	9	6	0	0	0	2	0	1	3	0	0
October	10.6	SW.	33	W.	1	9	8	4	9	7	15	7	3	0	14	5	12	11	11	2	1	0	1	0	0	1	0	0
November	9.6	W.	44	W.	2	4	8	2	6	4	12	9	15	0	9	6	15	10	7	5	2	0	3	4	0	10	0	0
December	10.5	SW.	34	NE.	1	4	5	6	4	6	22	12	3	0	6	8	17	16	13	10	7	0	3	9	0	19	1	0
Year	10.0	SW.	64	NW.	19	57	105	67	75	110	138	96	82	0	108	126	131	148	113	55	31	2	13	42	7	97	52	0

Annual meteorological summary for the year ending December 31, 1929—Continued

IOLA, KANS.
[ϕ=37° 55′ N.; λ=95° 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: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.013	29.430	28.290	22.2	28.2	27.6	36.2	16.2	26.2	57	3	19	20		85	70		0.106	0.115		2.38	1.21	6.0	5.6		6.3
February	29.054	29.452	28.440	20.1	29.5	29.6	35.6	18.1	26.8	55	−4	17	22		86	73		.100	.124		.77	.45	6.9	5.8		6.1
March	28.852	29.420	28.270	40.8	54.2	53.0	60.7	38.0	49.4	89	24	36	38		82	56		.221	.239		1.55	.58	5.5	5.7		5.8
April	28.806	29.190	28.320	51.0	62.7	61.6	67.8	48.2	58.0	85	30	47	50		87	66		.337	.378		6.19	1.63	6.0	6.0		6.1
May	28.955	29.305	28.600	55.8	66.3	65.1	70.7	52.4	61.6	84	37	52	55		88	70		.418	.462		8.05	2.88	7.1	6.5		6.6
June	28.886	29.110	28.530	66.8	78.4	76.9	82.2	62.6	72.4	93	50	63	64		88	65		.583	.611		4.07	2.02	4.1	4.7		4.3
July	28.971	29.150	28.730	70.1	84.5	81.7	89.2	67.9	78.6	100	58	67	70		89	63		.659	.737		2.77	1.75	4.9	4.4		4.3
August	28.969	29.150	28.630	68.0	85.9	84.0	91.8	66.5	79.2	102	49	63	65		85	52		.590	.624		.81	.34	4.2	3.7		4.0
September	28.969	29.270	28.700	59.5	75.3	71.7	80.8	57.0	68.9	94	43	56	58		87	56		.447	.482		1.86	1.15	5.0	4.6		4.7
October	28.986	29.270	28.470	50.0	66.1	61.1	70.7	48.1	59.4	86	28	47	49		90	57		.337	.374		4.32	1.72	4.9	4.3		5.2
November	29.086	29.560	28.620	32.7	42.9	40.3	47.4	29.8	38.6	70	8	30	32		89	66		.170	.186		1.16	.67	6.4	6.4		6.6
December	29.043	29.492	28.500	28.7	40.0	37.3	46.6	24.7	35.6	71	0	26	30		87	70		.157	.187		.54	.27	5.4	5.1		5.7
Year	28.966	29.560	28.270	47.1	59.5	57.5	65.0	44.1	54.6	102	−4	44	46		87	64		.344	.377		34.47	2.88	5.5	5.2		5.5

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: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.080	29.710	28.280	22.4	25.6	23.3	31.4	15.8	23.6	59	0	18	19	16	81	76	74	0.105	0.111	0.100	1.98	0.39	8.4	8.4	5.9	7.5
February	29.162	29.500	28.740	21.5	26.6	24.0	29.7	15.5	22.6	46	−7	17	20	18	83	76	78	.100	.111	.104	1.65	.37	8.6	8.0	7.8	7.7
March	29.005	29.470	28.020	35.4	41.2	39.5	48.7	29.9	39.3	66	5	30	30	30	80	69	69	.177	.185	.183	2.78	.65	7.9	8.0	6.5	7.3
April	28.988	29.510	28.380	43.7	51.4	47.2	56.0	37.8	46.9	84	23	37	38	38	78	64	74	.234	.252	.246	6.34	1.72	8.1	7.6	7.9	7.3
May	29.137	29.641	28.060	52.9	59.7	55.3	65.5	42.2	53.8	89	30	44	43	46	74	57	71	.318	.302	.335	5.47	1.81	6.2	7.0	6.9	6.5
June	29.047	29.290	28.610	62.3	70.7	65.3	75.4	52.3	63.8	89	32	54	53	55	76	56	71	.439	.429	.459	2.42	.83	4.8	5.8	5.7	5.5
July	29.130	29.517	28.790	66.5	76.1	70.7	80.4	56.2	68.3	92	43	59	58	58	78	55	65	.517	.502	.497	4.73	1.24	5.4	5.7	3.9	5.1
August	29.106	29.433	28.680	61.3	71.5	65.3	75.2	51.9	63.6	88	41	54	54	55	78	55	70	.430	.429	.447	5.27	3.96	5.1	5.2	4.2	5.2
September	29.199	29.630	28.870	58.7	69.3	61.2	73.5	52.2	62.8	92	29	54	53	54	83	59	78	.436	.437	.446	2.42	1.44	6.7	5.3	4.4	5.7
October	29.130	29.870	28.510	43.4	52.4	47.7	56.0	38.4	47.2	74	23	37	39	38	78	63	72	.227	.254	.247	4.20	2.68	8.3	8.2	6.5	8.1
November	29.104	29.531	28.300	35.4	42.0	38.6	45.5	32.1	38.8	67	7	31	32	32	82	68	77	.191	.200	.196	1.74	.67	7.2	7.5	6.8	7.8
December	29.102	29.670	28.520	26.4	29.7	29.6	34.5	20.2	27.4	49	−5	22	24	24	82	78	85	.123	.129	.132	2.87	.69	9.4	9.3	8.0	8.8
Year	29.099	29.870	28.020	44.2	51.4	47.1	56.0	37.0	46.5	92	−7	38	39	39	79	65	74	.275	.278	.283	41.87	3.96	7.2	7.2	6.0	6.9

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: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.078	30.400	29.760	53.2	63.6	60.0	68.4	50.6	59.5	83	33	48	49	50	83	61	71	0.371	0.387	0.394	3.96	2.61	4.6	5.0	3.8	4.8
February	30.019	30.360	29.640	53.7	62.1	59.4	67.1	51.1	59.1	84	35	48	51	51	83	69	75	.369	.407	.397	1.28	.57	6.4	6.6	5.1	6.6
March	30.004	30.350	29.520	61.4	71.3	68.6	75.4	58.3	66.8	89	43	55	54	55	80	55	67	.455	.435	.447	2.14	1.05	6.5	5.3	3.4	5.3
April	29.972	30.410	29.440	67.1	76.0	70.8	79.3	63.6	71.4	86	50	60	57	60	79	53	70	.535	.480	.525	5.09	3.59	5.1	6.0	4.4	5.4
May	30.053	30.330	29.590	72.1	78.9	73.7	81.6	67.7	74.6	89	51	65	65	64	78	64	74	.626	.629	.613	6.09	2.05	4.3	5.5	4.5	5.2
June	29.942	30.150	29.670	75.2	82.8	76.6	84.9	70.3	77.6	92	61	69	68	69	82	63	78	.721	.698	.711	4.10	.97	5.3	6.3	6.5	6.3
July	30.034	30.220	29.800	77.3	82.8	78.7	87.3	72.0	79.6	94	66	71	70	71	81	66	76	.756	.734	.748	8.21	1.32	3.7	6.8	5.8	5.7
August	29.960	30.150	29.780	77.1	86.0	78.6	88.4	73.3	80.8	93	68	72	72	71	85	63	78	.795	.779	.763	6.02	1.57	4.9	7.5	6.3	6.4
September	29.931	30.120	29.620	75.0	80.6	76.8	82.7	71.7	77.2	90	61	71	70	72	87	72	84	.764	.750	.781	8.58	1.91	6.1	8.0	6.4	7.4
October	29.966	30.220	29.400	65.4	75.3	70.6	77.6	63.3	70.4	82	50	59	57	60	80	55	71	.516	.489	.539	.33	.41	3.6	4.1	2.7	3.8
November	30.045	30.300	29.750	59.3	69.5	64.2	72.6	57.5	65.0	84	28	54	54	56	84	60	76	.463	.456	.486	.08	.06	4.3	5.9	4.3	5.3
December	30.126	30.500	29.600	49.2	59.9	55.1	64.5	45.8	55.2	77	25	42	43	45	78	57	71	.314	.325	.332	3.02	1.66	4.1	4.7	1.9	4.9
Year	30.011	30.500	29.409	65.5	74.1	69.3	77.5	62.1	69.8	94	25	60	59	60	82	62	74	.557	.547	.561	49.40	3.59	4.9	6.1	4.6	5.6

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: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.040	30.570	29.520	30.5	32.4	31.7	34.2	27.2	30.7	46	12	25	24	25	80	75	78	0.147	0.149	0.149	9.09	2.00	6.9	7.2	7.5	7.5
February	30.014	30.500	29.210	30.2	32.7	32.6	34.2	28.0	31.1	42	11	26	28	29	86	84	86	.150	.160	.165	7.24	1.93	8.1	9.0	9.1	8.6
March	29.647	30.180	29.049	34.1	37.0	36.7	38.8	31.4	35.1	47	21	30	28	30	83	72	77	.167	.161	.173	6.15	.86	8.6	8.5	9.2	8.8
April	29.845	30.330	28.970	33.3	42.8	42.8	45.5	30.5	38.0	59	13	27	25	25	76	50	51	.153	.141	.141	3.34	1.48	4.9	6.6	6.6	6.0
May	29.987	30.290	29.595	41.2	52.6	52.9	55.3	39.1	47.2	67	33	36	36	36	83	57	57	.216	.219	.217	4.74	1.16	6.3	6.4	6.6	6.4
June	29.810	30.260	29.240	48.5	58.6	59.6	61.6	46.9	54.2	74	40	46	47	46	90	68	65	.309	.321	.314	4.15	.72	7.1	7.6	7.3	7.1
July	29.906	30.327	29.617	50.8	57.8	58.8	61.1	49.5	55.3	76	45	48	50	49	92	76	73	.341	.356	.353	4.81	1.02	9.0	8.8	8.5	8.5
August	29.840	30.160	29.310	51.1	59.6	60.7	63.2	49.0	56.1	85	43	49	51	50	92	75	71	.345	.373	.357	5.08	1.19	7.5	7.1	7.4	7.4
September	30.029	30.226	29.540	49.0	55.4	55.8	57.7	46.7	52.2	66	38	48	50	50	95	83	83	.331	.363	.362	5.52	1.83	8.4	7.2	7.6	7.6
October	29.656	30.270	29.098	45.8	47.9	47.3	49.8	41.8	45.8	54	32	42	43	42	86	83	84	.267	.276	.273	17.31	1.82	9.2	9.6	9.5	9.5
November	29.952	30.530	28.930	38.4	39.8	39.7	42.6	35.3	39.0	50	26	36	37	37	90	90	89	.212	.221	.219	17.56	2.93	8.7	9.1	9.3	9.2
December	29.798	30.260	28.970	30.1	32.3	31.3	34.4	26.2	30.3	51	15	21	24	23	72	72	72	.131	.141	.136	4.58	1.21	5.1	5.7	6.2	6.0
Year	29.877	30.570	28.930	40.2	45.7	45.8	48.2	37.6	42.9	85	11	36	37	37	85	74	74	.231	.240	.238	89.57	2.93	7.5	7.7	7.9	7.7

* No diurnal correction applied.

Annual meteorological summary for the year ending December 31, 1929—Continued

IOLA, KANS.

[H_b=984 ft.; h_t=11 ft.; h_r=3 ft.; h_a=50 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	Maximum temperature: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	6.6	N.	24	N.	0	7	5	6	3	6	1	1	1	1	10	5	16	9	6	3	2	0	0	12	0	30	0	0
February	5.2	N.	19	S.	0	9	3	1	4	3	2	2	1	3	10	5	13	5	4	9	3	0	1	12	0	27	0	0
March	6.6	S.	25	N.	0	5	3	4	3	9	1	2	3	1	7	13	11	9	7	0	0	1	0	0	0	9	2	0
April	7.4	S.	23	S.	0	5	2	4	2	8	2	4	3	0	8	8	14	15	11	0	0	1	0	0	0	1	10	0
May	5.9	S.	25	N.	0	6	5	5	5	9	0	0	1	0	6	10	15	16	13	0	0	1	0	0	0	0	9	0
June	5.1	S.	33	NW.	1	4	4	4	4	10	2	0	1	1	15	10	5	9	8	0	0	0	0	0	5	0	8	0
July	4.4	S.	16	SW.	0	1	2	4	4	15	2	2	1	0	16	9	6	9	7	0	0	0	0	0	14	0	5	0
August	4.3	S.	18	N.	0	5	5	2	5	8	2	1	1	2	14	13	4	7	7	0	0	0	0	0	18	0	5	0
September	4.5	S.	16	S.	0	5	4	1	9	7	0	1	2	1	13	7	10	11	7	0	0	0	0	0	5	0	5	0
October	4.2	S.	22	N.	0	4	3	4	6	3	3	1	3	4	9	13	9	12	9	0	0	0	3	0	0	1	5	0
November	5.3	N.	19	NW.	0	8	3	2	3	2	5	4	3	0	8	6	16	10	6	4	2	0	1	3	0	14	0	0
December	4.8	N.	21	N.	0	8	2	1	1	9	5	2	2	1	11	8	12	6	4	3	2	0	6	6	0	21	0	0
Year	5.4	S.	33	NW.	1	67	41	38	49	89	25	20	22	14	127	107	131	118	89	19	9	3	11	33	42	103	49	0

ITHACA, N. Y.

[H_b=928 ft.; h_t=5 ft.; h_r=4 ft.; h_a=100 ft.]

January	12.5	NW.	48	SE.	5	1	1	2	10	11	8	9	20	0	4	7	20	22	12	21	17	0	0	18	0	30	0	0
February	8.2	NW.	42	SE.	1	10	0	4	9	8	7	3	14	1	4	7	17	15	7	19	11	0	1	15	0	26	0	1
March	10 4	NW.	33	SE.	1	3	0	3	13	15	4	5	19	0	4	11	16	18	14	9	7	0	1	3	0	16	2	1
April	9.9	NW.	43	SW.	1	5	3	1	13	10	3	3	22	0	4	7	19	19	15	6	5	0	1	0	0	9	4	0
May	8.1	NW.	40	SE.	1	9	0	4	6	16	4	3	20	0	5	7	19	16	13	2	0	0	2	0	0	2	6	0
June	6.2	NW.	28	W.	0	7	2	3	9	11	5	1	22	0	10	8	12	9	7	0	0	1	1	0	0	1	7	0
July	6.5	S.	32	N.	0	7	1	6	6	17	6	4	15	0	9	13	9	13	11	0	0	1	0	0	2	0	8	0
August	6.3	NW.	26	NW.	0	11	3	11	6	6	3	3	19	0	13	7	11	7	5	0	0	1	0	0	0	0	5	0
September	6.7	NW.	26	S.	0	7	3	12	13	8	2	3	12	0	11	5	14	11	6	0	0	0	2	0	2	2	2	0
October	9.7	NW.	40	SW.	2	9	2	5	14	9	5	3	15	0	1	8	22	11	10	1	1	0	0	0	0	9	0	0
November	8.2	S.	30	NW.	0	4	2	3	10	12	11	6	12	0	3	8	19	13	9	7	1	0	1	3	0	15	0	0
December	8.0	NW.	29	SE.	0	9	4	1	12	9	7	5	14	1	1	6	24	17	12	18	10	0	3	14	0	28	0	0
Year	8.4	NW.	48	SE.	11	82	21	55	121	132	65	48	204	2	69	94	202	171	121	83	52	3	12	53	4	138	35	2

JACKSONVILLE, FLA.

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

January	9.6	SW.	35	SW.	1	10	14	4	4	8	8	7	7	0	13	8	10	10	7	0	0	0	5	0	0	0	1	0
February	10.5	NE.	43	SW.	2	18	10	4	3	7	7	1	6	0	4	11	13	5	4	0	0	0	2	0	0	0	1	0
March	11.8	S.	47	SW.	3	4	10	9	14	9	4	6	6	0	11	9	11	10	8	0	0	0	0	0	0	0	1	0
April	11.1	SW.	43	NW.	2	1	7	6	9	9	11	14	3	0	8	14	8	6	6	0	0	0	0	0	0	0	7	0
May	10.2	E.	46	SW.	2	4	7	16	13	9	4	7	2	0	10	12	9	10	10	0	0	0	0	0	0	0	13	0
June	8.0	S.	41	NW.	3	5	5	9	12	12	6	7	4	0	4	15	11	16	14	0	0	0	0	0	0	0	15	0
July	7.7	SW.	34	NW.	2	3	5	12	10	5	11	12	3	1	5	15	11	16	15	0	0	0	0	0	0	0	19	0
August	8.0	SW.	36	W.	1	6	7	7	8	4	16	11	3	0	2	18	11	16	13	0	0	0	0	0	0	0	18	0
September	9.5	E.	37	SE.	1	8	12	23	6	4	6	1	0	0	1	13	16	20	17	0	0	0	0	0	0	0	11	0
October	11.2	E.	61	SW.	1	9	12	13	3	1	4	10	10	0	18	8	5	8	5	0	0	0	1	0	0	0	1	0
November	9.4	N.	50	NE.	0	18	9	12	4	6	3	6	2	0	8	13	9	3	1	0	0	0	3	0	0	1	0	0
December	9.9	NW.	29	W.	0	9	13	9	5	1	7	4	14	0	12	9	10	6	6	0	0	0	5	0	0	7	1	0
Year	9.7	SW.	61	SW.	18	95	111	124	91	75	87	86	60	1	96	145	124	126	106	0	0	0	16	0	29	8	88	0

JUNEAU, ALASKA

[H_b=80 ft.; h_t=11 ft.; h_r=4 ft.; h_a=50 ft.]

January	6.4	E.	27	E.	0	2	7	19	11	7	2	8	6	0	7	4	20	20	16	12	12	0	1	12	0	23	0	0
February	5.5	SE.	24	E.	0	2	2	17	22	7	0	9	1	0	2	3	23	22	20	17	15	0	0	8	0	17	0	2
March	7.7	E.	30	E.	0	0	2	23	19	8	0	7	3	0	2	3	26	24	21	14	11	0	0	5	0	14	0	1
April	6.5	E.	25	W.	0	5	3	16	16	5	1	5	6	3	7	8	15	14	11	11	5	0	0	4	0	17	1	4
May	6.0	E.	19	E.	0	5	5	15	11	9	0	8	6	3	8	6	17	15	12	0	0	0	0	0	0	0	0	0
June	5.6	SE.	19	NE.	0	1	3	7	16	14	2	9	3	5	5	7	18	18	14	0	0	0	0	0	0	0	0	0
July	5.7	SE.	22	SE.	0	1	1	8	27	14	0	3	5	3	1	5	25	24	18	0	0	0	0	0	0	0	0	0
August	5.3	SE.	22	NW.	0	1	1	5	28	10	1	6	5	5	6	4	21	17	15	0	0	0	0	0	0	0	0	0
September	4.4	W.	29	E.	0	1	1	2	14	11	5	17	4	5	4	8	18	15	12	0	0	0	3	0	0	0	2	3
October	9.6	E.	34	E.	1	1	1	23	29	5	0	2	1	0	1	0	30	28	26	0	0	0	0	0	0	1	0	0
November	7.1	SE.	40	E.	2	2	2	11	28	6	3	6	1	1	1	3	26	27	26	3	0	0	2	0	0	6	0	0
December	8.5	E.	52	E.	1	3	7	20	11	7	0	11	3	0	11	3	17	15	13	11	8	0	0	11	0	22	0	2
Year	6.5	SE.	52	E.	4	24	35	166	232	103	14	87	44	25	55	54	256	239	204	68	51	0	6	40	0	100	3	12

Annual meteorological summary for the year ending December 31, 1929—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	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	26.943	27.330	26.310	7.4	12.7	13.3	16.8	3.6	10.2	34	−23	5	8	10	90	78	86	0.062	0.067	0.073	1.97	0.46	7.9	7.6	7.7	7.2
February	26.963	27.430	26.570	9.4	19.6	19.8	24.0	5.2	14.6	38	−17	7	13	14	91	75	77	.063	.084	.086	1.02	.25	6.3	6.5	7.1	6.0
March	26.807	27.160	26.340	30.5	40.2	40.1	43.2	28.3	35.8	55	16	25	26	27	79	56	60	.134	.140	.149	.63	.33	6.8	6.6	6.5	6.5
April	26.805	27.220	26.472	32.4	45.7	47.8	50.0	30.9	40.4	71	21	25	23	22	73	43	40	.135	.126	.125	.64	.26	6.4	6.1	6.3	5.9
May	26.904	27.210	26.494	40.6	58.2	60.4	62.6	39.2	50.9	83	29	33	32	31	75	41	36	.194	.188	.178	.69	.21	4.6	5.4	6.1	5.3
June	26.865	27.150	26.440	47.6	64.5	65.8	68.8	45.9	57.4	84	35	41	40	39	79	44	43	.260	.253	.247	.95	.25	5.1	5.3	5.2	5.0
July	26.931	27.200	26.670	52.1	75.3	79.3	82.2	50.3	66.2	96	39	40	40	37	65	29	23	.252	.250	.224	.31	.19	1.5	1.5	2.8	2.1
August	26.930	27.170	26.690	53.4	77.9	82.4	84.3	51.5	67.9	94	39	38	40	37	58	28	21	.241	.263	.229	.14	.13	1.8	1.9	1.7	2.3
September	26.957	27.220	26.580	40.5	59.6	60.9	64.3	39.0	51.6	82	28	32	34	34	74	40	40	.185	.198	.202	.51	.23	3.5	3.6	3.9	4.4
October	27.036	27.480	26.560	35.6	53.6	53.6	58.0	32.9	45.4	73	22	30	33	33	80	47	48	.167	.187	.191	.51	.42	2.9	4.4	4.2	4.4
November	27.131	27.520	26.720	25.4	35.7	35.0	39.5	22.4	31.0	53	−1	21	23	25	82	60	60	.113	.124	.124	.17	.16	4.4	6.8	5.7	6.4
December	26.920	27.350	26.410	26.3	29.7	29.4	34.0	22.7	28.4	51	11	22	23	24	85	78	80	.119	.124	.127	2.85	.61	7.2	7.7	8.0	7.8
Year	26.933	27.520	26.310	33.4	47.7	49.0	52.3	31.0	41.6	96	−23	27	28	28	78	52	51	.160	.167	.163	10.39	.61	4.9	5.3	5.4	5.3

KANSAS CITY, MO.

[ϕ=39° 05′ N.; λ=94° 37′ W.]

January	29.050	29.490	28.290	17.6	22.9	23.7	30.6	11.5	21.0	53	0	13	15	16	81	70	69	0.080	0.092	0.094	3.12	1.56	5.2	6.4	5.2	6.3
February	29.065	29.510	28.446	18.7	27.7	27.2	31.7	16.3	24.0	52	−5	14	18	18	82	67	69	.090	.109	.108	1.79	.82	3.9	5.2	5.9	6.0
March	28.871	29.530	28.290	41.2	52.2	52.7	57.6	38.9	48.2	87	19	33	33	35	72	51	52	.197	.198	.208	3.28	2.23	5.1	5.6	4.9	5.1
April	28.825	29.230	28.300	51.3	60.9	61.0	64.8	49.1	57.0	86	32	44	44	46	76	57	62	.301	.308	.326	4.78	1.18	5.8	5.7	6.0	6.0
May	28.992	29.366	28.702	56.0	65.3	65.0	69.4	53.0	61.2	84	36	50	50	51	80	59	63	.382	.383	.397	6.91	2.65	6.7	6.6	6.1	6.4
June	28.906	29.160	28.500	66.7	76.5	76.9	80.8	64.1	72.4	93	47	59	59	60	78	56	59	.517	.508	.532	8.09	3.92	5.0	4.5	4.0	4.5
July	28.985	29.180	28.740	72.5	83.2	84.1	86.9	71.0	79.0	96	62	64	64	64	75	54	53	.602	.597	.614	.55	.14	5.6	4.0	3.8	4.5
August	28.987	29.180	28.665	70.2	83.6	83.2	88.1	68.4	78.2	100	57	61	60	61	73	47	50	.544	.527	.558	4.13	1.72	4.6	3.0	3.8	3.9
September	28.984	29.298	28.697	60.8	72.9	71.4	77.0	58.6	67.8	93	45	53	52	54	77	51	57	.413	.404	.428	1.55	.65	5.1	4.7	4.2	4.8
October	29.001	29.340	28.560	52.1	63.3	61.8	67.8	49.9	58.8	83	34	45	46	46	79	57	60	.318	.334	.332	6.72	2.16	4.6	4.4	4.5	4.8
November	29.100	29.640	28.714	33.8	41.1	40.7	45.6	31.5	38.6	64	11	29	30	30	81	65	65	.164	.169	.172	1.09	.40	5.3	5.6	4.3	5.6
December	29.052	29.520	28.520	30.1	37.3	37.9	42.7	26.8	34.8	63	−2	25	26	28	82	66	69	.153	.158	.170	.65	.41	5.0	5.1	4.1	5.5
Year	28.985	29.640	28.290	47.6	57.2	57.1	61.9	44.9	53.4	100	−5	41	41	42	78	58	61	.314	.316	.328	42.66	3.92	5.3	5.1	4.7	5.3

KEOKUK, IOWA

[ϕ=40° 22′ N.; λ=91° 26′ W.]

January	29.436	29.900	28.680	14.1	19.8	19.7	26.6	8.5	17.6	46	−8	9	11	14	80	65	76	0.073	0.079	0.086	3.14	1.09	5.7	5.8	6.3	6.0
February	29.455	29.970	28.720	16.0	24.9	24.2	29.5	13.2	21.4	52	−6	11	12	16	79	57	69	.078	.086	.097	.97	.61	6.4	6.4	6.2	6.4
March	29.241	29.927	28.640	39.2	50.3	48.6	55.8	36.1	45.0	81	16	33	33	35	78	54	60	.198	.206	.215	4.78	2.04	5.3	6.7	6.4	6.6
April	29.220	29.620	28.610	49.8	58.7	58.4	62.8	46.0	54.4	85	29	41	40	43	73	54	58	.274	.273	.293	4.60	1.73	6.1	6.4	7.0	6.8
May	29.386	29.780	28.890	55.9	64.1	63.6	69.5	51.4	60.4	87	37	47	47	48	73	56	59	.357	.361	.368	2.97	.84	7.0	7.3	6.7	7.1
June	29.289	29.560	28.860	65.3	75.2	74.9	79.8	60.1	70.0	94	43	57	56	58	76	54	58	.486	.470	.511	3.91	1.43	6.7	5.5	5.0	5.9
July	29.362	29.590	29.110	72.1	81.1	80.1	85.7	68.2	77.0	94	57	64	62	64	77	55	61	.619	.581	.619	5.75	1.91	5.8	7.3	5.5	6.4
August	29.375	29.600	29.050	67.4	78.8	77.0	82.8	63.6	73.2	97	52	60	60	62	78	54	60	.531	.530	.567	1.41	.85	4.6	5.3	4.9	5.0
September	29.380	29.710	29.058	59.0	70.9	68.4	74.8	56.0	65.4	92	42	53	53	55	81	55	63	.420	.424	.450	4.77	1.81	4.6	5.5	4.8	5.0
October	29.383	29.680	29.060	48.0	60.4	57.5	64.2	45.5	54.8	78	31	43	42	44	83	55	64	.286	.278	.304	4.27	1.13	3.8	3.9	4.5	4.4
November	29.456	30.020	28.910	31.8	41.1	38.2	44.1	29.0	36.6	60	2	26	26	28	78	55	66	.155	.156	.164	1.51	.84	5.1	6.0	3.9	5.7
December	29.396	29.900	28.943	27.0	33.2	32.2	37.5	22.6	30.0	59	−1	23	25	26	84	71	78	.136	.143	.149	.69	.65	5.5	7.3	6.6	7.2
Year	29.365	30.020	28.610	45.5	54.9	53.6	59.4	41.7	50.6	97	−8	39	39	41	78	57	64	.301	.299	.319	38.77	2.04	5.6	6.1	5.6	6.0

KEY WEST, FLA.

[ϕ=24° 33′ N.; λ=81° 48′ W.]

January	30.048	30.250	29.800	69.4	73.9	70.2	76.3	66.8	71.6	82	56	66	66	65	88	76	83	0.643	0.642	0.621	1.41	0.59	3.5	3.6	4.4	4.0
February	30.005	30.190	29.790	71.6	76.9	72.5	78.8	69.2	74.0	85	62	67	66	66	85	70	81	.669	.659	.651	1.21	.84	2.0	3.4	2.7	2.5
March	30.003	30.150	29.850	74.1	78.5	74.2	80.8	70.6	75.7	85	57	67	67	66	78	70	78	.667	.683	.662	1.25	.90	4.3	3.3	2.2	3.5
April	29.987	30.260	29.640	77.7	81.8	76.5	83.5	73.5	78.5	87	68	68	68	67	72	63	72	.684	.687	.664	.40	.17	2.1	2.5	1.9	2.4
May	30.017	30.170	29.850	79.8	84.0	79.5	85.6	75.2	80.4	89	69	71	71	70	75	66	74	.762	.767	.743	5.95	3.82	4.9	3.6	3.6	3.7
June	29.945	30.110	29.790	81.1	84.4	80.4	86.4	77.1	81.8	89	71	73	74	73	77	71	78	.823	.833	.807	3.08	1.63	4.5	4.6	6.0	5.3
July	30.032	30.180	29.880	81.3	84.5	80.9	86.9	75.9	81.4	91	71	74	74	73	78	71	76	.837	.832	.805	5.21	1.34	4.7	4.6	4.3	4.9
August	29.961	30.060	29.800	82.9	86.1	82.3	87.8	77.3	82.6	92	71	74	74	73	75	68	74	.837	.847	.818	6.10	1.84	4.8	4.6	4.4	4.8
September	29.865	29.990	29.190	81.8	85.9	81.4	87.3	77.4	82.4	90	71	75	75	74	79	70	78	.859	.864	.836	5.57	2.87	6.1	4.9	6.1	6.0
October	29.918	30.090	29.650	76.0	78.9	75.6	80.5	72.1	76.3	86	64	71	72	70	84	81	84	.754	.798	.739	8.43	3.46	5.9	5.8	5.3	5.9
November	29.990	30.120	29.870	76.0	80.0	75.6	81.3	72.5	76.9	85	66	72	75	71	88	84	85	.785	.863	.753	2.09	.58	3.7	3.1	2.1	3.7
December	30.078	30.290	29.780	68.3	72.4	69.3	74.6	65.3	70.0	84	55	65	68	65	90	84	85	.642	.692	.627	3.96	1.98	5.5	5.5	4.5	5.6
Year	29.987	30.290	29.190	76.7	80.6	76.5	82.5	72.7	77.6	92	55	70	71	69	81	73	79	.747	.764	.727	44.66	3.82	4.3	4.1	4.0	4.4

Annual meteorological summary for the year ending December 31, 1929—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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32°: Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	4.2	NW.	22	N.	0	5	7	1	1	2	2	11	33	0	3	11	17	15	12	17	15	0	1	30	0	31	0	0
February	3.7	NW.	19	NE.	0	6	2	0	5	8	8	8	18	1	6	12	10	11	7	16	11	0	1	21	0	28	0	0
March	5.1	NW.	25	SW.	0	2	2	4	10	9	9	13	13	0	5	13	13	8	6	9	5	0	0	0	0	24	0	0
April	6.0	NW.	28	W.	0	5	7	1	11	4	8	13	11	0	7	13	10	6	4	11	2	0	0	0	0	16	0	0
May	5.5	NW.	22	NE.	0	2	7	3	7	7	9	9	18	0	9	13	9	9	8	0	0	0	0	0	0	4	4	0
June	5.9	SE.	40	SW.	1	2	3	4	8	2	8	20	13	0	11	12	7	11	8	0	0	0	0	0	0	0	4	0
July	6.0	NW.	28	N.	0	2	2	3	11	2	5	11	26	0	22	8	1	3	2	0	0	1	0	0	5	0	4	0
August	5.4	NW.	25	W.	0	3	1	2	14	2	5	11	24	0	23	8	0	2	1	0	0	0	0	0	4	0	4	0
September	4.8	NW.	27	NE.	0	3	5	2	8	2	5	6	28	1	12	10	8	6	3	0	0	0	0	0	0	5	1	0
October	4.5	NW.	18	W.	0	3	2	1	9	8	5	10	23	1	11	15	5	4	2	1	0	0	0	0	0	12	0	0
November	3.9	NW.	18	NE.	0	5	2	0	2	0	3	14	34	0	8	7	15	2	1	2	1	0	0	5	0	28	0	2
December	5.0	NW.	22	SW.	0	7	0	0	1	10	5	9	30	0	3	6	22	13	11	13	8	0	0	10	0	27	0	0
Year	5.0	NW.	40	SW.	1	45	40	21	87	56	72	135	271	3	120	128	117	90	65	69	42	1	2	66	9	175	17	2

KANSAS CITY, MO.

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

January	10.5	N.	35	NW.	2	12	6	15	1	9	7	2	10	0	7	9	15	10	6	13	6	0	2	16	0	31	0	0
February	8.9	N.	30	N.	0	19	4	6	4	7	6	4	6	0	6	11	11	14	8	15	11	0	2	14	0	27	0	0
March	10.1	S.	42	NW.	2	10	4	5	5	19	8	5	6	0	11	11	9	4	3	3	1	2	0	0	0	8	4	0
April	11.2	S.	36	NW.	2	7	7	8	3	20	3	5	7	0	10	8	12	12	10	0	0	1	0	0	0	1	12	0
May	8.9	E.	37	N.	3	11	9	12	9	13	5	0	3	0	4	14	13	14	12	0	0	0	0	0	0	0	8	0
June	8.3	S.	39	NW.	3	11	4	8	7	18	6	1	5	0	13	11	6	11	8	0	0	2	0	0	4	0	10	0
July	7.5	S.	28	N.	0	8	2	11	5	27	8	1	0	0	12	13	6	8	7	0	0	0	0	0	11	0	6	0
August	7.5	S.	33	SW.	1	5	6	13	12	18	3	2	2	1	14	13	4	9	7	0	0	0	0	0	11	0	8	0
September	7.9	S.	22	NW.	0	11	3	9	14	15	2	2	4	0	12	11	7	11	8	0	0	0	0	0	3	0	5	0
October	8.5	E.	32	NW.	0	9	5	12	5	11	9	4	7	0	15	5	11	12	10	0	0	1	2	0	0	0	8	0
November	9.6	NW.	35	NW.	1	13	2	7	4	9	9	4	12	0	9	9	12	7	4	7	1	0	0	3	0	10	0	0
December	9.2	SW.	32	N.	0	11	2	3	1	14	9	13	9	0	11	6	14	5	3	4	2	0	6	6	0	15	0	0
Year	9.0	S.	42	NW.	14	127	54	109	70	180	75	43	71	1	124	121	120	117	86	42	21	6	12	39	29	92	61	0

KEOKUK, IOWA

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

January	7.6	NW.	30	NW.	0	10	8	9	3	6	4	11	11	0	11	5	15	12	10	15	9	0	3	21	0	31	0	0
February	6.4	E.	24	SW.	0	8	3	10	1	8	11	5	9	1	7	7	14	11	6	14	8	0	2	17	0	26	0	0
March	7.8	S.	34	W.	1	12	3	3	12	16	4	3	9	0	7	7	17	9	7	1	0	1	1	1	0	16	3	0
April	8.5	S.	31	NW.	0	9	4	14	3	15	4	7	4	0	6	9	15	15	10	0	0	0	0	0	0	1	9	6
May	6.2	S.	25	SW.	0	11	6	13	3	17	2	1	8	1	3	12	16	15	13	0	0	1	0	0	0	0	5	0
June	6.2	S.	20	S.	0	2	14	4	3	17	5	5	10	0	9	7	14	11	8	0	0	0	0	0	2	0	8	0
July	4.8	S.	24	SW.	0	7	4	10	2	21	7	7	3	1	7	8	16	10	8	0	0	0	0	0	8	0	8	0
August	4.8	S.	24	S.	0	9	7	11	10	14	4	0	7	0	10	12	9	5	3	0	0	0	0	0	4	0	4	0
September	5.4	S.	27	SW.	0	8	5	11	11	8	2	6	5	4	12	10	8	10	7	0	0	0	0	0	2	0	4	0
October	6.3	E.	22	NE.	0	6	7	10	5	8	11	6	5	4	16	3	12	11	2	1	0	5	0	0	0	1	1	0
November	7.2	SW.	37	W.	1	11	1	3	1	11	11	11	10	1	12	4	14	6	3	3	2	1	2	6	0	12	0	0
December	7.1	SW.	25	NW.	0	5	6	4	2	10	14	10	9	2	6	6	19	4	2	7	3	0	6	8	0	20	0	0
Year	6.5	S.	37	W.	2	98	68	102	56	151	79	72	90	14	106	90	169	119	88	42	23	3	19	53	16	101	42	0

KEY WEST, FLA.

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

January	9.2	SE.	27	NW.	0	7	16	18	17	1	2	0	1	0	16	7	8	9	7	0	0	0	0	0	0	0	1	0
February	8.7	SE.	28	NW.	0	4	10	13	15	9	1	0	4	0	21	5	2	4	4	0	0	0	0	0	0	0	3	0
March	9.7	SE.	36	NW.	2	10	8	13	21	4	2	1	3	0	18	7	6	6	5	0	0	0	0	0	0	0	1	0
April	10.0	SE.	30	W.	0	4	3	18	20	4	3	1	6	1	21	9	0	5	3	0	0	0	0	0	0	0	2	0
May	10.4	E.	22	NW.	0	3	1	35	14	5	1	2	1	0	16	13	2	17	12	0	0	0	0	0	0	0	4	0
June	8.7	SE.	30	SW.	0	2	0	13	23	1	12	1	7	1	8	13	9	10	7	0	0	0	0	0	0	0	9	0
July	7.5	SE.	27	SE.	0	0	3	19	24	6	4	3	2	1	11	14	6	13	10	0	0	0	0	0	2	0	19	0
August	7.8	E.	31	W.	0	1	2	22	16	6	6	1	8	0	13	11	7	13	11	0	0	0	0	0	0	0	9	0
September	9.7	SE.	66	W.	2	4	3	12	22	3	9	0	6	1	5	16	9	16	13	0	0	0	0	0	0	0	6	0
October	8.8	E.	26	NW.	0	8	19	23	7	0	1	1	3	0	13	3	15	17	15	0	0	0	0	0	0	0	4	0
November	8.6	E.	21	E.	0	7	14	26	7	0	2	3	0	1	16	12	2	12	8	0	0	0	0	0	0	0	1	0
December	10.2	NE.	32	NW.	0	10	31	11	4	3	1	1	1	0	12	7	12	13	9	0	0	0	0	0	0	0	3	0
Year	9.1	SE.	66	W.	4	60	110	223	190	42	44	14	42	5	170	117	78	134	104	0	0	0	0	0	8	0	62	0

Annual meteorological summary for the year ending December 31, 1929—Continued

KNOXVILLE, TENN.

[ϕ=35° 56′ N.; λ=83° 58′ 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	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.043	29.434	28.490	36.0	43.7	42.6	49.2	32.1	40.6	74	20	30	32	33	79	64	69	0.186	0.201	0.202	4.34	1.03	6.6	6.5	4.6	6.0
February	29.020	29.430	28.550	33.2	42.0	41.5	46.4	31.4	38.9	61	20	29	31	33	83	66	72	.167	.184	.195	5.78	1.27	7.0	6.8	5.2	6.7
March	28.957	29.424	28.228	46.3	57.9	56.9	63.0	43.6	53.3	88	24	40	44	44	79	62	65	.267	.320	.321	6.69	2.82	5.5	6.5	5.2	6.1
April	28.924	29.410	28.410	54.9	67.6	65.8	72.3	50.9	61.6	84	40	47	46	47	77	48	54	.341	.329	.343	3.46	1.42	6.4	6.2	4.8	5.7
May	29.032	29.370	28.250	62.0	70.6	68.5	75.6	56.8	66.2	88	40	56	56	56	80	63	67	.462	.474	.478	7.66	2.58	6.5	7.1	6.6	6.9
June	28.945	29.167	28.640	68.1	78.8	76.3	83.3	63.5	73.4	92	50	61	61	61	79	56	62	.547	.548	.552	6.29	3.44	5.4	5.3	5.3	5.6
July	29.042	29.243	28.802	71.3	82.4	78.6	86.2	67.5	76.8	93	60	65	66	66	82	58	66	.630	.639	.644	5.39	2.94	4.6	5.0	4.8	4.8
August	28.987	29.240	28.750	68.4	80.8	78.4	85.6	65.5	75.6	94	57	62	63	64	82	55	61	.573	.581	.598	2.12	.80	4.3	4.2	3.5	4.3
September	29.015	29.240	28.800	64.8	76.4	73.0	80.3	61.8	71.0	91	47	60	61	62	84	61	69	.530	.550	.564	4.39	1.76	5.8	5.4	4.6	5.5
October	29.023	29.418	28.478	50.6	63.2	60.5	66.7	48.1	57.4	77	35	46	47	48	84	59	65	.314	.335	.347	1.33	.97	4.9	5.1	3.9	4.8
November	29.055	29.424	28.570	44.0	50.4	48.9	53.6	41.3	47.4	79	8	41	41	41	88	73	76	.289	.297	.294	8.55	2.33	7.1	7.6	6.4	7.3
December	29.084	29.520	28.430	34.4	43.6	42.8	48.3	30.5	39.4	71	10	32	36	36	89	76	78	.202	.245	.240	2.73	.55	5.3	5.2	4.2	5.3
Year	29.011	29.520	28.228	52.8	63.1	61.2	67.5	49.4	58.5	94	8	47	49	49	82	62	67	.376	.392	.398	58.70	3.44	5.8	5.9	4.9	5.8

LA CROSSE, WIS.

[ϕ=43° 49′ N.; λ=91° 15′ W.]

January	29.308	29.740	28.670	0.7	8.4	6.8	13.8	−5.2	4.3	29	−25	−3	2	1	84	70	74	0.039	0.048	0.045	3.42	0.81	6.4	5.6	5.5	6.0
February	29.327	29.810	28.562	5.4	16.2	16.2	21.1	2.2	11.6	38	−27	3	8	10	88	71	73	.056	.069	.069	1.18	.56	6.5	7.2	6.7	6.7
March	29.104	29.850	28.350	31.0	40.0	38.2	44.4	27.5	36.0	61	2	26	27	28	83	61	67	.151	.152	.159	1.85	1.03	6.4	6.7	5.9	6.7
April	29.100	29.494	28.550	43.8	54.5	53.5	58.8	40.4	49.6	80	23	38	37	38	79	54	58	.240	.235	.242	3.56	1.64	6.1	6.1	4.1	6.7
May	29.231	29.680	28.890	50.1	62.1	61.1	66.2	44.8	55.5	87	32	42	39	41	74	46	50	.297	.280	.294	3.39	1.42	5.2	5.3	4.7	5.2
June	29.169	29.532	28.700	59.6	71.9	70.7	76.5	54.8	65.6	89	42	54	54	55	85	56	60	.430	.438	.458	3.63	2.04	5.8	5.4	4.3	5.4
July	29.225	29.520	28.860	66.4	81.0	78.6	84.6	62.2	73.4	95	51	61	62	62	82	54	58	.541	.589	.576	2.59	1.01	4.1	4.9	3.6	4.5
August	29.240	29.600	28.900	60.5	76.7	73.9	80.8	58.1	69.4	90	46	57	60	60	89	57	62	.472	.522	.525	1.79	.60	5.3	4.2	3.9	4.3
September	29.269	29.630	28.875	53.0	68.4	63.0	72.3	50.0	61.2	96	32	49	52	52	88	58	70	.363	.404	.405	4.33	.98	3.5	5.0	5.1	4.9
October	29.275	29.640	28.780	42.0	57.0	52.1	60.0	39.5	49.8	84	30	39	41	40	90	57	66	.249	.267	.258	1.73	.53	4.4	5.4	4.1	5.4
November	29.291	29.880	28.620	26.5	35.2	32.4	38.9	22.8	30.8	56	−5	23	25	25	86	68	75	.135	.146	.146	.64	.21	5.3	6.2	4.9	5.9
December	29.249	29.770	28.680	18.5	25.7	24.3	29.7	15.5	22.6	53	−4	16	20	21	90	80	86	.097	.114	.119	.42	.25	7.4	6.2	5.8	6.6
Year	29.236	29.880	28.350	38.1	49.8	47.6	53.9	34.4	44.2	96	−27	34	36	36	85	61	67	.256	.272	.275	28.53	2.04	5.5	5.7	4.9	5.7

LANDER, WYO.

[ϕ=42° 50′ N.; λ=108° 45′ W.]

January	24.492	24.817	23.900	3.7	14.7	14.7	22.8	−1.6	10.6	52	−20	0	9	12	86	78	89	0.044	0.066	0.077	0.15	0.12	3.2	4.5	4.6	4.3
February	24.533	24.920	24.230	5.2	18.2	17.6	24.5	−0.1	12.2	40	−23	2	12	14	88	73	87	.051	.075	.087	.08	.44	4.0	5.5	4.9	5.0
March	24.490	24.900	23.990	24.3	37.0	39.9	43.7	21.1	32.4	61	5	19	23	28	80	58	64	.104	.127	.156	1.36	.60	3.4	4.4	4.9	4.3
April	24.495	24.780	23.990	32.5	46.3	45.8	51.1	29.6	40.4	67	14	24	25	28	73	47	53	.132	.138	.153	4.27	2.16	3.5	5.4	5.7	5.1
May	24.629	24.931	24.241	39.5	58.6	59.7	64.5	36.6	50.6	83	25	31	30	32	73	38	40	.175	.171	.190	1.84	1.21	3.1	4.0	5.4	4.0
June	24.622	24.900	24.150	49.7	69.5	71.6	75.7	44.9	60.3	93	30	37	38	38	64	33	32	.226	.233	.235	.13	.06	2.4	3.3	4.2	3.2
July	24.725	24.912	24.510	58.0	81.2	80.6	87.2	55.1	71.2	97	41	46	46	46	64	31	33	.312	.317	.321	.38	.18	2.4	3.8	5.4	3.8
August	24.760	24.960	24.580	57.2	81.8	80.7	87.1	55.9	71.5	95	48	44	47	48	65	31	33	.303	.330	.339	.28	.21	2.6	4.1	5.7	4.5
September	24.673	24.867	24.370	43.6	60.6	59.1	66.5	40.7	53.6	90	31	38	38	40	81	48	54	.231	.236	.256	1.82	1.29	5.4	4.6	5.0	4.9
October	24.730	25.140	24.140	34.4	55.9	52.5	60.7	30.6	45.6	78	15	28	29	32	78	40	48	.158	.164	.187	1.36	.96	2.9	3.0	3.9	3.4
November	24.743	25.040	24.310	14.2	27.0	21.4	31.6	6.3	19.0	58	−15	12	21	18	90	76	86	.076	.115	.102	1.45	.37	1.9	3.8	4.2	4.5
December	24.641	24.990	24.220	23.0	34.9	30.6	40.6	17.6	29.1	58	−11	16	24	22	75	66	71	.091	.133	.119	.23	.15	2.5	2.9	4.2	4.1
Year	24.628	25.140	23.900	32.1	48.8	47.8	54.7	28.1	41.4	97	−23	25	28	29	76	52	58	.159	.175	.185	13.95	2.16	3.1	4.1	4.8	4.3

LANSING, MICH.

[ϕ=42° 44′ N.; λ=84° 26′ W.]

January	29.061	29.640	28.220	15.4	20.2	18.2	25.3	9.0	17.2	42	−7	14	17	17	93	86	94	0.087	0.098	0.098	3.42	0.88	8.1	7.6	6.8	7.4
February	29.124	29.610	28.570	15.4	24.1	20.6	27.1	11.7	19.4	43	−22	14	19	18	94	80	90	.087	.104	.101	.96	.27	8.0	6.6	6.5	6.4
March	28.956	29.580	28.040	33.9	44.7	40.3	48.8	29.9	39.4	66	9	31	34	34	88	67	78	.184	.209	.200	3.15	1.82	6.5	6.2	5.6	6.2
April	28.961	29.360	28.280	43.3	53.9	49.0	57.6	38.0	47.8	82	24	38	40	40	84	62	72	.252	.269	.269	5.54	1.89	5.9	6.4	5.5	5.8
May	29.108	29.590	28.350	49.6	61.0	56.6	64.5	42.9	53.7	86	30	43	46	46	80	60	70	.311	.351	.351	3.98	1.36	5.4	5.7	5.8	5.4
June	29.034	29.270	28.570	58.7	70.6	66.6	73.5	51.4	62.4	88	35	54	55	57	85	60	71	.435	.454	.480	2.17	.55	5.7	5.3	4.4	5.3
July	29.090	29.430	28.760	65.8	79.5	74.4	82.3	58.5	70.4	92	45	60	60	60	82	52	62	.530	.532	.541	1.90	.68	3.4	4.1	4.3	4.2
August	29.104	29.408	28.650	59.5	75.9	69.8	79.1	52.7	65.9	89	42	55	55	57	86	50	65	.444	.441	.470	.29	.13	3.4	4.5	5.1	4.4
September	29.144	29.498	28.732	54.3	70.7	62.5	73.3	49.4	61.4	92	32	50	50	54	88	51	74	.384	.392	.430	1.23	.49	4.7	5.1	4.9	5.3
October	29.078	29.660	28.190	42.0	55.2	48.9	57.3	37.9	47.6	74	27	39	41	44	91	63	83	.252	.271	.291	4.09	2.55	6.1	5.5	6.0	5.8
November	29.082	29.570	28.340	30.7	38.1	33.8	40.1	26.8	33.4	63	6	29	31	31	94	75	90	.172	.182	.184	1.42	.44	6.5	6.9	6.2	6.5
December	29.039	29.540	28.460	24.0	27.4	26.0	29.9	19.7	24.8	42	0	23	25	25	97	92	95	.127	.139	.136	3.22	1.04	9.6	9.2	8.9	9.1
Year	29.065	29.660	28.040	41.0	51.8	47.2	54.9	35.7	45.3	92	−22	38	39	40	88	66	79	.272	.287	.296	31.37	2.55	6.2	6.1	5.8	6.0

Annual meteorological summary for the year ending December 31, 1929—Continued

KNOXVILLE, TENN.

[H_b=995 ft.; h_t=102 ft.; h_r=96 ft.; h_a=111 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	6.9	NE.	42	S.	2	10	21	0	1	6	15	6	3	0	7	12	12	14	12	4	1	0	2	1	0	19	0	0
February	4.9	N.	21	SW.	0	14	15	2	1	4	7	6	7	0	6	8	14	13	12	4	2	0	1	0	0	13	0	0
March	6.9	SW.	34	SW.	2	8	10	4	4	7	22	5	2	0	7	9	15	16	14	1	0	0	0	0	0	7	5	0
April	6.9	SW.	35	SW.	1	6	5	0	2	5	27	4	11	0	5	16	9	12	10	0	0	1	0	0	0	0	4	0
May	6.1	SW.	37	SW.	1	12	11	3	2	6	19	5	4	0	3	14	14	14	13	0	0	1	1	0	0	0	9	0
June	5.2	SW.	23	N.	0	15	12	6	3	4	17	2	1	0	9	13	8	13	12	0	0	1	0	0	4	0	8	0
July	4.8	SW.	23	N.	0	5	14	7	4	11	17	4	0	0	13	11	7	11	10	0	0	0	1	0	8	0	10	0
August	4.8	NE.	22	N.	0	11	20	6	3	8	9	4	1	0	14	12	5	8	7	0	0	0	1	0	5	0	5	0
September	4.6	NE.	19	SW.	0	7	33	2	2	3	7	3	0	3	8	11	11	14	11	0	0	0	0	0	3	0	7	0
October	5.3	NE.	25	SW.	0	13	20	2	0	2	17	6	1	1	12	9	10	6	6	0	0	0	0	0	0	0	0	0
November	5.3	SW.	26	SW.	0	5	18	8	1	2	15	5	4	2	6	3	21	14	13	3	1	0	2	1	0	8	1	0
December	5.4	SW.	24	SW.	0	1	12	0	0	0	36	7	4	2	12	8	11	12	10	5	4	0	5	7	0	16	0	0
Year	5.6	SW.	42	S.	6	107	191	40	23	58	208	57	38	8	102	126	137	147	130	17	8	3	13	9	20	63	49	0

LA CROSSE, WIS.

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

January	4.4	NW.	17	NW.	0	11	1	0	8	10	2	13	17	0	9	8	14	18	14	22	18	0	0	31	0	31	0	0
February	3.7	S.	15	S.	0	7	3	1	6	14	2	9	14	0	5	9	14	9	4	16	9	0	1	26	0	28	0	1
March	5.2	S.	20	NW.	0	6	3	3	5	18	5	9	13	0	6	10	15	7	5	7	3	0	3	3	0	20	3	0
April	5.0	S.	23	SW.	0	8	7	5	10	11	6	5	7	1	6	11	13	13	9	4	2	1	1	0	0	5	5	0
May	4.5	NW.	15	N.	0	5	3	3	9	11	11	6	14	0	12	7	12	10	8	0	0	0	1	0	0	2	6	0
June	3.6	S.	18	NE.	0	7	7	4	5	14	8	7	8	0	10	10	10	11	11	0	0	0	0	0	0	0	10	0
July	3.3	S.	15	NE.	0	3	2	4	8	24	10	6	5	0	14	12	5	10	8	0	0	0	0	0	7	0	7	0
August	2.9	S.	22	NW.	0	3	4	2	7	26	4	4	10	2	13	14	4	8	7	0	0	1	1	0	0	0	5	0
September	3.8	S.	14	S.	0	9	3	1	14	16	3	3	11	0	11	11	8	10	9	0	0	0	3	0	2	1	4	0
October	3.8	S.	18	N.	0	7	5	5	10	9	11	6	9	0	11	8	12	10	9	4	4	0	6	0	0	2	2	0
November	4.5	NW.	16	NW.	0	4	1	0	2	14	10	8	20	1	9	8	13	9	4	11	7	0	1	8	0	22	0	0
December	4.6	W.	15	N.	0	11	6	4	2	12	3	14	10	0	8	6	17	7	2	20	4	0	2	17	0	30	0	1
Year	4.1	S.	23	SW.	0	81	45	32	86	179	75	90	138	4	114	114	137	122	90	84	47	3	19	85	9	141	42	2

LANDER, WYO.

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

January	3.0	E.	24	NW.	0	4	8	11	3	11	10	8	6	1	12	15	4	2	1	7	2	0	0	23	0	31	0	0
February	3.0	E.	23	NW.	0	3	10	7	3	4	6	13	9	1	9	13	6	6	5	9	6	0	0	20	0	28	0	0
March	5.1	SE.	50	NW.	3	4	3	9	5	11	6	9	15	0	14	12	5	7	6	8	6	0	0	4	0	31	0	0
April	6.7	W.	50	SW.	4	4	3	5	4	10	4	17	12	1	12	11	7	11	8	8	7	0	0	0	0	21	1	0
May	5.3	W.	52	SW.	3	5	5	6	6	6	14	12	5	3	14	12	5	5	5	3	3	0	0	0	0	6	2	0
June	5.7	W.	37	W.	2	5	2	2	4	4	7	27	6	3	18	10	2	5	1	0	0	0	0	0	3	1	2	0
July	4.4	SW.	36	SW.	1	6	2	9	2	1	17	18	7	0	12	17	2	4	4	0	0	0	0	0	12	0	5	0
August	4.5	SW.	29	NW.	0	5	7	5	5	3	20	11	4	2	10	17	4	4	2	0	0	0	0	0	7	0	7	0
September	3.8	SW.	34	SW.	2	5	3	6	4	9	8	11	12	2	11	11	8	11	5	2	2	0	1	0	0	3	1	0
October	3.5	SW.	21	NW.	0	3	7	2	3	9	17	14	4	3	18	9	4	7	4	4	4	0	0	1	0	14	1	0
November	2.9	SW.	38	NE.	1	2	5	11	3	6	15	11	2	5	13	9	8	8	6	12	8	0	1	17	0	30	0	0
December	5.1	SW.	60	SW.	3	2	2	9	5	4	22	17	1	0	18	10	3	5	2	6	5	0	0	9	0	26	0	0
Year	4.4	SW.	60	SW.	19	48	57	82	47	78	146	168	83	21	161	146	58	75	49	59	43	0	2	74	22	191	19	0

LANSING, MICH.

[H_b=878 ft.; h_t=6 ft.; h_r=3 ft.; h_a=49 ft.]

January	6.9	W.	26	W.	0	2	2	1	7	5	14	15	16	0	5	7	19	22	12	27	19	0	1	23	0	31	0	0
February	5.0	W.	19	W.	0	6	6	5	4	5	12	10	6	2	4	14	10	16	9	19	14	0	1	20	0	28	0	2
March	6.9	SW.	34	W.	1	11	2	3	5	6	18	11	6	0	8	10	13	14	9	8	4	1	4	2	0	16	5	4
April	6.7	SW.	27	NW.	0	8	6	3	6	8	12	9	8	0	9	10	11	14	10	3	2	2	0	0	0	9	9	2
April	5.7	W.	29	W.	0	9	4	2	5	7	14	10	8	3	9	13	9	11	7	2	2	1	0	0	0	2	7	3
May	3.9	SW.	22	NW.	0	3	11	2	0	9	16	5	10	4	9	13	8	10	9	0	0	0	1	0	0	0	8	0
June	4.0	W.	16	NW.	0	4	4	3	5	12	13	12	6	3	11	17	3	10	8	0	0	0	0	0	3	0	6	0
July	3.7	W.	20	NW.	0	7	9	3	2	9	9	10	10	3	12	16	3	6	4	0	0	0	0	0	0	0	5	0
August	3.9	S.	18	W.	0	6	12	4	4	14	10	4	4	2	11	9	10	8	6	0	0	0	0	4	0	3	1	0
September	5.6	SW.	19	N.	0	8	4	1	6	8	14	9	9	3	11	6	14	13	9	1	1	0	1	0	0	6	0	0
October	5.5	W.	22	NW.	0	5	6	1	1	4	15	17	6	5	7	10	13	11	8	11	6	0	0	8	0	20	0	0
November	4.9	SW.	21	NE.	0	4	9	5	4	4	18	10	3	5	2	2	27	20	13	16	14	0	1	19	0	28	1	0
December																												
Year	5.2	SW.	34	W.	1	73	75	33	49	91	165	122	92	30	98	127	140	155	104	87	62	4	13	72	6	140	42	11

Annual meteorological summary for the year ending December 31, 1929—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: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.330	29.800	28.540	21.1	26.8	30.7	18.3	24.5	46	−5	16	18	19	79	69	79	0.095	0.104		2.14	0.33	7.5	7.7		8.0
February	29.412	29.930	29.030	16.6	25.4	29.4	13.3	21.4	50	−15	12	17	17	82	69	82	.088	.101		1.00	.36	5.9	6.0		6.3
March	29.180	29.460	28.620	38.9	51.9	56.8	36.1	46.4	69	30	31	31	31	73	46	73	.173	.175		1.01	.61	7.2	6.6		6.2
April	29.129	29.520	28.730	41.2	56.1	60.5	39.1	49.8	80	27	31	31	31	69	40	69	.173	.173		1.08	.47	6.2	5.7		6.2
May	29.201	29.521	28.720	48.0	67.5	71.1	46.2	60.2	93	37	38	38	38	70	37	70	.233	.237		.56	.21	5.0	6.1		5.7
June	29.123	29.550	28.720	55.2	73.5	78.6	53.4	66.0	94	42	47	47	47	73	42	73	.325	.325		2.24	.64	5.7	6.2		5.8
July	29.162	29.380	28.800	60.6	80.1	92.0	59.3	75.6	109	51	43	41	41	53	21	53	.279	.257		T.	T.	2.1	2.2		2.5
August	29.139	29.440	28.860	61.1	87.3	94.7	60.3	77.5	104	50	41	41	41	48	20	48	.261	.265		.20	.16	1.1	1.6		2.4
September	29.193	29.450	28.890	49.1	68.8	75.0	47.3	61.2	96	37	37	37	37	63	34	63	.227	.224		.39	.24	4.3	4.4		4.6
October	29.316	29.650	28.840	41.7	60.7	68.5	39.3	53.9	87	27	36	38	38	80	45	80	.214	.233		.63	.31	3.9	3.5		3.9
November	29.530	29.930	29.080	29.0	43.8	48.0	26.5	37.2	61	12	24	26	26	80	51	80	.127	.143		T.	T.	4.5	5.9		5.6
December	29.272	29.670	28.600	36.1	41.8	44.9	34.5	39.7	60	24	32	33	33	84	72	84	.179	.190		2.23	.72	8.0	8.6		8.5
Year	29.249	29.930	28.540	41.6	57.4	62.8	39.5	51.1	109	−15	32	33	33	72	46	72	.198	.202		11.48	.72	5.1	5.4		5.5

LEXINGTON, KY.
[ϕ=38° 02′ N., λ=84° 33′ W.]

January	29.032	29.450	28.260	29.4	32.4	32.2	42.0	21.9	32.0	72	2	26	26	26	85	77	0.153	0.154		2.83	0.92	7.4	6.6		6.8
February	29.045	29.460	28.650	25.6	32.2	31.6	36.9	21.5	29.2	59	0	22	24	24	89	73	.130	.138		3.37	1.34	6.1	6.1		5.8
March	28.930	29.510	28.340	43.7	52.4	52.6	58.6	40.2	49.4	86	15	36	37	37	74	58	.232	.245		3.67	1.29	5.3	5.2		5.1
April	28.897	29.340	28.300	52.6	62.6	59.0	67.8	47.8	57.8	83	35	44	46	46	73	56	.305	.331		2.99	.81	5.0	4.5		4.1
May	29.023	29.370	28.130	58.3	66.3	63.9	71.6	52.8	62.2	88	33	53	55	55	82	68	.422	.453		5.59	1.45	5.8	5.5		5.4
June	28.948	29.160	28.740	66.1	75.7	72.4	80.4	60.7	70.6	90	42	59	59	59	77	58	.505	.519		4.25	1.95	4.1	4.2		4.4
July	29.031	29.240	28.770	71.0	80.1	76.5	84.4	65.5	75.0	92	52	64	64	64	80	60	.614	.611		4.12	1.22	3.4	3.8		4.0
August	28.998	29.240	28.720	66.8	77.7	74.3	82.5	62.3	72.4	93	54	59	58	58	77	52	.511	.499		1.49	1.39	3.9	4.3		3.4
September	29.021	29.229	28.800	62.7	72.1	68.6	77.3	59.1	68.2	90	40	57	59	59	82	65	.486	.520		4.35	1.42	5.0	4.7		4.7
October	29.008	29.400	28.380	49.6	59.6	56.2	63.0	47.2	55.1	75	32	43	44	44	79	59	.286	.301		2.99	1.48	6.3	5.9		6.1
November	29.043	29.480	28.450	39.0	44.2	42.8	48.5	35.0	41.8	69	−3	36	36	36	90	75	.239	.248		3.92	1.53	6.7	6.1		7.3
December	29.038	29.520	28.330	34.3	39.3	37.9	43.8	28.8	36.3	65	−2	31	33	33	89	79	.206	.222		1.88	.46	6.9	6.5		6.6
Year	29.001	29.520	28.130	49.9	57.9	55.7	63.1	45.2	54.2	93	−3	44	45	45	81	65	.341	.353		41.45	1.95	5.5	5.3		5.8

LINCOLN, NEBR.
[ϕ=40° 49′ N., λ=96° 45′ W.]

January	28.814	29.260	28.130	12.5	18.8	18.1	24.4	6.3	15.4	43	−6	7	9	9	78	64	66	0.065	0.070	0.069	0.61	0.37	6.7	6.7	4.0	6.3
February	28.819	29.220	28.310	14.1	24.0	22.0	27.8	10.6	19.2	51	−13	10	15	14	82	66	72	.074	.091	.089	1.06	.48	6.1	6.4	5.9	6.3
March	28.608	29.260	28.000	35.7	47.4	47.3	52.2	33.1	42.6	69	21	29	30	30	76	53	54	.161	.168	.167	.08	.08	5.7	5.3	4.9	5.6
April	28.577	28.990	28.010	46.1	59.2	59.7	64.5	43.9	54.2	94	26	40	39	39	79	52	50	.255	.252	.248	2.93	.97	6.8	6.5	5.7	6.4
May	28.751	29.170	28.360	53.3	65.6	65.5	70.1	49.8	60.0	85	33	46	46	48	78	51	55	.341	.341	.358	3.28	1.45	7.4	6.5	6.3	6.4
June	28.657	28.940	28.310	63.7	77.3	76.4	80.6	60.3	70.4	97	48	56	56	57	77	51	55	.460	.464	.492	1.86	.86	5.5	5.3	5.6	5.2
July	28.731	28.950	28.450	70.0	83.5	82.8	87.2	67.6	77.4	97	57	62	62	64	78	52	56	.575	.586	.621	5.32	3.17	6.5	5.6	3.1	4.9
August	28.742	28.970	28.462	68.0	84.7	82.5	88.0	65.4	76.7	104	48	59	60	61	74	45	50	.507	.528	.551	.92	.41	5.0	3.8	4.1	4.4
September	28.749	29.090	28.420	56.8	70.8	67.3	74.8	54.4	64.6	98	42	50	49	50	80	50	56	.368	.361	.365	1.82	.77	6.0	5.3	4.0	5.6
October	28.771	29.090	28.380	47.7	61.4	57.0	64.3	44.9	54.6	80	30	43	45	45	85	58	66	.296	.308	.313	4.57	1.84	5.7	5.0	4.3	5.2
November	28.863	29.430	28.411	29.1	38.8	35.8	42.3	26.3	34.3	57	1	25	28	27	83	65	70	.137	.159	.153	1.04	.46	5.0	5.6	5.1	6.0
December	28.814	29.300	28.270	25.1	33.8	30.1	37.9	19.9	28.9	62	−3	20	23	22	80	66	72	.117	.130	.126	.02	.02	5.5	5.7	4.3	5.7
Year	28.741	29.430	28.000	43.5	55.4	53.7	59.5	40.2	49.9	104	−13	37	38	39	79	56	60	.280	.288	.296	23.51	3.17	6.0	5.6	4.8	5.7

LITTLE ROCK, ARK.
[ϕ=34° 45′ N., λ=92° 16′ W.]

January	29.725	30.160	29.050	34.7	41.0	41.7	47.9	29.8	38.8	71	17	28	30	31	77	66	65	0.173	0.184	0.186	3.69	1.08	5.4	6.4	5.7	6.5
February	29.724	30.200	29.050	31.5	39.3	39.7	43.8	29.3	36.6	69	13	25	28	29	77	65	66	.144	.164	.168	2.38	.61	5.8	7.1	6.0	6.4
March	29.571	30.111	29.100	49.0	60.5	61.6	66.2	47.4	56.8	90	31	42	42	43	79	53	53	.294	.295	.299	4.72	1.65	6.3	6.5	6.2	6.5
April	29.544	30.010	29.190	58.5	67.7	69.1	72.9	56.5	64.7	84	44	51	52	52	77	59	57	.392	.403	.403	4.93	1.41	6.3	6.8	6.7	6.7
May	29.639	29.930	29.000	61.3	71.8	72.3	76.6	58.8	67.7	91	41	57	58	60	85	64	66	.485	.510	.532	6.20	1.77	7.1	7.4	6.7	7.0
June	29.576	29.750	29.350	70.4	82.0	82.4	86.1	67.9	77.0	94	54	64	64	65	81	56	56	.703	.678	.689	1.20	.39	4.0	5.5	5.0	4.4
July	29.655	29.840	29.440	75.4	88.2	86.3	92.0	72.6	82.3	99	68	69	68	68	80	51	56	.605	.611	.616	4.25	2.07	5.2	5.9	3.4	4.9
August	29.628	29.820	29.428	72.8	88.1	87.2	92.7	70.6	81.6	102	61	64	62	63	75	43	46	.613	.578	.594	1.95	1.05	2.6	2.6	4.5	3.0
September	29.628	29.870	29.394	66.6	79.4	79.2	83.9	65.1	74.5	93	53	61	60	60	82	53	54	.543	.535	.535	1.43	.70	4.4	6.3	4.4	5.1
October	29.667	29.920	29.220	56.6	69.2	67.3	73.0	55.2	64.1	85	38	49	49	50	77	52	58	.372	.377	.393	4.76	3.15	4.7	4.5	4.4	4.8
November	29.767	30.160	29.310	42.4	50.9	50.2	54.9	40.2	47.6	74	22	36	35	35	78	56	57	.226	.215	.216	1.86	.37	6.3	5.5	5.4	5.8
December	29.769	30.220	29.310	40.6	50.0	49.3	55.0	37.2	46.1	76	13	35	36	37	81	61	64	.246	.263	.265	3.81	1.46	5.2	6.0	4.0	5.3
Year	29.658	30.220	29.000	55.0	65.7	65.5	70.4	52.6	61.5	102	13	48	49	49	79	57	58	.400	.401	.408	41.17	3.15	5.3	5.9	5.2	5.5

Annual meteorological summary for the year ending December 31, 1929—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	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	2.4	E.	15	NE.	0	0	4	9	4	4	3	3	2	2	3	7	21	14	11	14	13	0	0	13	0	28	0	0
February	2.6	E.	16	NW.	0	2	6	12	2	1	1	1	2	1	7	6	15	10	6	8	7	0	3	17	0	26	0	0
March	3.9	E.	27	SW.	0	1	4	14	1	0	1	4	2	4	7	10	14	11	5	1	1	0	0	0	0	8	0	2
April	4.3	E.	25	NW.	0	0	1	13	3	1	5	2	2	3	9	7	14	10	6	1	1	0	0	0	0	3	0	0
May	3.6	E.	25	NW.	0	4	1	13	3	1	2	2	2	3	10	8	13	8	4	0	0	0	0	0	3	0	3	0
June	3.0	E.	19	W.	0	1	3	16	4	1	1	3	1	0	10	4	16	9	8	0	0	0	0	0	4	0	3	0
July	3.6	E.	22	NW.	0	0	1	13	5	3	1	1	1	6	21	8	2	0	0	0	0	0	0	0	18	0	1	0
August	3.0	E.	25	NW.	0	0	0	15	6	1	0	1	0	8	20	10	1	2	2	0	0	0	0	0	26	0	7	0
September	2.3	E.	17	NW.	0	1	4	6	3	2	0	2	1	11	9	5	16	4	2	0	0	0	0	0	4	0	0	0
October	1.5	W.	25	NW.	0	3	0	1	1	3	4	1	2	16	14	14	3	6	4	0	0	0	0	2	0	4	0	0
November	1.4	W.	20	NW.	0	1	2	2	2	1	1	3	5	13	8	15	7	0	0	0	0	0	0	3	0	24	0	0
December	2.9	E.	26	NW.	0	1	3	9	1	0	2	4	5	6	2	5	24	14	11	2	2	0	1	1	0	11	0	0
Year	2.9	E.	27	SW.	0	14	29	123	35	18	21	27	25	73	120	99	146	88	59	26	24	0	9	31	55	104	14	2

LEXINGTON, KY.

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

January	13.7	SW.	48	SW.	6	2	2	3	4	3	8	3	6	0	4	8	19	15	10	12	6	1	2	9	0	26	1	0
February	10.1	SW.	36	SW.	2	3	4	3	2	3	7	3	3	0	9	7	12	12	12	8	6	0	1	9	0	22	0	0
March	14.6	SW.	42	W.	5	2	2	2	5	3	10	5	2	0	11	11	9	13	9	2	1	0	0	0	0	8	0	0
April	14.7	SW.	52	W.	4	1	3	1	4	2	14	1	4	0	16	9	5	16	11	0	0	1	0	0	0	0	5	0
May	11.7	SW.	46	SW.	3	3	4	5	4	3	9	2	1	0	9	11	11	13	13	1	0	0	1	0	0	0	6	0
June	9.6	SW.	36	NE.	4	0	5	3	4	3	10	4	1	0	11	16	3	12	11	0	0	2	0	0	1	0	10	0
July	9.5	SW.	52	NW.	2	0	4	2	5	3	14	2	1	0	18	9	4	11	11	0	0	1	1	0	2	0	11	0
August	9.4	SE.	38	N.	1	2	6	5	7	2	3	6	0	0	17	10	4	5	4	0	0	0	0	0	4	0	5	0
September	9.7	SW.	24	N.	0	0	5	5	6	3	7	1	3	0	12	11	7	13	12	0	0	0	0	0	2	0	3	0
October	11.8	SW.	33	SW.	1	1	4	3	7	2	8	2	4	0	9	5	17	10	6	1	0	0	0	0	0	1	1	0
November	10.7	SW.	56	NW.	1	4	3	1	3	4	9	1	5	0	6	5	19	17	11	5	3	0	2	4	0	10	1	0
December	13.5	SW.	38	SW.	1	0	3	1	1	3	16	3	4	0	8	6	17	14	9	10	7	0	1	11	0	17	0	0
Year	11.6	SW.	56	NW.	30	18	45	34	52	34	115	33	34	0	130	108	127	151	119	39	23	5	8	33	9	84	43	0

LINCOLN, NEBR.

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

January	9.7	N.	44	NW.	3	15	4	8	4	11	3	5	12	0	7	6	18	5	2	18	5	0	0	23	0	31	0	0
February	8.3	N.	28	NW.	0	16	2	3	8	10	4	8	5	0	7	7	14	8	6	17	8	0	0	17	0	28	0	0
March	9.7	S.	38	NW.	1	14	2	2	3	24	2	8	6	1	9	9	13	2	1	5	0	0	0	1	0	16	0	0
April	10.3	S.	36	S.	1	13	5	13	5	12	2	2	8	0	6	12	12	15	12	0	0	1	0	0	1	2	6	0
May	8.8	S.	34	NW.	1	10	3	11	7	19	3	3	5	1	6	9	16	9	8	0	0	0	0	0	0	0	6	0
June	8.5	S.	28	W.	0	11	6	8	4	23	2	2	4	0	8	13	9	9	7	0	0	0	0	0	6	0	8	0
July	7.7	S.	32	SW.	0	5	10	11	8	20	3	2	3	0	11	11	9	9	7	0	0	1	0	0	11	0	8	0
August	7.3	S.	25	NW.	0	6	10	12	12	16	0	4	2	0	12	11	8	6	4	0	0	0	0	0	12	0	6	0
September	9.0	S.	24	N.	0	14	2	7	11	12	4	4	6	0	8	11	11	8	7	0	0	0	0	0	3	0	5	0
October	7.9	S.	29	NW.	0	8	7	10	7	15	3	7	5	0	12	6	13	11	10	0	0	0	0	0	0	1	4	0
November	9.0	N.	37	NW.	2	16	6	1	0	14	8	8	7	0	10	9	11	8	4	10	5	0	1	5	0	21	0	0
December	8.2	S.	34	NW.	1	17	1	3	0	15	7	8	11	0	11	4	16	1	0	5	1	0	1	8	0	28	0	0
Year	8.7	S.	44	NW.	9	145	58	89	69	191	41	61	74	2	107	108	150	91	68	55	19	2	2	54	33	127	43	0

LITTLE ROCK, ARK.

[H_b=357 ft.; h_t=136 ft.; h_r=129 ft.; h_a=163 ft.]

January	8.2	E.	39	SW.	1	11	13	9	4	6	8	2	9	0	8	6	17	11	11	1	0	0	3	1	0	19	2	0
February	7.3	N.	26	S.	0	24	8	6	2	5	2	1	8	0	8	6	14	13	8	5	3	0	1	3	0	18	1	0
March	9.2	SW.	40	NW.	1	11	8	6	1	16	11	2	7	0	8	7	16	17	13	0	0	0	2	0	1	2	9	0
April	8.9	S.	27	NW.	0	4	2	8	9	16	6	4	10	1	7	7	16	12	9	0	0	2	0	0	0	0	9	0
May	8.4	S.	34	W.	1	7	10	10	11	12	6	1	5	0	3	12	16	14	11	0	0	1	0	0	1	0	11	0
June	6.8	S.	42	NW.	1	13	7	6	5	18	6	2	1	2	10	13	7	10	9	0	0	0	0	0	9	0	11	0
July	6.2	SW.	31	S.	0	5	5	9	7	12	19	2	2	1	12	14	5	7	5	0	0	0	0	0	22	0	9	0
August	6.2	E.	29	NW.	0	7	8	17	10	7	7	4	2	0	19	9	3	6	4	0	0	0	1	0	23	0	7	0
September	5.6	E.	32	NW.	0	9	13	16	7	3	4	2	6	0	13	7	10	7	4	0	0	1	2	0	3	0	4	0
October	6.8	E.	26	NW.	0	10	5	10	8	5	7	5	12	0	13	7	11	8	6	0	0	0	0	0	0	0	4	0
November	7.3	N.	34	N.	1	19	4	4	3	7	7	6	10	0	9	8	13	13	11	3	1	0	1	0	0	6	1	0
December	8.0	SW.	26	NW.	0	7	1	1	2	28	13	7	8	0	12	5	14	10	7	3	1	0	4	1	0	11	4	0
Year	7.4	S.	42	NW.	5	127	84	102	69	130	96	38	80	4	122	101	142	128	98	12	5	4	14	5	59	56	72	0

Annual meteorological summary for the year ending December 31, 1929—Continued

LOS ANGELES, CALIF.

[ϕ=34° 03′ N.; λ=118° 15′ W.]

Month	Pressure			Temperature								Moisture													
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.671	29.900	29.289	50.2	60.0	57.7	62.8	47.7	55.2	81	41	38	40	44	67	51	62	0.237	0.249	0.287	1.20	0.56	3.7	3.9	4.4	4.4
February	29.702	29.920	29.359	49.0	59.8	58.3	62.5	46.4	54.4	79	38	35	35	40	63	46	54	.220	.224	.258	2.15	1.18	2.5	3.5	2.8	3.3
March	29.669	29.910	29.329	50.6	63.2	60.8	66.0	48.5	57.2	79	40	43	40	44	79	46	57	.289	.257	.293	2.51	2.49	4.0	4.1	4.0	4.2
April	29.655	29.810	29.513	51.6	62.4	60.0	65.0	49.8	57.4	85	42	46	46	47	81	57	64	.311	.319	.329	1.99	1.87	5.3	4.7	3.9	4.7
May	29.592	29.790	29.285	57.8	70.9	67.7	73.7	56.3	65.0	91	52	49	50	50	75	51	57	.358	.363	.367	T.	T.	6.0	3.5	2.2	3.8
June	29.558	29.740	29.400	60.7	74.8	72.3	77.6	59.5	68.6	98	53	53	53	53	78	49	54	.411	.404	.407	.15	.15	5.4	2.3	1.3	2.8
July	29.571	29.710	29.439	65.1	78.3	75.1	80.7	63.5	72.1	93	60	59	59	58	81	53	57	.496	.500	.488	0	0	6.9	1.5	.3	2.5
August	29.554	29.700	29.400	67.3	83.5	78.9	85.6	66.0	75.8	96	59	59	59	57	76	45	48	.500	.502	.469	0	0	4.2	1.2	1.3	2.1
September	29.503	29.660	29.267	63.9	75.8	72.9	78.3	62.0	70.2	99	55	57	57	58	83	54	62	.482	.471	.494	.32	.32	5.9	3.4	1.9	3.9
October	29.581	29.700	29.282	62.3	77.9	70.9	79.9	60.4	70.2	100	53	48	47	52	65	39	55	.360	.347	.403	T.	T.	3.9	2.0	2.8	2.9
November	29.686	29.960	29.531	57.8	74.8	67.6	77.2	54.5	65.8	90	44	31	32	43	40	24	45	.184	.189	.291	0	0	.5	.8	.9	.7
December	29.703	29.990	29.380	57.2	70.0	66.1	73.3	54.1	63.7	86	49	35	38	43	51	36	50	.227	.246	.300	0	0	2.7	2.5	2.5	2.5
Year	29.620	29.990	29.267	57.8	71.0	67.4	73.6	55.7	64.6	100	38	46	46	49	70	46	55	.340	.339	.366	8.32	2.49	4.2	2.8	2.4	3.2

LOUISVILLE, KY.

[ϕ= 38° 15′ N.; λ= 85° 45′ W.]

January	29.541	29.980	28.580	28.3	32.6	33.5	41.4	22.1	31.8	72	4	24	24	26	82	70	73	0.139	0.144	0.160	3.77	1.41	8.2	6.8	5.1	6.5
February	29.555	30.010	29.070	26.0	33.1	33.7	38.4	23.0	30.7	60	4	22	23	24	84	67	69	.126	.134	.138	2.16	1.05	6.0	5.9	4.6	5.8
March	29.410	30.104	28.810	44.7	54.6	55.8	60.6	42.4	51.5	88	19	38	38	40	77	56	58	.248	.263	.281	2.30	.71	5.6	6.4	4.0	5.1
April	29.375	29.820	28.740	53.5	64.5	62.4	69.8	50.2	60.0	85	36	45	44	46	72	49	59	.312	.305	.332	4.31	1.74	6.1	5.2	5.4	5.2
May	29.497	29.875	28.610	58.4	67.8	66.6	72.6	54.7	63.6	91	36	52	52	55	81	60	69	.422	.427	.460	7.16	2.07	6.2	6.5	5.7	6.2
June	29.413	29.620	29.170	66.5	76.9	75.8	82.1	62.3	72.2	92	44	59	58	61	78	54	62	.516	.497	.546	4.46	1.93	3.7	4.6	3.5	4.2
July	29.491	29.700	29.210	71.7	82.7	80.9	87.1	68.4	77.8	95	55	65	64	64	79	54	58	.624	.606	.604	1.09	.76	3.9	4.8	4.0	4.2
August	29.472	29.730	29.143	67.6	81.0	79.2	85.3	64.8	75.0	96	56	61	58	59	79	47	51	.543	.498	.506	1.45	.77	3.9	4.2	2.7	3.6
September	29.497	29.750	29.200	62.5	74.4	72.1	77.7	60.8	69.2	91	43	58	60	61	87	63	70	.506	.536	.555	3.21	.89	4.8	5.5	4.7	4.9
October	29.497	29.890	28.940	50.3	61.7	59.9	65.3	48.6	57.0	79	34	44	44	46	81	56	64	.300	.303	.331	4.40	3.22	5.4	5.2	4.8	5.4
November	29.554	30.000	28.950	39.0	45.9	44.2	49.3	36.3	42.8	72	1	35	36	37	85	69	77	.228	.246	.253	3.50	1.44	6.4	7.1	5.8	6.9
December	29.530	30.040	28.840	34.6	40.0	39.8	44.2	30.1	37.2	66	2	30	33	32	84	75	76	.200	.218	.214	3.24	.87	7.3	7.0	6.0	6.8
Year	29.486	30.104	28.580	50.3	59.6	58.7	64.5	47.0	55.7	96	1	44	44	46	81	60	66	.347	.348	.365	41.05	3.22	5.6	5.8	4.7	5.4

LUDINGTON, MICH.

[ϕ=43° 57′ N.; λ=86° 27′ W.]

January	29.295	29.830	28.360	16.5	17.5	18.8	23.3	11.3	17.3	39	−3	14	14	15	88	86	82	0.084	0.082	0.067	3.49	1.09	9.3	8.9	7.5	8.7
February	29.365	29.860	28.683	16.6	21.0	20.5	24.2	12.9	18.6	42	−2	14	16	17	89	81	85	.084	.093	.094	1.17	.39	8.6	7.5	7.4	7.4
March	29.178	29.830	28.280	32.1	36.1	35.4	41.1	28.8	35.0	55	8	29	30	30	88	70	80	.165	.174	.171	1.64	1.07	6.6	6.3	6.2	6.9
April	29.195	29.562	28.560	39.9	44.1	44.5	50.3	35.9	43.1	67	24	37	38	39	89	82	81	.227	.239	.247	6.47	2.19	5.0	4.5	4.8	5.2
May	29.342	29.820	28.740	46.8	50.7	51.6	56.5	40.7	48.6	79	32	42	44	44	84	78	77	.287	.309	.315	2.46	.96	4.3	5.0	5.3	4.6
June	29.262	29.540	28.800	56.1	59.3	59.9	65.4	50.5	58.0	83	37	51	52	51	83	77	73	.391	.397	.389	2.69	1.02	4.9	4.1	3.9	4.2
July	29.317	29.670	28.923	64.5	69.3	69.4	73.7	59.0	66.4	84	46	58	59	58	82	70	68	.497	.501	.497	3.53	2.92	3.2	2.5	2.8	3.1
August	29.342	29.630	28.910	60.9	66.2	65.4	70.5	56.2	63.4	80	45	55	56	56	82	70	71	.446	.455	.449	.97	.63	3.9	4.6	2.7	3.6
September	29.368	29.750	28.910	54.6	62.7	60.7	66.9	50.9	58.9	81	35	50	51	50	85	67	70	.376	.390	.378	2.88	1.24	4.1	4.5	2.8	4.1
October	29.320	29.893	28.472	46.1	50.9	48.8	53.9	42.1	48.0	64	28	41	42	42	83	72	78	.266	.271	.274	3.06	1.46	5.7	5.5	4.8	5.4
November	29.314	29.800	28.570	33.4	35.8	35.9	39.9	30.3	35.1	52	7	28	29	28	81	76	74	.164	.168	.167	.66	.31	6.8	8.0	6.3	7.3
December	29.289	29.790	28.630	25.8	27.7	27.8	31.6	23.2	27.4	43	8	22	24	24	84	83	83	.119	.128	.129	.82	.34	8.9	9.0	8.1	9.0
Year	29.299	29.893	28.280	41.1	45.1	44.9	49.8	36.8	43.3	84	−3	37	38	38	85	77	77	.259	.267	.266	29.84	2.92	5.9	5.9	5.2	5.8

LYNCHBURG, VA.

[ϕ=37° 25′ N.; λ=79° 09′ W.]

January	29.345	29.840	28.700	33.0	39.7	38.8	46.2	26.3	37.2	67	14	23	26	26	66	59	60	0.134	0.151	0.154	2.38	0.92	5.0	5.5	4.1	5.7
February	29.345	29.710	28.810	31.0	40.4	41.0	48.4	27.9	38.2	70	14	23	27	30	70	59	66	.132	.156	.179	2.75	1.08	5.6	4.5	3.6	5.1
March	29.260	29.810	28.270	46.4	56.4	55.4	63.8	41.7	52.8	87	20	35	37	38	66	52	55	.234	.258	.263	3.22	.98	4.9	4.8	3.5	4.8
April	29.191	29.723	28.530	54.1	65.2	63.6	71.4	47.7	59.6	90	36	43	42	45	68	48	55	.295	.290	.320	5.76	2.69	4.6	4.5	3.5	4.7
May	29.349	29.796	28.350	60.6	71.1	67.3	76.9	53.7	65.3	91	42	52	54	56	74	56	68	.408	.440	.465	3.06	1.00	6.0	5.4	5.2	5.7
June	29.249	29.446	28.990	68.1	78.3	73.2	83.5	61.6	72.6	94	44	61	61	64	77	58	73	.549	.552	.600	5.00	1.20	3.4	3.5	5.2	4.8
July	29.345	29.610	29.000	70.9	81.7	76.9	86.4	65.5	76.0	96	54	63	62	64	76	52	66	.579	.558	.613	2.21	.48	3.6	3.8	4.9	4.1
August	29.292	29.610	28.960	68.1	78.7	74.2	83.3	63.0	73.2	93	53	60	61	64	76	56	71	.531	.541	.601	3.99	1.10	3.7	3.9	4.4	4.0
September	29.373	29.630	29.050	63.6	75.5	70.2	80.3	59.6	70.0	93	39	57	58	61	80	56	73	.486	.514	.556	2.20	1.36	4.1	4.1	4.6	4.6
October	29.333	29.920	28.640	49.4	61.3	57.5	66.5	45.2	55.8	77	36	42	42	45	76	52	66	.273	.278	.314	5.21	3.92	3.5	3.9	3.3	4.2
November	29.361	29.770	28.610	44.5	52.2	48.8	56.2	39.9	48.0	79	9	38	40	40	77	64	72	.257	.288	.280	2.82	1.45	6.1	5.8	4.8	6.0
December	29.364	29.810	28.700	35.8	44.9	43.1	51.0	30.8	40.9	71	10	27	32	32	70	62	66	.165	.199	.199	1.87	.68	4.5	4.5	3.9	4.8
Year	29.318	29.920	28.270	52.1	62.1	59.2	67.8	47.1	57.5	96	9	44	45	47	73	58	66	.337	.352	.379	40.47	3.92	4.6	4.5	4.2	4.9

Annual meteorological summary for the year ending December 31, 1929—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	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	4.6	NE.	16	SW.	0	3	18	3	9	6	8	9	6	0	13	10	8	5	4	0	0	1	0	0	0	0	1	0
February	5.3	NE.	22	NW.	0	4	15	6	1	1	17	7	5	0	17	6	5	6	5	0	0	0	0	0	0	0	1	0
March	5.2	SW.	22	NW.	0	2	12	8	2	6	23	5	4	0	13	10	8	4	2	0	0	0	1	0	0	0	1	0
April	5.2	SW.	17	SW.	0	2	7	11	3	3	26	7	1	0	10	13	7	4	3	0	0	0	0	0	0	0	1	0
May	4.7	SW.	18	SW.	0	3	4	10	10	0	32	1	2	0	15	13	3	0	0	0	0	0	0	0	1	0	0	0
June	4.7	SW.	16	SW.	0	3	7	7	6	5	23	8	1	0	21	6	3	1	1	0	0	0	0	0	3	0	0	0
July	4.3	SW.	15	W.	0	3	1	9	8	4	31	5	1	0	21	10	0	0	0	0	0	0	0	0	3	0	0	0
August	4.1	SW.	13	W.	0	0	3	9	8	4	18	16	3	1	24	7	0	0	0	0	0	0	0	0	6	0	0	0
September	4.2	SW.	17	SE.	0	2	4	6	6	4	25	7	3	3	17	5	8	2	1	0	0	0	0	0	3	0	0	0
October	4.1	SW.	14	SW.	0	6	8	7	1	3	23	10	4	0	19	10	2	0	0	0	0	0	1	0	4	0	1	0
November	4.1	NE.	12	W.	0	13	9	1	0	1	11	21	4	0	28	2	0	0	0	0	0	0	2	0	0	0	0	0
December	4.2	NE.	14	NW.	0	7	16	7	2	3	9	16	2	0	23	6	2	0	0	0	0	0	1	0	0	0	0	0
Year	4.6	SW.	21	NW.	0	48	104	84	56	40	246	112	36	4	221	98	46	22	16	0	0	1	6	0	20	0	5	0

LOUISVILLE, KY.

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

January	10.9	S.	48	S.	3	9	5	8	6	13	3	12	6	0	8	6	17	13	12	13	5	0	1	7	0	26	2	0
February	7.9	S.	25	SW.	0	6	11	3	5	8	9	6	8	0	7	12	9	12	9	9	6	0	2	9	0	22	2	0
March	11.7	S.	38	W.	5	5	1	7	9	24	5	6	5	0	10	13	8	11	9	2	1	0	0	0	0	6	0	0
April	12.3	S.	48	SW.	4	13	4	2	5	21	7	2	6	0	8	15	7	14	13	0	0	1	0	0	0	0	4	0
May	9.4	N.	39	W.	1	14	10	7	8	12	7	2	2	0	8	8	15	15	14	0	0	1	0	0	1	0	9	0
June	7.8	S.	40	SW.	1	9	8	6	8	12	7	5	5	0	13	13	4	12	10	0	0	2	0	0	3	0	10	0
July	7.6	SW.	38	NW.	1	8	13	1	9	13	10	2	6	0	11	18	2	7	3	0	0	0	0	0	9	0	11	0
August	7.3	N.	38	NW.	1	19	13	6	7	2	8	2	5	0	15	13	3	8	6	0	0	1	0	0	7	0	5	0
September	7.0	N.	38	W.	0	15	12	6	7	10	5	0	5	0	11	10	9	12	10	0	0	0	1	0	3	0	6	0
October	9.8	SW.	31	NW.	0	9	8	4	12	8	8	4	9	0	10	9	12	10	9	1	0	0	0	0	0	0	1	0
November	8.7	N.	49	W.	1	13	4	4	6	7	12	5	8	1	6	8	16	13	12	4	3	0	0	4	0	9	0	0
December	10.3	S.	27	NW.	0	5	4	3	3	20	16	6	5	0	7	6	18	13	10	8	4	0	0	8	0	15	0	0
Year	9.2	S.	48	W.	17	125	93	57	85	150	97	52	70	1	114	131	120	140	117	37	19	5	4	28	23	78	50	0

LUDINGTON, MICH.

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

January	12.0	W.	38	W.	3	7	2	8	5	2	5	22	11	0	1	4	26	24	16	30	24	0	0	25	0	31	0	0
February	8.0	E.	32	S.	0	4	4	18	6	4	3	10	7	0	4	6	18	17	10	21	16	0	1	24	0	28	0	1
March	10.6	S.	42	NW.	2	10	4	8	5	22	4	5	4	0	5	9	17	12	8	10	7	0	4	2	0	16	3	1
April	10.0	N.	28	S.	0	16	2	7	5	15	5	4	4	0	12	4	14	14	13	3	3	0	3	1	0	6	7	1
May	9.4	S.	28	SW.	0	11	4	6	3	16	10	9	3	0	11	13	7	7	5	2	0	0	2	0	0	0	5	0
June	8.3	S.	24	S.	0	15	5	6	2	21	4	6	1	0	15	10	5	10	8	0	0	0	1	0	0	0	6	0
July	7.6	S.	23	S.	0	11	3	6	4	22	7	7	2	0	20	10	1	8	5	0	0	0	0	0	0	0	7	0
August	7.5	S.	24	S.	0	14	4	4	7	21	2	2	7	1	16	11	4	6	5	0	0	0	0	0	0	0	2	0
September	8.9	S.	33	W.	1	12	7	11	5	17	3	3	2	0	13	11	6	12	9	0	0	0	0	0	0	0	2	1
October	9.8	N.	30	N.	0	15	4	13	4	12	6	5	3	0	13	3	15	10	9	0	0	0	0	0	0	3	1	0
November	12.8	W.	42	SW.	2	5	6	5	1	5	12	16	10	0	4	8	18	13	5	12	8	0	0	7	0	13	0	2
December	10.2	E.	30	SW.	0	6	7	15	5	2	6	12	9	0	1	4	26	12	5	19	11	0	0	15	0	27	0	0
Year	9.6	S.	42	NW.	8	128	52	107	52	159	67	101	63	1	115	93	157	145	98	97	69	0	11	74	0	124	33	6

LYNCHBURG, VA.

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

January	7.2	W.	34	NW.	2	6	7	4	5	2	7	15	16	0	11	7	13	12	9	3	3	0	2	0	0	22	0	0
February	5.8	W.	23	N.	0	7	7	4	0	4	12	11	12	0	13	5	10	10	10	6	4	0	0	1	0	20	0	0
March	8.6	SW.	40	NW.	3	4	5	0	5	7	20	11	10	0	13	10	8	10	9	0	0	0	1	0	0	7	2	0
April	8.6	W.	39	NW.	1	2	4	4	1	7	13	21	8	0	14	9	7	10	7	0	0	1	0	0	1	0	2	0
May	7.2	SW.	36	S.	2	5	8	5	6	8	17	7	6	0	5	19	7	15	13	0	0	1	0	0	1	0	7	0
June	5.3	W.	25	N.	0	10	9	5	5	3	9	9	10	0	11	12	7	16	14	0	0	1	0	0	6	0	13	0
July	5.9	W.	27	N.	0	7	12	6	3	5	10	13	6	0	13	13	5	14	7	0	0	0	0	0	14	0	12	0
August	4.6	N.	36	NW.	2	11	12	5	4	2	9	11	7	1	16	10	5	12	11	0	0	0	3	0	4	0	7	0
September	5.6	NE.	28	NE.	0	2	15	4	3	8	12	9	4	3	15	7	8	6	5	0	0	0	3	0	2	0	5	0
October	6.6	W.	27	N.	0	8	7	6	5	3	9	17	7	0	16	7	8	9	6	0	0	0	1	0	0	0	0	0
November	6.4	W.	30	NW.	0	6	6	3	1	3	12	16	11	2	10	6	14	13	8	2	2	0	0	2	0	7	0	0
December	7.3	W.	27	NW.	0	0	6	4	0	9	9	27	7	0	15	7	9	12	8	3	3	0	0	1	0	17	0	0
Year	6.6	W.	40	NW.	10	68	98	50	38	61	139	167	103	6	152	112	101	139	107	14	12	3	10	4	28	73	48	0

Annual meteorological summary for the year ending December 31, 1929—Continued

MACON, GA.

[ϕ=32° 50′ N.; λ=83° 38′ W.]

Month	Pressure: Extremes: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.733	30.140	29.297	43.2	54.6	52.7	60.6	39.1	49.8	78	21	38	39	39	83	58	62	0.264	0.270	0.268	4.48	1.23	5.9	5.2	3.7	5.5
February	29.683	30.080	29.230	41.4	51.8	51.1	58.0	38.4	48.2	74	26	36	37	38	81	60	65	.235	.244	.258	12.04	4.94	7.1	6.6	4.6	6.6
March	29.649	30.100	29.060	54.0	66.0	64.3	71.1	50.2	60.6	92	33	47	45	50	79	50	64	.358	.334	.407	10.89	5.21	6.3	5.6	5.2	5.5
April	29.604	30.110	28.980	61.1	73.2	70.6	77.5	56.4	67.0	88	45	54	51	54	78	48	59	.433	.398	.442	2.22	1.37	5.3	5.5	4.4	5.0
May	29.705	30.050	29.090	67.9	78.2	74.8	82.2	62.1	72.2	90	45	60	58	59	78	51	60	.544	.499	.520	2.52	1.02	6.2	6.0	5.1	5.5
June	29.599	29.810	29.290	72.4	82.5	77.8	86.6	66.8	76.7	96	54	66	64	66	81	56	68	.649	.612	.640	8.54	3.13	4.8	5.7	6.8	5.7
July	29.694	29.900	29.420	75.4	85.1	79.7	89.1	69.8	79.4	97	63	69	68	69	81	57	70	.711	.681	.704	1.87	.51	5.5	7.1	7.7	6.4
August	29.617	29.870	29.370	74.3	86.0	80.4	89.8	69.7	79.8	96	62	68	67	69	82	54	70	.697	.668	.716	3.08	1.91	4.5	4.2	4.8	4.7
September	29.632	29.860	29.300	69.6	78.5	74.9	81.7	66.7	74.2	91	52	66	65	67	87	64	77	.646	.629	.673	5.95	2.03	6.5	6.8	6.4	6.6
October	29.664	30.050	29.050	56.0	70.3	64.9	73.3	52.9	63.1	83	40	51	54	56	85	59	75	.394	.439	.467	7.49	6.70	4.7	3.5	2.4	3.8
November	29.726	30.020	29.347	51.7	61.1	56.5	64.0	48.8	56.4	82	20	47	46	48	84	60	74	.362	.364	.385	5.20	3.03	7.0	6.5	5.5	6.4
December	29.793	30.180	29.143	37.5	52.5	49.4	56.9	34.9	45.9	75	19	33	36	38	84	56	65	.213	.238	.257	3.52	1.44	4.5	4.5	3.9	4.4
Year	29.675	30.180	28.980	58.7	70.0	66.4	74.2	54.6	64.4	97	19	53	52	54	82	56	67	.459	.448	.478	67.80	6.70	5.7	5.6	5.0	5.5

MADISON, WIS.

[ϕ=43° 05′ N.; λ=89° 23′ W.]

January	28.988	29.470	28.170	4.3	9.7	8.8	15.8	−2.9	6.4	36	−21	1	6	5	84	84	84	0.049	0.063	0.058	3.31	1.04	6.0	5.5	4.5	5.7
February	29.030	29.530	28.260	7.8	15.6	15.9	20.5	5.1	12.8	38	−21	5	11	12	87	79	84	.061	.075	.079	1.48	1.03	5.4	6.6	6.4	6.3
March	28.843	29.520	28.060	31.0	38.8	38.6	43.4	27.9	35.6	64	1	26	28	30	83	68	72	.151	.159	.174	2.30	1.34	5.2	5.8	5.6	6.3
April	28.844	29.250	28.259	43.3	52.0	51.5	56.0	40.1	48.0	79	22	37	37	39	79	59	63	.237	.238	.254	4.33	1.09	6.4	6.4	6.2	6.2
May	29.010	29.407	28.400	49.8	59.3	58.8	64.1	45.1	54.6	85	32	41	41	41	73	53	56	.293	.296	.297	1.31	.61	5.0	5.8	5.5	5.3
June	28.930	29.250	28.530	58.9	68.7	69.0	72.5	55.0	63.8	86	39	51	52	52	76	57	58	.395	.403	.417	4.35	1.97	5.8	5.3	4.8	5.4
July	28.992	29.280	28.610	67.0	77.2	76.7	81.4	62.8	72.1	91	49	58	60	59	75	57	57	.503	.538	.517	8.02	3.90	5.0	4.7	3.6	4.2
August	29.017	29.300	28.650	62.2	74.0	72.7	77.3	59.7	68.5	91	49	56	56	57	80	55	59	.459	.465	.468	.87	.29	5.1	3.8	3.5	4.4
September	29.026	29.340	28.640	54.4	66.6	63.4	69.7	51.5	60.6	91	37	49	50	50	82	57	64	.360	.375	.382	3.17	1.51	4.8	4.4	3.4	4.3
October	28.996	29.410	28.474	44.7	53.7	52.0	57.1	42.3	49.7	79	32	39	40	40	82	63	67	.248	.258	.259	1.82	.58	4.5	5.2	4.6	5.4
November	29.005	29.540	28.340	27.1	34.2	32.9	37.8	24.3	31.0	52	−4	23	25	25	84	68	72	.137	.144	.145	.58	.50	4.6	5.5	3.9	5.2
December	28.954	29.460	28.390	20.9	25.3	25.8	29.7	18.1	23.9	50	−1	18	21	22	86	82	84	.102	.117	.122	.40	.16	7.5	7.8	6.2	7.6
Year	28.970	29.540	28.060	39.3	47.9	47.2	52.1	35.8	43.9	91	−21	34	36	36	81	65	68	.250	.261	.264	31.94	3.90	5.4	5.6	4.8	5.5

MARQUETTE, MICH.

[ϕ=46° 34′ N.; λ=87° 24′ W.]

January	29.171	29.670	28.270	7.0	12.9	9.3	17.8	2.5	10.2	30	−13	4	7	5	87	75	82	0.051	0.059	0.055	3.73	0.94	7.3	6.5	5.5	6.1
February	29.267	29.780	28.400	8.3	16.0	13.3	19.6	5.4	12.5	36	−14	6	11	10	87	78	84	.056	.073	.068	1.16	.64	7.5	7.5	5.4	7.0
March	29.064	29.710	28.180	27.1	33.5	30.2	37.8	22.4	30.1	58	1	23	24	25	83	69	80	.127	.131	.138	1.84	.57	7.3	7.5	6.3	7.5
April	29.125	29.530	28.600	37.7	43.5	38.9	47.3	32.8	40.6	72	22	28	31	31	70	64	74	.160	.174	.175	2.40	1.63	5.5	5.5	4.9	5.7
May	29.219	29.640	28.730	47.3	52.7	50.3	57.9	39.5	48.7	91	27	35	38	37	65	59	61	.234	.248	.238	2.59	1.12	5.4	6.3	5.9	6.1
June	29.150	29.560	28.610	55.7	57.0	58.3	65.1	48.0	56.6	88	34	45	45	47	70	67	67	.321	.321	.337	3.73	1.82	5.5	6.7	5.8	6.3
July	29.183	29.550	28.670	64.0	70.3	66.8	75.7	56.3	66.0	96	47	52	53	54	66	56	66	.394	.411	.435	2.38	1.02	3.9	5.0	4.7	4.8
August	29.214	29.600	28.790	61.5	67.3	64.2	71.7	55.2	63.4	93	47	52	52	54	71	61	71	.391	.403	.427	1.72	1.06	4.7	5.7	5.5	5.7
September	29.233	29.650	28.680	53.3	61.4	56.4	65.1	49.5	57.3	96	36	45	47	48	76	62	74	.313	.329	.348	3.79	.93	6.2	6.6	5.7	6.4
October	29.229	29.830	28.630	43.2	49.7	46.6	53.5	39.8	46.6	75	30	36	37	38	74	64	75	.213	.230	.238	4.53	2.44	7.3	6.6	6.0	7.0
November	29.154	29.670	28.340	28.2	31.8	29.2	36.5	24.3	30.4	58	0	22	23	22	76	70	74	.125	.134	.129	1.38	.29	7.7	8.2	7.6	8.1
December	29.200	29.770	28.350	20.4	22.2	22.0	26.8	16.7	21.8	42	5	17	18	19	87	83	86	.095	.097	.101	3.47	.72	9.4	9.6	8.2	9.4
Year	29.184	29.830	28.180	37.8	43.2	40.5	47.9	32.7	40.3	96	−14	30	32	32	76	67	74	.207	.218	.224	33.22	2.44	6.5	6.8	6.0	6.7

MEDFORD, OREG.

[ϕ=42° 23′ N.; λ=122° 52′ W.]

January	28.567	28.930	28.100	30.1	37.6	38.5	42.4	27.3	34.8	54	14	28	31	32	92	78	79	0.156	0.173	0.183	1.47	0.67	4.5	5.5	6.7	7.3
February	28.638	28.980	28.170	28.0	44.5	49.0	51.7	24.9	38.3	63	13	25	28	27	86	53	43	.136	.161	.151	.24	.13	3.9	4.5	4.4	4.4
March	28.558	28.870	27.990	36.5	52.4	55.4	58.6	33.0	45.8	76	22	32	36	34	85	53	47	.184	.212	.200	.93	.57	6.1	6.9	7.6	7.0
April	28.482	28.780	28.120	37.4	54.5	55.6	59.7	35.5	47.6	79	27	34	36	34	86	51	48	.194	.214	.202	1.54	.42	6.2	7.5	6.9	7.6
May	28.520	28.810	28.160	42.0	67.8	70.9	75.2	40.7	58.0	91	31	37	38	39	83	34	34	.223	.232	.246	.41	.18	3.9	3.4	4.3	3.8
June	28.462	28.830	28.118	49.0	72.7	74.8	78.6	48.1	63.4	97	36	46	52	51	89	51	48	.309	.398	.384	2.54	.91	5.0	4.6	4.5	4.7
July	28.479	28.740	28.240	52.2	82.6	87.0	89.3	51.2	70.2	98	42	46	55	55	81	39	34	.317	.432	.436	0	0	1.8	.9	1.2	1.2
August	28.466	28.660	28.280	52.0	82.7	88.1	90.9	50.3	70.6	102	45	45	53	54	77	37	32	.298	.407	.418	0	0	.4	.4	.9	.8
September	28.438	28.590	28.210	43.6	74.4	76.3	81.8	41.1	61.4	99	31	37	43	44	79	34	32	.226	.276	.294	T.	T.	.9	1.3	2.4	2.0
October	28.563	28.790	28.320	41.1	64.6	65.2	71.7	37.9	54.8	82	25	38	46	44	89	53	49	.237	.321	.301	1.14	.71	2.7	2.6	2.4	3.1
November	28.725	29.050	28.485	29.1	50.7	55.4	59.8	24.7	42.2	80	16	26	37	34	87	60	46	.140	.220	.198	.02	.01	1.3	2.6	2.7	3.0
December	28.586	28.966	27.963	36.4	44.5	46.0	49.1	33.1	41.1	71	18	36	39	42	96	84	85	.213	.247	.267	6.45	1.70	6.3	7.1	6.7	7.8
Year	28.540	29.050	27.963	39.8	60.8	63.5	67.4	37.3	52.4	102	13	36	41	41	86	52	48	.219	.274	.272	14.74	1.70	3.6	3.9	4.2	4.4

Annual meteorological summary for the year ending December 31, 1929—Continued

MACON, GA.

[H_b=370 ft.; h_t=78 ft.; h_r= 71 ft.; h_a=87 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp. 32° or below	Maximum temp. 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	5.9	NW.	23	S.	0	12	6	3	1	14	5	5	16	0	12	5	14	11	10	0	0	0	5	0	0	12	0	0
February	5.5	NW.	26	NW.	0	9	9	10	2	5	1	1	16	3	6	8	14	13	11	0	0	0	2	0	0	8	3	0
March	6.7	S.	26	SW.	0	4	4	7	10	10	9	4	11	3	9	12	10	7	7	0	0	0	0	0	0	1	0	3	0
April	5.9	S.	27	NW.	0	5	0	4	7	19	8	4	12	1	9	12	9	9	6	0	0	1	0	0	0	0	0	6	0
May	5.6	S.	31	SW.	0	4	5	9	9	19	6	3	6	1	11	6	14	10	8	0	0	0	0	0	0	1	0	6	0
June	4.4	S.	22	NE.	0	7	5	3	6	19	10	3	5	2	8	12	10	10	9	0	0	0	2	0	9	0	11	0
July	4.1	S.	22	N.	0	2	9	6	11	10	11	3	7	3	3	17	11	14	7	0	0	0	1	0	16	0	15	0
August	4.4	S.	24	NW.	0	6	8	7	4	15	8	5	6	3	6	22	3	9	6	0	0	0	2	0	19	0	12	0
September	5.3	NE.	20	SE.	0	6	19	15	4	6	3	1	5	1	3	14	13	12	10	0	0	0	0	0	3	0	4	0
October	6.0	NE.	35	NE.	1	14	13	8	2	1	2	9	9	4	18	5	8	7	3	0	0	0	1	0	0	0	0	0
November	5.1	NW.	25	NE.	0	11	9	8	2	8	6	4	9	3	7	7	16	12	7	0	0	0	0	0	0	2	1	0
December	4.8	NW.	19	NW.	0	5	3	3	0	9	8	10	15	9	14	6	11	6	6	1	0	0	4	0	0	14	2	0
Year	5.3	S.	35	NE.	1	85	90	83	58	135	77	52	117	33	106	126	133	120	90	1	0	1	17	0	49	36	63	0

MADISON, WIS.

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

January	7.5	NW.	30	W.	0	5	5	0	8	3	10	13	18	0	10	9	12	20	13	22	20	0	0	28	0	31	0	1
February	6.4	NW.	27	SW.	0	12	4	3	5	6	6	7	13	0	8	7	13	7	4	13	7	0	1	25	0	28	0	2
March	9.3	SW.	31	NW.	0	7	7	3	3	15	9	8	10	0	9	6	16	9	5	4	2	0	0	8	3	0	17	3	3
April	9.4	NE.	30	NE.	0	7	12	2	8	7	10	6	8	0	10	6	14	14	10	3	1	0	0	0	0	1	5	1
May	7.6	NW.	26	S.	0	8	6	2	9	10	5	6	16	0	11	8	12	10	7	0	0	0	0	0	0	1	7	0
June	6.8	NE.	23	NE.	0	6	12	5	4	10	7	10	6	0	9	10	11	11	9	0	0	1	0	0	0	0	8	0
July	6.2	S.W.	28	NW.	0	3	2	4	8	9	17	14	5	0	15	11	5	9	9	0	0	0	0	0	2	0	8	1
August	5.7	S.	22	NW.	0	5	7	4	6	15	8	4	11	2	13	13	5	6	5	0	0	0	0	0	1	0	4	0
September	7.0	S.	22	S.	0	4	8	3	10	18	5	6	5	1	11	13	6	8	8	0	0	0	1	0	2	0	4	3
October	8.3	NW.	27	NE.	0	8	4	7	8	6	9	11	9	0	13	5	13	11	9	2	2	0	4	0	0	0	0	0
November	9.0	W.	26	NE.	0	5	6	1	3	7	14	11	13	0	11	9	10	4	2	8	2	0	2	8	0	19	0	3
December	8.1	W.	34	N.	2	9	6	5	4	6	10	15	7	0	4	7	20	13	3	12	8	0	4	17	0	31	0	5
Year	7.6	NW.	34	N.	2	79	79	39	76	112	110	111	121	3	124	104	137	122	84	64	42	1	18	81	5	128	39	19

MARQUETTE, MICH.

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

January	10.4	W.	42	NW.	4	2	1	2	3	3	4	25	22	0	7	11	13	14	11	18	14	0	0	31	0	31	0	0
February	7.0	NW.	29	SW.	0	6	2	5	2	2	6	12	21	0	5	8	15	13	7	20	13	0	0	27	0	28	0	1
March	9.3	W.	36	NW.	3	11	1	7	3	11	9	12	7	1	5	4	22	16	12	18	13	0	3	9	0	26	0	0
April	8.4	N.	34	W.	1	13	1	11	7	3	6	5	14	0	10	6	14	11	8	7	5	0	2	1	0	15	1	1
May	10.7	NW.	37	SW.	3	7	4	2	3	7	12	10	17	0	9	8	14	10	6	6	4	0	0	0	1	7	2	0
June	7.7	N.	27	W.	0	14	7	5	0	7	9	7	10	1	5	10	15	12	9	0	0	1	1	0	0	0	3	0
July	9.1	W.	29	S.	0	13	1	1	1	9	9	17	11	0	11	15	5	13	10	0	0	0	2	0	1	0	5	0
August	8.9	N.	29	N.	0	26	1	0	0	1	15	8	11	0	8	12	11	8	7	0	0	0	2	0	1	0	4	0
September	10.2	NW.	37	SW.	1	11	3	1	4	5	11	9	16	0	6	10	14	15	12	0	0	1	0	0	2	0	3	0
October	10.3	NW.	35	SW.	1	9	2	7	4	6	2	13	19	0	7	6	18	11	7	2	1	0	2	0	0	3	0	0
November	10.4	W.	34	SW.	1	2	3	1	1	10	10	21	12	0	2	9	19	15	10	15	12	0	1	10	0	18	0	0
December	8.9	W.	30	W.	0	5	1	4	7	11	12	15	7	0	0	2	29	23	17	26	21	0	0	26	0	31	0	0
Year	9.3	W.	42	NW.	14	119	27	46	35	75	105	154	167	2	75	101	189	161	116	112	83	2	13	104	5	159	18	2

MEDFORD, OREG.

[H_b=1,424 ft.; h_t=29 ft.; h_r=26 ft.; h_a=58 ft.]

January	------	SE.	19	NW.	0	13	3	0	16	7	4	7	10	2	5	7	19	13	9	9	3	0	13	4	0	25	0	0
February	------	SE.	22	SE.	0	5	6	4	22	4	1	0	14	0	14	6	8	6	2	1	0	0	2	0	0	22	0	0
March	------	NW.	27	SE.	0	7	3	2	10	5	7	5	21	2	1	16	14	7	5	3	2	1	1	0	0	15	0	0
April	------	N.	23	SW.	0	13	2	4	11	1	5	11	12	1	4	7	19	13	10	5	4	1	0	0	0	10	0	0
May	------	NW.	19	NE.	0	8	4	0	20	2	2	3	22	1	17	9	5	5	3	0	0	1	0	0	1	1	0	0
June	------	NW.	20	SW.	0	9	4	1	14	2	3	3	24	0	13	5	12	9	8	0	0	1	0	0	5	0	2	0
July	------	NW.	18	NW.	0	6	0	1	16	8	2	0	26	3	27	2	2	0	0	0	0	0	0	0	13	0	1	0
August	------	NW.	19	NW.	0	4	0	2	19	9	0	2	26	0	28	3	0	0	0	0	0	0	0	0	17	0	0	0
September	------	SE.	15	N.	0	8	5	1	16	12	0	1	16	1	21	6	3	0	0	0	0	0	0	0	7	2	0	0
October	------	SE.	19	N.	0	6	4	2	20	10	4	6	8	2	20	4	7	6	5	0	0	0	2	0	0	4	3	0
November	------	S.	16	SE.	0	3	1	2	3	23	3	9	7	9	19	9	2	2	0	0	0	0	10	1	0	28	0	0
December	------	S.	27	SE.	0	8	3	2	7	10	8	8	6	8	5	5	21	15	11	0	0	0	10	1	0	13	0	0
Year	------	NW.	27	SE.	0	90	37	21	174	93	39	55	192	29	174	79	112	76	53	18	9	7	29	5	43	120	6	0

*By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1929—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	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.682	30.100	29.060	36.4	41.7	41.9	49.5	31.3	40.4	72	16	31	31	32	79	66	69	0.190	0.198	0.263	3.95	1.14	5.6	6.6	6.4	6.4
February	29.676	30.130	29.090	32.4	38.2	39.2	43.3	30.6	37.0	68	15	27	28	28	79	66	67	.152	.160	.166	3.48	1.91	6.5	6.5	6.7	6.6
March	29.543	30.080	29.120	50.4	57.6	59.6	63.8	48.6	56.2	86	29	42	43	45	75	60	60	.294	.299	.318	3.63	.90	6.0	5.9	5.1	5.9
April	29.509	29.950	29.120	59.1	65.6	67.4	71.6	56.9	64.2	83	47	51	52	52	76	65	62	.391	.414	.410	8.50	1.65	6.2	6.6	5.6	6.3
May	29.611	29.890	28.980	63.5	71.0	72.4	77.4	60.1	68.8	92	44	57	59	61	81	68	68	.495	.524	.549	4.88	1.61	7.0	6.8	6.4	6.7
June	29.535	29.710	29.310	72.1	81.0	81.9	85.2	69.5	77.4	92	55	64	65	64	75	59	57	.599	.627	.615	1.60	1.14	4.1	6.1	4.5	4.7
July	29.617	29.800	29.390	75.6	84.9	84.0	89.1	73.3	81.2	93	67	69	70	69	80	61	62	.712	.730	.722	5.77	5.42	4.2	5.1	6.0	5.1
August	29.589	29.760	29.380	71.9	82.4	82.8	86.9	70.2	78.6	95	60	65	66	67	78	60	60	.625	.663	.675	4.45	1.11	2.3	2.6	3.8	2.9
September	29.585	29.790	29.383	67.1	77.4	76.1	81.6	65.9	73.8	91	51	62	63	63	84	62	66	.571	.588	.595	1.62	1.24	5.8	6.0	4.4	5.5
October	29.624	29.920	29.250	55.7	67.0	65.4	71.0	55.0	63.0	81	39	50	53	54	82	64	68	.377	.419	.428	6.88	3.18	4.0	4.3	3.8	4.1
November	29.709	30.130	29.240	44.4	49.5	48.9	54.1	41.9	48.0	74	20	39	40	41	81	70	74	.258	.266	.274	3.33	1.02	7.8	6.7	5.7	6.5
December	29.726	30.190	29.200	40.7	46.5	48.0	52.2	38.5	45.4	70	12	35	39	40	79	75	74	.246	.286	.287	3.25	1.00	5.5	6.0	4.7	5.7
Year	29.617	30.190	28.980	55.8	63.6	64.0	68.8	53.5	61.2	95	12	49	51	51	79	65	66	.409	.431	.437	51.34	5.42	5.4	5.8	5.3	5.5

MERIDIAN, MISS.

[ϕ=32° 21′ N.; λ=88° 40′ W.]

January	29.715	30.090	29.270	44.0	54.6	52.1	60.5	39.1	49.8	79	20	40	40	41	84	59	67	0.277	0.285	0.296	6.44	1.46	5.5	4.9	5.1	5.3
February	29.672	30.100	29.200	39.7	48.5	48.7	55.0	36.5	45.8	76	22	35	36	38	84	64	68	.224	.229	.247	5.75	1.47	6.6	7.1	6.0	6.8
March	29.596	30.030	29.110	53.4	65.8	65.1	71.0	50.5	60.8	93	33	47	45	47	80	51	55	.359	.334	.352	13.70	3.55	6.0	5.5	5.0	5.4
April	29.585	30.000	29.170	61.6	73.3	70.3	77.2	58.1	67.6	85	45	56	52	54	82	50	60	.470	.410	.447	2.73	.94	6.7	5.0	5.1	5.6
May	29.654	29.930	29.140	67.3	77.6	74.3	81.4	63.7	72.6	92	44	62	61	63	85	58	70	.587	.559	.599	5.55	3.21	6.6	6.0	5.6	6.4
June	29.574	29.800	29.350	72.6	83.1	81.0	86.5	67.4	77.0	93	58	68	66	67	85	57	64	.681	.641	.675	5.88	2.69	4.1	5.2	4.6	4.7
July	29.671	29.850	29.370	74.6	85.8	81.4	89.4	71.0	80.2	94	66	70	69	70	86	58	70	.734	.691	.749	2.24	.95	4.3	4.5	6.4	4.8
August	29.614	29.788	29.400	72.9	87.8	83.6	91.3	69.6	80.4	96	59	67	65	67	83	47	58	.677	.625	.667	.79	.56	3.5	2.5	3.8	3.1
September	29.590	29.780	29.318	68.9	79.1	76.0	83.1	67.0	75.0	91	52	65	65	67	88	64	74	.635	.635	.662	4.86	1.61	6.4	6.0	4.8	5.0
October	29.649	29.950	29.310	55.8	71.6	66.3	74.5	53.4	64.0	83	37	51	51	53	86	50	64	.392	.396	.428	1.82	.65	3.9	3.8	3.3	3.7
November	29.721	30.070	29.350	49.4	56.9	54.0	60.8	46.8	53.8	83	21	46	44	46	88	65	74	.348	.337	.352	11.65	5.00	6.7	6.2	5.8	6.4
December	29.793	30.160	29.220	39.6	52.4	49.3	57.5	36.4	47.0	78	12	36	38	38	87	58	66	.248	.266	.270	2.39	.58	3.0	4.7	3.5	4.6
Year	29.653	30.160	29.110	58.3	69.7	66.8	74.0	55.0	64.5	96	12	54	53	54	85	57	66	.469	.451	.479	63.80	5.00	5.3	5.1	5.0	5.2

MIAMI, FLA.

[ϕ=25° 48′ N.; λ=80° 12′ W.]

January	30.076	30.270	29.830	68.7	74.3	71.0	75.6	65.1	70.4	83	46	63	63	63	82	70	77	0.587	0.591	0.596	1.03	0.81	4.1	5.4	4.5	5.3
February	30.028	30.210	29.780	68.1	76.0	73.1	77.3	66.0	71.6	82	47	63	64	66	84	68	78	.589	.611	.644	.44	.15	4.6	5.5	5.0	5.3
March	30.032	30.230	29.790	70.3	77.1	73.8	78.9	66.9	72.9	85	48	64	64	65	81	66	76	.618	.628	.642	5.31	3.54	4.5	5.4	4.7	5.3
April	30.012	30.340	29.610	74.7	79.4	75.9	81.1	70.3	75.7	86	56	65	64	66	71	60	70	.619	.604	.636	3.24	1.95	3.5	4.7	4.1	4.3
May	30.055	30.230	29.840	78.5	81.0	78.2	82.5	73.9	78.2	87	67	69	69	70	73	68	76	.712	.716	.733	6.96	2.68	4.8	6.1	5.9	5.8
June	29.968	30.160	29.760	79.6	82.5	78.9	84.8	73.9	79.4	90	68	72	71	72	77	70	80	.784	.767	.782	5.61	1.95	5.1	7.5	8.4	7.3
July	30.060	30.240	29.890	81.4	83.7	79.2	86.2	74.0	80.1	91	66	72	73	71	74	70	77	.793	.799	.761	9.36	2.13	5.1	6.0	5.6	5.8
August	29.988	30.110	29.820	81.7	85.2	81.5	87.1	76.5	81.8	90	71	73	73	73	75	68	76	.807	.810	.812	5.51	1.31	4.8	5.8	5.9	5.7
September	29.892	30.050	29.380	80.1	84.0	79.9	86.2	75.9	81.0	89	71	73	73	73	81	70	80	.821	.813	.821	16.82	10.58	7.3	7.7	7.0	7.6
October	29.941	30.090	29.590	74.2	78.6	75.1	80.3	70.1	75.2	88	60	67	68	68	80	71	78	.678	.696	.686	20.18	4.72	6.3	6.8	6.0	6.6
November	30.016	30.150	29.850	73.9	79.4	75.7	80.4	71.6	76.0	84	59	67	67	67	80	67	76	.664	.673	.673	.89	.38	3.8	5.3	3.4	4.7
December	30.098	30.310	29.770	66.0	71.9	69.2	74.4	62.8	68.6	82	44	60	62	61	81	72	75	.548	.574	.560	9.03	5.31	6.9	6.6	6.4	6.7
Year	30.014	30.340	29.380	74.8	79.4	76.0	81.2	70.6	75.9	91	44	67	68	68	78	68	77	.685	.690	.695	84.38	10.58	5.1	6.1	5.6	5.9

MILES CITY, MONT.

[ϕ=46° 25′ N.; λ=105° 49′ W.]

January	27.512	28.026	26.800	0.1	7.1	6.2	14.1	−8.1	3.0	43	−38	−2	0	2	89	71	80	0.049	0.053	0.053	0.90	0.16	6.3	5.9	5.8	6.2
February	27.498	27.910	26.980	3.6	14.3	13.8	20.0	−2.4	8.8	39	−33	1	7	9	89	72	81	.051	.065	.071	.38	.20	5.6	7.1	6.1	6.3
March	27.320	27.720	26.830	29.6	41.0	41.9	45.6	27.8	36.7	71	14	25	27	28	82	59	59	.134	.147	.153	1.72	.71	5.2	6.8	6.0	6.0
April	27.352	27.700	26.720	35.6	51.2	52.6	56.0	33.4	44.7	74	16	25	26	26	74	40	40	.155	.143	.144	.70	.24	5.1	5.6	7.0	6.0
May	27.468	27.890	26.970	43.7	60.5	62.9	65.5	41.1	53.3	92	26	35	32	31	73	38	35	.212	.194	.187	2.24	.91	3.4	4.7	4.9	4.5
June	27.388	27.690	26.750	56.2	71.0	71.5	76.3	52.5	64.4	96	42	48	45	46	76	44	45	.347	.316	.317	2.94	1.20	3.0	3.8	4.9	4.1
July	27.441	27.690	27.100	64.4	84.3	85.5	90.0	61.9	76.0	106	46	49	46	47	60	29	31	.366	.324	.343	.70	.24	2.4	2.5	3.4	2.7
August	27.471	27.750	27.200	62.7	84.3	86.9	90.6	60.9	75.8	100	52	47	46	44	59	29	24	.335	.320	.304	.28	.08	3.3	3.1	2.8	3.0
September	27.499	27.840	27.000	46.8	61.4	62.5	66.2	44.6	55.4	100	33	39	38	38	76	45	48	.241	.230	.230	1.86	1.18	4.7	5.7	5.3	5.3
October	27.542	28.110	26.970	40.3	57.5	55.7	62.7	37.8	50.2	81	26	33	34	35	77	46	50	.193	.195	.208	1.05	.40	3.8	3.5	3.8	3.6
November	27.593	28.210	27.080	27.4	36.9	34.1	40.9	22.7	31.8	62	−4	22	24	24	80	60	65	.119	.130	.128	.49	.23	5.8	7.1	5.7	6.7
December	27.529	28.230	27.050	13.2	21.7	20.4	27.4	8.0	17.7	51	−27	10	14	15	85	70	78	.074	.088	.092	.53	.21	5.1	4.6	4.7	5.0
Year	27.468	28.230	26.720	35.3	49.3	49.5	54.6	31.7	43.2	106	−38	28	28	29	77	50	53	.189	.184	.186	13.79	1.20	4.5	5.0	5.1	5.0

Annual meteorological summary for the year ending December 31, 1929—Continued

MEMPHIS, TENN.

[H_b=399 ft.; h_t=76 ft.; h_r=69 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	Maximum temperature: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	7.5	E.	34	W.	1	8	12	10	5	6	12	4	5	0	9	5	17	9	8	2	0	0	2	1	0	18	2	0
February	6.1	N.	42	W.	1	13	15	12	1	5	7	2	1	0	8	5	15	10	7	3	3	1	0	4	0	14	1	0
March	7.7	SW.	46	W.	1	7	8	9	6	14	10	5	3	0	9	10	12	14	12	0	0	0	1	0	0	1	4	0
April	7.6	S.	36	W.	1	6	0	9	8	15	12	3	6	1	7	6	17	13	12	0	0	0	1	0	0	0	11	0
May	6.9	SW.	37	W.	1	9	8	10	7	11	14	2	1	0	5	9	17	14	10	0	0	0	0	0	1	0	9	0
June	6.0	SW.	36	N.	1	10	6	6	3	12	14	6	2	1	10	17	3	4	4	0	0	0	1	0	0	8	3	0
July	5.8	SW.	27	NW.	0	5	7	9	8	9	23	1	0	0	8	18	5	5	4	0	0	0	0	0	16	0	9	0
August	5.0	E.	20	N.	0	4	20	9	4	4	14	3	3	1	20	9	2	5	5	0	0	0	1	0	9	0	7	0
September	4.7	E.	18	SW.	0	6	16	16	7	0	8	2	0	5	6	15	9	8	4	0	0	0	0	0	3	0	4	0
October	5.8	E.	25	N.	0	7	12	14	6	3	10	7	3	0	16	7	8	7	5	0	0	0	0	0	0	0	2	0
November	6.5	SW.	24	N.	0	13	12	6	5	6	10	5	3	0	6	6	18	14	12	2	2	0	0	0	0	6	1	0
December	7.8	SW.	29	N.	0	7	6	2	3	15	21	5	3	0	11	6	14	9	8	5	5	0	6	4	0	12	2	0
Year	6.4	SW.	46	W.	6	95	122	112	63	100	155	45	30	8	115	113	137	112	91	12	10	3	10	9	37	51	55	0

MERIDIAN, MISS.

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

January	5.7	SW.	22	W.	0	8	10	8	7	8	8	5	8	0	11	9	11	12	10	0	0	0	1	0	0	13	1	0
February	5.1	NE.	21	S.	0	10	14	9	6	5	2	2	8	0	6	6	16	14	11	0	0	0	1	0	0	10	3	0
March	6.3	SW.	28	W.	0	7	4	4	15	10	13	4	4	1	9	14	8	10	10	0	0	1	1	0	1	0	9	0
April	6.1	S.	29	W.	0	2	6	7	10	14	7	5	8	1	9	11	10	10	9	0	0	0	0	0	0	0	11	0
May	5.4	S.	25	W.	0	6	6	5	13	12	11	4	2	3	6	9	16	11	10	0	0	0	0	0	1	0	14	0
June	4.2	SW.	22	NW.	0	6	2	11	5	12	7	9	5	3	10	15	5	10	7	0	0	0	1	0	7	0	11	0
July	4.2	SW.	20	N.	0	2	3	15	8	6	20	6	2	0	11	15	5	12	9	0	0	0	0	0	12	0	12	0
August	3.7	SW.	23	E.	0	7	8	4	9	5	15	7	4	3	18	11	2	5	4	0	0	0	0	0	23	0	9	0
September	4.9	NE.	20	NE.	0	7	20	11	6	7	4	0	2	3	7	13	10	10	8	0	0	0	1	0	3	0	4	0
October	4.9	NE.	28	SE.	0	10	12	10	7	4	4	4	6	5	17	6	8	9	5	0	0	0	0	0	0	0	2	0
November	5.0	N.	20	N.	0	16	10	7	5	7	2	7	5	1	8	5	17	15	11	0	0	0	0	0	2	0	6	0
December	4.7	SW.	19	NW.	0	6	4	2	5	9	15	5	8	8	14	7	10	9	8	4	2	0	10	3	0	13	2	0
Year	5.0	SW.	29	W.	0	87	99	93	96	99	108	58	62	28	126	121	118	127	102	4	2	1	15	3	47	38	84	0

MIAMI, FLA.

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

January	9.9	E.	26	NE.	0	9	5	16	12	11	1	3	5	0	10	12	9	4	4	0	0	0	0	0	0	0	0	0
February	9.7	S.	23	S.	0	7	4	9	8	20	0	4	4	0	8	13	7	8	5	0	0	0	0	0	0	0	1	0
March	10.7	SE.	41	SW.	1	10	4	17	12	11	4	1	3	0	11	10	10	11	6	0	0	0	0	0	0	0	2	0
April	10.2	E.	36	S.	1	5	3	19	8	17	2	6	0	0	12	15	3	7	6	0	0	0	0	0	0	0	5	0
May	10.5	E.	31	S.	0	2	5	37	9	7	1	0	1	0	6	18	7	17	9	0	0	0	0	0	0	0	6	0
June	7.9	SE.	38	S.	1	2	2	13	20	12	5	4	1	1	1	16	13	22	16	0	0	0	0	0	1	0	14	0
July	7.5	E	37	S.	2	3	2	31	9	9	4	2	2	0	6	15	10	15	14	0	0	0	0	0	1	0	22	0
August	8.0	E.	26	SW.	0	3	2	20	9	14	5	5	4	0	7	17	7	18	14	0	0	0	0	0	2	0	10	0
September	9.9	E.	56	E.	2	6	9	19	11	4	2	1	8	0	1	9	20	18	17	0	0	0	0	0	0	0	14	0
October	9.1	E.	31	NE.	0	16	9	19	6	3	1	3	5	0	7	8	16	17	15	0	0	0	0	0	0	0	2	0
November	8.9	E.	25	E.	0	12	8	24	9	2	1	2	1	1	10	14	6	9	4	0	0	0	1	0	0	0	0	0
December	10.5	E.	28	E.	0	13	8	20	5	7	2	0	7	0	5	12	14	14	11	0	0	0	0	0	0	0	2	0
Year	9.4	E.	56	E.	7	88	61	244	118	117	28	31	41	2	84	159	122	160	121	0	0	0	1	0	4	0	78	0

MILES CITY, MONT.

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

January	5.4	S.	33	NW.	1	9	13	3	1	14	5	5	10	2	10	5	16	16	8	21	16	0	0	24	0	31	0	0
February	5.1	S.	24	NW.	0	8	4	5	0	9	9	10	9	2	8	4	16	10	2	16	10	0	0	20	0	28	0	0
March	7.1	S.	33	NW.	1	14	1	2	1	21	4	11	6	2	7	14	10	13	10	10	8	0	0	2	0	25	0	0
April	6.7	S.	34	NW.	1	13	5	5	4	7	2	7	9	8	6	14	10	9	6	3	3	1	1	0	0	12	0	0
May	4.9	NE.	29	NW.	0	7	10	3	8	12	2	3	7	10	12	12	7	9	7	1	0	1	0	0	1	4	3	0
June	4.5	S.	33	W.	1	4	4	1	7	10	8	5	5	16	15	12	3	9	8	0	0	0	0	0	2	0	9	0
July	4.8	S.	29	N.	0	4	13	3	5	16	3	3	7	8	21	7	3	9	5	0	0	0	0	0	19	0	5	0
August	4.4	S.	24	NW.	0	8	12	7	7	8	4	4	4	8	18	11	2	6	4	0	0	0	0	0	15	0	6	0
September	4.5	NW.	29	NW.	0	7	6	4	4	8	2	3	13	13	13	6	11	9	7	0	0	0	0	0	2	0	3	0
October	3.9	S.	28	N.	0	4	9	4	0	16	3	3	6	17	16	9	6	5	5	4	3	0	1	0	0	5	0	0
November	6.3	S.	26	NW.	0	5	4	2	0	15	9	14	9	2	8	16	6	8	5	11	7	0	0	5	0	28	0	0
December	5.2	S.	28	N.	0	4	13	6	1	18	3	9	5	3	12	10	9	7	5	11	6	0	1	18	0	31	0	2
Year	5.2	S.	34	NW.	4	87	94	45	38	154	54	77	90	91	146	110	109	110	72	77	53	4	3	69	39	164	26	2

Annual meteorological summary for the year ending December 31, 1929—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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.294	29.790	28.390	9.9	15.2	14.3	21.6	3.2	12.4	42	−18	6	10	9	82	78	76	0.063	0.075	0.070	3.00	0.84	6.4	6.0	4.8	5.8
February	29.343	29.830	28.630	14.9	21.3	21.0	25.9	12.0	19.0	42	−9	10	15	14	81	74	74	.075	.090	.090	.96	.31	5.6	6.2	5.8	6.3
March	29.151	29.830	28.320	33.8	40.9	39.8	46.5	29.6	38.0	65	1	27	30	30	76	66	69	.162	.172	.173	3.32	1.64	5.3	5.4	5.9	6.2
April	29.154	29.550	28.540	44.5	49.4	48.3	55.2	39.8	47.5	83	26	37	38	38	75	66	68	.234	.245	.246	5.26	2.42	6.0	6.2	5.7	6.1
May	29.315	29.760	28.700	50.1	56.8	54.6	62.6	43.3	53.0	87	33	40	40	40	70	55	60	.275	.274	.270	2.01	.86	4.8	4.9	5.1	5.2
June	29.229	29.520	28.806	59.4	66.2	63.8	71.5	53.0	62.2	88	42	49	49	50	76	57	62	.369	.363	.373	3.42	.89	4.8	5.3	4.3	4.9
July	29.283	29.630	28.935	68.5	75.3	74.3	81.1	63.1	72.1	92	53	58	58	60	71	58	62	.497	.495	.531	1.83	1.02	2.8	4.6	3.9	4.0
August	29.309	29.590	28.910	64.4	73.5	71.0	77.5	61.6	69.6	90	50	56	56	56	74	55	62	.459	.455	.465	.35	.14	3.9	4.6	4.4	4.6
September	29.327	29.670	28.880	57.9	66.0	63.9	69.9	54.7	62.3	93	37	51	50	51	78	58	65	.384	.375	.387	3.15	1.17	5.2	5.4	3.8	4.9
October	29.295	29.780	28.647	46.9	54.7	52.7	58.1	44.5	51.3	79	32	39	40	42	77	61	67	.245	.256	.271	2.46	.94	6.4	6.4	4.6	6.0
November	29.307	29.830	28.590	30.6	37.6	35.5	40.2	27.3	33.8	54	−4	24	26	26	77	61	67	.147	.155	.156	.78	.58	4.4	5.5	4.7	5.2
December	29.255	29.759	28.660	24.8	29.2	29.3	32.9	21.9	27.4	51	3	21	24	24	84	78	80	.119	.133	.134	1.08	.72	8.4	8.5	6.9	8.5
Year	29.272	29.830	28.320	42.1	48.8	47.4	53.6	37.8	45.7	93	−18	35	36	37	76	64	68	.252	.257	.264	27.62	2.42	5.3	5.8	5.0	5.6

MINNEAPOLIS, MINN.

[ϕ=44° 59′ N.; λ=93° 18′ W.]

January	29.069	29.510	28.390		4.9	5.0	10.1	−6.2	2.0	37	−24		−2	0		72	76		0.042	0.044	1.60	0.43		6.3	4.9	5.9
February	29.091	29.520	28.490		13.1	14.1	17.9	3.1	10.5	35	−20		7	8		74	74		.061	.064	1.05	.46		7.6	7.2	7.9
March	28.852	29.560	28.240		37.3	37.0	42.2	26.1	34.2	60	−3		25	27		63	67		.143	.153	1.31	.36		6.6	5.7	6.5
April	28.872	29.260	28.180		52.0	51.4	56.1	37.5	46.8	78	21		33	35		52	57		.202	.219	1.62	.66		6.2	7.2	6.8
May	29.023	29.440	28.620		60.0	60.1	64.6	45.1	54.8	89	29		35	36		42	44		.242	.256	1.91	.65		5.2	4.7	4.7
June	28.919	29.310	28.553		71.6	72.4	75.7	55.6	65.6	92	42		48	50		46	48		.360	.390	4.21	2.23		6.1	5.5	5.8
July	28.973	29.270	28.540		79.9	79.3	84.1	64.0	74.0	97	53		57	57		48	49		.490	.486	3.33	1.90		4.3	4.2	4.2
August	29.017	29.310	28.710		77.0	76.7	81.1	60.8	71.0	92	51		53	56		45	50		.417	.460	2.15	.87		4.3	5.0	4.5
September	29.023	29.390	28.590		63.7	61.9	67.4	50.6	59.0	95	32		46	46		55	59		.324	.328	3.57	1.26		6.4	5.5	6.2
October	29.028	29.380	28.500		54.8	53.7	58.5	41.2	49.8	79	29		37	37		54	56		.234	.233	2.17	.79		5.0	5.7	5.5
November	29.052	29.660	28.382		32.0	31.0	36.0	21.9	29.0	55	−7		21	22		65	68		.124	.128	.36	.08		5.9	6.8	6.5
December	29.038	29.600	28.460		21.5	20.6	24.8	11.3	18.0	46	−13		15	16		76	82		.092	.097	.36	.19		6.4	6.1	6.5
Year	28.996	29.660	28.180		47.3	46.9	51.5	34.2	42.9	97	−24		31	32		58	61		.228	.238	23.64	2.23		5.9	5.7	5.9

MOBILE, ALA.

[ϕ=30° 41′ N.; λ=88° 02′ W.]

January	30.055	30.440	29.635	49.3	57.0	56.3	62.0	45.3	53.6	75	28	45	46	48	85	68	75	0.335	0.349	0.371	6.47	1.73	5.0	5.6	5.9	5.7
February	29.993	30.430	29.590	46.6	55.2	54.3	60.4	43.4	51.9	75	29	42	44	45	84	68	73	.294	.313	.326	9.13	2.52	7.6	7.7	6.9	7.2
March	29.951	30.300	29.510	58.2	67.4	64.4	71.4	55.9	63.6	89	40	52	53	55	82	63	75	.431	.440	.473	20.23	11.59	5.3	5.0	5.0	5.1
April	29.932	30.350	29.480	66.5	75.5	71.8	78.6	63.6	71.1	86	52	61	58	51	82	57	71	.556	.513	.554	3.58	1.49	6.1	4.4	5.3	5.2
May	29.997	30.250	29.480	71.1	78.7	74.9	81.6	67.9	74.8	94	51	67	66	67	87	65	77	.673	.651	.678	5.21	2.07	6.2	5.7	6.0	5.5
June	29.905	30.120	29.670	75.7	83.9	79.4	87.5	71.6	79.6	97	64	70	69	70	84	62	74	.748	.719	.743	11.83	5.98	4.0	5.6	6.7	5.8
July	30.001	30.144	29.700	77.1	86.2	81.0	89.1	74.1	81.6	96	71	72	71	72	84	62	74	.780	.763	.786	3.11	.97	4.4	5.9	7.0	5.7
August	29.941	30.130	29.750	76.3	86.9	81.4	90.3	73.5	81.9	93	68	72	70	72	86	58	74	.782	.738	.785	6.88	3.16	4.4	5.4	6.9	5.5
September	29.890	30.076	29.380	72.1	80.5	77.5	83.4	76.1	76.9	92	58	68	68	69	89	67	77	.714	.699	.726	5.26	1.75	5.7	6.4	6.3	6.0
October	29.968	30.230	29.510	61.5	74.0	69.9	77.1	59.6	68.4	86	45	55	54	57	80	53	66	.454	.452	.491	4.49	2.55	3.6	4.1	3.8	3.9
November	30.040	30.410	29.750	54.6	62.3	58.9	65.3	51.4	58.4	81	27	51	51	51	87	68	76	.414	.418	.419	8.23	2.49	7.2	6.3	6.7	6.1
December	30.139	30.470	29.520	44.6	54.9	51.5	59.3	40.9	50.1	76	21	41	42	42	86	63	71	.291	.312	.309	4.92	2.04	4.5	5.5	4.2	4.9
Year	29.984	30.470	29.380	62.8	71.9	68.4	75.5	59.8	67.7	97	21	58	58	59	85	63	74	.539	.531	.555	89.34	11.59	5.3	5.6	5.9	5.6

MODENA, UTAH

[ϕ=37° 48′ N.; λ=113° 54′ W.]

January	24.554	24.950	24.110	16.9	32.9	28.9	36.2	11.2	23.7	51	−23	13	20	20	84	59	68	0.078	0.107	0.105	1.29	1.08	3.6	5.5	5.3	5.1
February	24.553	24.920	24.100	16.4	32.9	32.1	36.5	11.0	23.8	52	−24	12	18	18	81	54	56	.084	.098	.099	.59	.42	4.0	4.2	3.5	4.6
March	24.529	24.850	23.822	28.8	47.8	48.8	52.0	25.5	38.8	68	10	22	20	19	75	35	33	.114	.110	.104	.68	.27	2.6	5.0	5.4	4.8
April	24.491	24.750	24.190	30.4	52.3	52.5	56.8	27.7	42.2	75	7	22	19	17	71	32	30	.118	.106	.097	.99	.40	4.1	5.7	5.9	5.4
May	24.554	24.830	24.140	40.6	68.5	68.6	72.3	38.0	55.2	83	26	22	20	20	40	16	17	.122	.109	.118	.09	.05	2.9	4.7	5.6	4.4
June	24.579	24.800	24.250	47.2	76.2	78.6	81.1	44.7	62.9	96	25	20	23	19	34	15	12	.113	.130	.108	.01	.01	2.3	2.9	2.6	2.7
July	24.663	24.830	24.470	56.1	83.1	82.3	88.0	56.8	72.4	96	50	40	42	43	66	28	30	.272	.288	.297	1.66	.43	3.4	5.9	6.3	5.4
August	24.712	24.860	24.600	57.5	81.0	80.2	85.3	56.1	70.7	93	52	49	50	48	75	39	36	.355	.385	.346	2.06	.69	2.8	5.2	5.8	4.6
September	24.591	24.790	24.394	46.6	71.8	71.7	76.0	44.1	60.0	88	32	31	40	34	63	34	29	.213	.257	.212	.49	.41	3.1	3.0	2.3	2.8
October	24.669	24.860	24.240	36.7	63.3	61.4	67.4	33.4	50.4	82	16	24	30	26	59	30	28	.136	.176	.152	.11	.07	1.1	3.0	3.1	2.4
November	24.741	24.980	24.400	20.9	49.2	44.3	54.0	17.0	35.5	68	1	6	17	12	54	28	27	.059	.094	.076	0	0	.6	1.1	1.0	.9
December	24.705	24.940	24.440	22.8	48.3	42.2	51.7	18.9	35.3	60	5	14	21	20	66	34	38	.080	.112	.102	.01	.01	2.3	3.8	4.6	3.6
Year	24.612	24.980	23.822	35.0	58.9	57.6	63.1	32.0	47.6	96	−24	23	27	25	64	34	34	.146	.164	.151	7.38	1.08	2.7	4.2	4.3	3.9

Annual meteorological summary for the year ending December 31, 1929—Continued

MILWAUKEE, WIS.

[H_b=681 ft.; h_t=125 ft.; h_r=117 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: Number of winds, 8 a. m. and 8 p. m.: Days with 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	13.6	W.	37	W.	6	6	0	2	6	0	9	18	21	0	10	10	11	18	12	24	17	0	0	25	0	31	0	0
February	11.4	NW.	37	W.	1	8	6	3	5	2	6	10	16	0	9	6	13	11	7	16	10	0	2	18	0	28	0	1
March	13.7	W.	41	NW.	8	8	5	4	2	7	13	14	9	0	7	11	13	9	5	5	2	0	5	2	0	14	3	2
April	13.6	N.	37	N.	6	16	5	4	5	6	12	9	3	0	9	9	12	15	13	2	0	3	1	0	0	2	7	0
May	11.4	W.	38	SW.	2	8	5	5	7	4	8	10	15	0	11	8	12	7	5	1	0	1	0	0	0	0	5	0
June	11.6	N.	37	W.	3	10	6	3	5	9	8	11	7	1	13	8	9	11	9	0	0	0	0	0	0	0	6	0
July	10.4	W.	37	W.	2	3	6	3	8	8	6	20	7	1	14	13	4	7	7	0	0	0	2	0	3	0	8	0
August	9.9	W.	29	SW.	0	8	9	2	7	9	10	10	6	1	13	11	7		6	0	0	0	1	0	1	0	5	0
September	12.0	SW.	33	SW.	1	7	8	7	4	11	9	8	6	0	13	5	12		6	0	0	0	0	0	2	0	4	0
October	14.5	W.	44	N.	3	11	3	6	7	4	7	14	10	0	11	6	14	12	9	2	1	0	3	0	0	0	0	0
November	13.0	W.	36	SW.	3	7	4	1	1	1	12	20	14	0	12	7	11	6	3	8	1	0	0	8	0	15	0	1
December	13.4	W.	38	N.	3	7	7	6	2	3	9	19	9	0	3	4	24	9	4	17	6	0	2	12	0	25	0	0
Year	12.4	W.	44	N.	38	99	64	46	59	64	109	163	123	3	125	96	142	118	86	75	37	4	16	65	6	115	38	4

MINNEAPOLIS, MINN.

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

January	9.6	NW.	38	NW.	2	4	1	0	5	4	2	4	11	0	10	5	16	17	8	22	17	0	1	30	0	31	0	0
February	8.9	W.	26	S.	0	3	1	0	5	4	0	11	4	0	2	7	19	12	5	18	12	0	0	27	0	28	0	0
March	10.8	NW.	41	NW.	3	4	4	0	3	11	0	4	5	0	6	9	16	9	6	7	4	0	3	3	0	23	1	2
April	10.7	S.	36	N.	3	3	7	3	4	6	2	2	3	0	5	9	16	13	10	5	4	0	1	0	0	7	3	0
May	11.0	S.	27	SE.	0	3	2	0	6	5	2	4	9	0	13	11	7	9	7	1	1	0	0	0	0	5	6	1
June	9.5	S.	36	W.	2	5	1	1	1	9	1	10	2	0	8	11	11	10	8	0	0	2	0	0	1	0	9	0
July	9.4	S.	38	NE.	2	4	2	0	2	11	5	6	1	0	14	12	5	8	7	0	0	0	0	0	9	0	9	0
August	8.6	S.	39	N.	1	8	1	1	4	9	2	5	1	0	11	13	7	7	7	0	0	1	0	0	1	0	7	0
September	10.1	S.	31	S.	0	10	1	0	2	10	1	2	4	0	8	8	14	12	8	0	0	1	0	0	2	0	1	0
October	10.6	S.	39	N.	3	4	3	2	4	4	4	5	5	0	12	7	12	9	7	3	2	0	0	0	0	5	1	0
November	10.7	NW.	33	NW.	1	4	0	0	2	5	2	10	7	0	7	8	15	9	5	13	7	0	0	8	0	22	0	0
December	10.2	NW.	34	NW.	1	2	2	2	1	6	2	6	10	0	6	10	15	7	2	11	6	0	1	22	0	30	0	0
Year	10.0	S.	41	NW.	18	54	25	9	39	84	23	69	62	0	102	110	153	122	80	80	53	3	7	90	13	151	37	3

MOBILE, ALA.

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

January	9.2	S.	39	W.	2	15	7	4	5	15	6	3	7	0	7	12	12	13	11	0	0	0	7	0	0	4	4	0
February	9.2	N.	27	NW.	0	19	13	5	4	7	3	1	4	0	3	7	18	16	13	0	0	0	0	0	0	2	4	0
March	10.2	S.	34	SW.	3	9	2	9	6	16	13	1	6	0	9	14	8	9	8	0	0	0	3	0	0	0	7	0
April	9.7	S.	26	NW.	0	7	3	8	8	13	10	4	7	0	9	11	10	8	8	0	0	0	1	0	0	0	8	0
May	9.7	S.	27	SE.	0	4	3	8	11	19	10	3	4	0	7	15	9	9	7	0	0	0	0	0	1	0	7	0
June	7.7	S.	34	SW.	1	10	5	5	5	13	12	3	7	0	3	17	10	12	12	0	0	2	0	0	9	0	16	0
July	7.1	E.	41	E.	1	3	7	9	10	4	15	6	8	0	4	19	8	15	13	0	0	0	0	0	13	0	17	0
August	6.0	SW.	35	NE.	2	10	7	7	2	2	11	13	10	0	9	13	9	12	11	0	0	0	0	0	18	0	15	0
September	9.0	N.	44	N.	1	21	9	9	7	6	4	0	3	1	7	11	12	12	11	0	0	0	0	0	4	0	8	0
October	9.1	N.	33	N.	1	19	5	3	8	5	5	5	12	0	16	8	7	6	5	0	0	0	1	0	0	0	3	0
November	9.5	N.	31	N.	0	20	10	3	6	7	4	2	8	0	8	7	15	13	12	0	0	0	0	0	0	2	4	0
December	8.2	N.	33	SE.	1	14	5	3	5	10	11	2	12	0	12	10	9	8	8	1	0	0	7	0	0	10	3	0
Year	8.7	N.	44	N.	12	151	76	73	77	117	104	43	88	1	94	144	127	133	119	1	0	2	19	0	45	18	96	0

MODENA, UTAH

[H_b=5,473 ft.; h_t=10 ft.; h_r=2 ft.; h_a=43 ft.]

January	8.2	SW.	30	S.	0	0	6	8	3	1	21	19	4	0	11	9	11	7	2	9	7	0	0	11	0	31	0	0
February	8.0	SW.	34	NW.	2	5	7	10	2	4	14	9	5	0	10	9	9	6	4	8	4	0	0	7	0	28	0	0
March	9.9	W.	58	SW.	3	4	4	8	6	4	16	17	3	0	11	10	10	5	4	9	5	2	1	0	0	26	2	0
April	10.8	W.	50	S.	7	2	3	5	2	4	15	24	4	1	8	12	10	8	5	8	6	2	0	0	0	22	1	0
May	10.0	W.	42	SW.	4	12	5	4	1	5	11	21	3	0	11	14	6	5	1	2	0	0	0	0	0	6	5	0
June	10.4	SW.	44	SW.	6	2	1	6	1	2	27	20	0	1	19	7	4	1	0	0	0	0	0	0	11	1	0	0
July	9.1	SW.	36	N.	1	2	3	7	1	2	21	25	1	0	11	9	11	8	6	0	0	0	0	0	14	0	11	0
August	7.2	W.	34	NW.	1	4	3	4	3	6	13	27	2	0	11	16	4	15	6	0	0	0	0	0	5	0	20	0
September	9.0	SW.	36	SW.	2	3	2	5	4	7	17	21	1	0	17	10	3	3	2	0	0	0	0	0	0	1	5	0
October	7.4	W.	36	W.	1	6	9	9	7	0	9	20	2	0	23	7	1	2	2	0	0	0	0	0	0	13	2	0
November	7.3	W.	36	N.	1	3	9	19	1	2	6	19	1	0	27	3	0	0	0	0	0	0	0	0	0	30	0	0
December	8.0	W.	30	SW.	0	1	2	16	1	0	18	23	0	1	16	9	6	1	0	2	1	0	0	0	0	30	0	0
Year	8.8	W.	58	SW.	28	44	54	101	32	37	188	245	26	3	175	115	75	61	32	38	23	4	1	18	30	188	46	0

Annual meteorological summary for the year ending December 31, 1929—Continued

MONTGOMERY, ALA.

[ϕ=32° 23′ N.; λ=86° 18′ W.]

Month	Pressure			Temperature								Moisture												
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.884	30.290	29.420	46.0	55.2	55.1	60.8	42.3	51.6	79	25	40	42	41	81	62	60	0.287	0.300	0.292	4.30	1.07	6.1	5.5	5.1	5.4
February	29.828	30.270	29.360	43.0	51.8	53.0	57.8	40.2	49.0	76	26	37	38	39	80	62	62	.243	.257	.265	10.34	5.12	6.6	7.0	6.1	6.8
March	29.780	30.200	29.280	55.3	65.5	66.1	71.0	52.7	61.8	90	35	48	53	51	78	67	61	.374	.442	.401	15.38	5.52	5.2	5.6	3.5	4.8
April	29.755	30.230	29.200	62.2	73.1	71.6	78.0	58.5	68.2	86	48	57	65	61	84	76	70	.484	.632	.538	7.56	2.57	6.1	5.2	5.0	5.0
May	29.831	30.140	29.272	68.2	77.7	75.6	81.8	63.8	72.8	93	49	63	65	63	84	66	68	.597	.629	.596	7.27	4.24	5.8	6.2	6.2	5.8
June	29.738	29.950	29.470	73.3	83.5	80.4	87.1	69.8	78.4	97	61	67	66	65	80	57	62	.662	.642	.633	4.68	2.92	5.0	6.0	5.7	5.1
July	29.835	30.020	29.540	75.6	85.8	81.8	89.6	71.6	80.6	94	68	70	72	70	82	65	68	.729	.781	.719	3.94	1.92	4.4	6.4	6.0	5.2
August	29.761	30.000	29.550	74.6	86.6	83.5	91.7	71.6	81.6	97	64	68	67	67	81	53	60	.698	.662	.669	.82	.49	2.6	4.0	4.2	3.3
September	29.755	29.980	29.370	70.4	80.4	76.3	83.5	67.9	75.7	93	56	65	64	66	84	59	71	.641	.610	.643	5.42	1.83	5.2	6.1	5.2	5.6
October	29.805	30.138	29.330	58.1	70.3	68.1	73.9	55.9	64.9	84	42	52	50	52	80	53	59	.398	.392	.412	3.21	1.18	4.0	3.7	3.4	3.8
November	29.873	30.220	29.520	53.4	59.3	57.2	62.8	50.1	56.4	82	23	48	48	48	83	68	72	.382	.377	.375	12.01	2.61	7.5	6.7	6.0	6.6
December	29.960	30.360	29.333	40.5	52.3	51.1	57.2	37.4	47.3	75	20	35	38	37	82	61	60	.235	.269	.253	3.32	.86	4.3	4.6	4.7	4.6
Year	29.817	30.360	29.200	60.0	70.1	68.3	74.6	56.8	65.7	97	20	54	56	55	82	62	64	.478	.499	.483	78.25	5.52	5.2	5.6	5.1	5.2

MOORHEAD, MINN.

[ϕ=46° 52′ N.; λ=96° 44′ W.]

January	29.107	29.550	28.320	−8.0	−2.1	−2.1	5.4	−14.5	−4.6	29	−28	−9	−8	−6	93	73	83	0.028	0.031	0.032	1.36	0.49	4.1	5.8	5.0	5.7
February	29.080	29.460	28.440	−1.1	6.6	7.6	13.0	−5.9	3.6	33	−29	−2	1	5	94	76	87	.040	.048	.057	.47	.12	7.3	7.5	5.3	7.0
March	28.827	29.530	28.130	25.2	34.0	34.7	40.1	21.7	30.9	64	−5	22	24	27	88	68	72	.126	.140	.153	1.01	.35	6.9	6.7	7.4	6.8
April	28.862	29.246	27.945	34.8	48.4	49.9	53.9	32.3	43.1	80	22	30	30	33	81	52	54	.166	.172	.192	1.99	.69	6.3	6.1	5.5	6.1
May	28.996	29.430	28.590	42.7	57.3	59.1	62.8	38.5	50.6	87	23	35	33	33	75	43	40	.226	.215	.214	1.13	.59	4.4	4.5	3.7	4.0
June	28.884	29.300	28.450	55.9	72.1	72.2	77.1	51.0	64.0	95	39	47	46	45	72	42	40	.336	.339	.316	.30	.08	5.4	5.7	5.7	5.3
July	28.931	29.297	28.510	63.5	79.6	79.1	84.1	58.9	71.5	103	48	55	54	55	76	44	46	.452	.436	.453	.94	.42	3.5	4.2	3.6	3.9
August	28.981	29.300	28.670	59.3	78.2	77.9	83.1	56.4	69.8	95	42	52	50	50	77	39	38	.392	.379	.362	.75	.34	3.6	4.4	5.4	4.5
September	28.987	29.400	28.400	46.8	61.8	60.2	65.1	44.5	54.8	93	24	41	41	42	82	49	55	.280	.281	.288	.91	.48	6.4	6.6	6.2	6.5
October	29.023	29.460	28.310	38.4	54.0	51.1	58.0	37.2	47.6	80	23	35	36	38	87	55	64	.208	.223	.238	3.13	.87	4.5	4.0	4.3	4.6
November	29.027	29.710	28.340	20.6	27.8	25.5	32.9	16.8	24.8	52	−11	18	18	20	88	67	80	.108	.111	.116	1.08	.38	5.6	6.0	5.7	6.1
December	29.047	29.800	28.390	10.0	14.9	14.0	20.0	4.5	12.2	42	−22	8	11	11	92	82	88	.070	.080	.081	.82	.44	6.5	7.9	5.6	7.5
Year	28.979	29.800	27.945	32.3	44.4	44.1	49.6	28.4	39.0	103	−29	28	28	29	84	58	62	.203	.205	.208	13.89	.87	5.4	5.8	5.3	5.7

NANTUCKET, MASS.

[ϕ=41° 17′ N.; λ=70° 06′ W.]

January	29.961	30.691	29.190	30.0	34.4	31.7	38.8	24.3	31.6	58	9	23	24	24	75	66	71	0.138	0.146	0.136	3.02	1.71	5.2	5.2	3.4	6.0
February	30.036	30.435	29.390	30.8	35.2	32.4	39.2	27.3	33.2	53	19	27	29	28	84	79	84	.150	.167	.161	5.76	1.69	5.9	5.9	4.7	6.3
March	29.881	30.420	28.790	38.8	42.7	39.0	46.8	33.0	39.9	62	12	34	34	34	82	73	83	.207	.209	.205	4.66	1.35	5.2	4.8	5.0	6.4
April	29.868	30.374	28.880	44.7	48.0	43.4	51.2	39.1	45.2	68	34	38	38	39	79	72	84	.235	.238	.241	6.28	1.80	5.9	5.7	5.0	6.1
May	30.048	30.506	29.240	55.1	58.6	51.5	61.2	47.8	54.5	84	42	47	48	48	77	69	87	.340	.343	.336	4.10	1.50	4.0	5.7	6.1	5.4
June	29.918	30.180	29.550	63.6	69.3	60.5	71.6	56.6	64.1	87	46	56	57	56	80	66	87	.471	.480	.466	.41	.18	5.2	3.9	5.0	5.2
July	30.009	30.390	29.538	69.3	78.8	65.1	76.1	61.3	68.7	88	55	62	60	61	78	64	88	.560	.533	.550	1.18	.40	3.6	4.2	3.9	3.9
August	29.963	30.264	29.447	67.0	71.7	64.6	73.7	60.9	67.3	81	57	60	59	60	80	67	86	.526	.512	.522	3.18	1.50	4.7	3.9	3.5	4.3
September	30.086	30.520	29.810	63.8	68.6	62.4	70.8	58.9	64.8	85	50	58	59	58	84	74	88	.507	.524	.505	5.89	2.38	4.9	5.4	4.5	5.3
October	30.008	30.597	29.270	53.1	57.1	52.6	59.1	48.0	53.6	70	37	44	44	45	73	65	76	.313	.314	.318	2.22	1.12	5.5	4.7	4.4	5.1
November	30.016	30.450	29.170	45.3	49.0	45.4	51.2	41.1	46.2	65	20	38	38	38	76	68	76	.246	.252	.246	3.86	1.52	6.7	6.7	5.4	7.1
December	30.012	30.620	29.030	35.9	39.3	36.3	42.9	31.7	37.3	58	23	32	33	32	85	78	84	.186	.198	.188	4.13	.97	5.7	6.1	4.8	7.3
Year	29.984	30.691	28.790	49.8	54.0	48.7	56.9	44.2	50.5	88	9	43	44	44	79	70	83	.323	.326	.323	44.68	2.38	5.2	5.2	4.6	5.7

NASHVILLE, TENN.

[ϕ=36° 10′ N.; λ=86° 47′ W.]

January	29.548	29.920	28.900	35.8	41.6	40.6	49.0	29.5	39.2	74	16	29	28	29	76	59	65	0.176	0.180	0.186	3.85	1.17	6.9	5.0	5.9	6.5
February	29.541	29.970	29.120	30.5	38.0	38.6	43.1	27.8	35.4	68	12	26	27	28	83	65	67	.149	.156	.163	3.81	1.30	6.6	7.0	6.0	6.6
March	29.431	29.980	28.850	47.8	58.4	58.2	63.5	45.4	54.4	88	23	39	39	41	72	51	55	.263	.269	.280	6.48	2.32	5.7	5.9	5.7	5.8
April	29.396	29.870	28.920	56.1	68.1	65.7	72.1	52.8	62.4	84	42	48	46	47	75	46	54	.347	.331	.344	3.93	1.49	5.9	5.6	5.4	5.8
May	29.499	29.890	28.760	61.7	70.2	70.2	76.1	57.0	66.6	91	41	55	55	56	80	61	63	.453	.453	.473	6.46	1.78	6.1	6.4	5.8	6.2
June	29.417	29.620	29.150	69.2	81.0	77.9	84.7	63.9	74.3	94	52	61	61	62	77	52	59	.553	.546	.562	2.02	.93	4.1	4.8	4.7	4.1
July	29.500	29.730	29.230	73.8	84.0	81.3	88.6	69.7	79.2	95	63	68	66	67	81	56	63	.680	.643	.661	6.59	3.04	4.9	5.7	5.4	5.1
August	29.462	29.690	29.220	69.7	82.6	81.3	87.2	67.0	77.1	95	58	63	63	63	80	52	56	.594	.584	.601	.51	.18	2.6	3.8	4.1	3.6
September	29.477	29.660	29.260	65.3	77.3	74.1	80.7	62.5	71.6	92	48	60	60	60	85	57	64	.545	.537	.544	4.85	2.30	5.8	5.8	5.8	5.9
October	29.507	29.850	29.080	52.3	64.9	63.4	68.2	50.5	59.4	80	39	45	45	46	76	52	57	.305	.316	.330	4.05	2.34	4.9	4.8	4.8	4.9
November	29.567	30.010	29.090	43.4	50.1	48.7	53.5	40.2	46.8	74	8	38	38	38	84	64	68	.267	.266	.268	4.79	1.84	7.3	6.9	6.7	7.1
December	25.576	30.060	28.910	38.3	44.9	45.1	50.0	34.4	42.2	69	6	33	34	36	82	67	70	.223	.233	.245	3.33	1.42	6.0	5.8	6.2	6.1
Year	29.493	30.060	28.760	53.7	63.4	62.1	68.1	50.1	59.0	95	6	47	47	48	79	57	62	.380	.376	.388	50.67	3.04	5.6	5.7	5.5	5.6

Annual meteorological summary for the year ending December 31, 1929—Continued

MONTGOMERY, ALA.

[H_b=223 ft.; h_t=100 ft.; h_r=71 ft.; h_a=112 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi*																									
January	6.7	E.	25	SW.	0	9	9	9	7	9	8	3	8	0	10	12	9	11	10	0	0	0	1	0	0	8	1	0
February	5.9	NE.	25	W.	0	11	10	7	14	3	2	4	4	1	6	7	15	10	8	0	0	0	1	0	0	5	4	0
March	7.3	SE.	24	E.	0	5	5	7	13	13	8	5	5	1	11	12	8	11	10	0	0	0	0	1	0	7	0	0
April	6.3	S.	27	NW.	0	5	4	8	6	12	14	3	8	0	10	14	6	12	8	0	0	0	1	0	0	8	0	0
May	6.2	SE.	27	SW.	0	5	6	9	20	12	7	0	3	0	9	12	10	11	9	0	0	0	0	0	2	0	10	0
June	5.2	S.	31	N.	0	3	7	6	13	12	9	6	4	0	9	14	7	12	9	0	0	0	0	0	12	0	12	0
July	4.6	E.	29	SE.	0	1	4	11	14	8	12	9	3	0	8	17	6	8	7	0	0	0	0	0	16	0	10	0
August	4.6	SW.	31	N.	0	4	7	7	9	7	16	10	2	0	16	14	1	9	4	0	0	0	0	0	24	0	10	0
September	5.9	E.	24	E.	0	7	16	15	9	5	2	3	3	0	5	20	5	15	13	0	0	1	0	0	4	0	9	0
October	6.0	E.	23	SE.	0	10	8	18	4	1	5	8	8	0	19	4	8	7	7	0	0	0	1	0	0	0	2	0
November	5.9	N.	20	NW.	0	14	9	8	8	5	5	6	5	0	9	5	16	15	11	0	0	0	0	0	0	2	2	0
December	5.5	NW.	22	NW.	0	5	5	10	6	10	9	5	12	0	14	7	10	6	6	4	0	0	2	0	0	12	0	0
Year	5.8	E.	31	N.	0	79	90	115	123	97	97	62	65	2	126	138	101	127	102	4	0	2	5	0	59	27	75	0

MOORHEAD, MINN.

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

January	6.8	N.	28	N.	0	16	4	4	3	8	7	8	12	0	11	7	13	11	6	18	11	0	0	31	0	31	0	0
February	6.8	S.	20	S.	0	14	1	1	2	17	8	7	6	0	5	8	15	11	5	17	11	0	0	27	0	28	0	0
March	8.3	N.	26	NW.	0	15	6	3	5	14	7	5	7	0	7	9	15	7	5	12	5	1	0	9	0	25	0	1
April	7.9	S.	23	W.	0	13	5	8	5	15	3	5	6	0	9	8	13	7	6	2	2	0	0	2	0	14	1	0
May	9.3	N.	25	SW.	0	20	4	3	4	17	5	2	7	0	14	12	5	6	4	3	0	0	0	0	0	11	2	0
June	7.3	S.	24	SE.	0	6	3	3	6	17	8	8	9	0	8	12	10	8	3	0	0	0	0	0	3	0	4	0
July	7.1	S.	30	S.	0	11	6	1	4	26	5	5	4	0	15	12	4	10	4	0	0	1	1	0	7	0	7	0
August	6.3	S.	22	N.	0	11	6	5	8	21	5	1	4	1	13	11	7	6	5	0	0	0	0	0	7	0	6	0
September	7.0	S.	23	S.	0	14	7	1	2	20	3	4	9	0	7	7	16	9	6	0	0	0	0	0	1	2	3	1
October	7.5	S.	24	NW.	0	11	6	6	6	15	6	5	7	0	14	9	8	9	7	3	3	0	0	0	0	9	1	0
November	8.7	N.	29	NW.	0	13	2	0	2	12	12	5	14	0	10	6	14	11	7	15	11	0	0	12	0	27	0	0
December	8.2	N.	25	NW.	0	11	5	1	1	15	7	10	12	0	4	7	20	10	5	21	10	0	0	22	0	31	0	0
Year	7.6	S.	30	S.	0	155	55	36	48	197	76	65	97	1	117	108	140	105	63	91	53	2	3	101	18	178	24	2

NANTUCKET, MASS.

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

January	16.1	NW.	47	W.	4	2	1	1	6	3	8	14	27	0	10	9	12	13	9	9	5	0	6	9	0	29	0	0
February	12.4	NW.	42	E.	4	5	6	6	2	3	7	10	17	0	8	9	11	12	12	7	5	0	5	5	0	24	0	0
March	15.1	SW.	55	NE.	11	4	4	3	6	7	17	10	11	0	11	5	15	16	12	4	4	0	9	1	0	11	2	0
April	17.7	SW.	61	NE.	14	2	14	6	7	3	14	8	6	0	8	10	12	17	14	3	1	0	7	0	0	0	0	0
May	16.3	SW.	44	S.	5	5	3	2	3	11	29	4	5	0	9	13	9	12	9	0	0	0	5	0	0	0	4	0
June	11.5	SW.	30	NE.	0	3	4	6	6	9	17	11	4	0	11	11	8	4	3	0	0	0	11	0	0	0	2	0
July	13.0	SW.	32	NE.	0	6	5	3	7	6	25	8	2	0	14	13	4	2	6	0	0	0	9	0	0	0	3	0
August	11.9	SW.	34	SE.	1	11	6	0	7	15	14	8	1	0	17	9	5	6	6	0	0	0	7	0	0	0	2	0
September	14.1	NE.	36	NE.	3	5	18	4	5	7	13	6	2	0	11	10	9	11	9	0	0	0	11	0	0	0	1	0
October	15.8	SW.	42	NE.	6	7	6	3	5	4	16	10	11	0	14	8	9	8	7	1	0	0	2	0	0	0	0	0
November	13.4	W.	40	E.	6	4	8	4	3	3	12	16	10	0	4	10	16	13	9	4	0	0	4	1	0	4	0	0
December	13.9	W.	42	E.	5	10	4	5	3	4	6	22	8	0	4	8	19	14	10	7	3	0	9	3	0	20	0	0
Year	14.3	SW.	61	NE.	59	64	79	43	60	75	178	127	104	0	121	115	129	128	106	35	18	0	85	19	0	88	14	0

NASHVILLE, TENN.

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

January	9.9	W.	38	SW.	5	4	11	8	7	6	7	11	7	1	8	7	16	11	11	3	0	0	0	2	0	18	2	0
February	7.1	NW.	33	S.	1	2	10	9	4	7	3	6	15	0	9	3	16	13	12	8	3	0	1	5	0	17	1	0
March	10.2	S.	38	NW.	3	3	4	6	10	18	5	9	7	0	7	12	12	11	7	1	1	0	2	0	0	4	3	0
April	9.8	S.	48	S.	5	3	4	5	2	20	11	4	10	1	7	13	10	13	9	0	0	0	1	0	0	0	8	0
May	8.4	S.	38	NW.	1	8	8	5	6	16	8	4	5	2	7	11	13	12	11	0	0	0	1	0	0	1	9	0
June	6.4	NE.	38	NW.	2	5	16	3	7	8	7	8	4	2	11	15	4	10	8	0	0	0	0	0	0	6	11	0
July	5.0	SW.	44	NW.	2	4	7	6	6	6	14	15	3	1	7	18	6	12	8	0	0	0	0	0	0	13	14	0
August	6.2	NW.	25	S.	0	5	14	6	0	1	4	12	20	0	18	10	3	8	4	0	0	0	2	0	0	12	6	0
September	6.0	S.	28	NW.	0	4	16	7	7	11	5	1	8	1	8	8	14	11	10	0	0	0	1	0	0	3	5	0
October	8.0	W.	29	S.	0	2	7	7	8	10	4	11	12	1	13	6	12	10	9	0	0	0	1	0	0	0	1	0
November	7.4	NW.	29	S.	0	5	8	5	4	9	6	8	15	0	4	11	15	10	9	2	1	0	2	3	0	8	1	0
December	7.9	S.	28	W.	0	2	2	1	4	18	17	9	9	0	10	6	15	10	8	7	5	0	1	7	0	13	1	0
Year	7.8	S.	48	S.	19	47	107	68	65	130	91	98	115	9	109	120	136	131	106	21	10	2	10	17	35	60	62	0

Annual meteorological summary for the year ending December 31, 1929—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	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.914	30.590	29.080	26.5	31.1	29.2	36.5	21.1	28.8	59	5	18	19	17	70	58	64	0.111	0.115	0.102	3.49	0.92	5.1	4.8	3.0	4.5
February	29.980	30.373	29.460	25.9	34.1	32.8	37.8	23.8	30.8	64	14	20	23	24	79	62	74	.147	.128	.136	4.42	1.88	4.9	4.3	3.9	4.6
March	29.819	30.320	28.834	38.5	45.7	42.7	51.3	33.4	42.4	75	19	32	35	34	76	68	74	.192	.229	.207	4.19	1.35	5.7	5.8	4.4	5.2
April	29.792	30.277	28.859	45.2	51.1	48.8	55.5	40.7	48.1	82	32	38	41	40	77	71	76	.237	.272	.264	7.25	1.53	5.7	6.2	6.3	6.4
May	29.948	30.424	28.945	56.1	64.7	59.7	69.1	49.4	59.2	93	41	49	53	50	78	68	75	.363	.428	.376	3.94	.82	3.6	5.5	5.2	5.7
June	29.826	30.040	29.460	65.6	73.1	69.0	77.3	59.2	68.2	93	44	57	59	59	75	64	73	.480	.519	.518	1.57	1.02	4.4	5.0	4.6	4.9
July	29.911	30.289	29.480	70.0	77.7	72.8	81.4	62.8	72.1	92	52	61	62	61	73	59	70	.543	.566	.546	2.44	1.22	4.4	4.2	3.0	3.7
August	29.869	30.214	29.380	66.2	73.9	71.1	77.6	60.9	69.2	85	51	57	56	58	73	56	69	.480	.471	.509	4.17	3.67	4.7	4.5	3.9	3.7
September	30.000	30.434	29.690	61.2	71.6	66.9	75.1	57.1	66.1	95	49	54	56	58	76	61	75	.437	.482	.512	1.31	.47	4.9	4.7	4.5	4.4
October	29.933	30.590	29.270	47.4	57.0	53.5	60.5	43.2	51.8	75	32	38	38	40	70	52	65	.242	.252	.268	3.75	2.02	4.4	4.2	3.6	4.3
November	29.936	30.410	29.090	40.2	47.5	44.9	49.9	37.4	43.6	75	11	33	34	33	76	60	70	.210	.225	.216	2.22	1.05	5.4	6.0	5.1	5.7
December	29.949	30.610	29.330	29.2	34.6	33.4	38.0	26.5	32.2	53	6	23	26	26	78	70	75	.133	.147	.143	4.35	1.08	5.8	6.3	5.4	6.5
Year	29.906	30.610	28.834	47.7	55.2	52.1	59.2	43.0	51.0	95	5	40	42	42	75	62	68	.295	.319	.316	43.10	3.67	4.8	5.1	4.4	5.0

NEW ORLEANS, LA.

[ϕ=29° 57′ N.; λ=90° 04′ W.]

January	30.059	30.480	29.590	51.7	60.2	58.1	64.6	48.7	56.6	81	30	48	50	49	88	70	73	0.373	0.400	0.389	10.63	3.02	4.4	5.6	4.7	5.5
February	29.993	30.450	29.600	48.5	57.1	55.1	62.0	45.6	53.8	80	32	44	47	47	84	71	76	.308	.354	.353	6.26	3.32	7.2	7.4	6.2	7.3
March	29.940	30.310	29.510	60.6	71.0	67.3	74.0	58.5	66.2	90	43	57	57	58	88	64	72	.493	.491	.502	6.25	2.52	5.8	5.9	4.8	5.7
April	29.925	30.290	29.560	68.7	77.0	74.3	80.6	66.0	73.3	90	58	64	62	62	84	62	68	.603	.578	.575	1.98	1.35	5.1	5.3	4.6	5.2
May	29.987	30.190	29.600	72.2	80.9	76.4	83.6	68.9	76.2	94	57	68	69	68	88	68	76	.702	.731	.695	7.62	2.18	4.9	5.8	5.4	6.5
June	29.901	30.140	29.700	77.6	85.0	82.7	88.8	74.0	81.4	96	69	73	70	71	86	61	68	.810	.726	.758	3.09	.91	3.8	5.9	6.0	5.7
July	29.996	30.150	29.730	78.7	84.1	81.8	88.0	75.2	81.6	94	72	74	73	72	87	70	73	.854	.805	.782	11.78	3.17	5.1	7.4	6.7	6.9
August	29.946	30.111	29.750	79.1	88.1	83.3	90.9	76.1	83.5	94	70	74	71	73	86	60	72	.854	.784	.814	6.70	2.92	3.8	4.8	5.8	5.1
September	29.892	30.050	29.610	74.1	81.5	79.3	85.1	72.2	78.6	93	63	69	70	69	86	68	73	.732	.733	.729	16.57	10.75	3.9	5.9	4.3	4.6
October	29.970	30.180	29.620	66.1	75.0	71.9	77.8	64.5	71.2	84	53	59	58	59	78	61	67	.519	.524	.528	6.26	4.82	4.2	4.4	2.5	3.9
November	30.048	30.410	29.780	56.0	63.1	60.5	65.9	53.3	59.6	84	31	52	52	52	85	68	76	.422	.430	.442	5.16	2.49	6.5	5.5	6.0	5.6
December	30.151	30.460	29.570	49.1	57.1	53.7	61.4	44.9	53.2	79	26	44	46	45	84	70	75	.331	.358	.339	2.85	.94	3.6	6.1	4.5	5.9
Year	29.984	30.480	29.510	65.2	73.3	70.4	76.9	62.3	69.6	96	26	60	60	60	85	66	72	.583	.576	.576	85.06	10.75	4.9	5.8	5.1	5.7

NEW YORK, N. Y.

[ϕ=40° 43′ N.; λ=74° 00′ W.]

January	29.701	30.340	28.940	29.4	33.7	31.8	39.8	24.4	32.1	62	7	29	22	19	67	59	58	0.123	0.127	0.113	2.67	0.61	5.9	6.3	5.9	6.1
February	29.748	30.093	29.234	29.4	34.4	34.0	40.6	29.1	33.4	55	14	21	22	22	68	60	60	.118	.125	.123	4.30	1.87	5.0	5.0	5.8	5.6
March	29.606	30.097	28.652	40.7	49.1	45.7	53.8	35.7	44.8	75	12	32	32	32	70	53	61	.206	.202	.201	3.51	1.48	5.1	5.6	4.4	5.7
April	29.565	30.060	28.690	47.4	53.1	51.2	58.5	42.7	50.6	86	32	37	38	39	69	61	67	.232	.247	.250	5.76	1.42	6.9	7.2	6.2	7.2
May	29.731	30.210	28.690	57.0	64.9	60.5	69.5	51.7	60.6	90	42	47	47	47	71	55	64	.352	.354	.354	3.64	1.23	6.2	6.1	6.3	6.6
June	29.610	29.810	29.250	66.9	74.4	70.0	78.4	61.7	70.0	93	44	56	57	57	69	56	65	.476	.489	.481	2.30	1.09	5.0	6.4	6.6	6.0
July	29.699	30.060	29.300	70.3	78.5	74.4	82.2	65.0	74.1	92	56	61	61	60	72	56	63	.546	.551	.541	.98	.50	5.2	6.1	5.5	5.7
August	29.653	30.000	29.200	66.4	74.3	71.9	78.9	63.4	71.2	88	56	57	57	57	72	56	62	.475	.476	.483	1.45	.81	4.6	4.9	5.4	5.0
September	29.770	30.160	29.450	64.4	72.2	68.8	76.4	61.1	68.8	94	44	56	56	57	75	61	70	.472	.485	.499	4.05	1.48	6.0	5.8	4.7	6.1
October	29.709	30.360	29.060	49.4	56.8	55.1	61.5	46.5	54.0	73	34	40	40	42	72	55	62	.267	.269	.280	5.16	2.25	5.0	5.5	4.6	6.0
November	29.718	30.140	28.900	43.9	47.8	46.4	52.0	40.0	46.0	73	11	36	36	34	74	65	64	.238	.241	.231	2.08	.79	6.4	6.9	5.7	7.4
December	29.715	30.310	29.200	32.9	37.3	36.5	42.7	29.5	36.1	55	14	26	29	27	74	71	69	.149	.169	.160	3.23	1.08	6.5	6.5	5.1	7.2
Year	29.685	30.360	28.652	49.8	56.4	53.9	61.2	45.7	53.5	94	7	41	41	41	71	59	64	.304	.311	.310	39.13	2.25	5.6	6.0	5.5	6.2

NORFOLK, VA.

[ϕ=36° 51′ N.; λ=76° 17′ W.]

January	30.017	30.530	29.408	38.2	44.4	43.3	50.1	34.2	42.2	70	19	31	31	34	74	61	69	0.191	0.195	0.208	1.81	0.61	5.5	5.3	4.3	5.7
February	30.019	30.360	29.450	36.2	42.9	41.8	49.1	33.5	41.3	71	19	31	32	34	81	68	74	.190	.204	.210	4.24	1.34	5.5	5.9	5.3	5.9
March	29.934	30.520	28.940	49.4	58.6	55.6	64.2	44.6	54.4	86	21	41	39	40	74	52	58	.297	.284	.284	2.80	.99	5.4	4.7	4.4	5.2
April	29.847	30.410	28.920	57.2	65.8	62.7	71.3	51.8	61.6	92	40	48	45	48	72	51	62	.346	.321	.353	1.06	.78	4.8	4.9	4.2	5.0
May	30.012	30.480	29.140	63.3	70.9	66.9	75.4	57.8	66.6	86	49	55	54	56	77	58	70	.461	.441	.476	7.90	3.02	5.0	5.2	6.0	5.5
June	29.880	30.092	29.620	70.1	76.6	73.4	81.3	65.6	73.4	91	55	63	61	64	78	62	73	.583	.563	.604	3.35	1.78	5.5	5.4	5.9	5.7
July	29.972	30.212	29.650	74.0	80.8	77.0	84.3	69.6	77.0	95	63	66	65	68	78	61	74	.657	.633	.684	4.09	1.60	4.9	4.9	5.9	5.2
August	29.911	30.240	29.590	73.2	80.5	75.1	84.1	69.3	76.7	91	64	66	63	65	80	57	72	.658	.596	.631	2.64	1.23	5.1	5.0	5.0	5.1
September	30.003	30.180	29.760	68.1	75.4	71.3	78.6	65.3	72.0	88	54	63	62	64	85	64	79	.595	.566	.613	3.87	1.50	6.1	5.4	4.5	5.8
October	29.977	30.540	29.300	56.7	65.3	60.9	68.8	53.4	61.1	79	41	47	46	48	73	52	65	.349	.338	.353	5.66	4.36	3.5	3.6	2.9	3.7
November	30.011	30.420	29.330	50.4	55.6	52.7	59.5	46.7	53.1	80	17	43	42	43	78	62	72	.313	.309	.317	3.66	1.69	6.5	6.9	5.7	6.3
December	30.016	30.430	29.440	40.8	49.1	45.9	54.0	36.7	45.4	71	17	34	34	34	76	60	64	.213	.227	.209	1.83	.85	4.5	5.2	4.1	4.8
Year	29.967	30.540	28.920	56.5	63.8	60.6	68.4	52.4	60.4	95	17	49	48	50	77	59	69	.404	.389	.412	42.91	4.36	5.2	5.2	4.8	5.3

Annual meteorological summary for the year ending December 31, 1929—Continued

NEW HAVEN, CONN.

[H_b=106 ft.; h_t=74 ft.; h_r=68 ft.; h_a=153 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: Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	10.0	NW.	34	SE.	1	11	3	1	2	5	14	9	17	0	15	8	8	11	10	13	6	0	2	11	0	28	0	0
February	8.4	N.	29	E.	0	15	6	3	1	6	4	4	17	0	11	9	8	11	8	8	5	0	0	8	0	22	1	0
March	8.7	S.	35	NW.	1	8	4	1	6	17	13	3	10	0	11	11	9	15	11	5	3	0	4	1	0	10	2	2
April	10.3	N.	47	NE.	1	14	8	6	8	3	11	7	2	1	10	4	16	17	14	4	0	0	2	0	0	1	4	0
May	8.9	S.	35	SW.	1	12	2	4	3	22	8	2	9	0	8	15	8	13	11	0	0	0	2	0	1	0	10	0
June	6.9	S.	22	SW.	0	11	1	0	17	8	11	2	10	0	11	13	6	8	4	0	0	0	1	0	3	0	4	0
July	7.3	S.	25	S.	0	9	3	2	7	24	10	2	5	0	15	11	5	8	7	0	0	0	0	0	3	0	5	0
August	7.3	N.	24	NW.	0	18	3	4	4	15	7	7	4	0	17	10	4	7	5	0	0	0	0	0	0	0	5	0
September	7.0	N.	23	S.	0	17	6	5	3	15	6	5	3	0	16	6	8	10	6	0	0	0	0	0	3	0	2	0
October	8.8	N.	34	SE.	1	14	6	3	1	7	11	11	9	0	14	10	7	9	5	1	0	0	0	0	0	2	0	0
November	7.5	N.	27	W.	0	15	3	2	0	5	13	13	8	1	10	8	12	13	8	3	1	0	1	2	0	8	0	0
December	8.0	N.	28	NE.	0	15	11	1	1	2	14	6	12	0	9	7	15	13	10	10	7	0	2	6	0	23	1	0
Year	8.3	N.	47	NE.	5	159	56	32	53	129	122	71	106	2	147	112	106	135	99	44	22	0	14	28	10	94	34	2

NEW ORLEANS, LA.

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

January	6.2	NE.	23	SW.	0	10	15	9	4	11	2	2	7	2	9	12	10	14	13	0	0	0	4	0	0	1	7	0
February	6.8	NE.	21	NW.	0	9	22	9	6	1	2	1	6	0	4	5	19	13	8	0	0	0	2	0	0	1	3	0
March	6.8	SE.	22	SW.	0	3	6	12	14	8	10	5	4	0	9	9	13	8	6	0	0	1	1	0	1	0	6	0
April	6.6	SE.	25	NW.	0	2	8	5	23	4	10	1	7	0	9	12	9	4	3	0	0	0	0	0	1	0	2	0
May	5.7	SE.	22	SW.	0	5	4	8	27	9	3	1	4	1	5	13	13	15	13	0	0	0	0	0	1	0	13	0
June	4.6	SE.	20	NW.	0	2	9	8	18	5	7	3	7	1	6	18	6	13	11	0	0	0	0	0	11	0	13	0
July	4.6	E.	18	E.	0	1	6	14	11	2	11	7	5	5	2	14	15	21	17	0	0	0	0	0	12	0	16	0
August	3.9	NE.	22	E.	0	4	11	9	7	3	6	9	7	6	10	15	6	13	9	0	0	0	0	0	23	0	11	0
September	5.3	NE.	26	SE.	0	5	20	9	9	4	3	3	4	3	9	15	6	14	13	0	0	0	0	0	3	0	12	0
October	5.8	NE.	16	E.	0	6	15	11	13	1	2	8	6	0	17	6	8	5	5	0	0	0	1	0	0	0	3	0
November	6.3	NE.	22	N.	0	12	21	6	6	4	2	3	6	0	10	5	15	14	12	0	0	0	1	0	0	1	3	0
December	5.4	E.	19	NW.	0	7	10	13	7	6	5	4	9	1	10	6	15	7	7	1	0	0	10	0	0	6	2	0
Year	5.7	SE.	26	SE.	0	66	147	113	145	58	63	47	72	19	100	130	135	141	117	1	0	1	19	0	52	9	91	0

NEW YORK, N. Y.

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

January	19.8	NW.	60	S.	16	5	1	4	1	5	7	15	24	0	8	11	12	11	8	8	6	0	3	4	0	27	0	0
February	14.2	NW.	40	NW.	6	4	11	4	1	4	5	9	18	0	8	10	10	7	7	8	3	0	1	6	0	20	0	0
March	17.7	NW.	60	NW.	15	1	4	6	2	8	14	9	18	0	10	12	9	12	8	5	3	0	7	0	0	9	1	2
April	16.4	NW.	62	NW.	11	5	9	8	3	7	8	6	14	0	5	8	17	15	14	1	0	0	0	0	0	0	5	0
May	14.9	SW.	62	W.	9	5	5	3	4	15	13	7	10	0	6	10	15	15	13	0	0	2	1	0	0	0	9	0
June	12.2	S.	51	NW.	6	7	6	1	7	12	8	6	13	0	4	19	7	8	6	0	0	2	0	0	2	0	7	0
July	12.3	SW.	37	S.	3	6	6	2	4	15	14	8	7	0	8	15	8	5	4	0	0	0	0	0	3	0	4	0
August	12.4	S.	47	NW.	4	10	6	0	5	14	8	5	14	0	9	14	8	9	5	0	0	0	0	0	0	0	6	0
September	10.7	E.	37	NW.	2	6	10	9	6	9	7	8	5	0	5	13	12	9	8	0	0	0	2	0	4	0	5	0
October	16.1	NW.	60	NW.	9	8	8	4	3	4	13	9	13	0	9	12	10	7	7	1	0	1	3	0	0	0	1	0
November	14.0	W.	48	NW.	8	3	10	2	3	3	12	13	14	0	3	12	15	11	9	3	0	0	3	2	0	5	0	
December	13.4	W.	48	NW.	8	7	8	5	2	4	10	14	12	0	6	8	17	11	8	6	5	0	7	3	0	16	1	0
Year	14.5	NW.	62	NW.	97	67	84	48	41	100	119	109	162	0	81	144	140	120	97	32	17	5	27	15	9	77	39	2

NORFOLK, VA.

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

January	12.3	NE.	55	SE.	4	8	14	4	3	9	5	11	8	0	11	7	13	13	9	1	1	0	1	1	0	12	0	0
February	11.0	N.	33	S.	1	18	11	1	6	11	5	2	2	0	10	4	14	12	10	4	1	0	2	1	0	13	0	0
March	15.3	S.	61	W.	9	11	2	0	8	20	9	9	3	0	11	9	11	8	7	0	0	0	0	0	0	5	3	0
April	14.7	SW.	44	SW.	5	3	5	6	3	17	13	5	8	0	11	10	9	7	5	0	0	0	0	0	2	0	1	0
May	12.4	SW.	57	W.	6	3	7	6	14	12	15	4	1	0	12	7	12	14	10	0	0	0	0	0	0	0	7	0
June	10.3	S.	38	SW.	1	6	7	4	6	13	16	5	3	0	8	11	11	10	10	0	0	0	0	0	1	0	7	0
July	10.7	S.	38	SW.	1	3	9	4	4	18	15	7	2	0	12	9	10	13	8	0	0	0	0	0	5	0	11	0
August	8.3	S.	32	N.	0	7	10	13	7	12	5	5	3	0	12	10	9	8	6	0	0	0	1	0	4	0	6	0
September	11.0	NE.	33	NE.	2	2	20	8	3	13	10	3	1	0	10	9	11	10	9	0	0	0	2	0	0	0	3	0
October	12.1	NE.	44	S.	3	9	10	9	9	4	11	8	2	0	20	4	7	8	6	0	0	0	1	0	0	0	2	0
November	11.1	S.	31	NW.	0	8	11	2	3	13	7	12	4	0	8	6	16	10	9	1	1	0	0	1	0	2	1	0
December	11.8	SW.	33	NW.	1	4	6	4	3	11	16	11	7	0	13	7	11	8	6	2	1	0	1	0	0	12	0	0
Year	11.8	S.	61	W.	33	82	112	61	69	153	127	82	44	0	138	93	134	121	95	8	4	1	7	3	12	44	41	0

Annual meteorological summary for the year ending December 31, 1929—Continued

NORTHFIELD, VT.
[ϕ=44° 10′ N.; λ=72° 41′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.992	29.760	28.170	13.7	19.1	15.7	26.6	3.6	15.1	60	−20	10	12	10	83	71	78	0.078	0.081	0.075	2.42	0.64	7.7	7.3	6.3	7.5
February	29.116	29.470	28.730	11.2	24.1	18.4	28.4	4.6	16.5	47	−17	9	16	14	92	70	82	.072	.092	.085	3.00	1.85	7.9	6.9	5.8	6.8
March	28.934	29.410	27.912	28.4	35.5	31.4	41.3	21.7	31.5	59	−8	24	27	26	84	71	80	.141	.152	.145	2.54	.41	7.6	7.4	7.4	7.5
April	28.951	29.430	28.130	38.0	45.0	41.3	49.7	30.8	40.2	78	15	30	31	32	75	61	72	.174	.184	.189	4.22	.84	7.8	7.9	7.4	8.0
May	29.069	29.523	28.012	52.2	60.7	54.0	66.0	38.5	52.2	91	25	42	40	43	69	50	68	.286	.268	.301	2.72	.72	6.3	6.6	6.6	6.5
June	28.987	29.261	28.530	61.6	69.7	62.2	73.8	50.2	62.0	87	34	54	53	55	76	59	79	.436	.438	.458	4.78	.94	6.7	6.5	7.1	6.7
July	29.069	29.497	28.650	64.2	73.7	65.5	77.7	49.6	63.6	89	34	56	56	58	76	54	77	.462	.454	.487	2.09	.71	4.6	5.9	4.3	5.3
August	29.043	29.363	28.491	58.8	68.6	60.1	72.3	47.5	59.9	83	37	54	53	55	85	59	83	.424	.413	.434	1.79	.44	6.5	6.7	6.1	7.1
September	29.179	29.702	28.780	54.0	67.1	57.2	70.7	45.6	58.2	92	22	51	53	51	89	62	82	.394	.427	.399	2.39	.91	6.5	6.3	5.9	6.8
October	29.068	29.720	28.370	39.8	51.2	43.5	55.0	33.0	44.0	75	19	36	38	36	85	62	77	.218	.242	.227	1.83	.98	6.7	6.7	6.4	6.8
November	29.038	29.546	28.155	32.6	39.0	33.2	42.7	24.8	33.8	67	−2	28	30	27	83	68	78	.170	.179	.163	1.39	.42	8.6	7.9	6.5	8.7
December	29.056	29.742	28.420	19.0	24.4	20.9	29.0	10.5	19.8	44	−20	16	18	16	87	76	82	.101	.104	.096	2.53	.92	8.8	8.0	8.6	8.4
Year	29.042	29.760	27.912	39.5	48.2	42.0	52.8	30.0	41.4	92	−20	34	36	35	82	64	78	.246	.253	.255	31.70	1.85	7.1	7.0	6.5	7.2

NORTH HEAD, WASH.
[ϕ=46° 16′ N.; λ=124° 04′ W.]

January	29.861	30.210	29.310	37.4	40.7	40.4	43.3	33.8	38.6	53	25	34	36	36	88	84	86	0.204	0.217	0.218	3.44	0.68	5.7	7.4	7.8	7.0
February	30.007	30.240	29.370	37.3	41.5	42.3	44.3	35.2	39.8	48	26	33	37	38	86	85	86	.199	.226	.234	1.25	.35	5.4	6.1	6.3	5.4
March	29.867	30.150	29.300	43.4	46.0	45.9	48.2	41.1	44.6	54	36	42	43	43	93	90	89	.263	.279	.276	5.57	1.95	7.6	9.1	8.6	7.0
April	29.799	30.180	29.289	42.6	46.3	46.1	48.6	40.7	44.6	63	33	40	42	42	92	87	87	.254	.274	.271	4.66	1.10	7.5	8.3	7.9	6.9
May	29.916	30.190	29.520	47.4	51.3	51.2	52.9	46.2	49.6	58	44	44	46	46	90	85	84	.294	.315	.310	1.20	.31	8.2	6.4	6.6	5.6
June	29.809	30.180	29.270	52.6	57.1	56.6	58.4	51.6	55.0	65	48	50	51	51	91	82	82	.360	.380	.375	2.60	.69	8.0	6.6	5.7	5.5
July	29.890	30.100	29.652	55.8	59.6	60.1	61.9	54.3	58.1	68	52	53	54	54	90	83	80	.402	.422	.415	.64	.40	7.7	5.6	4.1	4.3
August	29.868	30.100	29.685	56.1	60.8	60.8	62.4	55.1	58.8	71	50	55	56	56	95	85	86	.432	.449	.457	.80	.42	5.8	5.6	5.1	4.8
September	29.807	29.970	29.558	56.1	61.2	59.8	64.0	53.3	58.6	83	49	50	52	54	82	76	81	.361	.395	.414	.45	.21	2.6	3.1	2.8	3.7
October	29.876	30.140	29.500	53.5	57.0	55.8	59.7	50.6	55.2	80	45	48	51	51	85	82	87	.343	.372	.378	1.38	.30	4.0	5.6	6.8	6.2
November	30.074	30.372	29.755	45.4	50.1	49.3	52.7	43.0	47.8	67	36	40	42	43	83	77	80	.252	.274	.280	1.56	.58	4.4	4.1	5.0	5.1
December	29.811	30.230	29.030	44.8	47.2	46.1	49.0	41.4	45.2	59	35	42	43	43	90	87	90	.267	.283	.282	7.08	1.76	6.8	8.1	7.5	8.2
Year	29.882	30.372	29.030	47.7	51.6	51.2	53.8	45.5	49.7	83	25	44	46	46	89	84	85	.303	.324	.326	30.63	1.95	6.1	6.3	6.2	5.8

NORTH PLATTE, NEBR.
[ϕ=41° 08′ N.; λ=100° 45′ W.]

January	27.042	27.450	26.360	12.6	22.8	21.4	29.6	8.5	19.0	53	−7	9	12	14	83	63	71	0.067	0.078	0.083	0.23	0.18	6.9	6.0	5.0	6.2
February	27.055	27.400	26.730	11.9	25.0	23.2	29.5	7.9	18.7	51	−15	8	14	16	83	60	72	.068	.083	.091	.44	.23	4.3	5.8	4.5	5.8
March	26.915	27.410	26.350	30.4	48.1	46.7	52.9	27.8	40.4	74	12	24	24	26	77	42	46	.132	.131	.141	.28	.10	5.5	6.2	6.4	5.8
April	26.910	27.210	26.360	38.9	58.7	57.7	63.2	37.5	50.4	84	21	33	31	32	80	42	44	.195	.185	.191	3.83	2.87	5.2	5.1	6.9	5.2
May	27.069	27.456	26.480	48.5	64.5	65.4	69.1	45.9	57.5	90	30	43	42	43	82	48	48	.290	.285	.295	2.58	1.50	5.9	6.2	4.7	5.3
June	27.016	27.320	26.560	58.2	76.8	76.9	81.0	56.2	68.6	103	43	52	52	51	81	47	45	.393	.409	.387	1.24	.44	4.8	4.7	5.6	4.4
July	27.089	27.330	26.850	66.6	85.4	85.2	89.6	65.7	77.6	100	48	60	61	61	81	46	46	.534	.554	.550	2.06	.54	5.0	2.6	3.6	3.3
August	27.114	27.340	26.839	64.3	86.9	84.2	90.6	63.5	77.0	101	50	58	58	58	82	39	43	.497	.488	.487	6.17	3.82	5.2	3.3	4.5	3.6
September	27.086	27.400	26.770	50.0	66.4	63.7	70.2	48.1	59.2	96	36	46	47	47	86	54	59	.315	.330	.332	2.22	.70	6.5	4.9	5.6	5.6
October	27.121	27.460	26.600	41.5	61.6	55.8	65.5	39.7	52.6	88	25	37	39	40	84	49	58	.229	.252	.262	1.62	.46	5.1	4.8	4.6	4.5
November	27.172	27.630	26.670	24.2	39.9	34.8	43.9	22.0	33.0	60	2	20	23	25	82	52	67	.106	.124	.137	.48	.27	4.4	4.9	5.5	4.8
December	27.114	27.630	26.690	20.2	39.2	31.9	44.9	17.7	31.3	66	−5	15	20	19	79	48	59	.089	.112	.098	.01	*0.03	2.0	2.9	2.9	3.0
Year	27.059	27.630	26.350	38.9	56.3	53.9	60.8	36.7	48.8	103	−15	34	35	36	82	49	55	.243	.252	.255	21.16	3.82	5.1	4.8	5.0	4.8

OKLAHOMA CITY, OKLA.
[ϕ=35° 26′ N.; λ=97° 33′ W.]

January	28.760	29.240	28.140	29.2	37.8	36.0	43.8	24.5	34.2	64	11	25	26	26	84	64	67	0.145	0.150	0.145	1.61	1.17	5.2	4.8	5.6	5.6
February	28.789	29.234	28.340	25.3	33.8	33.4	38.6	23.0	30.8	58	0	22	24	25	87	68	73	.125	.135	.141	.93	.38	6.4	6.6	6.3	6.8
March	28.618	29.130	28.060	43.7	58.4	57.2	64.3	41.9	53.1	91	27	35	34	37	73	46	51	.220	.214	.238	5.05	3.71	5.5	6.2	5.5	6.0
April	28.586	29.010	28.180	55.0	69.3	68.1	73.7	52.5	63.1	87	35	48	48	49	79	50	52	.360	.358	.361	2.08	1.48	5.6	5.2	4.8	4.9
May	28.703	28.990	28.272	58.8	68.7	67.9	73.1	56.3	64.7	85	40	54	56	57	85	68	70	.436	.472	.483	6.67	1.63	7.6	7.9	6.3	7.1
June	28.642	28.880	28.370	70.0	83.3	82.5	88.0	68.2	78.1	98	59	66	67	66	86	59	59	.631	.658	.640	1.60	.94	4.0	4.7	3.3	3.3
July	28.728	28.900	28.519	72.9	88.8	86.7	92.4	71.1	81.8	104	63	67	68	67	82	51	53	.660	.673	.657	3.37	1.84	4.0	3.5	2.7	3.8
August	28.717	28.850	28.497	73.0	92.6	90.4	96.7	72.0	84.4	106	62	62	62	61	68	37	40	.560	.561	.550	.93	.75	2.6	2.1	2.0	2.0
September	28.718	28.980	28.470	63.8	79.5	75.9	83.2	62.2	72.7	97	52	58	58	59	82	51	58	.490	.499	.509	2.69	1.30	4.3	3.5	3.6	3.9
October	28.752	28.980	28.180	55.2	68.4	64.8	72.5	53.0	62.8	84	35	51	52	52	87	60	66	.397	.415	.419	4.49	2.33	5.4	5.2	4.5	5.3
November	28.859	29.240	28.430	36.1	46.7	43.3	50.3	34.5	42.4	72	20	33	34	35	87	64	74	.191	.204	.210	1.74	.52	5.8	5.9	4.8	6.0
December	28.818	29.300	28.290	35.5	48.8	45.9	54.5	32.4	43.4	74	8	30	31	32	80	54	61	.201	.210	.218	.57	.46	3.6	4.2	2.5	4.2
Year	28.724	29.300	28.060	51.5	64.7	62.7	69.3	49.3	59.3	106	0	46	47	47	82	56	60	.368	.379	.381	31.73	3.71	5.0	5.0	4.3	4.9

*Nov. 30-Dec. 1.

Annual meteorological summary for the year ending December 31, 1929—Continued

NORTHFIELD, VT.

[H_b=876 ft.; h_t=12 ft.; h_r=3 ft.; h_a=60 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	8.3	N.	36	SW.	1	14	5	0	2	14	16	2	9	0	2	11	18	18	11	20	16	0	0	25	0	30	0	0
February	5.6	N.	31	S.	0	22	3	0	0	15	12	3	1	0	4	11	13	11	6	20	11	0	0	20	0	28	0	0
March	7.8	S.	28	SW.	0	15	2	0	3	21	9	4	8	0	3	11	17	14	12	13	6	0	0	6	0	24	3	0
April	6.8	S.	30	SW.	0	11	7	2	4	21	8	0	7	0	1	9	20	16	14	11	9	0	0	0	0	17	0	0
May	6.6	S.	40	S.	1	15	6	0	3	19	11	3	5	0	5	14	12	12	9	2	0	0	1	0	1	9	4	0
June	5.2	S.	30	NE.	0	10	7	1	3	20	8	7	4	0	5	11	14	14	12	0	0	2	1	0	0	0	10	0
July	5.2	S.	19	SW.	0	13	11	1	4	21	9	1	2	0	9	15	7	13	9	0	0	1	3	0	0	0	3	1
August	4.8	S.	25	S.	0	15	3	0	3	25	11	1	4	0	1	16	14	10	7	0	0	0	6	0	0	0	6	0
September	5.2	S.	19	S.	0	15	7	1	2	17	17	1	0	0	6	9	15	9	6	0	0	0	8	0	2	6	1	1
October	5.8	S.	26	S.	0	9	2	3	1	26	10	2	9	0	3	13	15	14	10	1	0	1	2	0	0	16	1	1
November	6.0	S.	23	SW.	0	8	2	0	2	22	21	1	4	0	2	3	25	16	10	12	7	0	1	6	0	21	0	1
December	5.2	N.	19	NE.	0	16	4	0	1	18	15	4	4	0	1	6	24	14	11	21	12	0	1	18	0	31	0	0
Year	6.0	S.	40	S.	2	163	59	8	28	239	147	29	57	0	42	129	194	161	117	100	61	4	23	75	3	182	28	4

NORTH HEAD, WASH.

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

January	11.2	E.	48	W.	9	6	6	15	14	2	2	2	15	0	5	7	19	17	12	7	7	0	1	0	0	12	0	0
February	9.4	N.	42	S.	5	17	1	11	3	6	5	7	5	1	10	6	12	12	8	0	0	0	0	0	0	10	0	0
March	13.7	S.	54	S.	13	11	1	2	6	13	7	12	9	1	4	12	15	25	17	0	0	0	4	0	0	0	0	0
April	14.4	N.	56	SW.	9	16	0	4	5	11	6	5	13	0	3	10	17	20	20	2	2	0	2	0	0	0	0	0
May	13.8	N.	40	S.	6	32	1	1	1	5	4	5	13	0	4	20	7	11	8	0	0	0	6	0	0	0	0	0
June	13.7	N.	66	S.	6	25	1	2	2	10	4	8	8	0	8	12	10	13	11	0	0	0	3	0	0	0	0	0
July	13.3	N.	38	SW.	3	39	1	0	1	10	3	3	5	0	11	14	6	10	4	0	0	0	1	0	0	0	1	0
August	11.6	N.	31	S.	0	30	1	1	5	19	2	1	3	0	13	9	9	6	4	0	0	0	6	0	0	0	1	0
September	9.3	N.	30	N.	0	39	3	4	1	6	2	2	3	0	17	7	6	5	4	0	0	0	7	0	0	0	2	0
October	11.1	S.	44	S.	5	17	1	6	10	21	1	2	3	1	9	7	15	17	9	0	0	1	11	0	0	0	0	0
November	8.1	N.	52	S.	3	29	4	6	10	4	0	3	4	0	13	8	9	9	7	0	0	0	6	0	0	0	0	0
December	14.0	S.	68	S.	11	6	1	10	10	16	8	5	3	3	4	2	25	24	21	0	0	1	6	0	0	0	0	0
Year	12.0	N.	68	S.	70	267	21	62	68	123	44	55	84	6	101	114	150	169	125	9	9	2	53	0	0	22	4	0

NORTH PLATTE, NEBR.

[H_b=2,821 ft.; h_t=11 ft.; h_r=8 ft.; h_a=51 ft.]

January	6.7	N.	30	N.	0	13	6	2	8	10	6	5	12	0	9	9	13	4	1	13	4	0	2	19	0	31	0	0
February	6.5	N.	20	NW.	0	17	6	1	2	5	4	6	15	0	8	11	9	6	4	11	6	0	0	16	0	28	0	0
March	8.2	W.	29	N	0	10	5	3	5	5	5	20	9	0	7	13	11	7	4	7	4	0	1	0	0	27	1	0
April	8.1	NW.	36	N.	1	9	7	6	8	8	6	9	7	0	13	7	10	10	7	2	0	1	1	0	0	7	2	0
May	7.5	S.	27	NW.	0	14	6	7	12	12	4	5	2	0	11	11	9	10	8	0	0	1	0	0	1	1	5	0
June	5.7	SE.	20	NW.	0	10	7	8	12	11	2	6	4	0	15	8	7	10	8	0	0	0	2	0	0	6	0	0
July	5.6	S.	22	N.	0	7	8	11	18	15	1	0	0	2	19	9	3	11	7	0	0	1	0	0	18	0	10	0
August	5.0	SE.	20	N.	0	7	8	11	16	8	5	3	3	1	18	9	4	8	5	0	0	0	0	0	16	0	7	0
September	6.4	NE.	26	N.	0	9	15	7	8	9	1	4	7	0	9	11	10	10	6	0	0	0	0	0	2	0	1	0
October	5.8	N.	22	NW.	0	14	7	5	8	7	1	12	7	1	15	5	11	10	7	3	3	0	0	1	0	8	2	0
November	7.2	N.	26	N.	0	17	8	2	1	5	6	14	7	0	13	10	7	7	4	8	6	0	0	4	0	29	0	0
December	6.2	W.	29	N.	0	12	3	3	2	6	7	20	9	0	21	3	7	1	0	3	1	0	2	7	0	31	0	0
Year	6.6	N.	36	N.	1	139	86	66	100	101	48	104	82	4	158	106	101	94	61	47	24	3	8	47	43	162	33	0

OKLAHOMA CITY, OKLA.

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

January	10.0	N.	34	N.	1	21	7	3	4	20	1	1	5	0	10	8	13	8	6	3	2	0	2	8	0	29	2	0
February	8.3	N.	23	S.	0	21	1	8	5	11	3	3	4	0	9	3	16	9	6	10	5	0	0	8	0	24	1	0
March	10.5	S.	26	S.	0	13	5	4	5	27	1	1	6	0	9	9	13	8	4	1	0	0	0	0	1	3	3	0
April	10.8	S.	27	W.	0	11	0	3	7	27	2	1	9	0	12	9	9	7	4	0	0	2	1	0	0	0	7	0
May	8.9	S.	40	NW.	1	10	7	7	18	15	1	0	3	1	4	11	16	12	9	0	0	0	1	0	0	0	6	0
June	9.2	S.	26	S.	0	7	3	6	11	30	3	0	0	0	19	9	2	7	5	0	0	0	0	0	14	0	9	0
July	7.5	S.	23	W.	0	5	5	4	13	34	0	0	1	0	15	14	2	6	3	0	0	0	0	0	20	0	3	0
August	7.0	S.	19	N.	0	7	7	6	10	26	2	3	0	1	25	5	1	2	2	0	0	0	0	0	29	0	2	0
September	7.6	S.	30	NW.	0	11	4	6	13	19	3	1	3	0	17	3	10	7	7	0	0	0	0	0	6	0	7	0
October	6.9	S.	28	NW.	0	8	5	3	15	14	2	0	11	3	13	9	9	10	7	0	0	0	0	0	0	0	5	0
November	7.8	N.	24	N.	0	19	3	3	3	18	2	2	8	2	9	9	12	9	7	4	1	0	2	0	0	9	0	0
December	8.5	S.	31	N.	0	11	2	2	2	28	5	2	7	3	15	8	8	5	2	1	0	0	3	4	0	16	1	0
Year	8.6	S.	40	NW.	2	144	49	55	107	289	25	14	57	10	157	97	111	90	62	19	8	2	9	20	70	81	46	0

Annual meteorological summary for the year ending December 31, 1929—Continued

OMAHA, NEBR.

[ϕ=41° 16′ N.; λ=95° 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	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.910	29.330	28.260	10.4	16.7	16.4	22.5	4.6	13.6	42	−8	7	9	9	84	72	72	0.062	0.069	0.067	1.15	0.51	6.0	6.7	4.4	5.9
February	28.913	29.333	28.370	14.2	22.4	21.3	26.7	10.4	18.6	49	−11	10	15	14	83	70	74	.075	.090	.088	2.20	1.08	6.1	5.9	5.4	5.8
March	28.701	29.390	28.090	36.0	45.4	46.6	51.2	33.5	42.4	68	14	28	28	28	74	54	52	.159	.158	.160	.54	.26	5.9	6.1	4.0	5.2
April	28.678	29.084	28.180	46.6	57.4	59.3	63.7	44.6	54.2	94	27	39	39	38	76	54	50	.248	.244	.242	3.98	.86	6.1	5.8	6.0	5.8
May	28.849	29.232	28.490	54.0	64.9	65.1	70.1	51.5	60.8	86	33	45	45	46	73	50	52	.340	.332	.337	2.02	.55	5.7	6.5	5.6	6.0
June	28.751	29.037	28.360	64.2	76.1	76.6	80.2	60.9	70.6	97	47	55	55	54	74	50	49	.450	.449	.440	2.94	.80	5.0	5.3	3.7	4.9
July	28.828	29.020	28.550	70.3	81.4	82.1	85.7	68.2	77.0	97	59	62	62	64	76	54	56	.567	.575	.602	5.04	1.68	5.2	5.0	2.1	4.2
August	28.839	29.050	28.540	67.8	81.0	81.0	85.6	65.9	75.8	98	53	59	61	63	76	51	55	.514	.545	.586	1.56	.61	4.0	2.9	2.8	3.2
September	28.841	29.198	28.520	56.7	68.6	67.0	72.6	54.5	63.6	95	41	51	49	51	81	53	59	.383	.367	.390	2.05	.84	5.0	5.0	4.2	4.8
October	28.862	29.170	28.530	48.6	59.9	58.2	63.8	46.3	55.0	80	30	42	41	42	78	55	59	.276	.277	.280	2.69	.86	4.8	4.7	4.5	4.7
November	28.947	29.517	28.522	29.7	37.2	35.8	41.5	26.1	33.8	56	3	24	25	25	79	60	65	.135	.138	.140	1.38	.49	4.5	4.7	3.4	4.5
December	28.896	29.400	28.370	24.5	30.5	29.8	35.1	20.5	27.8	62	−5	20	21	21	83	70	72	.119	.123	.124	.14	.07	5.3	5.6	4.2	5.0
Year	28.835	29.517	28.090	43.6	53.5	53.3	58.2	40.6	49.4	98	−11	37	38	38	78	58	60	.277	.281	.288	25.69	1.68	5.3	5.4	4.2	5.0

OSWEGO, N. Y.

[ϕ=43° 29′ N.; λ=76° 35′ W.]

January	29.621	30.270	28.650	22.7	23.8	24.2	31.3	17.5	24.4	58	3	19	19	19	85	80	79	0.108	0.106	0.107	3.72	0.56	9.0	9.5	8.8	9.1
February	29.716	30.090	29.290	21.5	24.9	25.1	29.4	17.7	23.6	43	4	18	20	20	84	78	81	.099	.107	.108	2.26	.67	8.6	8.8	8.8	8.6
March	29.528	30.020	28.500	34.7	39.2	39.9	45.9	30.7	38.3	68	9	29	31	31	80	73	71	.171	.188	.186	2.76	.44	8.0	8.7	7.2	8.1
April	29.519	30.040	28.897	43.8	47.4	45.8	52.2	37.4	44.8	76	22	38	39	38	80	73	76	.243	.250	.244	4.11	1.17	7.1	6.9	7.7	7.3
May	29.659	30.180	28.560	51.5	53.8	54.0	61.6	43.7	52.6	82	33	43	42	42	73	65	66	.291	.280	.288	4.03	1.32	6.4	6.1	4.6	6.0
June	29.567	29.860	29.100	61.9	65.5	64.2	71.4	54.6	63.0	85	39	53	52	52	73	64	67	.419	.413	.414	2.08	.54	4.8	4.5	5.1	4.8
July	29.635	30.050	29.286	67.0	72.5	70.4	77.9	59.9	68.9	92	51	58	58	57	75	61	65	.501	.493	.487	2.48	.73	5.0	3.9	4.0	4.4
August	29.622	29.954	29.170	63.6	69.0	66.9	73.3	57.1	65.2	87	50	54	54	55	70	60	66	.417	.423	.437	1.39	.51	4.5	4.4	4.0	4.5
September	29.718	30.197	29.350	60.8	67.3	64.0	71.1	55.8	63.4	89	38	53	51	52	77	60	67	.426	.413	.413	3.16	.88	5.7	5.3	5.4	5.4
October	29.658	30.400	29.060	46.0	52.1	50.0	55.9	41.7	48.8	76	28	36	38	38	69	66	64	.225	.239	.239	2.66	1.97	7.5	7.4	7.0	7.5
November	29.628	30.100	28.750	37.2	41.1	39.8	44.7	33.5	39.1	66	10	31	32	32	78	71	72	.190	.195	.191	3.37	.63	8.4	8.8	8.2	8.7
December	29.655	30.300	28.920	25.9	27.2	27.4	32.6	21.1	26.8	41	1	22	23	24	85	82	83	.122	.124	.126	3.07	.68	9.4	9.4	8.9	9.3
Year	29.627	30.400	28.500	44.7	48.6	47.6	53.9	39.2	46.6	92	1	38	38	38	77	69	71	.268	.269	.270	35.09	1.97	7.0	7.0	6.6	7.0

PALESTINE, TEX.

[ϕ=31° 45′ N.; λ=95° 40′ W.]

January	29.550	29.990	29.100	43.4	53.0	51.3	59.6	38.2	48.9	75	22	38	40	39	80	63	63	0.260	0.278	0.261	5.39	2.46	5.7	6.1	4.8	5.9
February	29.539	30.060	29.080	36.8	43.6	44.8	49.6	33.7	41.6	69	17	34	34	36	88	72	72	.204	.208	.220	1.59	.81	4.7	6.8	6.6	6.5
March	29.412	29.830	28.950	54.2	65.3	66.9	71.5	52.0	61.8	92	34	50	50	50	85	60	58	.380	.383	.385	3.21	1.83	5.5	5.5	4.5	5.1
April	29.403	29.750	29.077	61.8	73.5	73.7	78.4	59.8	69.1	88	48	56	56	58	83	56	58	.482	.469	.491	3.75	2.24	6.5	6.0	5.2	5.7
May	29.462	29.690	29.020	66.4	75.2	74.6	79.7	62.5	71.1	89	47	62	62	63	86	67	69	.572	.586	.596	8.55	1.97	7.4	6.5	6.0	6.6
June	29.415	29.600	29.233	72.7	85.6	84.8	89.3	69.8	79.6	95	63	69	69	69	88	59	60	.708	.704	.699	2.88	1.57	3.9	4.9	2.0	3.7
July	29.498	29.650	29.321	74.7	86.5	85.3	90.3	72.2	81.2	95	69	71	69	69	89	57	59	.764	.709	.708	.73	.31	4.5	6.1	4.0	4.7
August	29.468	29.611	29.310	73.2	89.7	88.8	94.6	71.9	83.2	99	64	68	65	65	84	45	46	.691	.631	.619	T.	T.	1.6	2.4	2.5	2.2
September	29.441	29.610	29.200	68.6	84.1	82.1	88.4	66.8	77.6	95	59	64	64	64	86	51	56	.609	.595	.613	3.23	2.06	3.4	3.9	2.8	3.2
October	29.503	29.760	29.040	60.2	74.1	71.7	78.5	58.4	68.4	88	39	54	54	55	82	52	58	.449	.446	.461	3.38	1.44	4.2	3.8	3.5	3.9
November	29.612	29.960	29.274	44.2	54.1	51.7	58.0	40.9	49.4	75	25	40	40	40	85	62	68	.266	.284	.272	6.56	2.90	5.0	6.1	5.9	5.9
December	29.643	30.040	29.210	44.0	53.7	52.8	59.1	41.0	50.0	77	14	39	41	41	84	65	65	.296	.319	.306	3.21	1.56	5.6	5.1	3.3	4.6
Year	29.496	30.060	28.950	58.4	69.9	69.0	74.8	55.6	65.2	99	14	54	54	54	85	59	61	.473	.467	.469	42.48	2.90	4.8	5.3	4.3	4.8

PARKERSBURG, W. VA.

[ϕ=39° 16′ N.; λ=81° 36′ W.]

January	29.448	29.930	28.631	27.8	33.0	32.3	40.4	22.0	31.2	72	−4	22	21	23	76	61	68	0.125	0.130	0.137	2.57	0.46	8.2	7.6	5.7	7.9
February	29.468	29.900	29.020	25.2	33.3	32.9	37.9	22.4	30.2	62	5	20	22	23	81	62	67	.112	.126	.132	2.69	1.00	6.5	6.9	6.0	7.4
March	29.341	29.960	28.630	41.0	52.4	51.6	59.6	37.3	48.4	89	12	34	34	35	77	53	55	.213	.222	.225	2.39	.89	5.8	6.4	4.7	6.0
April	29.296	29.780	28.630	51.3	62.7	59.5	67.9	46.6	57.2	87	31	41	39	41	70	45	53	.272	.255	.269	2.84	.66	5.6	6.7	6.3	6.3
May	29.430	29.847	28.410	56.7	66.2	64.3	71.8	51.4	61.6	89	38	48	49	51	74	56	64	.352	.371	.409	5.02	1.44	6.2	7.4	5.9	6.6
June	29.351	29.590	29.060	63.9	76.0	73.4	80.9	58.9	69.9	91	44	55	56	58	73	51	59	.446	.465	.491	3.31	1.06	4.2	5.1	5.5	5.5
July	29.428	29.690	29.150	68.1	80.6	77.0	85.9	63.6	74.8	93	50	60	60	63	76	52	64	.536	.550	.591	4.35	1.63	5.3	5.1	4.5	5.6
August	29.409	29.700	29.060	62.2	76.6	72.7	80.9	59.5	70.2	90	49	55	56	60	77	52	64	.439	.473	.519	3.87	1.63	4.4	5.0	3.7	5.0
September	29.454	29.740	29.220	59.8	74.6	69.1	79.0	57.1	68.0	92	40	54	56	59	80	53	71	.437	.473	.532	4.12	1.91	4.0	4.6	4.4	5.6
October	29.429	29.920	28.670	47.6	60.3	55.5	64.1	45.0	54.6	77	33	41	42	45	78	55	69	.266	.285	.310	4.34	1.62	5.4	5.5	5.1	6.5
November	29.464	29.930	28.740	38.5	45.6	43.5	50.4	36.1	43.2	76	4	34	35	36	83	67	74	.210	.224	.236	4.16	1.56	6.4	7.9	5.7	7.7
December	29.440	29.930	28.790	34.6	40.1	38.3	44.5	30.4	37.4	65	8	28	30	30	76	66	72	.169	.182	.186	2.48	.79	7.9	7.2	6.1	7.7
Year	29.413	29.960	28.410	48.1	58.4	55.8	63.6	44.2	53.9	93	−4	41	42	44	77	56	65	.298	.313	.336	42.14	1.91	5.8	6.3	5.3	6.5

Annual meteorological summary for the year ending December 31, 1929—Continued

OMAHA, NEBR.

[H_b=1,105 ft.; h_t=115 ft.; h_r=107 ft.; h_a=122 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp-: 32° or below	Maximum temp-: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	8.5	NW.	35	NW.	4	11	8	4	11	6	2	1	19	0	9	9	13	11	6	17	11	0	0	26	0	31	1	0
February	7.6	NW.	26	NW.	0	10	4	5	9	4	4	6	14	0	10	5	13	10	6	17	10	0	0	19	0	28	0	0
March	7.9	NW.	34	NW.	1	8	7	2	9	11	5	5	14	1	11	11	9	4	4	4	2	0	1	2	0	12	2	0
April	7.9	NE.	34	N.	1	2	12	7	6	9	5	4	14	1	10	9	11	14	11	0	0	2	0	0	1	1	4	0
May	7.1	SE.	30	NW.	0	8	6	9	14	12	2	4	6	1	6	14	11	11	9	0	0	1	0	0	0	0	6	0
June	6.6	S.	26	N.	0	9	6	3	8	19	3	3	9	0	11	11	8	14	11	0	0	3	1	0	7	0	10	0
July	5.5	S.	21	NW.	0	10	7	8	9	20	4	0	4	0	13	16	2	11	10	0	0	0	1	0	9	0	11	0
August	5.7	S.	26	NW.	0	11	6	6	9	22	1	2	4	1	16	13	2	7	5	0	0	0	2	0	9	0	9	0
September	6.9	S.	26	NW.	0	13	4	6	5	19	4	3	6	0	14	7	9	13	7	0	0	0	0	0	2	0	8	0
October	6.6	N.	30	NW.	0	12	1	9	4	15	6	7	8	0	14	7	10	11	9	0	0	0	1	0	0	1	4	0
November	8.0	NW.	30	NW.	0	16	3	0	2	7	12	7	13	0	12	13	5	8	5	10	6	1	1	6	0	20	0	0
December	7.5	NW.	30	NW.	0	10	7	0	2	12	7	5	19	0	15	5	11	5	2	6	3	0	3	10	0	21	0	0
Year	7.2	NW.	35	NW.	6	120	71	59	88	156	55	47	130	4	141	120	104	119	85	54	32	7	10	63	28	114	55	0

OSWEGO, N. Y.

[H_b=335 ft.; h_t=76 ft.; h_r=68 ft.; h_a=91 ft.]

January	13.4	NW.	35	W.	2	2	2	0	13	12	10	8	15	0	1	1	29	25	21	28	21	1	0	19	0	30	2	0
February	9.1	SE.	32	SE.	0	3	3	1	15	10	5	9	10	0	1	4	23	15	11	20	13	0	0	17	0	27	0	0
March	10.0	S.	34	SW.	1	4	4	1	14	14	5	11	9	0	2	6	23	20	14	9	8	1	4	2	0	14	1	0
April	10.1	W.	40	W.	2	4	6	0	13	10	6	13	8	0	4	9	17	20	16	3	0	0	3	0	0	3	3	0
May	8.1	W.	34	W.	1	8	3	1	9	12	11	17	1	0	7	11	13	13	11	1	0	0	2	0	0	0	1	0
June	6.4	W.	20	N.	0	8	0	2	4	11	12	17	6	0	11	9	10	8	7	0	0	0	0	0	0	0	6	0
July	6.4	S.	26	N.	0	6	2	4	2	20	9	16	3	0	14	9	8	10	8	0	0	0	0	0	0	0	9	0
August	6.9	S.	25	W.	0	4	5	4	9	15	2	13	10	0	14	8	9	8	7	0	0	0	1	0	0	0	3	0
September	7.2	S.	24	SW.	0	6	3	5	14	17	5	8	2	0	9	10	11	12	10	0	0	1	0	0	0	0	2	0
October	9.7	S.	31	SE.	0	6	4	3	14	15	5	4	11	0	4	8	19	12	5	1	0	1	0	0	0	4	0	0
November	9.7	S.	30	NW.	0	3	2	2	8	20	10	8	7	0	1	3	26	20	13	9	7	1	0	4	0	12	1	0
December	9.4	S.	30	W.	0	3	11	4	5	13	13	6	7	0	0	3	28	21	13	20	12	0	1	16	0	27	0	0
Year	8.9	S.	40	W.	6	57	45	27	120	169	93	130	89	0	68	81	216	184	136	91	61	4	11	58	2	117	28	0

PALESTINE, TEX.

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

January	7.4	S.	25	NW.	0	8	8	9	6	16	3	4	8	0	9	7	15	10	5	0	0	0	4	0	0	10	2	0
February	6.8	N.	21	S.	0	13	11	8	6	4	0	1	13	0	9	2	17	13	7	1	0	0	5	2	0	11	1	0
March	7.9	S.	28	S.	0	3	6	5	13	20	5	9	1	0	10	11	10	8	8	0	0	0	1	0	1	0	5	0
April	8.3	S.	27	NW.	0	6	8	1	14	19	4	3	5	0	8	13	9	5	5	0	0	0	0	0	0	0	4	0
May	7.6	S.	32	NW.	0	4	6	10	20	16	1	1	4	0	6	9	16	14	12	0	0	0	1	0	0	0	10	0
June	5.7	S.	32	SW.	0	3	4	9	12	23	7	2	0	0	15	11	4	3	2	0	0	0	1	0	0	12	0	3
July	5.6	S.	32	S.	0	1	7	9	9	26	8	1	1	0	10	15	6	8	5	0	0	0	0	0	0	21	0	6
August	5.1	S.	18	NE.	0	2	8	11	7	20	12	1	1	0	24	6	1	0	0	0	0	0	1	0	0	30	0	1
September	5.0	NE.	26	NW.	0	10	18	11	4	11	2	3	1	0	18	7	5	4	4	0	0	0	0	0	0	11	0	4
October	5.5	S.	20	NW.	0	10	12	9	8	11	2	3	6	1	16	8	7	6	5	0	0	0	1	0	0	0	4	0
November	6.0	N.	21	NW.	0	18	13	6	2	6	2	5	8	0	10	7	13	10	8	1	0	0	2	0	0	7	2	0
December	7.2	S.	26	NW.	0	10	2	2	9	23	4	4	8	0	14	7	10	7	7	3	2	0	3	3	0	9	1	0
Year	6.5	S.	32	NW.	0	88	103	90	110	195	50	37	56	1	149	103	113	88	68	5	2	2	17	5	75	37	43	0

PARKERSBURG, W. VA.

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

January	6.5	SW.	36	W.	1	2	6	1	13	2	16	16	6	0	5	3	23	18	14	12	7	0	0	11	0	29	0	0
February	4.5	SW.	20	SE.	0	4	9	1	9	3	13	6	11	0	5	7	16	11	10	9	5	0	0	8	0	23	0	0
March	6.2	SE.	36	SW.	1	1	4	0	17	9	13	8	10	0	8	9	14	14	12	5	3	0	1	0	0	11	1	0
April	6.9	SW.	34	NW.	1	6	5	2	13	6	10	6	12	0	11	4	15	15	13	0	0	1	0	0	0	1	6	0
May	4.9	NW.	27	W.	0	10	5	0	12	7	14	4	10	0	8	7	16	19	15	1	0	1	0	0	0	0	7	0
June	4.1	SE.	20	SW.	0	6	2	0	18	4	11	8	11	0	12	8	10	10	9	0	0	1	0	0	0	4	0	11
July	4.0	SE.	20	NW.	0	5	5	1	19	5	14	5	8	0	10	9	12	12	12	0	0	0	0	0	0	8	0	11
August	3.6	NW.	22	NW.	0	14	2	1	12	5	7	8	13	0	13	9	9	10	8	0	0	0	1	0	1	0	9	0
September	3.5	SE.	28	NW.	0	16	7	3	23	2	3	4	2	0	11	7	12	11	9	0	0	0	3	0	0	5	0	5
October	5.1	SE.	18	SW.	0	6	7	3	12	9	11	3	11	0	7	8	16	13	11	1	1	0	3	0	0	0	0	0
November	5.2	SW.	28	SW.	0	10	3	0	9	9	16	4	9	0	5	3	22	16	11	4	3	0	2	3	0	11	0	0
December	5.6	SW.	18	SW.	0	6	1	1	11	11	20	6	6	0	7	3	21	18	13	10	7	0	1	8	0	16	0	0
Year	5.0	SW.	36	W.	3	86	56	13	168	72	148	78	109	0	102	77	186	167	137	42	26	3	11	30	18	91	50	0

Annual meteorological summary for the year ending December 31, 1929—Continued

PENSACOLA, FLA.
[ϕ=30° 25′ N.; λ=87° 13′ 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.062	30.410	29.670	51.6	57.3	57.1	61.6	48.0	54.8	73	28	48	48	47	87	74	72	0.374	0.380	0.370	5.40	1.38	5.5	5.5	5.4	5.7
February	29.999	30.410	29.620	48.9	55.8	55.3	60.0	46.5	53.2	70	31	44	46	48	84	72	76	.321	.345	.359	5.18	1.17	7.3	7.2	6.3	6.8
March	29.966	30.290	29.530	59.5	65.2	64.7	68.2	57.9	63.0	82	41	54	56	56	81	73	76	.444	.479	.487	6.42	2.96	5.2	5.0	4.6	4.9
April	29.945	30.350	29.450	67.9	73.1	71.2	74.8	65.5	70.2	83	54	62	62	62	81	70	75	.568	.571	.574	3.30	1.33	6.1	5.0	5.6	5.3
May	30.007	30.290	29.592	73.1	76.7	75.1	78.5	70.7	74.6	86	56	68	67	68	84	74	80	.698	.688	.706	2.06	1.36	6.4	7.2	6.2	6.4
June	29.911	30.090	29.680	77.0	81.4	78.8	83.5	73.3	78.4	90	67	71	71	70	83	72	76	.777	.776	.748	7.51	3.77	4.2	5.8	6.5	5.6
July	30.011	30.160	29.740	77.7	83.0	79.8	84.6	75.0	79.8	92	69	73	73	73	85	72	79	.807	.808	.806	4.83	1.94	5.3	6.0	7.2	5.9
August	29.945	30.120	29.780	77.8	84.4	81.2	86.4	75.9	81.2	93	68	73	76	73	86	75	77	.827	.889	.821	5.04	1.01	4.7	5.6	5.1	5.2
September	29.886	30.068	29.133	73.5	78.6	77.1	81.4	72.1	76.8	89	61	70	71	70	88	79	80	.742	.781	.749	8.96	4.84	5.9	6.7	5.8	6.2
October	29.970	30.240	29.390	63.8	72.5	70.5	74.9	62.2	68.6	84	48	57	60	59	79	66	68	.484	.536	.517	2.93	1.42	3.2	4.2	3.2	3.8
November	30.038	30.380	29.783	56.2	62.3	60.0	65.2	53.5	59.4	77	26	52	54	53	88	75	78	.437	.458	.453	7.04	2.29	7.2	6.3	6.0	6.1
December	30.142	30.470	29.540	46.6	53.4	52.5	58.0	43.2	50.6	69	20	43	46	45	87	78	76	.309	.346	.338	2.12	.75	4.7	4.9	3.8	5.1
Year	29.990	30.470	29.133	64.5	70.3	68.6	73.1	62.0	67.6	93	20	60	61	60	84	73	76	.566	.588	.577	60.79	4.84	5.5	5.8	5.5	5.6

PEORIA, ILL.
[ϕ=40° 43′ N.; λ=89° 36′ 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.434	29.880	28.606	14.4	21.3	19.6	27.4	8.1	17.8	46	−8	12	15	16	87	76	83	0.080	0.096	0.093	3.98	1.32	6.0	5.8	5.0	5.4
February	29.461	29.950	28.770	15.5	25.4	24.2	29.7	12.6	21.2	50	−9	13	17	18	91	70	77	.087	.100	.106	.58	.33	5.6	5.6	5.5	5.5
March	29.258	29.936	28.610	38.2	50.2	48.0	55.8	35.1	45.4	81	17	34	36	36	82	60	65	.205	.227	.234	4.57	2.28	4.7	4.6	5.5	4.7
April	29.246	29.660	28.630	47.9	58.5	56.4	62.7	44.5	53.6	86	29	41	39	44	78	58	65	.276	.292	.307	4.56	1.33	6.0	6.2	5.3	5.3
May	29.408	29.790	28.905	53.9	65.3	63.2	69.4	49.5	59.4	90	34	47	47	48	78	54	59	.358	.368	.368	5.03	2.30	5.9	6.1	6.3	5.9
June	29.311	29.555	28.930	63.5	75.2	73.6	79.5	57.7	68.6	93	41	57	56	57	81	54	59	.487	.476	.488	4.44	2.44	5.2	5.5	5.0	5.0
July	29.383	29.623	29.146	69.9	81.7	79.8	85.1	65.5	75.3	93	54	64	65	65	82	59	63	.613	.636	.642	5.76	1.44	4.4	5.8	5.1	4.9
August	29.394	29.610	29.050	64.1	78.6	74.5	82.1	61.0	71.6	95	49	59	61	62	84	56	66	.510	.543	.566	3.02	1.67	3.6	4.5	4.8	4.5
September	29.408	29.708	29.091	57.4	72.1	66.4	75.9	54.6	65.2	92	35	53	54	54	85	56	66	.418	.440	.407	1.04	.30	4.4	4.5	4.3	4.2
October	29.400	29.740	29.047	45.0	60.3	55.1	63.1	42.8	53.0	80	30	41	43	44	87	57	68	.269	.295	.299	3.89	1.17	5.1	4.3	4.2	4.6
November	29.458	30.020	28.810	29.9	42.5	37.4	43.6	27.9	35.8	57	−1	27	29	30	89	62	74	.160	.172	.175	1.72	.85	4.6	5.8	4.7	4.7
December	29.398	29.880	29.010	24.4	31.7	30.2	35.1	21.4	28.2	55	−4	23	26	27	94	80	86	.135	.151	.152	1.07	.44	6.4	6.9	6.5	6.5
Year	29.380	30.020	28.606	43.7	55.2	52.4	59.1	40.1	49.6	95	−9	39	41	42	85	62	69	.300	.316	.320	39.66	2.44	5.2	5.5	5.2	5.1

PHILADELPHIA, PA.
[ϕ=39° 57′ N.; λ=75° 09′ 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.963	30.570	29.200	31.5	36.0	34.7	41.5	26.9	34.2	63	9	22	25	24	68	64	64	0.138	0.148	0.142	2.70	0.87	4.9	7.0	4.7	5.9
February	29.990	30.320	29.490	30.2	37.4	37.6	42.5	28.0	35.2	58	17	24	25	27	75	62	65	.134	.145	.152	4.24	1.38	4.8	4.4	5.1	5.1
March	29.849	30.390	28.840	44.2	53.3	49.9	57.6	39.2	48.4	78	14	38	40	39	77	62	68	.251	.272	.269	2.22	.92	5.1	5.9	4.3	5.7
April	29.791	30.340	28.870	50.5	59.3	57.3	63.9	46.4	55.2	90	37	43	46	46	76	65	70	.286	.320	.329	6.44	2.41	6.6	6.9	5.9	6.6
May	29.959	30.440	28.880	58.8	67.5	64.8	72.2	53.3	62.8	92	44	52	56	55	79	67	72	.411	.467	.460	2.28	.52	6.2	6.5	5.2	6.1
June	29.834	30.030	29.460	68.7	77.8	74.9	82.2	63.5	72.8	95	48	60	62	60	74	59	61	.536	.568	.540	2.74	1.12	5.0	4.8	5.5	5.1
July	29.920	30.247	29.520	72.2	81.8	78.4	85.5	68.0	76.8	93	58	62	60	62	71	50	58	.568	.549	.569	1.53	.65	5.2	6.3	4.3	5.3
August	29.882	30.230	29.430	69.0	78.5	74.9	81.8	64.7	73.2	92	59	58	56	57	69	47	56	.497	.467	.489	3.22	1.53	4.7	6.1	4.3	5.0
September	29.991	30.336	29.630	64.8	74.9	70.2	79.1	61.5	70.3	94	45	57	57	58	76	57	68	.488	.504	.516	6.51	3.00	5.9	5.9	4.5	5.1
October	29.942	30.610	29.260	50.6	60.3	56.8	63.7	48.0	55.8	77	37	43	43	43	76	55	63	.289	.304	.300	3.59	2.04	4.8	5.0	4.2	5.1
November	29.960	30.440	29.110	45.4	50.7	47.8	53.1	41.8	47.4	77	14	38	38	38	75	63	70	.260	.289	.260	3.11	1.01	6.5	6.8	5.7	6.6
December	29.962	30.530	29.410	34.8	39.7	39.3	44.5	31.8	38.2	65	16	28	30	30	74	67	68	.164	.177	.178	2.98	1.37	6.8	6.6	5.5	6.4
Year	29.920	30.610	28.840	51.7	59.8	57.2	64.0	47.8	55.9	95	9	44	45	45	74	60	65	.335	.349	.350	41.56	3.00	5.5	5.9	4.9	5.7

PHOENIX, ARIZ.
[ϕ=33° 28′ N.; λ=112° 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.818	29.130	28.470	40.2	58.4	58.7	62.8	37.4	50.1	72	27	29	28	30	66	34	35	0.164	0.160	0.167	0.92	0.61	2.5	5.0	4.9	4.8
February	28.803	29.110	28.440	43.0	60.6	62.9	65.9	40.1	53.0	80	28	30	27	26	62	30	26	.174	.154	.145	.28	.25	2.9	4.0	3.3	3.6
March	28.753	29.120	28.380	48.4	69.7	71.2	74.6	46.1	60.4	86	34	29	26	24	48	21	19	.160	.145	.136	.13	.10	2.5	4.2	4.0	3.5
April	28.708	28.900	28.453	53.6	75.7	77.8	80.8	51.6	66.2	91	39	31	28	25	42	19	15	.175	.161	.140	.43	.43	2.4	2.8	2.0	2.4
May	28.646	28.930	28.259	63.4	89.1	90.6	93.8	62.2	78.0	100	51	32	28	27	32	12	11	.189	.158	.154	.01	.01	2.5	2.5	2.6	2.4
June	28.608	28.830	28.400	71.0	98.0	100.3	103.5	69.4	86.4	118	55	38	34	30	31	11	9	.240	.205	.179	T.	T.	1.7	1.5	1.7	1.3
July	28.667	28.870	28.398	81.6	97.4	100.7	103.8	80.2	92.0	111	74	62	60	56	54	31	26	.567	.523	.470	.79	.60	0.4	4.1	5.0	4.6
August	28.696	28.840	28.558	79.2	96.1	98.4	102.2	77.1	89.6	108	73	66	62	59	65	34	29	.641	.564	.506	2.09	1.01	4.8	2.8	4.9	3.7
September	28.623	28.800	28.385	72.3	92.8	93.0	97.3	70.7	84.0	107	65	59	55	54	64	31	30	.508	.457	.439	.19	.15	3.0	2.6	2.7	2.4
October	28.715	28.930	28.300	62.0	85.2	84.0	89.6	59.8	74.7	104	40	43	42	42	51	23	23	.292	.282	.278	.09	.09	1.0	1.9	1.7	1.8
November	28.862	29.150	28.620	44.7	68.6	67.3	74.1	41.7	57.9	87	32	25	24	29	46	19	25	.140	.136	.171	.11	.11	.4	1.8	1.1	1.0
December	28.885	29.210	28.600	43.1	67.0	65.4	72.7	40.0	56.4	79	30	22	23	27	42	18	24	.116	.120	.149	T.	T.	.8	2.5	1.8	2.0
Year	28.732	29.210	28.259	58.5	79.9	80.9	85.1	56.4	70.7	118	27	39	36	36	50	24	23	.260	.255	.244	5.04	1.01	2.6	3.0	3.0	2.8

Annual meteorological summary for the year ending December 31, 1929—Continued

PENSACOLA, FLA.

[H_b=56 ft.; h_t=149 ft.; h_r=131 ft.; h_a=185 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 31 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	12.1	N.	50	SE.	1	9	13	11	2	9	3	11	4	0	9	6	16	11	9	0	0	0	8	0	0	3	1	0
February	12.4	N.	38	S.	2	15	16	7	5	6	4	2	1	0	4	6	18	12	10	0	0	0	3	0	0	2	4	0
March	13.9	S.	51	S.	8	6	8	6	13	9	8	7	4	1	13	9	9	6	7	0	0	1	2	0	0	0	5	0
April	12.6	S.	36	W.	1	10	4	5	10	18	5	6	2	0	10	10	10	7	7	0	0	1	0	0	0	0	6	0
May	13.0	S.	56	SW.	3	6	3	9	10	20	7	6	1	0	5	11	15	5	4	0	0	0	0	0	0	0	6	0
June	10.8	S.	54	S.	4	6	9	3	6	14	8	10	4	0	6	17	7	10	8	0	0	1	0	0	1	0	11	0
July	9.5	E.	45	E.	1	10	8	11	6	6	0	8	7	0	5	15	10	16	11	0	0	0	0	0	2	0	16	0
August	8.4	W.	28	NE.	0	14	10	5	3	5	3	17	5	0	9	15	7	10	8	0	0	0	0	0	2	0	15	0
September	12.3	NE.	70	NE.	1	12	16	12	4	7	6	1	1	1	7	10	13	12	10	0	0	0	0	0	2	0	8	0
October	12.5	N.	38	SE.	3	14	16	8	8	2	4	6	4	0	19	5	7	5	4	0	0	0	0	0	0	0	3	0
November	11.6	N.	30	W.	0	16	18	2	6	9	1	4	4	0	8	6	16	13	11	0	0	0	0	0	2	0	2	0
December	10.3	N.	36	S.	2	19	8	11	4	6	3	6	4	1	12	6	13	6	6	1	0	0	9	0	0	9	3	0
Year	11.6	S.	70	NE.	26	137	129	90	77	111	58	84	41	3	107	117	141	115	95	1	0	3	22	0	5	16	80	0

PEORIA, ILL.

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

January	7.4	NW.	27	W.	0	11	5	9	6	8	1	11	10	1	12	7	12	13	10	17	8	0	3	18	0	31	1	0
February	6.0	NW.	23	W.	0	11	4	9	1	9	6	8	8	0	9	8	11	9	2	14	8	0	1	18	0	25	0	0
March	7.9	S.	33	NW.	1	10	8	2	7	17	9	6	3	0	13	10	8	9	6	3	0	0	1	2	0	11	3	0
April	8.1	S.	28	NW.	0	4	14	6	8	12	4	7	5	0	13	6	11	14	14	1	0	1	0	0	0	1	5	0
May	5.8	S.	28	SW.	0	5	10	7	11	10	4	5	9	1	5	16	10	14	12	1	0	1	0	0	0	0	7	0
June	5.1	S.	28	N.	0	0	15	2	3	14	9	8	8	1	10	11	9	10	9	0	0	1	0	0	2	0	7	0
July	4.1	SW.	16	N.	0	3	9	8	9	10	11	4	8	0	8	17	6	12	9	0	9	0	2	0	8	0	9	0
August	3.9	NE.	13	NW.	0	5	10	2	10	16	5	1	9	4	12	15	4	7	6	0	0	0	0	0	1	0	6	0
September	4.7	S.	17	SW.	0	4	11	10	11	12	1	4	7	0	15	8	7	7	7	0	0	0	0	0	3	0	3	0
October	5.6	E.	20	W.	0	9	6	9	6	5	13	4	9	1	15	4	12	12	11	2	2	0	2	0	0	2	1	0
November	6.1	NW.	25	W.	0	5	7	3	4	10	10	11	10	0	13	6	11	7	5	4	2	0	2	5	0	19	0	0
December	6.3	W.	24	N.	0	7	3	7	4	14	8	13	5	1	7	9	15	9	7	7	4	0	8	9	0	24	1	0
Year	5.9	S.	33	NW.	1	74	102	74	80	137	81	82	91	9	132	117	116	123	98	49	24	3	19	52	14	113	43	0

PHILADELPHIA, PA.

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

January	13.2	NW.	45	S.	8	6	5	1	1	4	13	11	21	0	8	9	14	9	7	4	2	0	1	4	0	24	0	0
February	12.3	NW.	34	NW.	3	8	11	4	2	3	9	3	16	0	11	8	9	8	8	4	3	0	2	3	0	17	0	0
March	14.3	SW.	48	NW.	9	3	3	2	2	15	20	2	15	0	10	9	12	10	8	4	0	0	0	0	0	8	0	2
April	14.9	SW.	50	NE.	7	4	9	7	0	9	15	8	8	0	7	6	17	16	16	0	0	0	0	0	1	0	4	0
May	13.1	SW.	45	S.	6	7	5	5	3	11	19	6	6	0	8	8	15	15	13	0	0	0	1	0	1	0	4	0
June	11.0	SW.	32	N.	0	10	7	2	1	10	14	6	10	0	10	11	9	7	6	0	0	0	0	0	6	0	7	0
July	11.0	SW.	36	S.	3	4	8	6	3	10	17	7	7	0	8	14	9	9	7	0	0	0	0	0	10	0	7	0
August	10.7	N.	40	NW.	2	9	8	3	5	11	10	6	10	0	9	13	9	9	6	0	0	0	0	0	1	0	4	0
September	10.6	SW.	44	SW.	2	9	12	6	3	9	15	3	3	0	11	8	11	9	9	0	0	0	0	0	4	0	5	0
October	13.2	SW.	46	S.	6	8	7	7	2	6	15	10	7	0	9	12	10	8	8	0	0	0	0	0	0	0	1	0
November	11.5	SW.	36	W.	3	8	8	2	2	6	11	11	12	0	6	9	15	10	7	2	0	0	1	2	0	5	0	0
December	10.9	SW.	37	NE.	1	10	12	0	3	2	16	11	8	0	6	9	16	8	7	6	2	0	2	2	0	15	1	0
Year	12.2	SW.	50	NE.	50	86	95	45	27	96	174	84	123	0	103	116	146	118	102	20	7	0	7	11	23	69	33	2

PHOENIX, ARIZ.

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

January	4.4	E.	27	NW.	0	2	4	18	7	0	7	14	10	0	11	11	9	5	4	0	0	0	0	0	0	6	0	0
February	5.5	E.	26	NW.	0	5	3	18	2	2	5	15	6	0	14	8	6	4	2	0	0	0	0	0	0	2	1	0
March	5.6	E.	27	SW.	0	4	4	21	2	0	4	17	10	0	17	6	8	2	1	0	0	0	0	0	0	0	1	0
April	5.5	W.	19	SW.	0	2	2	17	1	3	7	20	8	0	21	4	5	1	1	0	0	0	0	0	2	0	0	0
May	5.8	W.	24	W.	0	3	7	18	1	2	4	16	11	0	20	9	2	1	0	0	0	0	0	0	26	0	1	0
June	5.6	W.	26	S.	0	3	5	12	5	1	5	23	6	0	23	6	1	0	0	0	0	0	0	0	30	0	1	0
July	5.4	W.	25	S.	0	3	0	20	7	4	3	23	2	0	13	9	9	4	4	0	0	0	0	0	31	0	5	0
August	4.7	W.	33	E.	1	5	6	14	7	1	5	18	6	0	17	11	3	11	9	0	0	0	0	0	28	0	17	0
September	4.4	SE.	20	SE.	0	11	3	16	6	6	1	11	6	0	20	8	2	3	1	0	0	0	0	0	28	0	4	0
October	4.0	E.	21	W.	0	4	5	14	11	4	3	10	11	0	24	6	1	1	1	0	0	0	0	0	22	0	1	0
November	3.5	E.	19	N.	0	5	3	21	5	0	6	10	8	2	25	5	0	1	1	0	0	0	0	0	0	1	1	0
December	3.5	E.	16	E.	0	2	5	24	11	2	2	8	4	4	23	7	1	0	0	0	0	0	0	0	0	3	0	0
Year	4.8	E.	33	E.	1	49	47	213	65	25	52	185	88	6	228	90	47	33	24	0	0	0	0	0	170	12	32	0

Annual meteorological summary for the year ending December 31, 1929—Continued

PIERRE, S. DAK.
[ϕ=44° 22′ N.; λ=100° 21′ W.]

Month	Pressure			Temperature								Moisture												
		Extremes		Mean					Extremes			Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.441	28.900	27.720	2.3	8.2	6.4	10.4	−5.3	5.6	47	−26	−2	3	1	81	81	78	0.044	0.055	0.048	0.95	0.20	6.3	6.7	5.2	6.4
February	28.409	28.770	27.820	6.9	15.0	15.6	22.8	1.2	12.0	40	−22	4	10	10	88	79	78	.058	.074	.077	.59	.20	7.2	6.4	5.6	6.2
March	28.184	28.780	27.550	31.8	43.0	43.0	48.7	28.4	38.6	71	16	29	33	33	88	70	70	.159	.192	.187	1.27	.44	6.0	5.2	6.2	5.6
April	28.201	28.470	27.470	37.8	53.4	55.1	59.5	36.0	47.8	83	24	34	40	37	85	64	54	.195	.258	.221	3.16	2.28	5.2	5.7	6.4	6.0
May	28.333	28.830	27.720	48.0	62.5	65.0	68.6	44.5	56.6	87	30	42	42	42	78	50	47	.276	.286	.292	1.66	.56	5.0	3.8	4.4	4.1
June	28.257	28.550	27.700	58.9	73.4	74.7	79.4	55.5	67.4	100	46	52	52	52	78	51	48	.395	.409	.394	1.83	1.09	4.7	5.6	5.6	5.7
July	28.293	28.559	27.880	68.5	86.8	87.7	92.2	64.8	78.5	106	49	59	52	56	72	34	36	.509	.423	.468	.79	.22	4.3	3.1	3.7	3.8
August	28.326	28.600	27.930	64.9	86.5	86.4	92.4	62.6	77.5	108	44	53	49	50	68	30	32	.417	.368	.377	.68	.63	2.5	3.3	4.1	3.1
September	28.354	28.740	27.810	51.8	63.8	62.5	68.1	48.3	58.2	104	37	46	48	45	81	61	57	.320	.356	.306	1.28	.56	7.6	5.8	5.6	6.1
October	28.386	28.820	28.042	42.9	58.3	55.9	63.2	40.2	51.7	86	28	37	42	40	81	59	60	.228	.282	.255	2.92	.89	4.3	4.5	4.8	4.5
November	28.438	29.130	27.920	26.3	35.3	33.7	40.0	22.9	31.4	61	−4	21	24	24	79	65	69	.116	.132	.135	.58	.22	4.4	5.9	4.8	5.5
December	28.409	29.170	27.880	20.4	24.6	23.8	30.6	14.3	22.4	56	−13	15	16	17	79	69	73	.092	.098	.102	.08	.06	3.8	5.8	3.8	5.0
Year	28.336	29.170	27.470	38.4	50.9	50.8	56.8	34.4	45.6	108	−26	32	34	34	80	59	58	.234	.244	.238	15.79	2.28	5.1	5.2	5.0	5.2

PITTSBURGH, PA.
[ϕ=40° 26′ N.; λ=80° 00′ W.]

January	29.158	29.680	28.330	25.7	29.3	29.4	36.6	19.4	23.0	69	−4	19	20	19	73	66	65	0.116	0.124	0.119	3.33	0.81	8.0	7.5	7.5	7.5
February	29.187	29.600	28.750	25.0	30.7	30.6	34.8	22.4	26.6	58	3	20	23	22	79	70	70	.114	.128	.124	2.62	.80	8.2	7.9	7.4	8.0
March	29.054	29.640	28.220	40.4	48.5	49.1	56.0	36.8	46.4	84	11	32	31	33	71	57	57	.200	.201	.216	2.15	.77	6.6	6.9	5.7	6.9
April	29.017	29.487	28.410	49.0	56.3	56.0	62.4	44.5	53.4	83	31	41	42	40	73	62	59	.268	.288	.267	4.29	.86	7.0	7.2	6.1	7.3
May	29.160	29.617	28.130	55.6	63.9	62.9	69.3	49.7	59.5	93	33	47	47	48	74	57	60	.345	.350	.354	5.38	1.40	5.6	6.5	5.7	6.3
June	29.081	29.293	28.750	64.0	74.0	72.1	78.5	58.9	68.7	92	40	54	53	54	72	49	54	.436	.418	.429	2.21	1.28	3.8	5.0	5.8	5.5
July	29.162	29.465	28.880	68.0	78.9	76.1	82.4	63.6	73.0	91	51	59	59	59	75	52	57	.522	.521	.523	3.50	1.08	5.8	4.9	4.6	5.2
August	29.143	29.440	28.790	62.2	74.5	72.6	77.9	58.6	68.2	87	51	56	53	54	79	50	54	.450	.424	.432	1.79	.79	4.7	5.2	4.5	4.9
September	29.198	29.518	28.930	61.2	73.0	70.5	76.4	57.8	67.1	90	40	54	54	53	78	53	57	.443	.441	.436	1.05	.51	5.3	5.5	4.6	5.3
October	29.154	29.700	28.370	47.0	56.6	54.6	60.4	43.9	52.2	74	34	41	44	42	81	66	64	.268	.304	.277	5.07	3.22	6.5	6.2	5.1	6.1
November	29.166	29.616	28.380	37.4	43.3	42.4	47.8	34.3	41.0	76	1	32	32	33	82	65	68	.201	.203	.210	3.38	1.66	5.5	5.1	6.4	7.1
December	29.140	29.630	28.530	32.6	35.6	35.9	40.9	28.4	34.6	63	8	28	30	29	84	79	75	.170	.181	.176	2.15	.58	8.8	8.9	7.6	8.4
Year	29.135	29.700	28.130	47.3	55.4	54.4	60.3	43.2	51.7	93	−4	40	41	40	77	60	62	.294	.299	.297	36.92	3.22	6.3	6.6	5.9	6.5

POCATELLO, IDAHO
[ϕ=42° 52′ N.; λ=112° 29′ W.]

January	25.425	25.900	24.840	13.6	17.5	20.2	26.4	8.0	17.2	36	−20	10	13	15	85	80	78	0.071	0.080	0.085	2.02	0.58	6.5	6.3	7.3	7.0
February	25.458	25.890	25.160	16.7	23.1	24.4	28.3	13.5	21.9	44	−12	12	16	16	80	73	68	.083	.098	.095	.74	.37	5.9	5.4	5.3	6.1
March	25.388	25.780	24.840	31.7	40.4	42.0	46.1	29.2	37.6	59	20	24	26	26	74	57	55	.133	.140	.143	.82	.31	6.7	5.8	5.9	6.2
April	25.340	25.650	24.870	36.4	46.4	48.6	52.4	34.5	43.4	69	24	27	28	26	69	48	45	.148	.145	.144	2.61	.85	7.0	7.1	6.8	7.0
May	25.431	25.750	25.120	43.0	61.0	63.4	67.1	40.8	54.0	82	27	28	29	28	58	33	29	.158	.164	.153	.40	.23	3.8	4.8	4.6	4.8
June	25.427	25.740	25.030	51.0	69.3	72.4	75.9	49.3	62.6	94	33	36	38	33	59	34	26	.218	.230	.190	1.47	1.25	3.7	4.6	4.6	4.2
July	25.489	25.670	25.315	61.9	81.5	85.9	88.5	59.6	74.0	96	43	42	44	38	49	28	21	.277	.301	.251	.11	.07	2.8	3.1	3.0	3.9
August	25.537	25.700	25.368	62.2	82.7	84.7	88.7	59.7	74.2	98	49	45	46	40	57	30	25	.319	.318	.271	1.11	.42	3.2	3.2	4.5	4.2
September	25.459	25.650	25.220	46.9	62.1	66.8	69.5	43.8	56.6	88	30	33	34	31	61	38	30	.195	.198	.180	1.21	.41	3.5	3.8	4.7	3.9
October	25.569	25.870	25.130	39.9	59.0	57.6	64.9	37.0	51.0	78	22	28	31	28	64	37	34	.159	.174	.154	.67	.49	.8	3.1	3.8	2.8
November	25.654	25.950	25.284	27.4	38.8	38.0	45.5	22.9	31.2	63	8	18	24	23	70	56	54	.102	.133	.124	.46	.30	2.6	4.0	4.4	4.0
December	25.560	25.850	25.167	31.4	37.8	38.2	43.8	27.3	35.6	61	7	23	25	24	70	59	57	.123	.134	.129	1.01	.25	4.9	5.8	6.1	5.5
Year	25.478	25.950	24.840	38.5	51.6	53.5	58.1	35.5	46.8	98	−20	27	29	27	66	48	44	.166	.176	.160	12.63	1.25	4.3	4.7	5.1	5.0

PORT ANGELES, WASH.
[ϕ=48° 7′ N.; λ=123° 6′ W.]

January	30.074	30.450	29.470	----	38.6	36.5	39.8	29.6	34.7	50	14	----	31	32	----	75	82	----	0.182	0.184	1.38	0.39	----	8.3	8.2	8.6
February	30.206	30.500	29.790	----	41.4	39.6	42.9	29.0	36.0	51	19	----	33	34	----	73	79	----	.191	.194	.91	.50	----	7.4	5.6	6.7
March	30.024	30.280	29.400	----	46.9	47.0	49.4	36.4	42.9	55	31	----	39	38	----	75	73	----	.241	.236	1.54	.38	----	7.6	7.6	7.3
April	29.974	30.400	29.380	----	48.9	48.4	51.2	36.5	43.8	60	30	----	40	39	----	72	72	----	.249	.244	2.20	.58	----	7.2	6.5	6.7
May	30.087	30.370	29.677	----	55.1	55.5	57.9	42.0	50.0	66	37	----	46	46	----	71	70	----	.306	.307	.62	.32	----	5.8	5.2	5.6
June	30.010	30.400	29.410	----	59.5	59.5	62.1	47.8	55.0	74	39	----	49	49	----	70	70	----	.352	.354	.85	.40	----	7.4	7.4	7.4
July	30.079	30.310	29.790	----	64.4	64.5	68.6	49.5	59.0	83	44	----	51	51	----	62	63	----	.373	.382	.18	.16	----	4.5	4.2	4.6
August	30.053	30.310	29.830	----	64.0	64.6	67.9	50.2	59.0	83	45	----	53	53	----	68	66	----	.402	.405	.27	.18	----	3.9	3.1	4.0
September	30.024	30.250	29.770	----	63.4	62.8	66.5	46.7	56.6	80	37	----	53	52	----	71	70	----	.408	.393	.18	.16	----	2.2	2.8	3.3
October	30.091	30.410	29.610	----	55.7	54.2	57.5	43.9	50.7	68	37	----	50	50	----	83	86	----	.365	.363	.93	.45	----	5.6	7.0	6.5
November	----	----	----	----	----	----	48.8	36.6	42.7	56	29	----	----	----	----	84	90	----	----	----	1.30	.62	----	----	----	----
December	----	----	----	----	----	----	45.2	36.0	40.6	54	28	----	----	----	----	88	91	----	----	----	4.53	1.48	----	----	----	----
Year	----	----	----	----	----	----	54.8	40.4	47.6	83	14	----	----	----	----	74	76	----	----	----	14.89	1.48	----	----	----	----

Annual meteorological summary for the year ending December 31, 1929—Continued

PIERRE, S. DAK.

[H_b=1,572 ft.; h_t=70 ft.; h_r=63 ft.; h_a=75 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles	*	*Mi.*																									
January	7.6	NW.	46	NW.	2	7	7	14	5	1	4	2	21	1	7	9	15	15	8	19	15	0	0	26	0	31	0	1
February	7.0	NW.	25	NW.	0	9	4	8	8	0	6	9	12	0	5	10	13	10	6	15	9	0	2	20	0	28	0	0
March	8.8	NW.	38	NW.	2	10	4	11	6	4	6	9	12	0	11	7	13	12	8	11	8	0	1	2	0	19	1	0
April	9.0	E.	44	NW.	2	9	9	14	4	2	7	6	7	2	7	14	9	9	6	6	4	0	1	0	0	10	2	0
May	9.3	SE.	40	NE.	3	7	5	11	17	5	2	6	9	0	16	9	6	10	7	1	0	0	0	0	0	4	3	0
June	7.4	E.	50	N.	1	6	2	18	14	2	3	6	9	0	9	11	10	8	3	0	0	1	0	0	6	0	2	0
July	7.8	E.	29	SW.	0	6	13	13	10	8	3	2	7	0	16	12	3	13	6	0	0	1	0	0	19	0	11	0
August	7.0	E.	29	SW.	0	6	10	14	13	4	1	3	6	5	20	8	3	4	1	0	0	1	0	0	18	0	8	0
September	7.1	NW.	29	NE.	0	9	7	10	8	2	2	2	16	4	9	9	12	11	7	0	0	0	0	0	2	0	6	0
October	6.5	NW.	25	E.	0	9	1	16	4	6	3	4	17	2	17	2	12	9	9	4	4	0	0	0	0	6	1	1
November	7.9	NW.	36	NW.	2	4	5	6	5	4	10	7	19	0	12	7	11	10	6	15	9	0	0	9	0	26	0	1
December	7.7	NW.	31	NW.	0	4	7	7	8	2	3	11	19	1	13	7	11	3	1	11	2	0	1	16	0	28	0	0
Year	7.8	NW.	50	N.	12	86	74	142	102	40	50	67	154	15	142	105	118	114	68	82	51	3	5	73	45	152	34	3

PITTSBURGH, PA.

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

January	12.0	W.	50	W.	5	4	3	5	6	5	10	23	6	0	4	4	23	17	13	18	7	0	1	12	0	29	0	0
February	8.9	W.	44	SE.	1	5	3	7	3	3	16	12	7	0	2	7	19	9	7	19	7	0	1	12	0	25	0	0
March	11.6	SW.	50	W.	4	3	3	2	4	15	15	10	10	0	4	10	17	16	9	6	4	1	4	0	0	13	4	0
April	11.9	SW.	53	W.	4	6	4	4	5	8	13	11	9	0	4	12	14	16	13	1	0	1	1	0	0	2	7	0
May	9.2	SW.	40	W.	3	7	4	9	4	2	14	11	11	0	6	12	13	16	16	1	0	0	1	0	1	0	4	0
June	7.9	SW.	31	SW.	0	8	6	1	2	6	15	11	11	0	6	15	9	9	7	0	0	0	0	0	1	0	10	0
July	8.3	SW.	33	W.	1	6	5	7	3	7	21	7	6	0	7	18	6	9	7	0	0	0	1	0	1	0	10	0
August	6.8	W.	27	NW.	0	18	6	4	1	3	7	15	8	0	12	8	11	6	6	0	0	0	4	0	0	0	6	0
September	6.6	E.	32	W.	0	7	11	6	8	6	9	6	5	2	10	8	12	9	6	0	0	0	1	0	1	0	3	0
October	9.6	SW.	41	S.	2	4	2	9	3	8	6	10	9	11	7	12	12	14	7	1	1	0	7	0	0	0	2	0
November	8.8	W.	34	W.	1	5	3	3	7	5	20	12	3	2	5	8	17	14	11	8	2	0	3	4	0	10	0	0
December	10.3	SW.	34	NW.	1	5	1	7	4	6	19	17	3	0	1	6	24	14	12	12	8	0	0	9	0	15	0	0
Year	9.3	SW.	53	W.	22	78	51	64	50	74	165	145	88	15	68	120	177	149	114	66	29	2	24	37	4	94	46	0

POCATELLO, IDAHO

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

January	6.8	SE.	26	SW.	0	6	3	1	15	5	13	5	14	0	4	9	18	15	11	17	15	0	7	27	0	31	0	0
February	7.9	SE.	36	SW.	2	3	0	2	11	3	17	6	14	0	5	12	11	9	3	14	8	0	3	15	0	26	0	0
March	9.1	SW.	36	SW.	1	1	0	3	15	3	26	1	13	0	5	14	12	11	6	9	6	0	0	1	0	22	0	0
April	8.3	SW.	33	SW.	1	2	0	4	15	5	26	4	4	0	3	12	15	15	10	10	8	1	0	0	0	10	1	0
May	7.7	SE.	30	SW.	0	3	1	4	22	4	20	2	6	0	9	18	4	6	3	4	1	0	0	0	0	2	4	0
June	7.6	SE.	36	S.	1	2	2	3	21	7	16	5	3	1	12	12	6	6	3	0	0	0	0	0	3	0	6	0
July	7.3	SE.	28	S.	0	3	2	3	29	3	13	4	4	1	10	18	3	5	1	0	0	0	0	0	16	0	8	0
August	7.0	SE.	45	SW.	1	3	2	4	30	6	2	7	8	0	12	15	4	7	4	0	0	0	0	0	10	0	11	0
September	5.6	SE.	27	SW.	0	3	0	1	21	6	9	8	11	1	14	9	7	5	5	1	0	0	0	0	0	2	6	0
October	6.0	SE.	36	SW.	1	5	2	0	28	3	7	10	7	0	16	13	2	4	3	2	2	0	0	0	0	9	3	0
November	6.1	SE.	33	SW.	1	5	*	1	23	4	8	10	7	1	14	11	5	4	2	5	4	0	1	2	0	25	0	0
December	9.2	SE.	36	S.	2	3	0	3	19	16	11	4	6	0	6	16	9	6	5	9	1	0	2	4	0	22	0	0
Year	7.4	SE.	45	SW.	10	39	13	29	249	65	168	66	97	4	110	159	96	93	56	71	45	1	13	49	29	149	39	0

PORT ANGELES, WASH.

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

January	6.0	S.	34	N.	1	4	3	3	13	1	5	1	1	0	2	5	24	10	7	6	6	0	0	5	0	16	0	0
February	5.7	SW.	28	NW.	0	0	3	7	10	0	1	5	2	0	6	6	16	7	5	2	1	0	0	0	0	16	0	0
March	5.6	SW.	30	W.	0	6	1	6	2	0	4	7	5	0	3	12	16	11	9	1	1	0	0	0	0	1	0	0
April	5.6	SW.	29	W.	0	2	0	3	0	0	4	8	13	0	5	10	15	13	11	3	2	1	0	0	0	5	0	0
May	6.8	SW.	29	NW.	0	1	0	2	0	0	1	13	14	0	10	8	13	6	5	0	0	0	2	0	0	0	0	0
June	5.5	SW.	22	NW.	0	0	4	1	0	0	0	10	15	0	4	9	17	6	3	0	0	0	0	0	0	0	0	0
July	6.2	SW.	27	W.	0	0	0	3	0	0	0	13	15	0	11	13	7	2	1	0	0	0	0	0	0	0	0	0
August	5.8	SW.	22	W.	0	0	3	1	0	0	0	10	17	0	15	9	7	5	2	0	0	0	1	0	0	0	1	0
September	3.7	SW.	19	W.	0	3	2	8	1	0	1	4	9	2	17	10	3	3	2	0	0	0	1	0	0	0	0	0
October	3.5	SW.	24	NW.	0	2	0	8	5	2	0	8	4	2	5	12	14	9	5	0	0	0	1	0	0	0	0	0
November	3.4	S.	22	N.	0	----	----	----	----	----	----	----	----	----	3	11	16	7	7	0	0	0	0	0	0	4	0	0
December	4.5	SW.	34	SW.	----	----	----	----	----	----	----	----	----	----	0	9	22	21	16	----	----	0	3	0	0	6	0	0
Year	5.2	SW.	34	N.	----	----	----	----	----	----	----	----	----	----	81	114	170	100	73	----	----	1	8	5	0	48	1	0

* By eye observations at this station.

Annual meteorological summary for the year ending December 31, 1929—Continued

PORT ARTHUR, TEX.
[ϕ=29° 52′ N.; λ=93° 55′ W.]

Month	Pressure			Temperature							Moisture													
		Extremes		Mean					Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.049	30.500	29.650	50.1	57.4	.....	61.8	47.2	54.5	75	29	47	49	.....	90	74	.....	0.362	0.392	.....	7.34	3.74	4.4	6.2	.....	6.2
February	30.011	30.520	29.590	45.6	52.8	.....	57.0	43.2	50.1	72	28	43	46	.....	91	78	.....	.292	.329	.....	5.64	2.15	7.5	6.8	.....	7.3
March	29.918	30.310	29.438	60.4	68.8	.....	71.6	58.1	64.8	82	41	57	58	.....	88	70	.....	.491	.514	.....	1.60	1.14	5.6	4.7	.....	5.4
April	29.904	30.290	29.600	69.2	76.1	.....	79.1	67.2	73.2	87	53	66	67	.....	89	74	.....	.644	.667	.....	2.45	1.07	5.5	5.3	.....	5.4
May	29.961	30.160	29.590	71.9	79.2	.....	81.1	69.0	75.0	87	51	68	70	.....	89	75	.....	.716	.759	.....	6.47	2.95	5.4	4.9	.....	5.3
June	29.901	30.110	29.720	77.7	85.7	81.8	88.4	74.8	81.6	95	69	73	74	74	86	68	79	.812	.827	0.854	3.33	2.43	1.9	2.4	3.6	2.9
July	29.982	30.130	29.760	79.0	86.4	82.6	88.5	76.1	82.3	95	69	74	72	74	84	64	74	.829	.793	.824	5.80	2.30	4.4	4.0	5.3	5.3
August	29.949	30.090	29.790	77.6	87.6	84.2	91.2	75.8	83.5	96	72	73	71	74	87	58	71	.820	.759	.825	3.65	1.04	2.0	1.9	2.3	2.2
September	29.896	30.050	29.710	74.2	83.9	80.9	87.5	72.3	79.9	92	62	69	68	71	85	60	72	.729	.706	.763	1.72	.76	2.3	3.8	3.2	3.2
October	29.976	30.240	29.575	64.9	76.6	72.5	79.8	63.7	71.8	87	47	59	58	61	83	56	70	.533	.518	.568	2.85	1.02	3.4	2.9	3.0	3.5
November	30.076	30.420	29.750	51.4	57.8	56.2	61.6	48.0	54.8	79	32	47	47	49	87	71	77	.356	.367	.383	12.87	4.26	5.9	6.0	5.5	6.5
December	30.153	30.530	29.730	48.2	56.8	.....	61.3	45.9	53.6	76	23	45	45	.....	89	68	.....	.344	.361	.....	4.56	2.48	3.9	4.5	.....	5.4
Year	29.981	30.530	29.438	64.2	72.4	.....	75.7	61.8	68.8	96	23	60	60	.....	87	68	.....	.517	.583	.....	58.28	4.26	4.4	4.4	.....	4.9

PORT HURON, MICH.
[ϕ=43° 00′ N.; λ=82° 26′ W.]

January	29.311	29.890	28.430	17.6	21.6	20.2	27.5	11.7	19.6	46	−6	14	16	16	86	77	82	0.089	0.087	0.097	2.61	0.65	6.5	6.8	6.3	5.7
February	29.384	29.850	28.840	17.0	23.4	22.4	27.4	14.4	20.9	48	−10	14	17	18	89	76	81	.087	.098	.099	.69	.26	7.2	5.6	7.0	5.8
March	29.204	29.830	28.200	33.6	41.8	39.5	47.8	29.8	38.8	71	9	29	32	32	83	68	75	.170	.189	.192	1.97	1.53	7.5	6.7	6.3	5.8
April	29.205	29.640	28.479	43.8	49.6	47.1	54.8	38.7	46.8	83	24	36	37	38	76	64	71	.230	.245	.246	5.92	1.47	5.9	6.5	6.0	5.8
May	29.351	29.880	28.410	50.1	58.4	54.5	62.1	43.5	52.8	89	33	41	43	42	73	58	65	.285	.307	.311	2.56	1.03	5.2	5.3	5.3	4.5
June	29.276	29.580	28.780	60.1	66.8	63.8	70.9	53.1	62.0	88	39	53	53	53	78	64	70	.420	.429	.427	1.84	.66	4.0	5.3	4.4	4.0
July	29.338	29.680	29.000	66.7	76.5	72.0	80.0	60.2	70.1	95	48	58	59	60	74	57	67	.496	.517	.530	1.64	.46	3.5	4.1	2.9	3.4
August	29.343	29.670	28.930	61.9	72.3	67.6	75.2	56.6	65.9	91	49	54	54	55	77	54	66	.429	.428	.446	1.45	.92	4.0	4.6	4.2	3.9
September	29.394	29.792	29.010	57.4	69.2	64.3	71.6	53.4	62.5	92	37	51	51	52	80	55	65	.388	.392	.409	1.16	.41	4.2	4.9	4.9	4.4
October	29.325	29.990	28.447	45.8	54.0	51.0	56.6	42.0	49.3	70	32	39	39	40	78	60	68	.250	.256	.264	3.50	1.87	5.7	6.0	5.9	5.7
November	29.323	29.830	28.530	33.2	39.6	36.3	42.0	30.0	36.0	64	6	29	29	29	84	64	74	.174	.185	.170	2.83	1.22	6.4	7.1	6.7	6.4
December	29.299	29.830	28.670	25.2	27.8	26.8	30.8	21.2	26.0	43	6	22	24	23	87	78	86	.121	.128	.126	2.93	.90	8.7	8.8	8.6	8.9
Year	29.313	29.990	28.200	42.7	50.1	47.1	53.9	37.9	45.9	95	−10	37	38	38	80	65	72	.262	.272	.276	29.10	1.87	5.7	6.0	5.7	5.4

PORTLAND, ME.
[ϕ=43° 39′ N.; λ=70° 15′ W.]

January	29.827	30.690	28.960	20.9	26.0	23.6	31.5	15.6	23.6	56	−2	12	13	14	67	58	64	0.089	0.091	0.085	3.99	1.08	5.1	4.3	3.6	4.7
February	29.975	30.405	29.450	21.3	28.0	28.0	33.3	19.0	26.2	45	4	16	17	20	76	60	70	.092	.097	.109	4.33	1.93	5.1	5.1	4.1	4.7
March	29.779	30.370	28.650	32.6	38.6	36.1	43.2	28.1	35.6	61	3	24	25	27	72	60	70	.145	.144	.152	3.41	1.00	6.2	5.5	5.0	5.4
April	29.806	30.310	28.870	40.3	44.9	42.5	49.9	35.1	42.5	80	24	31	30	32	71	60	69	.181	.179	.184	4.61	1.87	6.4	6.7	6.0	5.1
May	29.917	30.438	29.020	53.5	59.3	54.0	63.8	45.4	54.6	90	38	43	43	43	70	58	68	.291	.283	.288	3.54	1.00	4.3	5.0	5.1	4.8
June	29.812	30.066	29.380	61.9	67.6	62.8	71.3	54.7	63.0	91	41	53	52	53	74	60	71	.417	.400	.410	2.08	.69	4.8	5.1	4.3	4.7
July	29.882	30.300	29.425	66.4	72.5	67.4	76.8	57.8	67.3	92	49	58	58	57	74	63	71	.483	.494	.469	1.75	.94	3.9	4.1	2.9	3.6
August	29.849	30.168	29.250	62.8	69.8	64.5	73.0	56.5	64.8	81	52	54	54	55	73	60	74	.420	.425	.444	4.28	1.74	3.1	4.2	4.9	4.3
September	30.008	30.536	29.600	58.2	65.4	60.7	68.6	52.0	60.3	96	38	51	51	53	78	63	78	.386	.398	.419	2.09	.94	4.7	5.9	5.5	5.3
October	29.898	30.532	29.080	45.3	52.5	49.2	56.5	41.2	48.8	69	29	38	38	39	76	60	69	.239	.245	.249	3.00	1.94	5.3	5.3	4.2	5.6
November	29.902	30.452	28.990	36.3	43.2	40.3	46.4	32.9	39.6	70	10	30	31	30	77	63	68	.182	.193	.189	4.55	2.61	5.3	5.5	4.8	6.9
December	29.924	30.575	29.130	23.4	27.9	26.5	31.6	19.5	25.6	42	3	18	19	20	80	69	74	.106	.109	.108	4.89	1.06	5.5	5.5	5.3	6.4
Year	29.882	30.690	28.650	43.6	49.6	46.3	53.8	38.2	46.0	96	−2	36	36	37	74	61	70	.253	.255	.259	42.52	2.61	5.0	5.2	4.6	5.2

PORTLAND, OREG.
[ϕ=45° 32′ N.; λ=122° 41′ W.]

January	29.957	30.340	29.380	32.1	36.1	36.7	39.3	29.0	34.2	51	15	28	30	29	84	77	74	0.160	0.170	0.168	3.50	0.82	5.4	7.7	8.0	8.1
February	30.093	30.370	29.626	31.8	38.8	40.8	41.9	29.4	35.6	52	16	24	28	28	74	64	60	.145	.161	.164	.97	.50	5.5	6.2	6.5	6.6
March	29.934	30.230	29.350	43.0	50.4	53.0	54.6	40.8	47.7	66	33	39	40	38	86	68	80	.242	.248	.237	2.90	.63	8.6	8.2	8.3	8.5
April	29.855	30.280	29.430	42.7	53.2	55.2	57.4	40.9	49.2	75	33	39	37	38	86	55	54	.240	.220	.229	4.06	1.21	7.9	7.5	7.1	7.8
May	29.934	30.240	29.545	50.1	62.4	66.0	68.3	48.8	58.6	82	43	44	43	43	80	50	46	.290	.282	.281	1.14	.52	7.7	6.1	6.5	6.7
June	29.843	30.270	29.376	54.8	65.5	69.1	71.3	53.6	62.4	89	47	49	48	48	82	56	52	.353	.338	.347	2.19	.66	7.2	6.6	6.8	6.9
July	29.895	30.150	29.609	57.5	73.5	79.1	80.0	56.6	68.3	93	53	51	50	49	79	44	36	.374	.358	.356	.02	.02	4.1	4.0	2.9	3.9
August	29.876	30.140	29.686	58.6	72.9	79.9	80.9	57.3	69.1	95	50	54	52	52	84	50	39	.413	.395	.388	.23	.21	5.1	3.8	2.9	3.9
September	29.842	30.030	29.591	55.6	69.3	73.8	75.6	54.0	64.8	87	45	48	46	46	78	46	40	.345	.319	.321	.31	.28	3.2	2.9	3.0	3.2
October	29.943	30.220	29.596	51.7	63.4	65.1	67.6	49.4	58.5	80	38	47	46	47	84	54	54	.321	.308	.329	1.33	.49	4.5	4.5	6.0	6.9
November	30.154	30.510	29.840	39.7	47.6	49.5	51.8	37.7	44.8	67	30	36	37	38	87	69	68	.217	.224	.240	.67	.30	3.8	6.8	6.1	6.9
December	29.922	30.380	29.160	43.7	47.4	47.4	49.9	40.7	45.3	59	34	40	41	40	87	78	78	.250	.257	.253	8.79	2.27	8.3	8.9	8.8	8.9
Year	29.937	30.510	29.160	46.8	56.7	59.6	61.6	44.8	53.2	95	15	42	42	41	83	59	55	.279	.273	.276	26.11	2.27	5.9	6.1	6.0	6.4

Annual meteorological summary for the year ending December 31, 1929—Continued

PORT ARTHUR, TEX.

[H_b=34 ft.; h_t=58 ft.; h_r=51 ft.; h_a=66 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 33 miles and over	N	NE	E	SE	S	SW	W	NW	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																										
January	7.2	E.	28	N.	0	9	2	7	3	7	9	0	3	0	11	2	18	11	8	0	0	0	6	0	0	2	5	0
February	8.0	E.	25	NW.	0	10	1	15	1	9	0	0	1	0	5	5	18	13	8	0	0	0	0	0	0	3	3	0
March	7.3	SE.	30	E.	0	3	0	8	7	7	2	2	2	0	9	11	11	7	5	0	0	1	1	0	0	0	4	0
April	8.6	S.	31	NW.	0	6	1	4	5	11	1	1	1	0	9	12	9	7	7	0	0	0	0	0	0	0	6	0
May	7.5	SE.	28	S.	0	2	1	8	9	9	1	0	1	0	10	11	10	10	8	0	0	0	0	0	0	0	6	0
June	6.2	S.	18	E.	0	9	0	8	7	22	7	2	5	0	21	7	2	6	6	0	0	0	0	0	7	0	10	0
July	6.1	S.	36	E.	1	3	1	7	13	19	12	0	1	0	7	16	8	19	15	0	0	0	0	0	11	0	21	0
August	5.7	E.	21	E.	0	7	2	8	11	10	14	8	2	0	25	4	2	7	7	0	0	0	0	0	23	0	11	0
September	6.4	E.	25	E.	0	7	6	20	9	12	5	1	0	0	19	7	4	7	5	0	0	0	1	0	11	0	8	0
October	6.2	E.	22	N.	0	12	4	13	13	13	1	3	2	1	20	6	5	5	4	0	0	0	1	0	0	0	2	0
November	7.9	E.	28	E.	0	14	9	16	4	6	4	1	6	0	8	5	17	14	13	0	0	0	2	0	0	1	6	0
December	6.6	SE.	30	N.	0	6	0	9	4	6	1	2	3	0	12	4	15	6	5	3	1	0	7	0	0	7	3	0
Year	7.0	E.	36	E.	1	88	27	123	86	122	48	26	27	1	156	90	119	112	91	3	1	1	18	0	52	13	85	0

PORT HURON, MICH.

[H_b=638 ft.; h_t=70 ft.; h_r=63 ft.; h_a=120 ft.]

January	12.3	W.	42	W.	4	0	2	1	5	5	14	21	14	0	8	11	12	17	11	22	14	0	0	19	0	30	0	0
February	8.6	NW.	29	W.	0	3	9	4	2	4	7	12	15	0	7	10	11	10	7	23	8	0	2	21	0	27	0	1
March	11.9	SW.	52	W.	3	9	5	3	5	12	14	6	8	0	3	20	8	17	11	9	5	0	2	1	0	15	2	1
April	11.9	SW.	41	W.	2	9	13	3	5	7	13	4	6	0	5	18	7	13	11	5	2	2	0	0	0	5	5	0
May	10.8	NE.	40	N.	3	8	8	6	5	7	8	10	10	0	8	18	5	9	6	2	0	0	0	0	0	0	5	0
June	9.0	SW.	28	NW.	0	14	12	0	4	5	9	10	5	1	13	14	3	12	10	0	0	0	0	0	0	0	6	0
July	8.6	SW.	33	N.	1	6	16	2	3	8	12	6	7	0	14	16	1	8	6	0	0	0	0	4	0	7	0	0
August	8.7	NW.	27	W.	0	10	10	3	4	11	7	5	10	0	14	14	3	3	3	0	0	0	0	1	0	4	0	0
September	9.0	SW.	31	W.	0	7	9	6	5	12	12	3	6	0	9	15	6	7	4	0	0	0	0	2	0	3	2	
October	11.9	NW.	35	S.	2	7	5	8	3	8	11	7	11	0	9	9	13	11	9	2	0	0	0	0	0	0	1	
November	11.1	W.	36	W.	2	3	7	2	0	7	13	16	12	0	1	19	10	10	7	9	1	0	0	5	0	16	0	1
December	10.2	SW.	36	NE.	1	0	8	8	6	4	17	11	8	0	0	5	26	16	14	18	14	0	2	15	0	28	0	0
Year	10.3	SW.	52	W.	18	76	104	48	51	90	137	111	112	1	91	169	105	135	99	90	44	2	6	61	7	121	32	6

PORTLAND, ME.

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

January	9.6	NW.	36	S.	1	20	1	1	0	3	9	13	15	0	15	5	11	16	11	14	12	0	1	18	0	30	0	0
February	6.9	N.	28	SW.	0	23	4	2	3	3	5	4	12	0	15	3	10	13	10	14	13	0	0	11	0	27	0	1
March	8.8	SW.	36	NW.	1	11	4	6	2	2	19	6	12	0	14	5	12	12	10	8	7	0	3	3	0	20	1	0
April	9.3	NE.	37	NE.	1	8	14	5	4	2	10	8	9	0	9	7	14	13	12	4	3	0	1	1	0	8	1	0
May	8.9	SW.	36	S.	2	5	3	9	1	6	16	9	12	1	14	6	11	12	11	0	0	0	5	0	1	0	3	0
June	6.8	S.	26	S.	0	4	3	6	7	10	10	7	13	0	13	9	8	16	11	0	0	0	4	0	1	0	7	0
July	7.4	SW.	22	SW.	0	12	1	3	1	3	27	7	8	0	20	5	6	8	5	0	0	0	4	0	1	0	4	6
August	7.2	SW.	24	NW.	0	11	4	3	3	5	11	11	14	0	14	11	6	9	7	0	0	0	4	0	0	0	3	2
September	5.9	E.	21	NW.	0	6	10	7	3	4	9	8	7	6	13	5	12	10	6	0	0	0	4	0	2	0	5	3
October	7.8	W.	31	SE.	0	7	5	1	3	5	16	9	15	1	12	7	12	8	6	1	0	0	3	0	0	4	0	4
November	7.0	SW.	25	NW.	0	12	3	3	2	5	13	14	6	2	6	6	18	12	10	3	3	0	5	3	0	11	0	0
December	7.7	N.	23	N.	0	19	7	2	0	0	13	12	7	2	10	5	16	13	12	11	9	0	3	15	0	30	1	2
Year	7.8	N.	37	NE.	5	138	59	48	29	48	158	108	130	12	155	74	136	142	111	55	47	0	37	51	5	130	25	18

PORTLAND, OREG.

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

January	5.0	E.	29	E.	0	4	4	13	10	6	7	4	13	1	2	7	22	14	12	9	6	1	4	4	0	20	0	0
February	5.0	E.	24	E.	0	0	5	15	7	3	9	7	10	0	7	5	16	8	5	1	0	0	2	0	0	16	0	0
March	5.0	NW.	22	W.	0	0	2	0	6	11	17	11	15	0	2	2	27	16	13	2	1	3	2	0	0	0	0	0
April	5.5	NW.	24	SW.	0	2	1	1	10	12	10	9	12	3	2	10	18	18	14	7	0	0	0	0	0	0	1	0
May	4.7	NW.	24	W.	0	4	0	0	2	2	10	9	32	3	6	8	17	13	8	1	0	0	0	0	0	0	0	0
June	5.0	NW.	24	SW.	0	6	1	1	10	6	7	5	24	0	7	4	19	11	10	0	0	0	0	0	0	0	0	0
July	5.4	NW.	16	NW.	0	11	1	2	6	4	8	1	29	0	16	8	7	1	0	0	0	0	0	0	3	0	0	0
August	4.6	NW.	14	S.	0	9	1	2	3	9	6	2	30	0	16	9	6	2	1	0	0	0	0	0	1	0	1	0
September	4.4	NW.	18	NE.	0	7	2	6	7	1	2	4	31	0	16	9	5	3	1	0	0	0	0	0	0	0	0	0
October	3.9	NW.	20	E.	0	7	1	5	8	7	5	9	20	0	7	13	11	9	6	0	0	0	5	0	0	0	0	0
November	3.7	NW.	17	SW.	0	6	2	8	7	3	0	0	32	2	4	12	14	6	4	0	0	0	6	0	0	5	0	0
December	5.4	SE.	28	SW.	0	0	3	8	17	9	9	6	10	2	2	2	27	20	19	2	0	0	1	0	0	6	0	0
Year	4.8	NW.	29	E.	0	56	23	59	93	73	90	67	258	11	87	89	189	121	93	22	7	4	18	6	4	41	2	0

* Port Arthur's wind direction at 8 a. m. only, except June to November, inclusive.

Annual meteorological summary for the year ending December 31, 1929—Continued

PROVIDENCE, R. I.
[ϕ=41° 50′ N.; λ=71° 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.812	30.540	29.020	26.3	32.1	28.4	36.6	20.1	28.4	59	5	16	18	17	64	55	60	0.110	0.113	0.101	4.49	1.97	4.3	4.5	3.5	4.4
February	29.896	30.294	29.350	27.6	35.4	32.3	38.4	24.2	31.3	52	13	20	21	22	72	57	65	.116	.122	.125	3.04	.97	5.1	5.2	3.6	4.9
March	29.729	30.240	28.646	39.2	46.4	41.1	50.5	32.7	41.6	73	8	29	28	30	67	53	66	.176	.171	.179	3.17	.89	4.8	5.3	4.6	5.3
April	29.722	30.210	28.770	45.2	50.2	47.4	54.9	39.4	47.2	84	29	35	35	36	69	60	68	.212	.213	.228	5.94	1.80	6.5	6.8	6.1	6.4
May	29.877	30.343	28.980	59.4	66.5	58.3	70.0	49.1	59.6	94	41	46	45	44	63	48	63	.337	.326	.313	3.45	.99	4.5	5.0	5.0	4.9
June	29.758	30.000	29.360	66.9	75.2	67.9	78.1	58.2	68.2	94	43	54	54	56	65	49	67	.446	.435	.472	.96	.38	4.4	3.9	5.2	4.4
July	29.844	30.228	29.400	72.2	78.8	71.3	82.2	62.3	72.2	91	52	60	58	59	65	51	68	.530	.506	.522	1.41	.64	3.8	4.2	2.7	3.7
August	29.804	30.117	29.280	66.8	75.2	68.8	78.4	59.6	69.0	87	53	56	55	58	71	52	70	.472	.449	.495	2.44	.88	4.2	4.1	4.5	4.3
September	29.936	30.375	29.610	62.6	71.2	64.3	73.6	55.5	64.6	95	33	54	56	56	75	62	77	.445	.479	.476	2.27	.79	4.7	4.9	4.5	4.8
October	29.853	30.486	29.130	48.6	58.0	52.3	60.8	43.0	51.9	74	30	39	38	40	70	49	63	.254	.248	.266	2.70	2.22	3.9	4.5	3.5	4.1
November	29.860	30.320	29.021	41.0	47.2	44.0	50.0	37.1	43.6	74	13	33	33	34	75	59	67	.211	.216	.216	2.47	.98	5.1	6.1	4.4	5.8
December	29.868	30.510	29.159	29.2	34.6	32.7	38.1	25.8	32.0	52	7	22	24	25	74	64	72	.128	.136	.142	3.84	.79	5.7	5.2	5.5	5.9
Year	29.830	30.540	28.646	48.8	55.9	50.7	59.3	42.2	50.8	95	5	39	39	40	69	55	67	.286	.284	.295	36.18	2.22	4.8	5.0	4.4	4.9

PUEBLO, COLO.
[ϕ=38° 18′ N.; λ=104° 36′ W.]

January	25.173	25.525	24.560	22.5	36.6	33.9	43.2	16.0	29.6	63	−2	14	17	16	71	47	48	0.082	0.092	0.086	0.19	0.11	2.9	4.6	3.2	4.0
February	25.193	25.600	24.850	16.7	33.2	33.7	39.7	12.0	25.8	60	−13	9	14	17	74	48	53	.066	.083	.094	.78	.18	3.6	5.2	5.0	4.9
March	25.143	25.590	24.641	34.3	50.1	50.9	55.8	29.4	42.6	76	12	22	21	21	64	36	34	.119	.115	.116	.30	.13	5.4	5.7	5.2	5.2
April	25.143	25.440	24.760	39.3	60.0	60.5	65.8	36.3	51.0	80	21	24	22	22	55	25	26	.128	.123	.124	.78	.46	4.1	5.4	5.9	5.0
May	25.268	25.600	24.674	47.9	65.4	67.0	71.6	46.3	59.0	85	30	38	35	34	69	36	34	.231	.212	.205	1.11	.40	5.2	4.8	6.7	5.3
June	25.228	25.542	24.873	57.1	80.3	82.4	86.6	55.3	71.0	98	45	41	38	34	59	25	23	.266	.228	.218	.15	.09	4.9	4.1	5.0	4.4
July	25.329	25.550	25.090	64.2	85.0	83.0	90.3	63.2	76.8	97	54	53	49	50	68	32	35	.409	.359	.289	1.22	.58	3.8	3.7	6.7	4.8
August	25.374	25.550	25.160	63.5	82.9	80.3	86.8	61.9	74.4	96	56	54	51	52	72	36	41	.415	.382	.397	4.44	1.47	4.1	3.5	6.7	4.3
September	25.272	25.510	25.020	53.2	70.6	70.7	76.6	50.9	63.8	92	42	43	43	43	72	42	42	.284	.279	.282	.51	.28	4.6	4.1	4.5	4.2
October	25.323	25.660	24.640	40.6	63.8	60.3	68.2	37.5	52.8	89	19	29	28	30	64	30	35	.168	.164	.177	.79	.58	3.2	3.1	3.6	3.4
November	25.345	25.670	24.890	26.8	40.3	36.6	44.9	20.7	32.8	68	−1	18	23	23	71	46	54	.100	.108	.121	1.14	.37	4.3	5.3	3.8	4.9
December	25.298	25.640	24.880	26.3	43.4	39.5	50.5	19.5	35.0	73	−8	14	16	20	64	38	48	.087	.091	.106	.65	.30	1.6	4.9	3.5	3.5
Year	25.257	25.670	24.560	41.0	59.3	58.2	65.0	37.4	51.2	98	−13	30	29	30	67	37	40	.196	.186	.191	12.06	1.47	4.0	4.5	5.0	4.5

RALEIGH, N. C.
[ϕ=35° 45′ N.; λ=78° 37′ W.]

January	29.711	30.200	29.170	37.1	45.5	44.7	52.5	34.0	43.2	70	22	31	34	35	77	66	71	0.189	0.219	0.226	2.23	0.72	5.0	5.5	5.4	6.0
February	29.698	30.090	29.140	36.1	44.2	43.1	50.8	33.1	42.0	73	19	32	36	36	85	74	78	.201	.238	.229	6.99	1.53	6.4	6.5	5.1	6.1
March	29.637	30.210	28.730	49.7	60.4	57.2	65.7	45.4	55.6	88	23	43	44	46	78	60	68	.312	.323	.333	6.00	2.56	6.3	5.8	4.9	5.8
April	29.559	30.120	28.800	57.4	67.8	66.0	73.1	52.2	62.6	91	40	48	48	49	72	53	57	.347	.352	.360	2.92	1.84	4.1	6.0	4.7	5.1
May	29.705	30.150	28.840	63.0	73.5	69.3	77.7	57.6	67.6	88	45	57	58	59	81	60	71	.482	.502	.509	6.05	1.58	6.1	6.4	6.3	6.0
June	29.583	29.802	29.330	69.9	78.8	75.2	83.5	64.0	73.8	93	49	63	64	65	80	63	72	.588	.610	.623	4.99	1.55	5.1	6.6	6.6	6.1
July	29.679	29.910	29.400	73.2	81.5	77.5	85.6	67.8	76.7	93	61	66	67	68	80	62	72	.656	.659	.678	6.52	1.66	5.4	7.0	6.2	6.2
August	29.607	29.906	29.300	71.3	81.4	76.6	85.2	67.1	76.2	93	59	65	64	66	82	57	72	.634	.614	.654	2.43	.65	6.6	5.3	5.6	5.8
September	29.687	29.856	29.440	65.8	75.8	71.6	79.0	62.7	70.8	89	44	62	63	64	89	66	78	.577	.586	.617	4.12	*6.66	6.2	5.9	3.7	5.8
October	29.669	30.194	28.935	53.9	64.8	60.8	69.3	50.1	59.7	79	42	48	45	48	80	53	66	.343	.321	.347	9.59	2.46	3.5	3.5	2.7	3.7
November	29.714	30.052	29.110	47.9	56.4	52.9	59.9	45.1	52.5	80	15	42	43	43	81	64	72	.309	.320	.322	4.82	2.60	6.6	6.0	5.2	6.3
December	29.726	30.110	29.090	38.2	48.3	45.9	53.7	35.2	44.4	74	16	32	34	36	77	61	69	.199	.221	.228	2.17	1.34	5.1	5.0	4.4	4.9
Year	29.665	30.210	28.730	55.3	64.9	61.7	69.7	51.2	60.4	93	15	49	50	51	80	62	70	.403	.414	.427	58.83	6.66	5.5	5.8	5.1	5.6

RAPID CITY, S. DAK.
[ϕ=44° 04′ N.; λ=103° 12′ W.]

January	26.557	26.955	25.870	5.4	15.3	11.3	21.1	−0.6	10.2	47	−20	−2	7	4	68	67	72	0.044	0.066	0.061	0.44	0.14	5.2	5.7	5.1	5.5
February	26.557	26.859	26.150	11.2	20.0	17.0	24.7	5.1	14.9	44	−20	3	10	10	66	64	71	.052	.073	.072	.49	.17	4.7	5.8	5.2	5.6
March	26.431	26.910	25.950	31.1	42.1	41.0	46.8	26.3	36.6	72	12	20	25	26	60	54	58	.105	.136	.142	2.69	1.14	5.2	5.0	5.5	5.3
April	26.470	26.750	25.820	36.9	50.9	50.7	55.4	33.4	44.4	76	18	26	30	29	64	48	49	.142	.165	.165	3.48	1.75	5.7	5.8	6.1	5.9
May	26.598	27.050	26.000	45.3	58.5	60.4	63.5	40.6	52.0	86	31	34	37	36	65	50	45	.198	.233	.223	4.21	1.66	4.6	5.4	4.5	4.9
June	26.566	26.841	26.067	56.7	69.2	69.8	74.1	51.6	62.8	93	42	44	47	49	65	49	53	.294	.332	.362	3.83	1.98	4.8	5.5	5.1	5.3
July	26.638	26.860	26.300	64.7	80.3	81.1	85.4	60.0	72.7	98	45	52	54	54	65	43	48	.394	.431	.437	3.53	1.11	4.2	3.5	3.4	3.8
August	26.669	26.880	26.360	62.5	82.2	81.6	87.2	59.0	73.1	103	49	49	50	51	63	36	38	.359	.377	.390	1.29	.67	2.8	3.3	3.6	3.5
September	26.653	26.980	26.240	48.5	60.0	59.2	64.3	44.1	54.2	99	34	40	41	41	75	54	57	.252	.260	.265	1.80	.76	6.6	5.7	5.7	6.7
October	26.685	27.130	26.140	44.0	58.7	53.3	62.1	38.9	50.5	84	23	32	33	34	67	44	53	.182	.192	.204	1.73	.82	4.1	3.6	4.8	4.1
November	26.701	27.211	26.189	28.5	38.6	33.2	42.4	21.8	32.1	68	−4	19	24	22	68	57	63	.104	.132	.117	.71	.40	4.5	5.4	5.9	5.6
December	26.630	27.230	26.199	21.6	31.3	27.0	37.9	16.0	27.0	63	−15	14	20	17	75	65	69	.086	.112	.099	.24	.17	3.8	4.5	3.0	3.7
Year	26.596	27.230	25.820	38.0	50.6	48.8	55.4	33.0	44.2	103	−20	28	32	31	67	53	56	.184	.209	.211	24.44	1.98	4.6	4.9	4.8	5.0

* Sept. 30–Oct. 1.

Annual meteorological summary for the year ending December 31, 1929—Continued

PROVIDENCE, R. I.

[H_b=160 ft.; h_t=215 ft.; h_r=211 ft.; h_a=251 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: Days with 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	13.2	NW.	46	N.	11	9	2	1	3	3	10	2	32	0	14	10	7	11	9	12	7	0	1	12	0	30	0	0
February	10.2	N.	42	SE.	1	14	3	5	2	1	9	1	21	0	13	6	9	13	10	9	9	0	0	6	0	23	0	0
March	11.6	NW.	45	NW.	10	7	2	3	5	8	12	1	24	0	12	5	14	15	9	7	2	1	0	1	0	11	3	0
April	12.5	NW.	59	NW.	4	5	12	6	8	2	7	1	19	0	8	5	17	15	14	4	4	0	0	0	0	5	2	0
May	11.2	N.	52	N.	5	13	2	1	9	11	9	7	10	0	12	13	6	11	9	0	0	0	1	0	3	0	5	0
June	9.2	N.	35	NW.	1	15	6	0	9	10	5	6	8	0	13	12	5	6	5	0	0	0	0	0	2	0	5	0
July	9.0	NW.	28	SW.	0	7	2	4	2	10	21	3	13	0	16	11	4	6	5	0	0	0	0	0	3	0	3	0
August	9.0	NW.	40	NW.	2	15	4	0	3	11	12	2	15	0	16	7	8	10	6	0	0	0	0	0	0	0	5	0
September	8.3	N.	32	N.	0	12	12	4	2	5	12	1	11	1	14	6	10	11	9	0	0	0	0	0	2	0	2	0
October	10.7	NW.	39	SE.	4	9	6	2	1	7	10	4	23	0	17	4	10	7	5	0	0	0	1	0	0	1	0	0
November	9.0	NW.	44	N.	3	13	5	1	0	5	13	3	20	0	11	5	14	13	7	3	1	0	0	2	0	9	0	0
December	9.2	N.	38	N.	1	13	5	4	3	6	3	8	20	0	11	7	13	14	11	10	6	0	3	4	0	22	0	0
Year	10.3	NW.	59	NW.	42	133	61	31	47	79	123	39	216	1	157	91	117	130	99	45	29	1	6	25	10	101	25	0

PUEBLO, COLO.

[H_b=4,685 ft.; h_t=80 ft.; h_r=72 ft.; h_a=86 ft.]

January	5.9	NW.	30	NW.	0	14	2	16	2	1	3	6	18	0	16	9	6	6	1	9	6	0	0	6	0	30	0	0
February	5.9	NW.	33	W.	1	5	4	15	8	1	2	7	14	0	11	7	10	8	7	9	8	0	0	8	0	27	0	0
March	7.5	NW.	40	W.	3	6	9	13	4	2	3	11	18	1	12	11	8	5	3	6	5	0	0	0	0	21	0	0
April	7.5	NW.	36	W.	2	15	4	10	2	0	6	11	11	1	9	15	6	3	3	1	1	0	0	0	0	7	2	0
May	6.5	E.	26	S.	0	15	9	13	9	0	2	5	9	0	8	14	9	8	5	0	0	0	0	0	0	1	5	0
June	6.8	SE.	30	W.	0	13	5	11	10	2	1	7	10	1	13	14	3	2	2	0	0	0	0	0	12	0	6	0
July	6.2	NW.	40	NW.	3	12	3	13	4	1	1	8	19	1	9	18	4	8	4	0	0	0	0	0	22	0	8	0
August	5.2	NW.	26	SW.	0	14	3	6	10	3	0	6	19	1	13	14	4	11	11	0	0	0	0	0	12	0	12	0
September	5.2	E.	32	W.	0	8	4	18	10	1	5	2	10	2	13	11	6	8	3	0	0	0	1	0	2	0	3	0
October	4.9	NW.	25	NW.	0	13	6	14	5	3	1	6	14	0	19	8	4	3	2	3	2	0	0	0	0	10	2	0
November	5.0	NW.	24	W.	0	6	10	6	8	1	0	11	18	0	11	11	8	9	6	11	8	0	1	5	0	29	0	0
December	4.8	NW.	26	NW.	0	8	7	5	5	0	2	12	22	1	16	12	3	4	4	4	4	0	0	6	0	26	0	0
Year	6.0	NW.	40	W.	9	129	66	140	77	15	26	92	177	8	150	144	71	75	51	43	34	1	2	25	48	151	38	0

RALEIGH, N. C.

[H_b=376 ft.; h_t=103 ft.; h_r=94 ft.; h_a=110 ft.]

January	7.5	NW.	30	SW.	0	5	13	6	3	3	9	6	17	0	9	7	15	11	10	0	0	0	4	0	0	15	0	0
February	6.2	NE.	25	NW.	0	12	15	3	7	5	6	4	4	0	7	8	13	12	12	2	2	0	3	0	0	14	0	0
March	8.8	SW.	35	NW.	2	4	7	2	3	16	17	4	9	0	9	11	11	12	11	0	0	0	1	0	0	4	2	0
April	8.3	SW.	27	SW.	0	7	3	3	1	7	27	5	7	0	10	11	9	8	7	0	0	0	0	0	2	0	3	0
May	6.9	SW.	36	SE.	1	4	7	5	7	9	20	9	1	0	7	9	15	13	11	0	0	1	0	0	0	0	7	0
June	5.5	SW.	28	NW.	0	6	9	4	2	8	19	11	1	0	6	13	11	12	12	0	0	0	0	0	7	0	6	0
July	5.4	SW.	24	NE.	0	3	10	1	5	7	22	9	4	1	6	12	13	13	11	0	0	0	0	0	13	0	10	0
August	4.9	NE.	17	NW.	0	11	20	5	3	8	9	3	2	1	6	16	9	10	8	0	0	0	1	0	9	0	6	0
September	5.9	NE.	17	N.	0	3	19	7	5	8	12	5	0	1	9	10	11	10	7	0	0	0	4	0	0	0	3	0
October	6.2	NE.	28	S.	0	5	20	3	6	2	9	10	5	2	20	4	7	7	6	0	0	0	2	0	0	0	2	0
November	5.9	SW.	17	NE.	0	12	8	1	6	5	14	6	8	0	9	4	17	10	7	0	0	0	1	1	0	4	1	0
December	6.0	SW.	30	W.	0	4	8	2	0	2	19	15	12	0	14	6	11	8	5	1	0	0	3	0	0	14	0	0
Year	6.5	SW.	36	SE.	3	76	139	42	48	80	183	87	70	5	112	111	142	126	107	3	2	1	19	1	31	51	40	0

RAPID CITY, S. DAK.

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

January	6.2	SE.	37	N.	2	10	12	1	8	8	2	5	15	1	9	12	10	10	6	18	10	0	0	21	0	31	0	0
February	6.2	N.	27	N.	0	14	4	2	3	8	0	12	12	1	6	15	7	7	3	14	7	0	1	19	0	28	0	0
March	8.5	N.	34	N.	2	14	4	1	5	7	1	9	20	1	10	11	10	11	10	12	9	0	1	6	0	26	2	0
April	7.9	N.	35	N.	1	11	4	5	3	7	4	9	17	0	6	14	10	9	8	5	4	0	1	1	0	12	2	0
May	7.6	N.	31	S.	0	13	4	2	8	10	0	15	10	0	11	12	8	13	11	4	3	2	1	0	0	2	7	0
June	6.5	W.	28	N.	0	9	9	1	9	11	1	14	6	0	10	11	9	13	10	0	0	2	1	0	1	0	14	1
July	5.7	W.	31	N.	0	12	1	1	9	8	6	17	8	0	18	9	4	11	8	0	0	1	0	0	12	0	14	0
August	6.0	W.	25	N.	0	8	2	2	5	12	4	19	10	0	17	12	2	7	7	0	0	0	0	0	10	0	13	0
September	6.2	N.	30	N.	0	17	6	2	9	6	2	7	10	1	11	7	12	11	8	1	1	0	1	0	1	0	6	0
October	6.7	W.	30	N.	0	13	5	0	6	4	1	18	13	2	17	6	8	9	6	5	4	1	2	2	0	6	2	0
November	7.7	N.	35	NW.	2	12	5	1	5	2	2	17	15	1	8	12	10	8	3	14	8	0	0	7	0	26	0	0
December	5.6	W.	25	NW.	0	11	1	4	8	5	3	9	20	1	13	8	10	6	1	11	6	0	6	12	0	30	0	0
Year	6.7	W.	37	N.	7	144	57	22	78	88	26	151	156	8	136	129	100	115	81	84	52	6	14	68	24	161	60	1

Annual meteorological summary for the year ending December 31, 1929—Continued

READING, PA.

[ϕ=40° 20′ N.; λ=75° 58′ 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	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.714	30.310	28.977	28.6	33.0	30.6	38.6	23.7	31.2	62	8	23	24	24	77	67	74	0.131	0.132	0.130	3.57	1.36	6.2	6.8	4.7	5.4
February	29.749	30.080	29.300	27.4	35.1	34.1	39.8	25.4	32.6	57	13	23	23	26	82	61	70	.127	.127	.142	3.76	1.51	5.0	4.8	5.2	4.8
March	29.607	30.120	28.650	42.1	50.4	48.3	56.1	37.1	46.6	75	13	33	35	36	71	59	64	.209	.226	.229	2.66	1.08	5.3	6.1	4.1	5.3
April	29.562	30.090	28.770	48.8	57.5	55.3	62.4	44.5	53.4	88	34	38	39	41	68	54	63	.239	.255	.277	5.32	1.72	7.2	6.9	5.6	6.6
May	29.717	30.180	28.670	57.8	66.5	62.9	72.0	50.8	61.4	93	39	48	47	48	76	52	62	.361	.357	.372	3.48	1.00	6.1	6.1	5.7	5.7
June	29.608	29.800	29.250	67.8	76.4	72.4	81.5	60.8	71.2	95	45	56	55	57	67	43	60	.476	.457	.491	3.65	1.00	5.2	5.6	5.1	5.2
July	29.692	30.027	29.320	71.2	80.6	77.2	84.7	64.5	74.6	95	53	59	57	60	67	47	58	.524	.497	.549	2.10	1.11	4.7	5.6	5.0	5.1
August	29.655	30.000	29.240	66.5	77.1	73.0	81.6	60.8	71.2	95	53	56	56	57	70	50	59	.463	.464	.483	3.41	1.22	3.9	4.4	5.1	4.5
September	29.761	30.140	29.370	62.8	73.3	68.8	78.2	57.8	68.0	96	41	55	55	57	76	56	68	.455	.469	.493	4.31	1.16	5.1	5.4	4.1	4.9
October	29.709	30.377	28.970	48.2	57.9	54.8	62.2	44.4	53.3	76	34	40	38	42	74	51	62	.257	.247	.278	5.45	3.61	5.4	6.5	4.2	5.4
November	29.723	30.190	28.870	42.3	48.1	45.1	51.2	38.5	44.8	76	11	36	34	34	76	59	64	.235	.227	.219	2.95	1.45	6.1	7.0	6.2	6.6
December	29.718	30.300	29.140	30.5	36.3	35.9	40.5	27.5	34.0	62	14	25	26	27	78	66	71	.142	.153	.159	2.51	.76	7.9	6.8	7.0	7.2
Year	29.685	30.377	28.650	49.5	57.7	54.9	62.4	44.6	53.5	96	8	41	41	42	73	56	65	.302	.301	.318	43.17	3.61	5.7	6.0	5.2	5.6

RED BLUFF, CALIF.

[ϕ=40° 10′ N.; λ=122° 15′ W.]

January	29.722	30.040	29.300	36.7	44.7	47.3	49.1	34.4	41.8	66	27	34	35	36	88	72	69	0.196	0.209	0.214	1.47	0.98	5.2	6.1	5.2	5.9
February	29.753	30.030	29.395	39.9	54.8	58.2	60.1	36.5	48.3	74	26	28	28	27	64	39	35	.165	.165	.164	2.21	1.06	3.1	2.8	3.7	3.6
March	29.699	30.030	29.200	46.1	60.4	64.4	65.9	43.4	54.6	84	33	37	37	37	73	48	42	.228	.237	.235	1.26	.76	5.3	5.4	5.8	5.7
April	29.636	29.890	29.320	45.8	62.6	66.3	68.3	44.2	55.8	86	31	38	37	36	76	42	37	.235	.233	.217	1.12	.65	5.1	5.9	5.2	5.4
May	29.579	29.780	29.280	55.7	75.7	81.9	83.8	51.3	69.0	102	46	41	39	37	61	27	32	.271	.239	.240	.12	.12	3.7	3.3	3.3	3.3
June	29.542	29.810	29.200	61.2	80.8	86.0	88.0	60.1	74.0	107	46	49	45	44	66	35	27	.350	.311	.293	1.26	.67	4.5	3.3	3.4	3.6
July	29.524	29.760	29.290	66.6	88.9	90.1	97.6	65.2	81.4	108	58	48	46	44	53	24	18	.337	.322	.302	T.	T.	1.6	.7	1.2	1.0
August	29.531	29.700	29.330	64.5	90.4	97.3	98.6	62.5	80.6	112	53	44	44	39	45	21	14	.297	.290	.244	0	0	.5	.3	.4	.5
September	29.476	29.670	29.280	59.7	83.5	88.1	90.2	57.6	73.9	107	46	36	36	36	44	21	17	.227	.225	.217	0	0	.0	.8	1.7	1.0
October	29.624	29.780	29.446	55.4	76.6	78.5	82.7	52.4	67.6	95	44	37	37	37	52	27	24	.233	.235	.231	.10	.10	2.1	2.2	2.1	2.5
November	29.767	30.100	29.572	45.6	66.9	67.2	73.5	42.0	57.8	88	31	23	24	26	42	29	22	.127	.129	.147	0	0	1.2	.9	1.3	1.3
December	29.757	29.958	29.383	45.7	54.5	55.6	58.7	43.2	51.0	76	30	41	42	43	86	68	68	.272	.278	.289	4.18	1.28	6.2	5.9	5.1	5.6
Year	29.633	30.100	29.200	51.9	70.1	73.9	76.4	49.6	63.0	112	26	38	37	37	63	37	33	.245	.239	.233	11.72	1.28	3.2	3.1	3.2	3.3

RENO, NEV.

[ϕ=39° 32′ N.; λ=119° 49′ W.]

January	25.446	25.850	25.010	24.7	36.9	38.3	42.9	20.2	31.6	54	5	18	24	25	75	58	58	0.099	0.125	0.132	0.44	0.32	4.1	4.3	4.1	4.2
February	25.491	25.760	25.130	23.7	38.6	41.1	44.0	19.8	31.9	59	−6	16	22	23	71	54	51	.091	.116	.125	1.08	.43	3.4	3.9	4.3	3.6
March	25.443	25.750	24.910	33.5	49.5	50.8	54.9	29.9	42.4	72	14	24	26	28	69	42	43	.130	.141	.150	.67	.25	4.1	5.2	5.4	4.9
April	25.394	25.620	25.060	34.4	51.1	51.6	55.9	31.4	43.6	72	15	24	24	25	66	38	38	.130	.129	.130	.66	.44	4.4	5.5	5.4	5.0
May	25.441	25.670	25.184	44.8	67.8	68.1	72.7	42.4	57.6	86	31	30	28	28	56	24	24	.170	.152	.156	.01	.01	3.1	4.5	5.0	3.8
June	25.445	25.690	25.120	48.6	71.3	73.3	77.0	46.6	61.8	98	34	37	34	36	60	30	31	.221	.200	.216	1.12	.55	3.0	3.2	3.2	3.1
July	25.488	25.660	25.310	57.1	85.9	86.9	91.7	55.0	73.4	99	46	38	31	35	49	14	16	.234	.177	.205	.10	.10	1.4	.8	2.1	1.3
August	25.512	25.640	25.360	58.1	87.2	86.4	91.2	55.8	73.5	102	48	37	34	36	47	16	19	.225	.204	.215	.53	.40	1.5	2.2	2.0	1.8
September	25.425	25.640	25.254	46.2	73.6	75.1	78.9	43.4	61.2	96	31	31	27	31	54	19	20	.173	.148	.173	.03	.02	.5	1.3	1.7	1.2
October	25.544	25.750	25.260	39.7	67.0	67.1	71.7	36.4	54.0	84	22	27	29	28	59	25	24	.147	.162	.158	.03	.03	.8	2.2	2.1	1.5
November	25.663	25.900	25.380	27.7	53.4	53.6	59.7	24.0	41.8	73	14	17	22	25	62	29	32	.092	.117	.132	0	0	.1	1.0	1.1	.9
December	25.559	25.850	25.210	35.4	49.4	48.4	54.2	30.8	42.5	63	21	27	29	31	70	46	51	.148	.161	.172	1.74	1.17	3.5	4.3	4.0	4.0
Year	25.488	25.960	24.910	39.5	61.0	61.7	66.2	36.3	51.3	102	−6	27	28	29	62	33	34	.155	.153	.164	6.41	1.17	2.5	3.2	3.4	2.9

RICHMOND, VA.

[ϕ=37° 32′ N.; λ=77° 27′ W.]

January	29.964	30.490	29.330	33.3	42.3	39.9	48.4	29.1	38.8	70	12	26	26	28	74	55	63	0.156	0.159	0.166	1.53	0.56	4.9	5.5	4.3	5.5
February	29.967	30.330	29.450	30.6	42.0	40.2	47.6	28.8	38.2	67	16	27	28	30	86	59	68	.158	.170	.183	5.19	1.41	4.7	5.3	5.0	5.1
March	29.866	30.470	28.820	46.7	57.3	54.5	63.4	42.1	52.8	87	18	38	38	39	74	53	59	.268	.266	.277	3.96	1.61	5.3	4.8	4.2	5.2
April	29.786	30.326	29.060	54.6	65.9	62.8	71.1	49.4	60.2	94	38	46	45	45	73	52	56	.317	.320	.316	3.50	1.08	5.0	4.1	3.8	4.5
May	29.943	30.426	29.000	62.0	70.4	67.1	76.0	55.7	65.8	88	45	55	55	56	78	60	70	.453	.463	.471	4.00	1.31	5.1	5.5	5.4	4.7
June	29.822	30.024	29.520	68.2	79.0	73.8	82.9	63.3	73.1	94	47	62	61	63	82	56	70	.580	.562	.589	3.02	1.01	3.8	3.5	4.7	4.5
July	29.913	30.170	29.570	71.9	82.6	77.8	87.0	67.1	77.0	97	58	65	64	66	80	55	68	.630	.617	.656	2.16	.64	4.0	4.5	5.1	4.7
August	29.855	30.210	29.490	70.0	81.2	76.2	84.9	65.3	75.1	94	54	63	60	63	80	51	66	.590	.532	.592	2.41	.84	4.2	4.2	4.8	4.5
September	29.957	30.190	29.650	64.3	77.1	71.0	81.5	60.9	71.2	93	44	60	58	60	87	54	70	.540	.517	.548	2.41	2.13	5.7	3.7	3.6	4.3
October	29.924	30.530	29.180	51.3	64.6	58.3	68.2	47.8	58.0	80	39	45	44	47	80	51	67	.316	.314	.333	6.99	4.81	3.4	4.0	3.2	4.0
November	29.966	30.410	29.220	45.4	54.1	50.4	57.7	41.8	49.8	81	14	40	39	41	82	59	71	.283	.279	.290	3.34	2.24	6.4	5.4	4.9	5.0
December	29.966	30.425	29.345	35.0	46.0	42.8	50.4	32.5	41.4	71	12	30	31	34	80	59	72	.180	.192	.208	2.70	1.02	4.6	4.8	4.0	4.5
Year	29.910	30.530	28.820	52.8	63.5	59.6	68.3	48.6	58.4	97	12	46	46	48	80	55	67	.373	.366	.386	41.21	4.81	4.8	4.6	4.4	4.8

Annual meteorological summary for the year ending December 31, 1929—Continued

READING, PA.

[H_b=325 ft.; h_t=81 ft.; h_r=73 ft.; h_a=98 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	7.8	NW.	28	SE.	0	5	1	0	9	3	10	14	20	0	9	12	10	12	8	11	6	0	2	6	0	28	0	0
February	6.1	NW.	23	SE.	0	8	2	4	7	3	4	9	18	1	12	9	7	7	7	5	4	0	1	7	0	20	0	0
March	6.9	NW.	32	NW.	0	3	3	1	11	7	6	11	20	0	11	9	11	10	9	4	2	0	0	0	0	9	0	0
April	7.2	NW.	35	NE.	1	6	7	6	7	11	4	4	15	0	8	8	14	13	12	0	0	0	0	0	0	0	0	0
May	6.0	SW.	25	W.	0	6	5	0	11	9	13	7	11	0	9	11	11	14	11	0	0	1	0	0	1	0	0	0
June	5.0	SW.	19	N.	0	7	4	1	11	6	16	5	10	0	11	12	7	10	10	0	0	0	0	0	5	0	8	0
July	4.8	SW.	26	SW.	0	7	3	0	7	9	15	13	8	0	13	11	7	8	7	0	0	0	0	0	7	0	10	0
August	4.8	N.	25	SE.	0	11	4	1	13	7	7	6	12	1	14	10	7	10	9	0	0	1	0	0	3	0	8	0
September	4.4	SE.	22	W.	0	7	6	3	12	9	8	5	10	0	13	8	9	9	9	0	0	0	1	0	4	0	6	0
October	6.0	NW.	31	SE.	0	6	7	1	14	6	6	8	14	0	11	11	9	8	4	0	0	0	0	0	0	0	0	0
November	5.5	W.	21	NW.	0	9	3	5	5	6	9	12	11	0	8	8	14	10	8	3	1	0	2	2	0	7	0	0
December	4.8	W.	19	W.	0	17	7	3	8	1	8	11	7	0	6	8	17	11	8	5	4	0	0	9	0	22	1	0
Year	5.8	W.	35	NE.	1	92	52	25	115	77	106	105	156	2	125	117	123	122	102	28	17	2	6	24	20	86	39	0

RED BLUFF, CALIF.

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

January	4.8	S.	24	SE.	0	9	0	3	10	13	3	4	20	0	10	5	16	6	3	2	2	0	7	0	0	12	0	0
February	5.9	NW.	28	SE.	0	24	0	0	5	7	2	0	17	1	16	8	4	5	4	0	0	1	0	0	0	6	0	0
March	5.5	NW.	28	NW.	0	8	0	0	7	16	2	5	20	4	11	7	13	6	4	0	0	1	0	0	0	0	1	0
April	5.8	S.	25	NW.	0	8	0	4	14	16	2	7	9	0	9	9	12	7	6	1	0	2	0	0	0	2	2	0
May	5.8	N.	23	NW.	0	13	0	4	14	12	2	3	14	0	18	8	5	1	0	0	0	0	0	0	5	0	1	0
June	5.6	SE.	20	SE.	0	13	0	7	18	5	2	2	13	0	16	5	9	5	3	0	0	0	0	0	15	0	1	0
July	5.4	S.	19	NW.	0	5	1	3	23	14	0	5	10	1	27	3	1	0	0	0	0	0	0	0	29	0	0	0
August	4.1	S.	15	NW.	0	3	0	3	19	16	3	4	14	0	29	2	0	0	0	0	0	0	0	0	29	0	0	0
September	4.3	NW.	18	N.	0	10	0	0	8	16	1	3	22	0	26	4	0	0	0	0	0	0	0	0	15	0	0	0
October	4.8	NW.	26	N.	0	16	1	0	5	11	1	4	23	1	20	6	5	1	0	0	0	0	0	0	9	0	1	0
November	4.9	NW.	23	NW.	0	13	1	2	5	4	0	3	30	2	26	4	0	0	0	0	0	0	0	0	0	0	0	0
December	6.8	SE.	33	SE.	1	13	2	6	17	6	1	2	14	1	11	7	13	10	8	0	0	0	5	0	0	2	0	0
Year	5.3	NW.	33	SE.	1	135	5	32	145	136	19	42	206	10	219	68	78	41	28	3	2	4	12	0	102	22	6	0

RENO, NEV.

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

January	5.9	W.	40	W.	1	3	2	4	4	5	10	23	9	2	15	8	8	3	2	7	3	0	0	2	0	28	0	0
February	4.6	W.	26	SE.	0	9	4	6	6	2	2	20	7	0	16	6	6	6	5	6	5	0	0	4	0	24	0	0
March	6.0	W.	36	W.	1	5	3	4	2	6	3	30	8	1	14	8	9	6	6	6	3	0	0	0	0	20	0	0
April	7.7	W.	30	W.	0	2	2	0	5	5	7	33	6	0	10	11	9	5	4	7	3	0	0	0	0	12	0	0
May	7.1	W.	33	W.	1	7	7	1	5	0	6	29	6	1	16	13	2	1	0	2	0	0	0	0	0	1	1	0
June	6.9	W.	32	W.	0	2	1	2	4	3	6	40	1	1	19	5	6	5	5	0	0	0	0	0	10	1	0	0
July	6.5	W.	28	W.	0	1	3	1	1	1	6	47	1	1	29	1	1	1	1	0	0	0	0	0	20	0	1	0
August	6.2	W.	24	W.	0	0	1	1	3	3	13	38	2	1	24	7	0	2	2	0	0	0	0	0	20	0	2	0
September	5.4	W.	24	S.	0	4	2	4	6	6	13	23	2	0	24	6	0	2	0	0	0	0	0	0	5	1	1	0
October	4.5	W.	26	W.	0	1	5	9	4	6	14	21	1	1	24	7	0	1	0	0	0	0	0	0	0	7	1	0
November	3.8	SW.	30	W.	0	1	2	8	4	7	20	14	3	1	28	2	0	0	0	0	0	0	0	0	0	29	0	0
December	5.1	W.	31	SW.	0	1	1	4	6	14	14	15	4	3	16	8	7	4	5	0	0	0	0	0	0	18	0	0
Year	5.8	W.	40	W.	3	36	33	44	50	58	114	333	50	12	235	82	48	39	30	28	14	0	0	6	55	141	6	0

RICHMOND, VA.

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

January	7.8	NE.	35	W.	2	6	14	5	8	1	14	7	6	1	12	6	13	13	8	5	5	0	2	1	0	22	0	0
February	6.4	NE.	23	NE.	0	5	18	2	4	3	11	4	8	1	13	3	12	14	9	5	4	0	1	0	0	20	0	0
March	9.4	SW.	40	NW.	3	0	7	5	5	6	24	5	10	0	11	11	9	10	8	1	0	0	0	0	0	7	4	0
April	8.9	SW.	39	SW.	1	4	6	7	4	2	19	7	10	1	15	6	9	9	7	0	0	0	0	0	3	0	2	0
May	7.7	SW.	39	W.	2	2	14	4	9	2	24	5	2	0	12	14	5	14	10	0	0	0	0	0	0	0	6	0
June	6.1	SW.	32	W.	0	5	12	3	7	4	18	8	3	0	13	8	9	9	8	0	0	0	0	0	4	0	10	0
July	6.2	SW.	20	NW.	0	2	7	6	8	6	19	11	3	0	13	9	9	12	10	0	0	0	0	0	13	0	8	0
August	5.4	SW.	26	NW.	0	2	9	10	5	6	15	3	12	0	14	13	4	10	7	0	0	0	0	0	6	0	4	0
September	6.4	SW.	18	E.	0	5	14	5	10	2	20	3	1	0	17	7	6	7	5	0	0	0	0	2	0	7	3	0
October	7.5	NE.	32	SW.	0	1	11	9	11	4	14	6	4	2	15	9	7	7	6	0	0	0	0	0	0	0	0	0
November	7.2	SW.	27	NW.	0	7	10	4	2	5	18	6	7	1	8	9	13	11	10	3	2	0	2	1	0	5	0	0
December	7.2	SW.	35	SW.	1	5	5	3	6	2	25	10	5	1	13	10	8	12	8	3	2	0	1	1	0	17	0	0
Year	7.2	SW.	40	NW.	9	44	127	63	79	43	221	75	71	7	156	105	104	128	96	17	13	0	8	3	33	71	37	0

Annual meteorological summary for the year ending December 31, 1929—Continued

ROCHESTER, N. Y
[ϕ=43° 08′ N.; λ=77° 42′ W.]

Month	Pressure			Temperature								Moisture														
		Extremes		Mean				Extremes				Dew point			Relative humidity			Vapor pressure			Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.424	30.040	28.430	22.5	25.0	24.1	31.4	17.5	24.4	62	−1	16	16	16	75	68	70	0.099	0.097	0.101	3.22	0.70	8.5	8.0	7.4	8.6
February	29.516	29.910	29.070	23.0	26.4	24.9	30.0	18.7	24.4	49	5	18	19	18	78	71	72	.099	.105	.100	1.46	.53	8.7	8.5	7.0	8.0
March	29.340	29.840	28.290	36.6	41.7	40.8	49.4	31.6	40.5	70	8	28	29	31	71	62	69	.165	.177	.187	2.43	.65	8.2	8.7	6.6	7.4
April	29.335	29.840	28.680	44.8	50.6	47.3	55.5	38.0	46.8	77	23	36	36	37	73	61	68	.231	.232	.231	5.41	1.00	6.7	6.8	6.9	7.2
May	29.474	29.980	28.360	52.4	58.2	56.6	65.7	45.4	55.6	92	34	42	41	42	68	56	60	.286	.280	.292	2.20	.47	6.5	6.6	4.4	6.2
June	29.387	29.654	28.930	63.3	70.8	67.0	75.4	56.1	65.8	92	40	52	51	52	66	52	61	.404	.398	.413	.76	.21	4.4	4.6	4.8	4.7
July	29.458	29.852	29.120	67.3	77.2	72.8	81.3	60.4	70.8	93	47	57	54	56	71	48	58	.480	.444	.476	3.54	2.21	4.1	5.0	3.6	4.1
August	29.449	29.760	29.042	62.5	71.4	67.6	76.1	56.7	66.4	90	48	52	52	52	70	51	60	.402	.390	.409	1.31	.45	4.1	4.9	3.1	4.5
September	29.534	29.976	29.200	60.4	69.7	64.7	73.6	55.7	64.6	94	36	51	50	52	73	53	65	.405	.389	.401	2.87	1.51	5.5	4.8	4.8	5.0
October	29.468	30.179	28.869	46.4	53.2	50.3	57.1	42.4	49.8	77	31	36	38	38	68	58	64	.222	.241	.242	3.87	2.91	7.6	7.5	6.2	7.0
November	29.440	29.920	28.580	36.2	41.5	38.7	44.7	32.9	38.8	69	10	30	31	31	79	66	73	.184	.191	.190	1.92	.56	6.9	7.7	6.4	7.6
December	29.454	30.060	28.740	26.0	28.1	27.6	32.3	22.5	27.4	46	4	22	23	22	82	80	79	.117	.125	.123	3.52	.88	9.0	9.0	9.0	9.4
Year	29.440	30.179	28.290	45.1	51.2	48.5	56.0	39.8	47.9	94	−1	37	37	37	73	60	67	.258	.256	.264	32.51	2.91	6.7	6.8	5.8	6.6

ROSEBURG, OREG.
[ϕ=43° 13′ N.; λ=123° 20′ W.]

January	29.564	29.900	29.070	34.6	38.4	39.4	40.8	32.1	36.4	51	19	33	33	34	92	82	82	0.188	0.191	0.199	3.95	1.09	8.7	8.8	7.8	9.0
February	29.661	29.970	29.150	32.1	42.3	48.1	49.6	29.3	39.4	60	16	30	31	32	91	65	54	.168	.178	.183	1.11	.39	6.0	5.0	4.3	5.4
March	29.559	29.850	28.960	40.4	50.7	53.6	56.4	37.2	46.8	74	30	37	37	38	89	61	58	.226	.226	.235	2.02	.38	7.6	6.6	6.9	7.5
April	29.480	29.810	29.070	40.2	52.0	54.5	57.1	38.3	47.7	76	30	38	37	36	90	57	54	.228	.221	.216	3.15	.90	7.2	7.8	6.9	7.4
May	29.535	29.820	29.180	45.2	63.1	67.4	69.9	43.3	56.6	87	35	42	42	39	88	48	39	.266	.274	.244	.65	.26	5.7	3.9	3.9	4.9
June	29.456	29.840	29.086	51.0	66.8	70.8	73.1	49.6	61.4	92	38	47	48	48	88	52	47	.329	.335	.335	2.67	.78	5.6	4.3	4.7	5.0
July	29.490	29.730	29.250	53.7	74.7	80.1	82.2	52.6	67.4	94	46	48	49	49	83	41	35	.342	.355	.349	.01	.01	2.5	1.2	1.4	2.1
August	29.473	29.670	29.300	54.1	75.6	81.7	83.7	52.5	68.1	95	46	49	50	48	83	42	34	.347	.365	.344	.01	.01	2.5	.9	1.1	1.8
September	29.422	29.590	29.200	48.2	69.1	75.7	77.1	45.8	61.4	92	35	42	42	40	81	41	32	.274	.275	.257	.03	.03	2.8	2.2	1.7	2.8
October	29.539	29.790	29.240	45.8	61.4	67.2	69.5	43.1	56.3	81	29	44	46	47	93	58	50	.294	.315	.327	1.21	.63	5.2	3.2	2.9	4.8
November	29.733	30.040	29.470	35.2	45.8	49.5	52.0	31.7	41.8	66	25	34	38	39	96	74	68	.200	.226	.237	.25	.22	5.2	5.5	3.7	6.3
December	29.548	29.970	28.870	42.1	47.3	47.7	50.8	39.1	45.0	68	26	41	42	43	95	82	84	.257	.268	.278	7.94	2.12	8.1	8.2	7.7	8.5
Year	29.538	30.040	28.870	43.6	57.3	61.3	63.5	41.2	52.4	98	16	40	41	41	89	59	53	.260	.269	.267	23.00	2.12	5.6	4.8	4.4	5.5

ROSWELL, N. MEX.
[ϕ=33° 24′ N.; λ=104° 27′ W.]

January	26.324	26.750	25.900	28.9	45.1	48.9	54.9	24.5	39.7	69	12	20	24	25	68	45	39	0.105	0.133	0.137	0.03	0.03	4.1	4.0	3.6	4.0
February	26.304	26.810	25.940	26.4	44.1	46.4	51.5	23.2	37.4	69	0	19	23	24	76	45	43	.106	.125	.129	.46	.34	5.0	3.6	3.1	3.8
March	26.270	26.690	25.810	38.4	58.1	61.2	64.5	35.0	49.8	83	17	26	25	25	64	33	30	.144	.143	.145	.80	.79	3.5	5.6	3.9	4.4
April	26.239	26.590	25.930	47.7	70.2	73.7	76.0	45.2	60.6	85	32	30	30	24	53	25	17	.178	.177	.139	T.	T.	3.0	2.7	3.8	3.2
May	26.325	26.650	25.886	54.5	72.2	74.0	78.0	52.4	65.2	93	31	44	41	39	71	38	36	.307	.272	.265	2.30	.76	5.1	4.2	4.9	4.6
June	26.302	26.550	26.093	62.7	84.9	88.1	91.3	61.0	76.2	101	55	50	47	43	64	30	26	.362	.329	.303	1.15	.92	2.6	3.0	3.2	2.5
July	26.396	26.580	26.158	67.2	84.7	86.4	90.0	65.4	77.7	97	59	59	56	54	76	39	36	.508	.454	.426	4.70	2.30	4.2	2.8	3.4	3.3
August	26.430	26.560	26.277	65.7	85.8	85.9	90.3	64.5	77.4	95	59	58	54	52	76	35	35	.481	.422	.405	.85	.36	3.6	2.6	3.7	3.1
September	26.356	26.650	26.100	59.4	78.4	80.3	84.0	57.8	70.9	93	52	52	53	51	76	44	39	.387	.403	.380	.42	.27	3.6	2.6	2.7	3.4
October	26.409	26.770	25.800	50.7	67.3	66.6	72.2	48.1	60.2	93	26	43	43	42	76	45	45	.291	.296	.284	.58	.30	5.0	4.6	4.5	4.9
November	26.463	26.850	26.100	30.3	47.6	47.1	54.2	27.1	40.6	78	16	27	30	32	86	54	57	.148	.172	.180	1.09	.54	3.8	3.3	3.0	3.4
December	26.454	26.800	26.080	28.2	50.2	50.4	58.1	23.7	40.9	73	9	18	23	24	63	35	36	.096	.124	.127	0	0	3.0	3.0	2.5	2.9
Year	26.356	26.850	25.800	46.7	65.7	67.4	72.1	44.0	58.0	101	0	37	37	36	71	39	37	.259	.254	.243	12.38	2.30	3.9	3.5	3.5	3.6

ROYAL CENTER, IND.
[ϕ=40° 53′ N.; λ=86° 29′ W.]

January	29.272	29.735	28.470	15.9	22.0	.....	29.1	9.3	19.2	52	−7	12	15	...	85	73	...	0.086	0.099	.....	3.88	1.06	7.7	7.0	.....	6.8
February	29.311	29.790	28.720	15.5	25.5	.....	30.3	12.0	21.2	52	−1½	14	17	...	92	70	...	.091	.103	.....	.48	.14	6.6	6.4	.....	6.6
March	29.136	29.800	28.380	39.2	48.9	.....	54.3	34.6	44.4	75	12	34	38	...	82	67	...	.215	.251	.....	3.87	1.62	6.7	6.2	.....	6.6
April	29.107	29.500	28.438	47.1	58.1	.....	62.0	41.4	51.7	82	29	41	42	...	79	58	...	.271	.294	.....	3.95	1.20	6.7	6.8	.....	6.6
May	29.264	29.690	28.519	53.5	62.9	.....	65.5	46.5	56.0	87	32	47	48	...	80	60	...	.357	.369	.....	4.82	1.31	6.3	6.8	.....	6.5
June	29.184	29.388	28.850	63.5	73.9	.....	76.9	55.4	66.2	88	38	56	56	...	76	54	...	.461	.464	.....	2.98	1.90	4.9	6.2	.....	5.4
July	29.259	29.520	28.980	69.1	80.2	.....	83.6	62.4	73.0	93	45	61	61	...	76	54	...	.557	.557	.....	4.03	2.04	4.3	4.9	.....	4.7
August	29.264	29.500	28.790	63.4	76.9	.....	79.9	56.7	68.3	90	45	57	56	...	81	50	...	.478	.468	.....	1.62	.93	4.1	4.1	.....	4.5
September	29.292	29.569	28.920	57.6	71.3	.....	74.4	52.9	63.6	90	35	53	52	...	85	53	...	.425	.409	.....	2.81	1.52	3.9	5.0	.....	5.0
October	29.254	29.678	28.659	44.0	56.1	.....	58.9	40.5	49.7	75	30	40	42	...	85	62	...	.256	.275	.....	3.71	.87	5.2	5.4	.....	5.5
November	29.295	29.810	28.631	30.2	39.2	.....	42.1	28.2	35.2	56	−1	28	29	...	89	67	...	.165	.176	.....	2.58	.95	5.7	5.9	.....	6.3
December	29.251	29.750	28.853	23.3	29.6	.....	33.8	20.3	27.0	59	−5	22	25	...	92	82	...	.126	.147	.....	2.80	1.19	8.2	7.5	.....	8.0
Year	29.241	29.810	28.380	43.5	53.7	.....	57.6	38.4	48.0	93	−14	39	40	...	84	62	...	.291	.301	.....	37.53	2.04	5.9	6.0	.....	6.0

Annual meteorological summary for the year ending December 31, 1929—Continued

ROCHESTER, N. Y.

[H_b=523 ft.; h_t=86 ft.; h_r=77 ft.; h_a=102 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	11.2	W.	40	SW.	6	1	0	0	10	3	15	29	4	0	0	7	24	24	20	26	20	0	0	17	0	30	1	0
February	8.3	W.	26	W.	0	0	4	2	9	3	16	18	4	0	2	6	20	17	8	20	16	0	0	16	0	27	0	0
March	8.9	SW.	45	SW.	1	5	3	1	6	7	14	16	10	0	2	13	16	17	13	8	7	0	1	2	0	13	1	1
April	9.1	W.	45	SW.	1	3	9	2	5	6	11	16	8	0	7	5	18	22	15	7	5	0	0	0	0	4	5	0
May	7.7	W.	36	W.	2	5	8	1	0	7	23	12	6	0	7	13	11	15	13	1	0	0	1	0	1	0	1	0
June	7.0	W.	28	SW.	0	7	7	2	0	6	14	19	5	0	10	13	7	8	5	0	0	0	0	0	2	0	5	0
July	6.6	SW.	26	SW.	0	4	8	2	1	6	24	5	12	0	12	14	5	12	7	0	0	0	0	0	3	0	8	1
August	6.1	SW.	27	W.	0	7	8	2	2	5	12	11	15	0	16	6	9	11	6	0	0	0	0	0	1	0	4	0
September	6.5	SW.	35	W.	1	3	11	5	3	8	15	6	9	0	12	4	14	7	5	0	0	0	0	0	3	0	1	0
October	8.0	SW.	30	W.	0	2	7	4	5	7	17	12	8	0	5	8	18	8	8	2	0	0	0	0	0	3	1	0
November	8.8	SW.	38	W.	1	2	2	2	2	5	29	16	2	0	4	6	20	16	12	8	5	0	0	3	0	13	0	0
December	8.7	W.	29	W.	0	0	8	8	3	7	16	20	0	0	1	1	29	20	15	21	15	0	2	17	0	26	0	0
Year	8.1	W.	45	SW.	12	39	75	31	46	70	206	180	83	0	78	96	191	177	127	93	68	0	4	55	10	116	27	2

ROSEBURG, OREG.

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

January	3.3	SW.	18	N.	0	9	4	9	8	8	11	3	10	0	0	7	24	16	14	9	7	0	3	1	0	15	0	0
February	2.8	NW.	25	N.	0	19	3	1	2	7	2	6	11	5	7	14	7	8	5	1	0	0	1	0	0	14	0	0
March	3.2	NW.	21	NW.	0	11	5	0	4	5	15	5	16	1	1	13	17	15	10	4	2	1	3	0	0	5	0	0
April	3.8	SW.	20	W.	0	12	3	3	3	10	13	4	10	2	4	7	19	18	14	4	4	1	0	0	0	3	0	0
May	4.0	N.	18	W.	0	29	5	2	0	3	6	3	12	2	11	14	6	7	6	0	0	0	1	0	0	0	0	0
June	3.7	N.	20	SW.	0	26	5	1	0	3	11	2	7	5	12	5	13	10	8	0	0	0	1	0	1	0	1	0
July	4.2	N.	22	N.	0	34	1	0	0	1	2	2	19	3	23	7	1	1	0	0	0	0	0	0	3	0	0	0
August	3.7	N.	18	NW.	0	31	1	0	0	1	2	0	17	10	24	5	2	1	0	0	0	0	0	0	5	0	0	0
September	2.6	N.	17	N.	0	28	3	3	3	5	1	4	8	5	17	10	3	1	0	0	0	0	1	0	4	0	0	0
October	2.3	NW.	16	N.	0	11	8	3	5	7	3	3	18	4	11	11	9	8	5	0	0	0	8	0	0	1	2	0
November	2.3	NW.	13	N.	0	9	5	5	4	9	7	2	18	1	4	16	10	2	2	0	0	0	11	0	0	17	0	0
December	2.6	S.	25	SW.	0	11	8	9	12	4	5	4	9	0	0	9	22	18	14	0	0	0	10	0	0	5	0	0
Year	3.2	N.	25	SW.	0	230	51	36	41	63	78	38	155	38	114	118	133	105	78	18	13	2	39	1	13	60	3	0

ROSWELL, N. MEX.

[H_b=3,566 ft.; h_t=75 ft.; h_r=69 ft.; h_a=85 ft.]

January	5.8	S.	38	NW.	1	13	1	1	4	16	7	6	8	6	16	9	6	1	0	2	1	0	0	0	0	27	0	0
February	6.2	S.	31	NW.	0	9	5	5	0	12	0	10	4	11	15	7	6	4	2	5	4	0	0	4	0	23	0	0
March	8.0	SW.	30	SW.	0	13	3	3	0	8	11	11	11	2	12	14	5	2	2	0	0	0	0	0	0	13	1	0
April	8.8	S.	32	SW.	0	6	2	0	1	21	7	16	7	0	18	7	5	0	0	0	0	0	1	0	0	0	1	0
May	8.4	S.	33	NW.	1	8	5	3	7	20	10	4	5	0	13	10	8	7	6	0	0	0	0	0	2	1	7	0
June	6.7	S.	29	S.	0	4	2	7	8	21	4	6	6	2	21	8	1	5	4	0	0	3	0	0	19	0	7	0
July	6.5	S.	34	NE.	1	2	3	4	12	36	2	2	0	1	18	10	3	7	6	0	0	1	0	0	18	0	8	0
August	4.9	SE.	29	SW.	0	5	6	1	19	9	7	6	7	2	20	8	3	7	5	0	0	0	0	0	20	0	6	0
September	6.0	S.	32	NE.	0	5	10	5	6	22	6	2	2	2	17	10	3	4	4	0	0	0	1	0	8	0	5	0
October	5.8	S.	34	S.	1	8	4	3	4	26	4	4	6	3	12	10	9	5	3	0	0	0	4	0	4	3	5	0
November	6.2	NE.	33	NE.	1	9	16	3	2	16	4	2	8	0	19	5	6	5	5	5	4	0	1	0	0	26	1	0
December	5.2	S.	30	NW.	0	6	8	5	4	23	0	4	9	3	21	4	6	0	0	0	0	0	0	1	0	27	0	0
Year	6.5	S.	38	NW.	5	88	65	40	67	230	62	73	73	32	202	102	61	47	37	12	9	4	7	5	71	120	41	0

ROYAL CENTER, IND.

[H_b=738 ft.; h_t=11 ft.; h_r=3 ft.; h_a=55 ft.]

January	11.2	W.	36	W.	2	2	1	4	4	7	0	7	6	0	7	6	18	13	11	20	8	0	1	21	0	31	1	0
February	7.9	SW.	26	SW.	0	3	2	3	3	1	8	6	2	0	4	10	14	9	5	15	8	0	1	17	0	25	0	0
March	11.4	SW.	44	W.	2	3	0	5	5	9	2	3	1	6	10	15	13	9	6	1	1	1	1	0	0	11	3	0
April	12.0	SW.	44	SW.	3	5	5	1	6	3	7	1	2	0	6	9	15	13	12	2	0	2	0	0	0	6	7	0
May	9.5	S.	46	W.	2	2	6	2	8	7	3	3	2	0	4	15	12	12	12	1	1	1	0	0	0	1	8	0
June	7.5	S.	37	NW.	1	1	4	3	4	6	4	5	3	0	7	14	9	11	8	0	0	0	0	0	0	0	10	0
July	6.8	SW.	26	S.	0	1	3	4	2	7	11	2	1	0	12	13	6	12	9	0	0	0	0	0	5	0	13	0
August	6.5	S.	30	W.	0	1	5	6	2	7	5	3	2	0	11	12	8	8	6	0	0	0	0	0	1	0	6	0
September	7.4	E.	28	SW.	0	3	3	8	5	5	4	2	0	0	12	7	11	9	7	0	0	0	2	0	2	0	5	0
October	9.6	SW.	31	E.	0	3	3	4	5	4	6	5	1	0	13	5	13	13	10	2	2	0	0	0	0	3	2	0
November	9.0	W.	39	W.	1	0	3	2	4	2	8	9	2	0	9	7	14	9	6	3	3	0	0	6	0	19	2	0
December	10.1	SW.	43	N.	1	2	3	2	3	8	6	6	1	0	4	6	21	16	12	13	10	0	2	11	0	24	1	0
Year	9.1	SW.	46	W.	12	26	41	39	49	62	71	51	25	1	95	114	156	138	107	62	33	4	7	56	8	120	58	0

Annual meteorological summary for the year ending December 31, 1929—Continued

SACRAMENTO, CALIF.

[ϕ=38° 35′ N.; λ=121° 30′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.016	30.320	29.579	38.0	42.4	45.6	46.5	35.9	41.2	58	30	37	39	40	96	88	84	0.223	0.242	0.255	0.88	0.46	2.9	6.3	5.7	7.6
February	30.025	30.270	29.686	41.6	51.5	58.6	59.4	38.6	49.0	74	28	39	40	38	90	66	50	.245	.251	.239	1.44	.68	2.6	1.8	1.8	2.3
March	29.971	30.320	29.525	45.4	57.4	63.0	64.8	43.4	54.1	80	36	42	45	45	89	65	55	.273	.308	.305	.78	.47	2.3	3.4	3.2	3.6
April	29.939	30.200	29.671	45.1	59.5	64.4	65.6	43.3	54.4	82	34	42	45	44	89	62	50	.269	.309	.295	.44	.27	2.4	3.5	3.1	3.2
May	29.854	30.050	29.659	51.6	70.7	77.0	78.5	50.5	64.5	89	45	46	46	45	83	45	35	.312	.327	.317	.04	.04	.7	1.4	1.8	1.5
June	29.821	30.100	29.544	58.2	76.9	83.5	84.9	57.4	71.2	106	43	51	52	52	80	46	38	.383	.400	.403	1.02	.60	1.7	1.8	1.8	1.9
July	29.816	30.050	29.550	58.9	79.7	87.4	89.2	57.9	73.6	105	53	53	55	52	81	45	33	.399	.435	.404	T.	T.	.5	.3	.4	.4
August	29.813	29.990	29.649	59.1	81.6	90.8	92.5	57.7	75.1	106	50	54	56	46	82	42	23	.411	.447	.322	0	0	.4	.4	.4	.5
September	29.754	29.960	29.560	57.2	75.7	84.6	86.1	54.7	70.4	102	47	49	48	44	76	40	27	.353	.342	.304	0	0	.0	.0	.4	.3
October	29.893	30.050	29.736	53.9	70.9	78.8	80.2	50.6	65.4	94	40	44	46	43	72	43	31	.296	.319	.292	.15	.15	.4	.9	.9	.8
November	30.035	30.360	29.860	45.3	60.9	68.6	70.7	41.9	56.3	82	37	32	32	32	61	36	26	.184	.188	.182	0	0	.0	.3	.4	.5
December	30.066	30.320	29.770	45.6	49.8	54.1	55.5	43.4	49.4	68	31	43	44	47	91	84	79	.285	.302	.330	4.06	1.56	4.3	5.2	4.5	6.6
Year	29.917	30.360	29.525	50.0	64.8	71.4	72.8	47.9	60.4	106	28	44	46	44	82	55	44	.303	.322	.304	8.81	1.56	1.5	2.1	2.0	2.4

ST. JOSEPH, MO.

[ϕ=39° 49′ N.; λ=94° 51′ W.]

January	29.048	29.480	28.290	14.2	21.0	20.4	27.4	9.0	18.2	42	−3	10	12	14	82	68	74	0.074	0.082	0.086	2.96	1.20	4.6	5.9	5.3	5.7
February	29.059	29.500	28.420	16.6	25.2	24.0	29.7	13.9	21.8	50	−10	13	17	18	84	69	75	.085	.102	.103	1.57	.72	5.9	4.0	5.7	5.2
March	28.855	29.540	28.270	38.9	50.5	50.3	56.1	36.6	46.4	86	17	31	32	32	75	52	52	.184	.188	.188	1.98	1.09	3.9	4.8	3.8	4.6
April	28.813	29.220	28.250	49.3	60.0	60.8	65.6	47.3	56.4	88	31	43	43	44	89	56	57	.292	.295	.304	6.93	2.20	5.0	5.3	5.2	5.5
May	28.986	29.354	28.590	55.1	66.0	64.5	70.6	52.2	61.4	86	36	49	49	50	80	55	61	.375	.378	.380	3.72	2.23	6.0	6.5	6.4	6.3
June	28.900	29.150	28.516	65.0	76.6	77.1	81.1	61.6	71.4	95	46	59	59	60	82	57	58	.514	.522	.538	6.71	2.16	4.1	3.9	3.0	4.1
July	28.975	29.160	28.700	71.1	83.6	83.6	88.0	68.4	78.2	96	58	65	65	65	80	55	56	.618	.621	.639	3.61	1.80	5.7	3.9	3.2	3.9
August	28.980	29.180	28.660	68.0	83.7	81.7	88.1	65.9	77.0	101	50	62	62	64	81	49	56	.560	.564	.612	2.09	.66	4.6	2.1	3.8	3.0
September	28.979	29.310	28.660	58.5	72.2	68.8	76.9	56.4	66.6	94	43	53	53	54	82	54	61	.409	.418	.432	1.94	.84	5.0	4.5	4.6	4.9
October	28.997	29.320	28.570	48.8	62.1	58.6	67.0	46.6	56.8	82	34	44	45	45	84	57	64	.297	.321	.321	6.05	1.35	4.6	4.1	4.2	4.8
November	29.088	29.630	28.680	31.9	40.8	37.9	43.8	28.4	36.1	64	10	28	28	28	84	61	68	.155	.157	.162	1.62	.54	5.3	5.9	3.7	5.6
December	29.038	29.520	28.500	26.8	34.9	33.5	39.8	23.4	31.6	59	−4	23	25	26	87	68	75	.137	.146	.154	.18	.08	4.9	4.4	4.1	5.3
Year	28.976	29.630	28.250	45.4	56.4	55.1	61.2	42.5	51.8	101	−10	40	41	42	82	58	63	.308	.316	.327	39.36	2.23	5.0	4.6	4.4	4.9

ST. LOUIS, MO.

[ϕ=38° 38′ N.; λ=90° 12′ W.]

January	29.490	29.920	28.750	23.2	29.8	29.2	37.5	17.7	27.6	61	3	18	20	21	80	66	70	0.111	0.126	0.121	2.11	0.70	5.5	5.5	4.7	5.6
February	29.508	29.990	28.850	22.7	39.9	31.9	36.8	20.7	28.8	58	4	18	19	21	80	62	63	.104	.110	.118	.88	.52	6.3	5.3	4.6	6.1
March	29.320	29.980	28.710	44.0	55.6	53.3	60.6	41.1	50.8	92	22	37	39	39	76	55	61	.239	.265	.266	5.33	1.96	5.4	5.4	4.5	5.3
April	29.293	29.730	28.700	52.3	62.7	61.4	67.0	49.5	58.2	87	36	45	48	47	77	62	62	.311	.355	.338	6.99	3.18	5.2	6.1	5.8	5.5
May	29.441	29.790	28.760	57.3	66.7	65.4	70.7	53.8	62.2	90	32	50	53	53	79	63	68	.398	.440	.437	10.09	3.36	5.0	6.1	6.3	5.9
June	29.355	29.590	29.040	67.7	77.5	77.4	81.6	64.1	72.8	93	47	59	62	62	75	61	60	.514	.568	.557	3.65	1.28	4.5	4.3	3.5	4.4
July	29.426	29.630	29.210	73.4	85.2	83.5	88.3	71.3	79.8	98	58	65	67	67	76	56	59	.628	.677	.674	2.67	1.11	4.6	5.2	4.6	5.0
August	29.424	29.630	29.070	69.4	81.7	80.0	85.4	67.3	76.4	99	57	61	64	63	75	56	58	.547	.616	.591	3.40	2.70	2.8	3.1	3.5	3.4
September	29.439	29.720	29.150	61.6	74.0	71.7	77.4	60.0	68.7	92	46	56	60	57	82	64	62	.470	.546	.490	1.71	.61	4.5	4.7	4.0	4.6
October	29.443	29.740	29.130	52.4	62.3	61.3	66.2	50.7	58.4	81	35	44	46	46	76	60	60	.310	.333	.325	4.99	2.30	4.7	4.9	4.6	4.9
November	29.521	30.000	29.000	36.4	44.6	43.6	48.3	34.7	41.5	69	3	29	32	31	75	62	63	.180	.195	.191	1.41	.65	5.4	4.8	5.2	5.7
December	29.467	30.000	29.060	33.6	39.4	39.7	44.6	30.4	37.5	69	6	27	29	31	78	68	72	.178	.194	.199	3.07	1.26	5.2	5.3	5.3	6.0
Year	29.427	30.000	28.700	49.5	59.2	58.2	63.7	46.8	55.2	99	3	42	45	45	77	61	63	.332	.369	.359	46.30	3.36	4.9	5.1	4.7	5.2

ST. PAUL, MINN.

[ϕ=44° 58′N.; λ=93° 03′ W.]

January	29.177	29.600	28.510	−0.9	4.7	----	9.9	−6.1	1.9	34	−24	−3	1	----	89	83	----	0.037	0.040	----	1.52	0.39	4.9	6.4	----	6.2
February	29.177	29.640	28.560	4.8	12.7	----	17.2	2.1	9.6	34	−24	3	8	----	92	82	----	.054	.065	----	.95	.39	7.0	8.8	----	7.7
March	28.954	29.690	28.320	29.0	36.1	----	41.2	25.2	33.2	58	−3	26	29	----	89	77	----	.150	.171	----	1.29	.45	4.7	6.5	----	6.8
April	28.963	29.380	28.300	40.0	50.7	----	55.6	37.3	46.4	75	21	35	39	----	84	66	----	.214	.249	----	2.43	1.22	5.8	6.5	----	6.9
May	29.128	29.553	28.710	47.4	59.2	----	64.2	44.3	54.2	86	28	38	40	----	71	51	----	.262	.296	----	1.97	.40	4.4	5.4	----	4.9
June	29.023	29.420	28.640	57.8	70.0	----	74.9	53.8	64.4	89	42	52	55	----	81	61	----	.401	.452	----	4.66	2.48	4.8	5.1	----	5.3
July	29.073	29.394	28.640	65.5	78.5	----	82.7	62.4	72.6	96	50	58	62	----	76	58	----	.484	.568	----	3.71	1.23	3.5	3.8	----	3.9
August	29.111	29.420	28.790	62.1	75.7	----	80.4	59.8	70.1	90	49	56	58	----	82	55	----	.459	.490	----	1.37	.43	4.6	3.6	----	4.2
September	29.109	29.500	28.670	52.4	63.1	----	67.1	49.7	58.4	93	32	46	47	----	81	58	----	.328	.337	----	3.36	1.41	6.0	6.0	----	6.3
October	29.134	29.490	28.580	42.2	54.0	----	57.9	40.1	49.0	78	29	38	38	----	84	58	----	.232	.241	----	2.45	.88	6.2	5.2	----	5.6
November	29.130	29.750	28.470	24.9	30.9	----	35.3	21.1	28.2	55	−7	21	22	----	84	71	----	.125	.130	----	.32	.07	6.2	5.9	----	6.1
December	29.118	29.700	28.550	14.6	20.9	----	25.1	11.4	18.2	47	−12	12	16	----	89	80	----	.082	.094	----	.36	.16	6.0	6.9	----	6.7
Year	29.091	29.750	28.300	36.6	46.4	----	51.0	33.4	42.2	96	−24	32	35	----	84	67	----	.236	.262	----	24.39	2.48	5.3	5.7	----	5.9

Annual meteorological summary for the year ending December 31, 1929—Continued

SACRAMENTO, CALIF.

[H_b=69 ft.; h_t=106 ft.; h_r=100 ft.; h_a=117 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles.		*Mi.*																									
January	5.5	SE.	23	NW.	0	9	3	3	23	11	1	0	7	5	4	7	20	5	3	0	0	0	18	0	0	10	0	0
February	7.2	NW.	28	SE.	0	9	2	2	10	8	2	1	18	4	21	4	3	6	6	0	0	0	0	0	0	4	0	0
March	7.1	SE.	27	SE.	0	4	1	2	17	15	8	1	13	1	16	8	7	5	4	0	0	2	0	0	0	0	1	0
April	7.3	S.	23	SW.	0	1	2	0	17	9	16	1	14	0	19	6	5	6	5	0	0	1	0	0	0	0	0	0
May	8.3	S.	31	NW.	0	1	1	2	9	23	10	0	16	0	25	6	0	1	1	0	0	1	0	0	0	0	0	0
June	6.8	S.	20	SW.	0	0	0	1	14	14	14	1	15	1	23	3	4	3	3	0	0	0	0	0	0	13	0	0
July	8.3	S.	20	S.	0	0	1	4	15	31	5	0	4	2	30	1	0	0	0	0	0	0	0	0	0	12	0	0
August	7.4	S.	17	S.	0	1	0	3	16	37	4	0	0	1	31	0	0	0	0	0	0	0	0	0	0	21	0	0
September	5.6	S.	21	SW.	0	2	0	1	11	18	7	3	11	7	29	1	0	0	0	0	0	0	0	0	0	10	0	0
October	5.9	NW.	33	NW.	1	5	1	0	17	8	5	4	14	8	29	2	0	2	1	0	0	0	0	0	0	4	0	2
November	4.5	NW.	24	NW.	0	6	5	1	7	9	2	2	11	17	39	0	0	0	0	0	0	0	0	0	0	0	0	0
December	5.9	SE.	25	NW.	0	8	2	2	25	8	1	2	11	3	8	8	15	8	6	0	0	0	10	0	0	1	0	0
Year	6.6	S.	33	NW.	1	46	18	21	181	191	75	15	134	49	265	48	54	36	29	0	0	4	28	0	60	15	3	0

ST. JOSEPH, MO.

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

January	8.6	NW.	37	NW.	2	5	9	10	10	4	7	2	15	0	11	6	14	9	6	13	7	0	2	20	0	31	0	0
February	7.1	NW.	24	NW.	0	9	6	4	11	4	11	2	9	0	10	7	11	13	8	18	12	0	0	15	0	27	0	0
March	8.4	SW.	34	NW.	1	8	7	1	4	19	11	1	11	0	14	7	10	7	6	4	0	0	0	0	0	10	3	0
April	9.7	NE.	36	SW.	2	3	11	6	7	14	6	4	9	0	12	6	12	14	11	0	0	0	0	0	0	1	8	0
May	7.4	SE.	34	NW.	1	2	15	8	14	10	5	3	7	0	5	12	14	12	10	0	0	0	0	0	0	0	8	0
June	6.9	SE.	35	NW.	2	6	7	5	10	10	9	5	8	0	17	8	5	12	9	0	0	0	1	0	6	0	12	0
July	5.9	S.	29	W.	0	4	11	6	11	18	7	1	4	0	17	8	6	9	9	0	0	0	0	0	13	0	8	0
August	6.2	SE.	28	NW.	0	5	9	9	18	7	6	4	4	0	20	8	3	10	6	0	0	0	0	0	11	0	9	0
September	6.4	SE.	22	NW.	0	6	9	6	20	7	4	0	8	0	9	13	8	10	7	0	0	0	0	0	2	0	5	0
October	6.8	SE.	25	NW.	0	5	15	4	13	5	9	5	6	0	15	6	10	11	11	0	0	0	1	0	0	0	5	0
November	7.4	NW.	35	NW.	1	5	11	4	4	8	10	1	17	0	10	7	13	6	5	7	1	0	0	3	0	16	0	0
December	7.0	NW.	28	NW.	0	4	5	1	5	8	12	10	17	0	13	7	11	7	1	4	2	0	5	7	0	19	0	0
Year	7.3	SE.	37	NW.	9	62	113	64	127	114	97	38	115	0	153	95	117	120	89	46	22	0	9	45	32	104	58	0

ST. LOUIS, MO.

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

January	12.3	NW.	41	SW.	3	7	4	10	7	8	8	7	11	0	12	6	13	12	8	13	5	0	5	8	0	30	0	0
February	9.1	NW.	33	SW.	1	8	5	8	2	8	7	7	11	0	8	8	12	10	4	14	9	0	1	11	0	23	0	0
March	13.4	S.	40	NW.	5	7	4	6	2	18	13	9	3	0	12	8	11	11	9	1	0	1	1	0	1	7	3	0
April	13.9	SW.	44	W.	9	2	6	13	3	8	15	7	6	0	10	10	10	15	10	0	0	2	0	0	0	0	10	0
May	10.7	S.	38	N.	4	5	10	10	3	13	10	4	7	0	9	10	12	15	14	1	1	0	0	0	1	1	8	0
June	9.7	S.	32	SW.	0	8	8	6	2	16	12	6	2	0	15	7	8	10	7	0	0	0	0	0	4	0	6	0
July	8.8	SW.	32	SW.	0	9	5	11	2	10	18	5	1	1	11	14	6	13	9	0	0	0	0	0	15	0	8	0
August	8.5	S.	33	SW.	1	6	8	10	8	10	12	5	2	1	18	9	4	7	5	0	0	1	0	0	7	0	7	0
September	8.6	S.	32	N.	0	4	9	13	5	16	5	5	3	0	12	9	9	11	8	0	0	0	1	0	3	0	3	0
October	10.3	E.	25	N.	0	10	1	11	8	8	7	10	6	1	14	4	13	11	9	1	0	0	1	0	0	0	9	0
November	9.7	NW.	37	NW.	1	6	10	1	3	5	12	8	15	0	9	9	12	5	5	4	1	0	1	3	0	9	0	0
December	11.3	SW.	41	SW.	2	4	5	3	1	12	13	13	11	0	10	6	15	11	8	6	5	0	7	7	0	16	1	0
Year	10.5	SW.	44	W.	26	76	75	102	46	132	132	80	78	3	140	100	125	131	96	40	21	4	17	29	31	86	46	0

ST. PAUL, MINN.

[H_b=837 ft.; h_t=236 ft.; h_r=228 ft.; h_a=261 ft.]

January	9.7	W.	40	W.	2	1	1	5	3	1	6	6	8	0	9	5	17	15	9	22	14	0	2	30	0	31	0	0
February	8.5	SE.	27	NW.	0	1	1	3	7	1	5	5	5	0	2	8	18	12	5	16	12	0	0	27	0	28	0	0
March	11.0	NW.	40	NW.	4	1	0	2	8	2	7	4	7	0	4	11	16	8	6	8	3	0	6	3	0	23	1	1
April	11.2	SE.	41	SW.	3	4	3	2	10	2	3	3	3	0	6	6	18	13	9	5	4	0	2	0	0	7	4	0
April	11.5	SE.	34	SW.	1	2	0	2	8	3	2	9	3	2	12	10	9	9	8	1	1	1	0	0	0	6	6	0
May	10.0	SW.	44	W.	3	1	1	4	7	3	8	3	3	0	9	13	8	10	8	0	0	2	0	0	0	0	6	0
June	10.0	SW.	35	N.	2	0	2	5	7	0	8	5	4	0	14	13	4	8	6	0	0	1	0	0	5	0	5	0
July	8.5	SE.	33	W.	1	0	3	0	13	4	2	1	7	1	14	13	4	7	5	0	0	1	1	0	1	0	4	0
August	10.4	SE.	35	SW.	1	4	3	6	6	4	5	2	6	0	7	10	13	9	6	0	0	0	1	0	2	0	2	0
September	11.1	SE.	42	N.	5	1	2	4	7	3	3	7	4	0	12	5	14	8	7	3	2	0	0	0	0	5	1	0
October	11.3	SW.	35	S.	2	2	0	1	2	3	9	5	8	0	6	12	12	9	5	13	7	0	0	8	0	24	0	0
November	10.2	W.	38	SW.	1	1	2	2	9	4	3	3	7	0	7	11	13	7	2	11	5	0	0	23	0	31	0	0
December																												
Year	10.3	SE.	44	W.	25	18	18	30	87	30	61	53	65	3	102	117	146	115	76	79	48	5	12	91	8	155	29	1

Annual meteorological summary for the year ending December 31, 1929—Continued

SALT LAKE CITY, UTAH

[ϕ=40° 46′ N.; λ=111° 54′ W.]

Month	Pressure			Temperature							Moisture												
		Extremes		Mean					Extremes		Dew point			Relative humidity		Vapor pressure		Precipitation		Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	25.592	26.060	25.060	23.4	29.4	28.6	32.9	19.8	26.4	44	−1	19	21	22	83	70	74	0.103	0.114	0.115	1.53	0.49	6.3	7.0	6.7	7.1
February	25.611	26.070	25.270	23.9	30.5	30.6	34.0	20.6	27.3	50	3	17	19	20	74	61	62	.101	.110	.110	1.34	.33	5.4	5.8	5.8	6.0
March	25.558	25.940	24.940	35.3	43.8	44.9	48.1	32.5	40.3	63	23	27	28	28	70	57	54	.145	.156	.155	1.96	.64	5.6	5.9	6.3	6.4
April	25.502	25.800	25.090	40.7	49.1	51.7	55.2	37.7	46.4	71	22	30	29	29	67	51	46	.168	.195	.159	5.97	1.02	7.3	6.4	6.3	6.7
May	25.569	25.900	25.270	49.8	63.7	66.5	68.7	47.6	58.2	86	34	32	31	31	52	31	27	.184	.177	.174	.18	.13	4.1	4.7	5.8	4.7
June	25.568	25.860	25.100	58.3	74.0	76.1	79.3	55.6	67.4	99	40	37	35	36	48	26	26	.228	.208	.216	.70	.69	3.6	3.3	3.2	3.4
July	25.624	25.800	25.469	69.0	85.8	85.3	89.4	67.5	78.4	98	55	52	52	51	54	32	32	.390	.403	.378	.40	.13	3.5	3.0	4.3	3.8
August	25.674	25.810	25.520	67.7	84.8	85.2	88.4	65.6	77.0	98	61	52	53	53	58	35	35	.390	.408	.407	.41	.28	3.3	2.3	4.3	3.2
September	25.584	25.790	25.390	55.2	67.6	68.6	71.9	51.6	61.8	88	43	42	45	45	64	48	45	.270	.310	.303	2.45	.87	4.1	3.6	4.1	3.9
October	25.692	25.970	25.149	48.3	61.6	60.8	65.2	44.5	54.8	81	32	34	38	39	59	42	46	.208	.239	.247	.98	.53	2.8	3.3	4.6	3.6
November	25.798	26.080	25.410	33.6	43.9	42.4	46.9	29.8	38.4	60	20	22	23	25	62	43	40	.120	.125	.138	.12	.09	2.5	3.9	3.4	3.4
December	25.732	26.030	25.420	35.3	43.2	41.4	45.6	31.2	38.4	62	17	23	24	25	61	48	53	.121	.125	.131	.43	.30	4.3	5.9	4.9	5.0
Year	25.625	26.080	24.940	45.0	56.4	56.8	60.5	42.0	51.2	99	−1	32	33	34	63	45	46	.203	.211	.211	14.47	1.02	4.4	4.6	5.0	4.8

SAN ANTONIO, TEX.

[ϕ=29° 27′ N.; λ=98° 28′ W.]

January	29.321	29.780	28.890	47.6	58.0	58.2	63.9	43.7	53.8	83	28	42	42	42	81	59	59	0.290	0.303	0.295	2.21	1.67	5.5	6.8	4.7	5.7
February	29.289	29.840	28.881	42.6	52.9	55.3	60.9	39.0	50.0	78	22	38	38	37	82	61	55	.245	.246	.242	.16	.07	6.4	5.6	5.7	5.9
March	29.183	29.560	28.760	57.4	69.2	71.8	76.0	55.7	65.8	94	38	51	50	49	81	54	49	.407	.383	.377	3.12	1.38	6.6	4.8	4.1	5.1
April	29.166	29.480	28.883	64.6	76.9	77.2	81.9	63.6	72.8	94	56	59	59	60	83	57	60	.524	.531	.552	2.37	1.53	7.1	6.8	5.9	6.5
May	29.213	29.500	28.850	66.7	80.0	79.0	84.9	64.5	74.7	99	48	62	61	62	85	56	60	.577	.564	.589	7.73	2.06	6.4	5.9	5.0	5.0
June	29.190	29.390	28.740	73.7	86.4	87.6	91.1	72.3	81.7	96	70	69	68	68	87	54	53	.719	.679	.682	2.19	2.12	4.9	4.0	2.5	3.7
July	29.271	29.440	29.100	74.3	86.1	85.0	90.6	73.2	81.9	95	68	71	68	68	91	57	60	.766	.695	.695	2.58	1.04	5.8	4.9	4.4	4.9
August	29.245	29.380	29.070	74.5	90.9	92.2	95.8	74.4	85.1	99	70	69	65	64	83	43	40	.705	.614	.606	.01	.01	4.0	3.9	2.1	3.1
September	29.209	29.410	28.984	70.3	86.2	85.7	90.8	69.8	80.3	97	61	65	63	62	84	47	47	.634	.584	.576	2.02	1.15	3.5	4.5	2.5	3.6
October	29.280	29.640	28.820	62.7	77.5	77.0	82.4	61.5	72.0	97	47	57	55	56	83	48	51	.483	.453	.470	1.60	.85	4.7	4.3	3.8	4.5
November	29.386	29.780	29.050	48.1	59.4	57.9	64.6	45.3	55.0	84	31	40	43	44	74	57	62	.270	.300	.309	3.17	1.53	5.8	5.5	5.2	6.1
December	29.433	29.840	29.040	46.0	59.8	59.4	64.9	44.3	54.6	80	21	39	42	44	77	54	58	.290	.317	.332	2.08	1.65	3.7	4.9	2.9	4.7
Year	29.266	29.840	28.740	60.7	73.6	73.9	79.0	58.9	69.0	99	21	55	54	55	83	54	54	.493	.472	.477	29.24	2.12	5.4	5.1	4.1	4.9

SAN DIEGO, CALIF.

[ϕ=32° 43′ N.; λ=117° 10′ W.]

January	29.938	30.130	29.570	49.7	60.0	57.1	61.5	47.2	54.4	70	39	40	43	47	73	56	70	0.257	0.284	0.324	0.90	0.36	4.8	4.6	5.6	4.9
February	29.970	30.160	29.668	47.4	58.4	57.3	60.8	45.5	53.2	72	38	42	47	48	82	67	72	.272	.326	.338	1.14	.53	3.0	4.3	3.9	4.1
March	29.942	30.150	29.690	50.5	60.0	58.6	62.4	48.8	55.6	75	42	45	48	48	83	65	70	.305	.336	.342	1.22	.69	4.8	4.1	4.7	4.7
April	29.926	30.060	29.787	53.3	60.8	59.6	63.1	51.9	57.5	75	41	48	49	49	83	66	70	.340	.356	.357	.57	.25	7.6	3.6	4.6	5.3
May	29.853	30.040	29.507	57.8	66.4	65.0	68.8	56.6	62.7	87	52	51	54	53	80	65	68	.383	.413	.408	.05	.05	7.0	1.9	3.6	3.8
June	29.817	29.990	29.660	60.6	68.8	67.9	71.0	59.4	65.2	86	54	56	57	58	84	68	71	.446	.476	.483	T.	T.	7.3	2.5	2.6	3.6
July	29.827	29.940	29.701	65.8	71.6	71.0	74.0	64.9	69.4	83	61	62	62	62	87	73	73	.550	.560	.554	0	0	9.0	3.1	3.5	5.0
August	29.804	29.940	29.663	67.3	74.9	74.2	77.4	66.7	72.0	83	62	64	65	64	89	71	70	.595	.609	.592	0	0	6.5	2.2	2.6	3.6
September	29.756	29.900	29.500	65.0	71.1	69.0	73.2	63.1	68.2	95	57	60	61	61	86	71	76	.520	.539	.530	.26	.22	8.9	3.1	4.2	5.2
October	29.832	29.930	29.570	61.4	71.2	68.5	73.5	59.9	66.7	88	49	53	53	56	76	57	68	.425	.425	.461	0	0	4.7	3.9	3.9	3.8
November	29.930	30.170	29.812	54.6	70.4	66.0	72.7	51.5	62.1	87	45	37	46	48	55	45	57	.231	.329	.350	T.	T.	1.3	.6	1.6	1.2
December	29.950	30.200	29.669	54.7	66.9	62.9	68.6	52.0	60.3	78	46	44	44	50	70	52	68	.300	.322	.379	0	0	4.1	3.7	4.6	4.4
Year	29.879	30.200	29.500	57.3	66.7	64.8	68.9	55.6	62.3	95	38	50	52	54	79	63	69	.385	.414	.427	4.14	.69	5.8	3.1	3.8	4.1

SANDUSKY, OHIO

[ϕ=41° 25′ N.; λ=82° 40′ W.]

January	29.378	29.930	28.440	21.3	25.4	----	32.2	15.5	23.8	58	−3	17	18	---	83	68	---	0.103	0.105	----	4.00	1.47	6.5	7.7	----	6.7
February	29.419	29.890	28.900	20.8	28.1	----	31.9	16.5	24.2	58	−7	17	20	---	84	70	---	.103	.113	----	1.79	.66	8.0	7.2	----	7.4
March	29.259	29.890	28.340	38.9	47.0	----	53.3	34.5	43.9	78	14	32	34	---	78	62	---	.203	.214	----	3.01	.59	7.5	6.7	----	6.8
April	29.226	29.661	28.540	48.9	55.0	----	60.5	43.5	52.0	85	28	41	41	---	76	63	---	.277	.279	----	5.76	2.21	6.0	7.6	----	6.9
May	29.389	29.980	28.360	54.9	61.8	----	66.0	48.0	57.0	89	35	46	46	---	72	59	---	.334	.347	----	4.43	1.31	5.3	5.9	----	6.0
June	29.304	29.510	28.910	64.9	73.2	----	76.6	57.6	67.1	91	44	56	56	---	75	57	---	.475	.478	----	4.12	1.98	5.2	6.2	----	5.3
July	29.373	29.670	29.070	71.6	80.3	----	83.5	64.0	73.8	94	51	61	62	---	69	54	---	.547	.566	----	4.15	1.87	4.4	4.2	----	5.2
August	29.369	29.670	28.950	66.5	75.3	----	78.2	60.1	69.2	90	51	56	58	---	71	56	---	.467	.494	----	1.58	.90	5.8	5.5	----	5.3
September	29.417	29.740	29.080	61.3	71.4	----	74.3	56.8	65.6	94	42	54	54	---	76	57	---	.433	.440	----	2.53	1.23	5.2	5.7	----	5.6
October	29.357	29.940	28.500	49.2	57.7	----	60.5	45.2	52.8	75	34	42	42	---	77	60	---	.277	.286	----	5.00	2.73	6.1	5.9	----	6.1
November	29.380	29.870	28.640	35.2	42.0	----	44.2	32.4	38.3	68	3	31	32	---	84	69	---	.190	.201	----	2.74	.76	6.8	7.6	----	6.8
December	29.355	29.840	28.810	28.2	31.5	----	35.2	24.9	30.0	59	7	25	26	---	86	78	---	.141	.146	----	3.82	1.50	8.6	8.9	----	8.5
Year	29.352	29.940	28.340	46.8	54.1	----	58.0	41.6	49.8	94	−7	40	41	---	78	63	---	.296	.306	----	42.93	2.73	6.3	6.6	----	6.3

Annual meteorological summary for the year ending December 31, 1929—Continued

SALT LAKE CITY, UTAH

[H_b=4,360 ft.; h_t=163 ft.; h_r=156 ft.; h_a=203 ft.]

Month	Wind: By self-register: Average hourly velocity	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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	32° Minimum temperature or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	5.4	NW.	26	S.	0	1	0	2	5	18	4	10	22	6	5	9	17	14	9	16	14	0	2	13	0	30	0	0
February	5.7	NW.	30	NE.	0	6	5	8	3	10	4	7	13	0	9	5	14	10	7	11	8	0	0	10	0	25	0	0
March	6.2	NW.	34	NW.	1	5	4	6	9	13	6	5	14	0	9	7	15	11	8	9	8	1	0	1	0	17	2	0
April	7.2	S.	33	NW.	1	1	3	6	14	17	2	6	11	0	6	9	15	12	10	6	5	1	0	0	0	8	3	0
May	6.9	NW.	27	E.	0	7	5	3	7	11	2	3	24	0	13	9	9	2	2	2	1	0	0	0	0	0	2	0
June	7.1	S.	39	W.	2	10	1	8	11	9	1	6	14	0	17	6	7	2	1	0	0	0	0	0	4	0	3	0
July	6.8	S.	38	W.	2	4	4	7	11	16	2	4	14	0	13	17	1	6	4	0	0	1	0	0	16	0	6	0
August	6.1	S.	35	NE.	1	2	3	6	14	17	1	2	15	2	20	9	2	8	1	0	0	0	0	0	10	0	13	0
September	6.4	NW.	30	W.	0	6	7	9	11	9	0	5	13	0	17	5	8	8	7	0	0	0	0	0	0	0	7	0
October	6.0	SE.	39	NW.	3	1	5	6	17	8	1	6	16	2	16	11	4	5	4	2	2	1	0	0	0	2	2	0
November	4.6	NW.	32	NW.	0	8	3	3	9	6	0	5	24	2	17	9	4	2	1	4	1	0	0	0	17	0	0	0
December	5.6	S.	32	S.	0	2	1	4	13	17	4	5	16	0	19	13	8	4	2	7	4	0	0	0	0	20	0	0
Year	6.2	NW.	39	W.	10	53	41	68	124	151	27	64	196	6	152	109	104	84	56	57	43	4	2	24	30	119	38	0

SAN ANTONIO, TEX.

[H_b=693 ft.; h_t=119 ft.; h_r=112 ft.; h_a=132 ft.]

January	6.3	NE.	32	NW.	0	12	19	3	8	8	3	0	9	0	12	7	12	8	3	0	0	0	4	0	0	4	1	0
February	7.4	NE.	24	N.	0	10	20	2	5	10	2	0	7	0	10	8	10	5	2	0	0	0	2	0	0	6	0	0
March	6.1	NE.	27	NW.	0	6	16	9	13	8	3	0	7	0	9	14	8	11	9	0	0	0	1	0	2	0	3	0
April	7.4	SE.	30	NW.	0	8	12	5	22	10	1	0	2	0	5	12	13	8	6	0	0	1	0	0	2	0	5	0
May	7.6	SE.	38	NW.	1	5	13	7	26	6	1	0	4	0	6	15	10	14	12	0	0	1	0	0	5	0	9	0
June	6.5	SE.	42	NW.	1	2	6	5	24	16	4	0	3	0	12	17	1	4	2	0	0	0	0	0	20	0	1	0
July	5.8	SE.	26	S.	0	2	7	13	31	5	2	0	2	0	11	12	8	10	7	0	0	0	0	0	20	0	6	0
August	5.3	SE.	17	SE.	0	5	13	9	26	5	2	0	2	0	18	13	0	1	0	0	0	0	0	0	31	0	1	0
September	5.8	NE.	17	SE.	0	12	19	9	16	2	0	0	2	0	16	10	4	3	3	0	0	0	0	0	15	0	1	0
October	5.2	NE.	24	NW.	0	11	16	8	12	3	5	0	7	0	14	9	8	7	7	0	0	0	1	0	6	0	5	0
November	6.4	NE.	25	NE.	0	18	17	2	6	1	7	0	8	1	10	6	14	9	8	0	0	0	1	0	0	1	1	0
December	5.7	SW.	30	NW.	0	10	6	1	14	9	7	2	13	0	13	8	10	8	5	2	2	0	3	1	0	8	1	0
Year	6.3	SE.	42	NW.	2	101	164	73	203	83	37	2	66	1	136	131	98	88	64	2	2	2	12	1	101	19	34	0

SAN DIEGO, CALIF.

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

January	4.8	E.	22	W.	0	3	5	12	5	5	11	8	12	1	11	12	8	6	6	0	0	0	1	0	0	0	0	0
February	5.4	E.	25	S.	0	3	7	9	0	2	6	10	12	1	15	5	8	6	5	0	0	0	0	0	0	0	0	0
March	6.2	W.	24	W.	0	4	3	10	3	4	9	15	13	1	13	10	8	9	8	0	0	1	2	0	0	0	2	0
April	6.4	W.	26	S.	0	0	4	7	5	9	9	16	10	0	8	14	8	4	4	0	0	0	0	0	0	0	0	0
May	6.1	W.	18	NW.	0	1	4	6	4	7	13	12	15	0	16	10	5	2	1	0	0	0	1	0	0	0	0	0
June	5.8	W.	22	S.	0	6	4	2	2	8	7	18	12	1	15	10	5	0	0	0	0	0	0	0	0	0	0	0
July	5.4	W.	20	NW.	0	2	5	1	1	8	17	19	9	0	8	18	5	0	0	0	0	0	0	0	0	0	0	0
August	5.4	NW.	18	W.	0	1	1	0	0	4	11	19	23	3	14	15	2	0	0	0	0	0	0	0	0	0	0	0
September	5.2	NW.	26	SE.	0	6	4	1	2	4	8	16	19	0	11	12	7	3	2	0	0	0	1	0	1	0	0	0
October	4.8	NW.	19	NW.	0	5	7	3	0	6	5	12	21	3	14	12	5	0	0	0	0	0	3	0	0	0	0	0
November	4.0	NW.	23	NE.	0	1	12	7	0	6	4	4	25	1	26	4	0	0	0	0	0	0	5	0	0	0	0	0
December	4.0	NW.	18	NW.	0	12	3	8	1	3	7	2	24	2	12	12	7	0	0	0	0	0	6	0	0	0	0	0
Year	5.3	NW.	26	S.	0	44	59	66	29	66	107	151	195	13	163	134	68	30	26	0	0	1	19	0	1	0	2	0

SANDUSKY, OHIO

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

January	10.3	SW.	32	SW.	0	1	1	3	1	6	9	8	2	0	5	10	16	19	13	20	12	0	1	16	0	30	0	0
February	7.3	SW.	30	SW.	0	1	1	4	3	1	10	5	3	0	3	8	17	11	6	17	9	0	0	14	0	25	0	0
March	9.8	SW.	38	SW.	2	2	3	1	2	5	13	1	4	0	3	13	15	19	15	4	3	1	1	0	0	13	3	0
April	10.3	SW.	40	SW.	2	3	5	1	2	5	10	3	1	0	3	13	14	13	12	1	0	1	0	0	0	2	5	0
May	8.0	SW.	33	NW.	1	3	3	6	1	5	7	5	1	0	4	15	12	16	13	1	0	1	0	0	0	0	0	0
June	6.9	SW.	26	NW.	0	3	7	0	2	6	10	1	1	0	8	14	8	9	9	0	0	0	0	0	2	0	9	0
July	6.6	SW.	22	W.	0	4	1	1	4	4	13	2	1	1	12	15	4	11	9	0	0	0	0	0	5	0	10	0
August	6.2	SW.	22	NW.	0	5	4	0	4	7	8	2	1	0	7	17	7	5	4	0	0	0	0	0	2	0	4	0
September	6.4	S.	21	W.	0	4	2	4	4	10	4	1	0	1	10	10	10	12	10	0	0	0	1	0	5	0	2	0
October	8.9	SW.	30	SW.	0	3	3	4	1	6	9	1	4	0	9	6	16	12	11	2	0	0	0	0	0	0	1	0
November	8.8	SW.	28	NW.	0	2	2	0	3	3	14	5	1	0	8	5	17	12	11	7	3	0	0	4	0	12	0	0
December	9.4	SW.	28	SW.	0	1	2	4	0	6	11	6	1	0	1	7	23	17	11	15	12	0	2	11	0	24	0	0
Year	8.2	SW.	40	SW.	5	32	34	28	27	64	118	40	20	2	73	133	159	150	124	67	39	3	5	45	14	106	41	0

Annual meteorological summary for the year ending December 31, 1929—Continued

SANDY HOOK, N. J.

[ϕ=40° 28′ N.; λ=74° 01′ 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*			
January	30.030	30.670	29.210	29.8	33.7	31.8	37.8	25.6	31.7	60	9	23	24	23	74	67	68	0.132	0.140	0.129	3.80	1.26	5.1	5.8	3.9	5.5
February	30.074	30.440	29.520	28.5	33.9	33.5	37.8	27.0	32.4	52	17	24	25	26	81	69	74	.132	.140	.146	3.72	1.51	4.4	4.2	5.1	4.9
March	29.925	30.450	28.940	40.0	46.6	42.9	51.1	35.9	43.5	74	14	34	35	35	78	64	74	.207	.214	.214	2.38	1.00	4.3	5.4	3.6	5.3
April	29.877	30.410	29.000	46.4	52.0	49.2	56.0	42.7	49.4	85	36	40	40	42	79	68	78	.255	.262	.274	5.08	1.40	6.0	6.9	5.8	6.7
May	30.045	30.530	28.980	57.4	64.0	58.8	67.4	51.9	59.6	91	43	50	51	50	76	64	75	.378	.394	.383	4.86	2.40	5.1	5.6	5.5	5.9
June	29.917	30.120	29.530	66.6	73.8	68.2	77.2	62.1	69.6	92	48	58	59	61	76	61	77	.510	.516	.546	2.34	1.03	4.4	4.7	5.6	4.8
July	29.998	30.380	29.580	70.8	78.3	72.6	80.5	66.1	73.3	92	58	62	63	63	75	60	74	.575	.590	.594	1.90	.79	4.8	4.3	4.7	4.8
August	29.954	30.310	29.490	67.7	74.9	70.8	77.8	64.5	71.2	86	59	59	59	62	75	60	74	.516	.518	.563	.88	.30	4.3	4.4	5.2	4.9
September	30.071	30.480	29.730	64.3	71.8	67.6	74.8	61.4	68.1	93	49	58	58	59	82	65	76	.508	.511	.532	4.89	1.98	5.2	4.9	4.3	5.3
October	30.020	30.700	29.380	50.8	57.1	54.3	60.4	47.9	54.2	72	37	42	43	44	73	61	70	.282	.295	.306	4.72	1.89	4.3	4.9	3.9	5.2
November	30.034	30.500	29.200	43.5	48.3	46.2	50.7	41.0	45.8	72	14	37	38	37	79	67	70	.245	.252	.241	2.06	.77	5.7	6.3	4.7	6.4
December	30.041	30.660	29.460	32.1	35.6	35.6	40.1	29.8	35.0	54	17	27	29	29	81	76	76	.156	.166	.169	3.19	.92	6.1	6.0	4.8	6.7
Year	29.999	30.700	28.940	49.8	55.8	52.6	59.3	46.3	52.8	93	9	43	44	44	77	65	74	.325	.333	.341	39.84	2.40	5.0	5.3	4.8	5.5

SAN FRANCISCO, CALIF.

[ϕ=37° 48′ N.; λ=122° 26′ 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*			
January	29.911	30.200	29.490	44.6	49.1	50.7	52.7	42.2	47.4	59	36	41	41	41	88	76	71	0.259	0.260	0.261	1.32	0.71	5.5	5.5	3.7	5.6
February	29.942	30.180	29.580	47.0	53.9	55.0	58.7	44.9	51.8	72	35	38	40	39	74	60	58	.243	.252	.249	2.14	1.14	4.2	3.0	3.0	3.6
March	29.908	30.240	29.510	49.5	58.1	57.1	60.8	47.6	54.2	81	43	43	45	43	79	65	62	.278	.309	.284	1.56	.82	4.5	6.0	4.3	4.8
April	29.885	30.110	29.630	48.9	57.4	55.4	59.3	47.4	53.4	71	40	44	46	45	84	66	69	.293	.315	.304	1.01	.62	5.6	5.2	4.7	5.4
May	29.830	30.020	29.620	51.4	61.4	57.7	63.2	49.8	56.5	81	47	47	50	48	85	67	72	.320	.360	.339	.01	.01	5.6	4.5	4.5	5.0
June	29.781	30.050	29.540	56.1	68.3	65.6	71.0	54.9	63.0	95	50	52	53	52	86	62	64	.382	.409	.389	.86	.52	4.8	3.4	2.6	3.5
July	29.795	29.990	29.550	56.3	65.0	64.2	68.2	54.8	61.5	85	52	53	54	54	88	72	71	.397	.425	.420	T.	T.	7.2	3.4	3.1	4.0
August	29.791	29.910	29.610	56.0	65.0	62.2	67.2	55.0	61.1	77	52	54	55	54	92	70	76	.411	.431	.421	0	0	7.2	2.2	2.6	4.1
September	29.708	29.880	29.570	56.0	65.9	62.8	68.2	54.6	61.4	79	51	53	54	53	85	66	72	.400	.413	.407	T.	T.	5.9	1.6	3.0	3.6
October	29.825	29.970	29.667	57.1	67.7	66.1	71.8	55.2	63.5	90	50	51	51	49	81	58	59	.375	.379	.358	.01	.01	3.9	2.7	2.0	3.4
November	29.930	30.260	29.770	52.9	63.2	64.1	68.8	50.6	59.7	82	46	43	39	39	70	44	43	.277	.245	.246	0	0	1.0	1.4	1.3	1.4
December	29.950	30.170	29.670	51.2	55.7	56.7	58.7	49.8	54.2	74	39	48	49	50	91	79	80	.348	.356	.371	3.09	1.29	6.6	5.9	6.7	6.4
Year	29.855	30.260	29.490	52.2	60.9	59.8	64.0	50.6	57.3	95	35	47	48	47	84	65	66	.332	.346	.337	10.00	1.29	5.2	3.7	3.5	4.3

SAN JOSE, CALIF.

[ϕ=37° 20′ N.; λ=121° 54′ 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*			
January	29.929	30.220	29.490	----	50.8	52.2	55.5	35.8	45.6	65	28	---	40	40	---	68	65	----	0.251	0.252	0.86	0.39	----	5.1	3.7	5.3
February	29.958	30.210	29.600	----	55.7	58.0	60.6	36.9	48.8	72	26	---	37	37	---	52	49	----	.233	.233	.61	.37	----	2.6	2.5	3.0
March	29.924	30.256	29.530	----	60.2	60.5	64.8	42.0	53.4	83	33	---	42	43	---	54	55	----	.271	.287	1.31	1.09	----	3.9	4.2	4.3
April	29.916	30.150	29.660	----	61.6	60.5	65.1	42.3	53.7	75	32	---	42	43	---	51	53	----	.277	.282	.92	.64	----	3.8	4.4	4.7
May	29.845	30.050	29.580	----	68.5	68.1	73.3	47.0	60.2	91	40	---	48	48	---	49	50	----	.334	.336	.11	.11	----	2.4	1.9	3.0
June	29.803	30.055	29.582	----	76.0	75.2	79.7	51.9	65.8	101	40	---	50	52	---	43	48	----	.362	.390	1.45	.88	----	2.3	2.3	2.8
July	29.830	30.018	29.570	----	77.0	75.6	80.1	53.7	66.9	97	47	---	54	55	---	47	50	----	.425	.436	0	0	----	.7	.3	1.5
August	29.821	29.960	29.620	----	76.0	75.9	80.5	53.9	67.2	94	47	---	56	56	---	52	52	----	.458	.461	0	0	----	.6	.7	1.9
September	29.733	29.920	29.590	----	73.8	73.2	79.1	51.4	65.2	93	42	---	53	56	---	49	55	----	.410	.448	0	0	----	1.0	.5	1.8
October	29.843	29.980	29.676	----	71.3	71.3	76.3	48.3	62.3	90	39	---	46	48	---	44	48	----	.329	.354	T.	T.	----	1.2	1.3	2.2
November	29.949	30.270	29.739	----	65.2	64.6	70.0	38.2	54.1	84	33	---	29	32	---	29	32	----	.167	.186	0	0	----	1.2	.9	1.1
December	29.983	30.200	29.750	----	58.7	58.3	62.0	44.1	53.0	72	30	---	46	47	---	65	68	----	.320	.331	.78	.28	----	5.5	5.8	6.3
Year	29.878	30.270	29.490	----	66.2	66.1	70.6	45.5	58.0	101	26	---	45	46	---	50	52	----	.320	.333	6.04	1.09	----	2.5	2.4	3.2

SAN JUAN, P. R.

[ϕ=18° 29′ N.; λ=66° 07′ 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*			
January	29.939	30.060	29.730	75.0	78.7	----	80.3	69.7	75.0	85	66	68	69	---	79	72	---	0.686	0.703	----	3.60	0.53	5.2	4.2	----	4.8
February	29.929	30.080	29.770	74.5	79.3	----	80.6	69.3	75.0	85	66	67	68	---	78	69	---	.670	.691	----	1.30	.29	4.1	3.4	----	4.4
March	29.936	30.056	29.800	75.8	78.7	----	80.0	70.5	75.2	83	67	68	69	---	78	73	---	.692	.715	----	2.47	.62	4.9	4.4	----	5.0
April	29.924	30.110	29.750	77.9	80.2	----	81.7	70.8	76.2	89	66	67	68	---	70	67	---	.668	.686	----	1.34	.44	3.4	4.1	----	4.5
May	29.939	30.050	29.800	78.9	79.6	----	81.2	72.3	76.8	87	67	71	72	---	78	76	---	.765	.772	----	7.97	2.36	6.3	5.5	----	5.7
June	29.931	30.010	29.820	80.9	81.7	----	83.7	74.5	79.1	88	71	74	74	---	78	77	---	.824	.827	----	5.56	2.27	5.4	5.3	----	5.5
July	29.958	30.081	29.850	81.7	83.0	----	84.3	75.9	80.1	89	73	73	74	---	78	74	---	.815	.829	----	1.10	.52	5.2	4.7	----	5.2
August	29.893	29.980	29.810	81.7	82.6	----	84.4	75.1	79.8	88	72	74	75	---	75	74	---	.843	.860	----	7.53	2.46	4.9	4.9	----	5.6
September	29.840	29.950	29.750	80.7	83.2	----	85.1	74.7	79.9	88	69	74	75	---	78	78	---	.832	.869	----	5.84	2.37	5.2	5.7	----	6.1
October	29.826	29.940	29.680	80.8	83.4	----	85.2	74.6	79.9	91	71	74	75	---	80	77	---	.832	.863	----	2.11	.67	4.0	4.4	----	4.7
November	29.852	29.964	29.720	77.8	80.9	----	82.1	73.3	77.7	85	69	71	73	---	81	78	---	.770	.820	----	3.62	1.27	4.9	5.0	----	5.2
December	29.926	30.020	29.780	76.1	79.9	----	80.9	71.4	76.2	86	67	69	71	---	80	74	---	.716	.755	----	2.88	.76	4.3	5.0	----	4.8
Year	29.908	30.110	29.680	78.5	80.9	----	82.5	72.7	77.6	91	66	71	72	---	78	74	---	.759	.782	----	45.32	2.46	4.8	4.7	----	5.1

Annual meteorological summary for the year ending December 31, 1929—Continued

SANDY HOOK, N. J.

[H_b=22 ft.; h_t=10 ft.; h_r=3 ft.; h_a=55 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	17.4	NW.	50	SW.	18	3	3	2	1	6	12	15	20	0	8	10	13	10	8	8	2	0	3	7	0	26	0	1
February	13.8	NW.	38	NE.	4	3	12	3	3	8	7	4	16	0	9	10	9	7	7	4	2	0	4	5	0	20	0	0
March	14.4	NW.	51	W.	10	2	1	3	4	14	11	11	14	2	9	12	10	15	10	5	3	0	9	0	0	7	0	2
April	16.3	NE.	60	NE.	10	2	13	5	3	11	6	10	10	0	6	6	18	18	13	0	0	0	3	0	0	0	4	0
May	12.8	SW.	44	W.	5	2	6	2	6	17	13	7	9	0	8	9	14	15	13	0	0	0	1	0	1	0	10	0
June	10.6	S.	37	W.	3	5	5	4	5	17	6	8	10	0	8	15	7	7	6	0	0	0	0	2	0	8	0	0
July	10.9	SW.	37	S.	3	4	7	1	4	16	15	10	5	0	11	11	9	9	7	0	0	0	1	0	1	0	7	0
August	11.1	S.	38	NW.	2	5	12	1	4	15	11	4	10	0	11	11	9	8	7	0	0	0	3	0	0	0	6	0
September	11.7	SW.	34	N.	1	3	12	5	5	9	13	8	5	0	12	7	11	10	8	0	0	0	4	0	3	0	5	0
October	15.3	SW.	48	NE.	8	6	9	3	3	10	15	7	9	0	11	10	10	7	7	0	0	0	1	0	0	0	1	0
November	14.3	SW.	42	SW.	5	4	7	4	3	6	13	13	10	0	7	9	14	11	10	3	0	0	5	2	0	5	0	0
December	12.9	W.	44	NE.	4	4	13	2	2	3	7	25	6	0	6	9	16	9	7	6	2	0	8	7	0	17	1	0
Year	13.5	SW.	60	NE.	73	43	100	35	43	132	129	122	124	2	106	119	140	126	103	26	9	0	42	21	7	75	42	3

SAN FRANCISCO, CALIF.

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

January	5.6	NW.	19	W.	0	12	8	0	8	3	1	15	14	1	11	7	13	6	4	0	0	1	5	0	0	0	0	0
February	7.2	W.	34	W.	2	7	6	3	6	3	4	20	7	0	14	8	6	5	4	0	0	0	2	0	0	0	0	0
March	7.6	W.	34	W.	1	3	1	1	7	5	1	31	13	0	12	10	9	7	5	0	0	0	0	0	0	0	0	0
April	8.4	W.	36	NW.	1	3	1	1	4	2	6	35	8	0	9	15	6	8	4	0	0	0	0	0	0	0	0	0
May	8.2	W.	30	W.	0	1	0	0	0	6	10	43	2	0	12	10	9	1	0	0	0	0	0	0	0	0	0	0
June	7.1	W.	30	W.	0	0	1	1	0	4	15	33	3	3	16	9	5	6	4	0	0	0	0	2	0	0	0	0
July	7.8	W.	29	W.	0	0	0	0	0	4	17	38	1	2	11	13	7	0	0	0	0	0	0	0	0	0	0	0
August	7.9	W.	32	W.	0	0	0	0	0	3	20	39	0	0	13	18	0	0	0	0	0	0	2	0	0	0	0	0
September	5.8	W.	24	W.	0	0	0	0	1	5	18	33	1	2	17	8	5	0	0	0	0	0	0	0	0	0	0	0
October	5.9	W.	38	N.	2	5	2	0	2	5	16	26	1	5	17	11	3	1	0	0	0	0	1	0	0	0	0	0
November	3.9	N.	23	W.	0	13	8	0	4	2	4	18	8	3	26	3	1	0	0	0	0	0	0	0	0	0	0	0
December	5.5	N.	32	S.	0	14	3	2	5	11	5	6	15	1	6	11	14	7	5	0	0	0	3	0	0	0	1	0
Year	6.7	W.	38	N.	6	58	30	8	37	53	117	337	73	17	164	123	78	41	26	0	0	1	13	0	2	0	1	0

SAN JOSE, CALIF.

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

January	3.9	SE.	17	NW.	0	6	1	1	3	1	3	5	11	0	9	10	12	8	4	0	0	0	6	0	0	8	0	0
February	5.7	NW.	26	NW.	0	3	2	0	0	2	1	1	19	0	18	4	6	5	3	0	0	0	1	0	0	7	0	0
March	6.0	NW.	31	W.	0	4	0	0	1	0	3	1	22	0	13	10	8	5	4	0	0	0	0	0	0	0	0	0
April	5.9	NW.	24	SW.	0	4	0	0	2	0	2	3	19	0	10	14	6	6	4	0	0	0	0	0	0	1	0	0
May	5.8	NW.	29	NW.	0	4	0	0	0	0	0	1	26	0	21	6	4	1	1	0	0	0	0	0	1	0	0	0
June	5.3	NW.	18	NW.	0	4	0	1	0	0	3	0	22	0	20	6	4	5	5	0	0	0	0	0	0	0	0	0
July	5.8	NW.	19	NW.	0	2	0	0	0	0	0	0	29	0	25	6	0	0	0	0	0	0	0	0	0	4	0	0
August	5.1	NW.	17	NW.	0	4	0	0	0	0	0	0	27	0	27	4	0	0	0	0	0	0	1	0	0	2	0	0
September	4.9	NW.	24	SW.	0	3	0	0	0	0	1	0	26	0	24	6	0	0	0	0	0	0	0	0	0	2	0	0
October	4.5	NW.	22	NW.	0	7	2	0	0	0	0	1	21	0	21	9	1	0	0	0	0	0	0	0	0	1	0	0
November	3.8	S.	17	NW.	0	15	1	0	1	0	0	1	11	1	25	4	1	0	0	0	0	0	1	0	0	0	0	0
December	4.8	NW.	24	S.	0	3	1	0	4	0	4	3	16	0	7	9	15	6	4	0	0	0	4	0	0	3	0	0
Year	5.1	NW.	31	W.	0	59	7	2	11	3	17	16	249	1	220	88	57	36	25	0	0	0	16	0	18	19	0	0

SAN JUAN, P. R.

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

January	12.8	E.	40	E.	4	0	1	19	6	2	2	1	0	0	10	18	3	25	20	0	0	0	0	0	0	0	0	0
February	11.4	E.	31	E.	0	0	0	14	3	10	1	0	0	0	8	19	1	16	11	0	0	0	0	0	0	0	0	0
March	13.5	E.	36	E.	3	0	1	22	4	3	1	0	0	0	8	19	4	20	13	0	0	0	0	0	0	0	0	0
April	12.4	E.	32	E.	0	0	1	17	5	5	2	0	0	0	9	20	1	15	9	0	0	0	0	0	0	0	4	0
May	13.4	E.	28	E.	0	0	0	28	2	1	0	0	0	0	9	14	8	20	15	0	0	0	0	0	0	0	4	0
June	12.1	E.	31	E.	0	1	2	23	2	2	0	0	0	0	6	19	5	19	14	0	0	0	0	0	0	0	4	0
July	15.0	E.	34	E.	1	0	0	28	3	0	0	0	0	0	5	24	2	13	5	0	0	0	0	0	0	0	3	0
August	11.7	E.	30	E.	0	0	0	28	2	0	1	0	0	0	1	27	3	26	21	0	0	0	0	0	0	0	8	0
September	8.0	E.	48	N.	1	0	0	11	3	9	7	0	0	0	1	20	9	22	18	0	0	0	0	0	0	0	17	0
October	8.5	E.	29	E.	0	0	0	11	6	12	2	0	0	0	9	19	3	15	12	0	0	0	0	0	2	0	5	0
November	11.6	E.	33	E.	1	1	3	13	7	1	4	1	0	0	6	20	4	18	14	0	0	0	0	0	0	0	1	0
December	12.5	E.	34	E.	1	0	0	15	10	3	2	1	0	0	3	28	0	22	17	0	0	0	0	0	0	0	0	0
Year	11.9	E.	48	N.	11	2	8	229	53	48	22	3	0	0	75	247	43	231	169	0	0	0	0	0	2	0	42	0

Annual meteorological summary for the year ending December 31, 1929—Continued

SANTA FE, N. MEX.
[ϕ=35° 41′ N.; λ=105° 57′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	23.127	23.430	22.710	21.4	34.1	32.4	39.3	18.5	28.9	51	6	12	15	14	65	43	46	0.072	0.085	0.083	0.27	0.12	3.3	4.4	4.9	4.3
February	23.087	23.450	22.780	20.7	32.9	32.4	37.2	17.1	27.2	49	−3	12	14	15	68	45	48	.074	.082	.083	.97	.40	3.9	4.6	4.4	4.5
March	23.122	23.420	22.770	29.2	42.9	45.2	48.9	26.8	37.8	67	−1	20	20	19	68	40	37	.107	.106	.102	.59	.29	5.4	5.4	4.8	5.3
April	23.143	23.400	22.880	36.8	54.4	55.4	59.2	35.0	47.1	71	23	18	16	15	45	22	21	.099	.093	.088	.15	.08	3.3	4.6	5.8	4.6
May	23.239	23.470	22.848	45.6	61.2	61.1	66.4	42.1	54.2	78	23	32	32	33	62	38	42	.190	.191	.200	5.58	1.44	4.4	5.1	6.1	4.9
June	23.295	23.450	23.067	56.4	74.6	76.8	79.6	52.7	66.2	91	43	35	32	28	46	22	19	.210	.190	.162	.04	.04	2.9	3.1	4.0	3.5
July	23.387	23.540	23.170	60.0	75.7	73.1	79.8	57.9	68.8	88	53	50	49	50	71	42	49	.363	.355	.375	2.50	.74	5.3	5.9	7.8	6.3
August	23.429	23.540	23.300	57.0	73.4	70.1	77.9	55.8	66.8	82	53	51	51	51	81	45	55	.373	.382	.385	3.84	.74	4.4	5.1	7.9	5.8
September	23.320	23.540	23.120	50.4	68.4	66.1	72.0	49.2	60.6	83	43	43	44	44	77	43	47	.284	.296	.289	5.15	2.83	2.7	4.1	4.7	3.9
October	23.312	23.520	22.740	40.3	56.4	52.4	60.8	38.3	49.6	77	21	32	32	34	73	42	53	.189	.186	.202	1.43	.74	3.3	4.2	4.5	4.0
November	23.208	23.550	23.030	24.7	37.8	34.2	42.8	22.3	32.6	58	8	19	22	23	78	53	63	.102	.119	.122	.89	.87	2.4	3.7	2.5	3.1
December	23.284	23.530	22.980	25.1	40.1	33.4	44.7	21.8	33.2	58	1	12	18	17	59	41	50	.074	.095	.091	.11	.11	1.9	2.1	2.8	2.4
Year	23.251	23.550	22.710	39.0	54.3	52.7	59.0	36.5	47.8	91	−3	28	29	29	66	40	44	.178	.182	.182	21.52	2.83	3.6	4.4	5.0	4.4

SAULT STE. MARIE, MICH.
[ϕ=46° 30′ N.; λ=84° 21′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.249	29.840	28.200	5.4	10.1	11.4	17.2	2.0	9.6	33	−25	4	7	9	94	86	90	0.053	0.060	0.066	3.57	0.81	7.8	8.1	7.5	8.4
February	29.381	29.890	28.595	3.7	14.3	12.2	18.5	1.3	9.9	36	−19	2	10	9	94	81	86	.050	.070	.066	.57	.29	7.1	7.4	4.5	6.2
March	29.185	29.770	28.150	24.3	31.1	29.8	35.5	20.7	28.1	55	−11	21	26	24	88	80	80	.125	.145	.136	2.08	.62	7.2	7.3	6.9	6.8
April	29.230	29.630	28.710	35.3	44.5	40.7	48.4	31.7	40.0	71	11	28	31	30	75	61	67	.155	.178	.171	1.53	.52	6.4	6.2	5.5	5.6
May	29.333	29.806	28.596	42.6	50.9	48.4	55.8	37.2	46.5	86	26	36	37	36	80	62	65	.230	.239	.229	3.15	1.37	6.0	6.1	4.4	5.0
June	29.264	29.584	28.692	53.2	63.3	58.7	67.0	47.2	57.1	88	36	46	50	48	79	64	69	.330	.378	.349	3.05	1.00	5.6	5.4	4.2	4.4
July	29.306	29.653	28.787	59.7	71.2	66.0	74.5	52.9	63.7	91	44	54	54	53	83	57	65	.426	.439	.413	2.40	.63	5.4	5.6	4.2	3.5
August	29.323	29.667	28.850	56.6	66.7	62.6	70.7	52.5	61.6	86	45	51	52	52	84	63	70	.384	.406	.402	2.04	1.56	4.9	5.7	4.4	4.6
September	29.373	29.850	28.833	51.4	61.4	56.6	65.3	47.6	56.4	99	33	47	48	47	86	65	73	.337	.352	.341	2.92	.71	6.0	6.3	6.2	6.1
October	29.334	30.015	28.730	40.5	48.0	45.3	51.2	36.5	43.8	68	24	36	38	38	86	70	75	.222	.238	.234	2.52	1.11	6.9	5.6	6.3	6.5
November	29.240	29.815	28.369	28.3	32.6	30.9	37.1	23.6	30.4	61	−12	25	26	26	86	78	83	.145	.150	.152	3.92	.86	8.1	7.4	8.0	7.5
December	29.318	30.010	28.476	15.0	18.6	18.2	23.0	10.5	16.8	36	−8	13	15	16	90	85	90	.082	.090	.093	1.34	.25	9.0	7.8	8.5	8.4
Year	29.295	30.015	28.150	34.7	42.7	40.1	47.0	30.3	38.7	91	−25	30	33	32	85	71	76	.212	.229	.221	29.09	1.56	6.7	6.3	5.9	6.1

SAVANNAH, GA.
[ϕ=32° 05′ N.; λ=81° 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.061	30.420	29.710	48.5	59.5	54.7	64.2	46.1	55.2	79	30	44	48	46	84	67	75	0.312	0.366	0.335	3.96	1.39	4.1	5.5	3.5	4.8
February	30.015	30.370	29.640	47.9	56.9	53.3	60.6	45.3	53.0	78	33	44	47	45	87	72	75	.313	.353	.320	4.38	.98	6.3	7.3	6.6	7.0
March	29.992	30.410	29.430	57.8	68.3	62.8	72.2	54.3	63.2	92	38	52	53	51	81	60	69	.418	.442	.407	2.74	1.48	6.6	5.5	4.7	5.6
April	29.949	30.450	29.300	64.3	74.8	68.3	78.1	60.2	69.2	88	45	58	59	58	80	60	71	.492	.518	.489	1.95	.82	5.2	6.1	4.8	5.7
May	30.049	30.380	29.450	71.0	78.0	72.8	80.2	65.2	72.7	89	50	65	64	63	82	64	73	.634	.615	.593	3.65	1.78	5.4	6.6	4.8	5.5
June	29.931	30.150	29.610	75.2	82.7	76.2	85.5	69.1	77.3	94	58	70	68	69	83	63	80	.727	.694	.713	4.88	2.58	4.8	6.4	6.4	5.9
July	30.021	30.210	29.760	77.3	84.5	78.4	87.3	71.7	79.5	97	62	72	71	70	84	65	77	.786	.755	.748	5.94	1.87	5.0	7.1	6.6	6.5
August	29.937	30.200	29.700	76.3	85.9	78.6	89.0	71.9	80.4	96	68	72	73	72	87	66	81	.784	.809	.788	8.99	2.83	4.9	6.1	6.5	6.8
September	29.953	30.150	29.650	72.7	78.8	74.3	81.9	69.5	75.7	89	54	70	70	70	91	77	87	.746	.754	.738	10.31	2.85	6.7	8.2	7.3	8.0
October	29.973	30.330	29.286	61.9	73.1	67.6	75.7	59.3	67.5	84	46	55	57	58	80	59	72	.460	.489	.496	.95	.89	4.8	4.7	3.2	4.7
November	30.048	30.330	29.670	55.5	65.7	59.7	68.2	52.6	60.4	84	25	52	53	51	88	66	76	.425	.435	.421	1.75	1.31	4.7	5.4	5.1	5.2
December	30.114	30.465	29.520	44.6	55.9	52.3	61.4	41.7	51.6	77	25	39	44	41	81	67	68	.266	.324	.290	4.40	2.67	4.3	4.6	4.1	4.9
Year	30.004	30.465	29.286	62.8	72.0	66.6	75.4	58.9	67.1	97	25	58	59	58	84	66	75	.530	.546	.528	53.90	2.85	5.2	6.1	5.3	5.8

SCRANTON, PA.
[ϕ=41° 24′ N.; λ=75° 42′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.160	29.770	28.437	25.3	29.4	27.4	35.1	19.4	27.2	62	1	19	19	17	76	64	64	0.112	0.108	0.104	1.84	0.58	8.5	7.0	6.4	7.5
February	29.217	29.532	28.800	24.1	31.5	29.6	35.1	21.5	28.3	52	7	20	23	21	83	68	69	.112	.129	.118	1.85	.55	8.3	6.6	7.7	7.9
March	29.077	29.549	28.130	37.4	46.4	44.0	52.2	32.6	42.4	72	7	32	35	34	79	66	69	.193	.234	.217	1.95	.70	7.3	7.5	6.0	7.4
April	29.048	29.540	28.320	45.5	54.0	51.9	58.6	41.4	50.0	86	27	38	42	42	77	67	70	.246	.293	.277	4.68	.76	7.9	7.3	6.9	7.3
May	29.206	29.669	28.130	55.1	65.0	60.3	69.3	47.1	58.2	92	33	46	48	46	74	56	62	.341	.356	.337	3.70	.95	6.4	7.4	5.7	6.5
June	29.111	29.309	28.750	63.9	74.9	70.8	79.4	56.2	67.8	92	40	54	55	56	71	51	60	.440	.457	.465	3.43	2.16	6.1	6.6	6.0	6.3
July	29.194	29.559	28.840	67.3	79.2	76.1	83.5	59.6	71.6	93	46	56	50	57	69	47	54	.474	.465	.486	1.06	.58	5.3	4.5	3.6	4.3
August	29.160	29.496	28.750	61.6	75.2	70.5	79.1	55.5	67.3	89	44	54	54	54	76	49	58	.424	.429	.438	3.29	1.43	4.8	4.3	3.2	4.2
September	29.264	29.673	28.890	59.4	73.0	67.4	77.1	54.2	65.6	96	35	53	56	56	81	56	69	.430	.468	.474	3.26	1.54	6.1	5.2	3.8	5.3
October	29.180	29.850	28.500	44.5	54.8	52.4	59.3	41.0	50.2	77	28	38	38	38	78	56	60	.238	.243	.249	4.20	2.97	6.4	6.9	4.6	6.5
November	29.183	29.594	28.330	38.8	45.0	42.4	47.9	35.4	41.6	69	6	34	33	33	81	63	69	.215	.237	.206	2.62	1.07	7.4	7.7	7.1	7.4
December	29.173	29.706	28.670	29.9	34.6	33.0	38.6	25.6	32.0	60	11	25	23	27	82	74	77	.145	.151	.153	3.25	.79	9.0	8.5	7.6	8.4
Year	29.165	29.850	28.130	46.1	55.2	52.2	59.6	40.8	50.2	96	1	39	40	40	77	60	65	.281	.298	.294	35.13	2.97	7.0	6.6	5.7	6.6

Annual meteorological summary for the year ending December 31, 1929—Continued

SANTA FE, N. MEX.

[H_b=7,013 ft.; h_t=38 ft.; h_r=31 ft.; h_a=53 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	5.9	N.	23	SW.	0	7	17	4	11	6	6	3	8	0	16	6	9	6	2	8	6	0	0	5	0	31	0	0
February	5.4	N.	20	N.	0	10	8	6	7	8	2	7	7	1	11	9	8	6	5	11	6	0	0	7	0	28	0	0
March	6.2	N.	27	SW.	0	9	8	6	8	9	5	7	9	1	10	13	8	5	3	8	5	0	0	1	0	24	0	0
April	7.4	SW.	31	SW.	0	8	5	6	10	3	14	8	6	0	12	11	7	2	2	2	1	0	0	0	0	9	1	0
May	6.6	SE.	33	NE.	1	7	3	9	15	6	8	6	4	4	12	10	9	13	12	3	2	4	0	0	0	2	15	0
June	5.7	SW.	22	NE.	0	0	5	13	12	3	14	2	8	3	15	13	2	1	1	0	0	0	0	0	1	0	4	0
July	4.5	E.	34	NE.	1	3	8	15	14	11	5	2	1	3	3	17	11	16	10	0	0	1	0	0	0	0	25	0
August	4.1	E.	19	NE.	0	5	12	15	14	6	3	1	3	3	6	18	7	15	13	0	0	0	0	0	0	0	24	0
September	4.8	SE.	24	NW.	0	4	9	12	13	2	13	4	3	0	11	15	4	8	6	0	0	0	0	0	0	0	9	0
October	4.4	E.	17	E.	0	8	9	10	14	7	8	2	4	0	14	11	6	9	7	6	3	0	1	0	0	9	6	0
November	5.3	N.	20	N.	0	11	21	15	10	5	3	0	5	0	18	8	4	2	1	8	2	0	1	4	0	29	0	0
December	5.0	N.	19	N.	0	8	22	7	17	2	1	0	5	0	23	4	4	2	2	2	2	0	0	5	0	30	0	0
Year	5.4	SE.	34	NE.	2	80	127	108	145	68	82	42	63	15	151	135	79	85	64	48	27	5	2	22	1	162	84	0

SAULT STE. MARIE, MICH.

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

January	9.5	SW.	36	NW.	3	5	6	7	13	3	10	9	9	0	2	6	23	20	13	27	20	0	0	30	0	31	0	0
February	5.9	NW.	29	NW.	0	2	1	3	14	3	5	13	13	2	4	12	12	11	3	13	11	0	4	27	0	28	0	1
March	8.1	SE.	31	NW.	0	2	2	9	14	2	9	12	12	0	4	14	13	15	12	13	10	0	2	7	0	28	2	0
April	8.6	NW.	30	NW.	0	4	5	13	10	0	5	9	14	0	6	15	9	12	8	7	6	0	1	1	0	14	2	0
May	8.6	NW.	32	NW.	0	2	3	8	11	4	8	6	20	0	10	13	8	12	8	7	7	0	0	0	0	8	2	0
June	6.2	NW.	23	NW.	0	5	3	11	7	1	5	13	15	0	15	11	4	12	9	0	0	0	1	0	0	0	7	0
July	6.5	NW.	25	NW.	0	3	2	13	9	3	7	8	16	1	18	10	3	10	7	0	0	0	1	0	0	1	5	1
August	6.8	NW.	35	NW.	1	1	3	6	11	2	8	12	19	0	14	9	8	6	6	0	0	0	0	0	0	0	4	0
September	6.5	NW.	30	NW.	0	3	6	10	10	4	10	3	14	0	12	6	12	13	12	0	0	0	0	0	0	0	8	2
October	8.6	NW.	42	NE.	2	8	7	8	14	1	6	4	14	0	8	8	15	15	9	4	2	0	3	0	0	7	1	0
November	8.6	SW.	36	NW.	3	7	6	2	9	4	14	10	7	1	5	7	18	22	18	16	12	0	1	10	0	23	1	0
December	7.6	E.	33	NW.	1	5	13	13	11	1	7	4	8	0	2	7	22	21	12	22	20	0	0	25	0	31	0	0
Year	7.6	NW.	42	NE.	10	47	57	103	133	28	94	103	161	4	100	118	147	169	117	109	88	0	13	100	1	170	32	4

SAVANNAH, GA.

[H_b=65 ft.; h_t=150 ft.; h_r=143 ft.; h_a=194 ft.]

January	10.6	W.	35	W.	1	6	9	6	5	8	8	15	5	0	13	8	10	9	7	0	0	0	2	0	0	1	0	0
February	9.8	NE.	30	NW.	0	5	11	9	5	7	4	7	8	0	5	7	16	12	11	0	0	0	3	0	0	0	2	0
March	12.8	S.	48	W.	4	2	10	9	5	12	6	11	7	0	9	12	10	10	9	0	0	0	2	0	1	0	1	0
April	11.3	S.	36	NW.	2	3	4	7	6	15	9	11	5	0	9	8	13	9	6	0	0	0	0	0	0	0	5	0
May	10.1	SE.	42	W.	1	2	7	11	14	13	6	9	0	0	10	11	10	8	7	0	0	0	0	0	0	0	7	0
June	8.1	SE.	36	NW.	3	3	11	4	12	11	9	8	2	0	10	7	13	13	10	0	0	0	0	0	7	0	12	0
July	7.6	SE.	28	S.	0	5	8	7	11	8	10	10	3	0	6	10	15	15	14	0	0	0	0	0	8	0	12	0
August	7.7	W.	36	W.	2	7	7	7	3	11	9	16	2	0	5	12	14	14	13	0	0	0	1	0	15	0	15	0
September	9.1	E.	26	E.	0	10	13	19	4	5	1	4	4	0	2	6	22	17	12	0	0	0	0	0	0	0	8	0
October	10.8	NE.	40	SE.	2	9	16	10	2	5	6	13	1	0	13	8	10	4	2	0	0	0	1	0	0	0	1	0
November	10.1	S.	27	NW.	0	9	8	9	3	13	3	7	8	0	13	5	12	5	5	0	0	0	1	0	0	1	0	0
December	10.0	W.	30	W.	0	6	8	4	2	11	4	19	8	0	15	3	13	8	5	0	0	0	6	0	0	8	1	0
Year	9.8	W.	48	W.	15	67	112	102	72	119	75	130	53	0	110	97	158	124	101	0	0	0	16	0	31	10	64	0

SCRANTON, PA.

[H_b=805 ft.; h_t=111 ft.; h_r=102 ft.; h_a=119 ft.]

January	8.0	SW.	33	SW.	1	7	9	1	0	0	29	5	10	1	4	8	19	12	9	22	7	0	0	15	0	30	0	0
February	6.0	N.	31	SW.	0	15	9	3	2	1	15	0	11	0	2	8	18	8	8	18	6	0	0	11	0	23	0	0
March	7.2	SW.	33	W.	1	12	4	2	2	1	27	4	10	0	4	10	17	14	9	4	3	0	2	1	0	14	1	0
April	7.8	SW.	34	W.	1	14	10	4	2	0	14	7	8	1	6	5	19	18	15	4	1	0	1	0	0	1	1	0
May	6.8	SW.	33	NW.	1	12	9	0	2	2	27	2	8	0	6	10	15	14	10	0	0	0	0	0	1	0	4	0
June	5.5	SW.	25	W.	0	11	6	0	3	5	25	1	9	0	5	11	14	10	7	0	0	0	0	0	2	0	6	0
July	5.8	SW.	23	SW.	0	17	5	1	4	1	30	0	3	1	12	15	4	5	4	0	0	0	0	0	3	0	3	0
August	5.6	SW.	32	NW.	0	23	10	0	0	2	19	3	3	2	12	13	6	7	6	0	0	0	1	2	0	0	5	0
September	4.8	SW.	22	SW.	0	18	13	1	0	6	16	3	2	1	9	13	8	8	6	0	0	0	2	0	4	0	4	0
October	6.6	SW.	27	NW.	0	11	8	1	4	1	22	2	12	1	5	13	13	8	6	1	1	0	0	0	0	2	0	0
November	6.2	SW.	31	W.	0	8	8	4	0	0	27	8	5	0	2	14	14	14	8	4	3	0	1	3	0	12	0	0
December	6.1	SW.	23	SW.	0	9	10	0	0	2	34	4	2	1	0	8	23	15	10	13	7	0	2	9	0	23	1	0
Year	6.4	SW.	34	W.	4	157	101	17	19	21	285	39	83	8	67	128	170	133	98	66	28	1	10	39	10	105	25	0

Annual meteorological summary for the year ending December 31, 1929—Continued

SEATTLE, WASH.

[ϕ=47° 38′ N.; λ=122° 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.955	30.360	29.320	33.1	36.6	36.9	38.9	30.2	34.6	47	18	30	31	31	88	79	80	0.170	0.176	0.181	2.54	0.70	6.9	8.1	7.8	7.7
February	30.082	30.350	29.590	33.2	38.5	40.4	41.6	30.8	36.2	50	18	31	33	33	90	80	77	.173	.190	.194	1.10	.65	5.6	6.1	6.5	6.5
March	29.916	30.190	29.370	41.7	46.2	48.4	51.1	38.9	45.0	60	33	39	39	38	90	76	68	.239	.237	.237	2.73	.57	7.8	7.4	7.3	7.6
April	29.851	30.270	29.340	41.4	48.2	51.5	53.9	39.5	46.7	66	34	38	36	36	88	64	58	.231	.216	.217	1.59	.57	6.7	5.5	7.2	6.6
May	29.953	30.240	29.550	48.1	55.8	60.6	62.8	46.4	54.6	76	42	44	43	42	85	63	51	.286	.274	.265	1.48	.52	6.0	5.5	5.7	5.9
June	29.859	30.270	29.360	53.1	61.2	64.1	66.5	52.0	59.2	79	46	48	47	46	85	62	55	.341	.331	.321	1.75	.63	7.7	6.3	6.4	6.9
July	29.931	30.140	29.670	56.0	66.3	72.2	73.7	54.9	64.3	84	52	50	49	48	86	55	44	.361	.353	.336	.13	.07	4.8	3.5	3.2	3.9
August	29.908	30.180	29.700	56.7	65.2	72.5	74.3	55.3	64.8	84	49	52	52	50	85	64	47	.389	.391	.366	1.13	.85	3.3	3.5	2.9	3.6
September	29.883	30.090	29.640	54.5	62.9	67.8	69.5	52.1	60.8	81	43	50	48	47	84	60	49	.356	.340	.322	.09	.03	2.8	2.6	2.9	2.9
October	29.964	30.250	29.550	51.3	58.0	59.5	62.5	48.8	55.6	75	38	47	47	47	86	68	65	.326	.329	.330	1.00	.31	5.1	5.7	5.9	6.1
November	30.184	30.520	29.800	42.6	46.4	47.8	50.0	40.3	45.2	57	34	39	40	40	88	78	76	.243	.246	.251	1.23	.41	6.1	7.2	6.9	7.2
December	29.894	30.310	29.180	42.2	44.2	45.0	47.5	39.6	43.6	58	32	39	40	40	89	85	84	.241	.247	.252	5.26	1.46	7.5	8.8	8.7	9.1
Year	29.948	30.520	29.180	46.2	52.5	55.7	57.7	44.3	50.9	84	18	42	42	42	86	70	63	.280	.278	.273	20.03	1.46	5.9	5.9	6.0	6.2

SHERIDAN, WYO.

[ϕ=44° 48′ N.; λ=106° 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	26.028	26.390	25.420	3.7	15.1	12.1	20.0	−3.5	8.2	46	−29	−1	6	5	80	64	71	0.049	0.064	0.063	0.99	0.36	6.5	5.8	6.3	6.1
February	26.050	26.440	25.677	8.3	22.8	18.9	26.2	.3	13.2	44	−32	3	13	11	78	63	66	.056	.082	.073	.91	.26	7.1	6.1	5.4	6.4
March	25.950	26.350	25.500	26.7	41.8	39.2	45.6	23.7	34.6	66	8	22	23	26	80	49	60	.115	.124	.138	2.56	.82	5.9	6.0	5.8	5.7
April	25.960	26.310	25.380	31.6	49.1	48.6	53.6	28.8	41.2	74	18	26	24	26	79	42	44	.143	.134	.140	3.12	2.24	5.8	6.4	5.9	6.0
May	26.096	26.454	25.720	40.3	59.7	59.7	64.8	36.1	50.4	89	22	33	33	34	77	41	43	.195	.191	.194	2.55	.94	4.4	4.5	4.9	4.8
June	26.047	26.330	25.490	50.7	70.7	69.2	74.9	45.1	60.0	91	33	43	43	44	78	40	43	.286	.286	.297	.95	.39	4.5	4.3	5.2	4.5
July	26.128	26.349	25.850	57.3	81.8	80.4	87.3	58.4	70.4	103	40	49	47	50	76	34	38	.357	.333	.369	.91	.48	2.5	2.8	4.9	3.5
August	26.152	26.380	25.953	54.4	84.0	82.2	88.8	52.5	70.6	99	43	48	47	49	82	30	34	.345	.330	.361	.63	.46	3.3	2.9	3.4	3.2
September	26.131	26.420	25.700	43.4	61.3	59.4	65.5	40.6	53.0	94	28	38	37	40	83	47	52	.236	.228	.251	1.15	.34	6.6	4.6	6.1	5.9
October	26.179	26.680	25.570	33.4	59.1	53.7	62.7	30.4	46.6	80	13	29	30	31	84	38	46	.164	.170	.181	.71	.29	3.6	3.7	3.7	3.7
November	26.208	26.656	25.760	26.4	35.7	29.4	40.2	14.1	27.2	62	−15	17	23	22	84	59	73	.104	.122	.121	2.32	.94	4.4	6.0	5.5	5.9
December	26.099	26.640	25.690	15.4	28.1	22.2	33.5	8.3	20.9	60	−21	12	18	16	85	68	77	.079	.104	.094	.75	.30	4.9	5.0	4.9	4.9
Year	26.086	26.680	25.380	32.6	50.8	47.9	55.3	27.5	41.4	103	−32	27	29	30	80	48	54	.177	.181	.190	17.55	2.24	5.0	4.8	5.2	5.0

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: 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.833	30.300	29.320	42.4	51.1	51.2	57.6	38.2	47.9	75	21	36	37	37	77	61	61	0.237	0.259	0.247	3.21	1.38	5.2	6.0	5.0	5.9
February	29.817	30.350	29.250	37.8	44.9	46.1	50.6	34.6	42.6	74	22	34	34	34	85	67	67	.207	.204	.211	2.54	.77	6.1	6.8	6.9	6.4
March	29.684	30.160	29.150	53.3	66.0	66.3	71.4	51.8	61.6	91	35	47	46	47	80	52	54	.345	.346	.363	3.08	1.14	4.8	4.6	4.1	4.8
April	29.672	30.090	29.300	61.9	73.1	73.5	78.6	59.7	69.2	90	49	56	54	56	80	55	56	.464	.452	.463	3.09	.91	5.7	4.6	3.7	4.8
May	29.742	30.004	29.180	66.0	76.4	75.1	81.5	63.5	72.5	91	51	62	65	65	87	70	73	.575	.639	.639	3.48	1.08	6.9	5.3	4.5	5.7
June	29.685	29.900	29.475	73.3	85.1	84.9	90.5	70.3	80.4	97	59	68	70	70	83	62	61	.686	.740	.729	.88	.67	3.2	3.2	1.7	2.8
July	29.765	29.930	29.556	76.1	83.6	86.0	91.8	73.7	82.8	98	69	71	71	71	86	60	62	.768	.760	.764	3.99	2.95	3.1	3.4	3.3	3.4
August	29.726	29.900	29.530	75.3	90.1	89.7	95.1	73.7	84.4	102	64	68	68	66	78	49	47	.691	.693	.680	.50	.39	1.0	1.5	1.7	1.5
September	29.701	29.900	29.481	68.8	83.6	81.4	87.7	67.7	77.7	95	59	64	65	65	87	54	59	.618	.624	.630	5.62	4.12	2.5	2.9	2.5	2.9
October	29.763	29.970	29.290	59.3	72.7	71.2	76.7	58.3	67.5	86	40	52	53	54	79	54	57	.414	.437	.439	1.30	.42	4.1	4.2	3.3	4.0
November	29.879	30.220	29.500	45.0	53.5	52.5	57.2	42.6	49.9	80	26	40	39	40	82	61	66	.268	.269	.273	1.99	.68	6.4	5.7	6.5	6.3
December	29.920	30.370	29.400	43.0	52.4	52.4	57.3	40.0	48.6	75	15	39	41	41	85	66	68	.282	.311	.314	6.28	2.16	5.4	5.6	5.5	5.0
Year	29.766	30.370	29.150	58.5	69.4	69.2	74.7	56.2	65.4	102	15	53	54	54	82	59	61	.463	.478	.477	35.93	4.12	4.5	4.5	3.8	4.5

SIOUX CITY, IOWA

[ϕ=42° 29′ N.; λ=96° 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.885	29.310	28.200	7.1	12.5	12.3	18.3	0.3	9.3	47	−13	4	7	8	87	78	80	0.056	0.061	0.063	0.59	0.12	6.3	7.2	4.5	6.5
February	28.881	29.300	28.368	10.3	17.1	17.8	22.6	4.4	13.5	43	−15	7	12	14	87	81	84	.064	.080	.087	1.00	.36	7.0	6.8	6.0	6.5
March	28.665	29.360	28.030	33.2	43.4	43.9	48.8	30.5	39.6	68	13	28	30	30	79	61	61	.153	.171	.169	1.12	.65	5.7	5.6	5.0	5.7
April	28.650	29.030	28.010	43.2	55.6	57.6	61.8	41.2	51.5	90	20	38	39	37	81	56	50	.234	.248	.230	2.99	1.43	6.4	6.0	5.4	6.1
May	28.823	29.230	28.431	51.1	63.9	65.0	69.4	47.9	58.6	88	29	44	44	43	76	49	47	.310	.308	.304	1.73	.94	5.4	6.0	5.2	5.7
June	28.723	29.050	28.290	61.4	72.5	73.8	77.3	57.9	67.6	96	46	55	56	55	79	58	55	.440	.464	.454	6.47	2.20	6.0	5.3	5.5	6.1
July	28.787	28.990	28.450	68.7	80.6	81.7	85.3	66.4	75.8	97	55	62	63	64	81	57	57	.574	.595	.615	3.27	1.17	6.1	5.7	3.5	5.3
August	28.806	29.060	28.514	64.9	80.3	80.8	85.0	62.6	73.8	94	48	58	60	61	78	51	52	.484	.531	.551	1.55	.50	3.8	4.3	4.2	4.0
September	28.810	29.185	28.405	53.6	65.2	64.1	69.8	51.5	60.6	96	34	48	49	50	84	60	64	.351	.366	.384	3.18	1.37	6.0	5.4	6.1	6.0
October	28.833	29.160	28.450	46.1	57.9	56.5	62.0	42.7	52.4	81	26	40	41	42	80	57	60	.257	.274	.279	2.23	.61	5.1	5.8	5.4	5.4
November	28.910	29.520	28.430	27.2	34.9	34.0	40.0	23.6	31.8	55	1	23	24	24	84	64	68	.132	.134	.136	.41	.13	4.8	7.2	5.2	5.0
December	28.860	29.440	28.250	21.3	27.9	26.7	32.7	16.9	24.8	55	−8	18	20	20	84	74	76	.105	.118	.118	.27	.16	5.3	5.7	4.5	5.9
Year	28.803	29.520	28.010	40.7	51.0	51.2	56.1	37.2	46.6	97	−15	35	37	37	82	62	63	.263	.279	.282	26.81	2.20	5.7	5.9	5.0	5.8

Annual meteorological summary for the year ending December 31, 1929—Continued

SEATTLE, WASH.

[H_b=125 ft.; h_t=215 ft.; h_r=209 ft.; h_a=250 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	Maximum temperature: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	6.6	NE.	36	SW.	1	10	19	8	13	9	1	0	2	0	3	8	20	13	10	9	5	0	4	5	0	18	0	0
February	6.2	NE.	38	SW.	1	8	14	9	8	9	4	1	0	3	8	7	13	9	4	1	1	0	7	1	0	16	0	0
March	8.3	S.	32	S.	0	5	0	8	7	22	11	1	5	3	4	7	20	15	12	1	0	1	4	0	0	0	0	1
April	8.7	S.	38	SW.	3	9	2	5	14	13	11	2	4	0	6	8	16	15	11	1	0	0	3	0	0	0	1	0
May	6.8	S.	33	SW.	1	9	5	6	10	11	9	3	7	2	6	11	14	13	10	0	0	1	2	0	0	0	3	0
June	7.5	S.	38	S.	1	10	6	4	8	11	8	7	5	1	5	8	17	12	8	0	0	0	0	0	0	0	1	0
July	7.1	NE.	23	S.	0	15	8	3	5	11	5	5	7	3	15	11	5	4	1	0	0	0	0	0	0	0	0	0
August	5.8	NW.	20	SW.	0	11	9	1	8	9	9	5	7	3	16	10	5	5	3	0	0	0	3	0	0	0	1	0
September	4.3	N.	17	NE.	0	25	9	4	6	4	1	2	5	4	21	2	7	4	0	0	0	0	0	0	0	0	1	0
October	6.1	S.	31	W.	0	12	8	6	14	9	6	2	4	1	8	12	11	9	7	0	0	1	5	0	0	0	1	0
November	4.9	NE.	35	SW.	1	12	15	2	12	8	0	2	8	1	2	12	16	8	7	0	0	0	5	0	0	0	0	0
December	8.4	S.	53	S.	2	5	8	6	11	26	6	0	0	0	0	5	26	20	17	2	2	0	3	0	0	1	0	0
Year	6.7	S.	53	S.	10	131	103	62	116	142	71	30	54	21	94	101	170	127	90	14	8	3	36	6	0	35	8	1

SHERIDAN, WYO.

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

January	4.0	NW.	24	NW.	0	2	5	0	3	16	7	3	26	0	6	15	10	15	11	19	15	0	0	22	0	31	0	0
February	4.5	NW.	24	NW.	0	7	5	0	4	13	2	8	17	0	6	9	13	12	6	19	12	0	1	18	0	28	0	0
March	6.2	NW.	32	NW.	0	0	3	1	4	17	11	2	24	0	8	14	9	13	11	15	12	0	0	4	0	30	0	0
April	5.7	NW.	32	SW.	0	1	3	5	9	7	10	2	20	3	6	15	9	10	7	8	7	0	0	1	0	22	0	0
May	5.1	NW.	35	NW.	1	5	5	1	11	5	7	4	23	1	12	15	4	11	9	2	1	1	1	0	0	7	3	0
June	4.1	NW.	24	SE.	0	4	6	3	14	6	5	7	12	3	12	17	1	10	7	0	0	3	0	0	1	0	8	0
July	3.3	S.	21	NW.	0	3	4	2	11	17	9	6	8	2	18	11	2	5	3	0	0	1	1	0	14	0	10	0
August	3.3	S.	17	SE.	0	1	3	4	17	15	6	3	9	4	18	13	0	3	2	0	0	0	0	0	14	0	5	0
September	3.5	NW.	25	SW.	0	1	9	4	6	6	5	6	17	6	12	8	10	13	7	0	0	0	0	0	1	3	3	0
October	4.0	NW.	27	NW.	0	3	5	2	11	18	4	3	15	1	15	11	5	7	4	5	4	0	0	1	0	17	0	0
November	4.2	NW.	22	NW.	0	5	4	2	7	13	4	5	19	1	7	11	12	12	9	12	10	0	0	7	0	29	0	0
December	3.4	NW.	22	NW.	0	3	2	3	8	13	6	7	16	4	9	16	6	5	5	10	5	0	0	12	0	31	0	0
Year	4.3	NW.	35	NW.	1	35	54	27	105	146	76	56	206	25	129	155	81	116	81	90	66	5	3	65	30	198	29	0

SHREVEPORT, LA.

[H_b=249 ft., h_t=77 ft., h_r=70 ft.; h_a=93 ft.]

January	6.2	SE.	22	SW.	0	5	11	4	18	7	4	4	8	1	10	5	16	10	8	0	0	0	1	0	0	10	3	0
February	5.6	SE.	24	SW.	0	9	8	11	13	1	2	1	11	0	9	5	14	14	8	1	0	0	0	0	0	10	1	0
March	6.7	SE.	22	S.	0	0	4	11	22	7	6	8	4	0	14	9	8	9	7	0	0	0	0	0	1	0	5	0
April	6.3	SE.	40	W.	1	2	3	3	23	12	4	4	9	0	10	13	7	8	8	0	0	2	0	0	1	0	7	0
May	6.0	SE.	28	NW.	0	3	6	12	22	13	3	2	1	0	7	16	8	13	13	0	0	0	0	0	2	0	13	0
June	5.0	S.	24	NE.	0	5	9	4	18	14	6	3	1	0	18	11	1	4	4	0	0	0	0	0	19	0	5	0
July	4.9	S.	17	SW.	0	2	6	4	18	18	9	3	2	0	18	10	3	8	8	0	0	0	0	0	25	0	8	0
August	4.7	SE.	31	NW.	0	0	7	13	16	8	10	5	3	0	28	3	0	5	3	0	0	0	0	0	28	0	3	0
September	4.4	E.	16	SE.	0	6	14	18	14	3	0	1	3	1	19	8	3	5	5	0	0	0	0	0	12	0	5	0
October	4.8	SE.	24	S.	0	4	12	12	13	4	1	8	8	0	17	9	5	7	6	0	0	1	0	0	0	0	3	0
November	5.0	N.	18	SE.	0	12	6	9	5	6	3	8	11	0	9	5	16	12	10	3	2	0	1	0	0	5	1	0
December	5.3	SE.	24	NW.	0	5	3	1	22	15	3	0	13	0	12	8	11	12	9	2	2	0	2	4	0	10	3	0
Year	5.4	SE.	40	W.	1	53	89	102	204	108	51	47	74	2	171	102	92	107	89	6	4	3	4	4	88	85	57	0

SIOUX CITY, IOWA

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

January	11.5	NW.	51	NW.	5	6	8	6	9	11	0	3	19	0	7	10	14	12	6	19	12	0	1	26	0	31	0	0
February	9.7	NW.	32	NW.	0	6	5	4	12	6	5	3	15	0	6	10	12	12	7	19	12	0	1	22	0	28	0	0
March	12.3	NW.	51	NW.	3	8	6	3	5	15	3	8	14	0	8	15	8	8	5	7	4	0	0	3	0	16	0	0
April	11.7	S.	49	SW.	6	4	12	9	10	7	1	4	13	0	6	12	12	9	6	2	1	1	1	0	0	5	3	0
May	10.8	S.	37	NW.	2	5	11	4	12	12	3	4	10	1	7	16	8	7	5	0	0	1	0	0	0	1	3	0
June	9.7	S.	47	NW.	4	9	5	9	10	12	2	4	9	0	7	12	11	18	15	0	0	3	1	0	3	0	9	0
July	9.0	S.	32	SW.	0	3	8	2	13	25	5	0	6	0	8	14	9	8	7	0	0	0	0	0	6	0	10	0
August	8.7	SE.	38	N.	1	4	8	8	22	12	0	1	7	0	15	13	3	10	8	0	0	1	0	0	5	0	12	0
September	10.8	SE.	39	S.	2	8	8	7	14	9	2	2	10	0	6	12	12	10	7	0	0	0	0	0	2	0	4	0
October	9.7	NW.	39	E.	2	7	6	7	10	11	3	5	13	0	12	7	12	7	7	1	0	0	0	0	0	3	1	0
November	10.7	NW.	44	NW.	3	10	4	1	2	14	0	9	20	0	5	14	11	7	5	13	5	0	1	8	0	23	0	0
December	10.7	NW.	44	NW.	4	4	3	4	13	10	1	3	24	0	8	10	13	4	2	11	4	0	6	13	0	29	0	1
Year	10.4	S.	51	NW.	32	74	84	64	132	144	25	46	160	1	95	145	125	112	81	72	38	6	11	72	16	136	42	1

Annual meteorological summary for the year ending December 31, 1929—Continued

SPOKANE, WASH.

[ϕ=47° 40′ N.; λ=117° 25′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.042	28.490	27.316	16.4	19.3	20.8	22.5	13.1	17.8	36	−17	12	14	15	84	80	76	0.084	0.089	0.090	1.18	0.41	7.5	8.6	8.7	8.5
February	28.096	28.550	27.750	15.9	25.3	28.6	30.7	12.0	21.4	44	−12	12	16	18	85	68	64	.082	.096	.101	.09	.04	5.0	6.2	6.4	5.6
March	27.902	28.200	27.410	35.5	46.2	47.7	50.3	33.1	41.7	60	24	30	30	30	81	54	52	.169	.168	.171	.91	.37	5.6	6.9	6.5	6.4
April	27.870	28.250	27.513	37.3	50.4	52.3	54.8	35.1	45.0	73	25	29	28	27	73	45	42	.163	.155	.148	1.14	.25	4.9	6.0	6.7	5.4
May	27.948	28.250	27.580	46.0	64.8	66.2	69.2	44.4	56.8	88	35	36	33	32	69	33	31	.213	.191	.182	.72	.60	4.2	5.7	6.4	5.2
June	27.901	28.260	27.520	51.8	68.4	71.5	73.2	50.6	61.9	88	40	44	41	39	75	40	35	.288	.265	.246	.82	.43	5.3	6.7	6.4	6.1
July	27.954	28.180	27.650	56.4	80.1	84.4	85.8	55.4	70.6	103	47	40	40	35	55	25	18	.255	.249	.209	T.	T.	1.6	2.6	3.3	2.5
August	27.935	28.210	27.690	59.6	82.5	87.9	88.7	57.4	73.0	99	44	42	44	38	53	27	18	.269	.293	.232	.06	.05	2.1	1.5	1.6	1.8
September	27.977	28.210	27.669	48.1	65.6	69.0	70.6	45.0	57.8	90	32	36	36	36	65	36	33	.216	.214	.217	.30	.15	2.7	4.0	4.8	4.7
October	28.071	28.406	27.670	42.3	58.4	62.5	64.7	38.7	51.7	80	24	35	37	34	77	46	36	.210	.220	.199	.49	.27	3.3	4.0	4.0	4.2
November	28.236	28.590	27.820	27.1	38.4	40.2	42.7	23.9	33.3	55	10	23	26	26	85	60	59	.125	.140	.144	T.	T.	3.0	4.8	4.3	5.1
December	27.996	28.378	27.360	32.9	37.1	37.2	39.9	29.8	34.8	53	17	30	32	32	89	83	84	.167	.182	.185	1.83	.67	6.4	7.8	7.4	8.4
Year	27.994	28.590	27.316	39.1	53.0	55.7	57.8	36.5	47.2	103	−17	31	31	30	74	50	46	.187	.188	.177	7.54	.67	4.3	5.4	5.5	5.3

SPRINGFIELD, ILL.

[ϕ=39° 48′ N.; λ=89° 39′ W.]

January	29.405	29.840	28.590	17.5	23.7	23.0	31.0	11.5	21.2	53	−5	14	17	17	84	75	77	0.090	0.108	0.103	2.58	0.89	6.5	6.5	4.8	6.5
February	29.429	29.910	28.750	18.1	25.9	26.8	32.0	15.6	23.8	53	−4	15	17	20	86	68	72	.091	.100	.112	.65	.34	6.8	7.2	6.5	6.8
March	29.240	29.910	28.640	40.8	50.9	50.6	56.7	37.7	47.2	84	20	35	37	38	79	60	64	.217	.242	.254	2.96	1.03	5.9	6.9	6.6	6.3
April	29.218	29.640	28.610	49.5	59.0	57.7	63.1	46.2	54.6	86	31	42	43	45	75	58	66	.281	.295	.318	3.56	.99	6.8	6.4	6.5	6.4
May	29.380	29.760	28.770	55.0	63.7	62.7	68.1	49.9	59.0	88	32	48	49	51	78	60	67	.372	.383	.398	6.32	1.67	6.3	7.1	6.3	6.7
June	29.290	29.520	28.950	65.1	74.3	74.7	78.8	59.8	69.3	93	41	60	63	64	83	71	70	.531	.620	.623	3.41	1.71	5.6	5.2	5.1	4.8
July	29.363	29.580	29.120	71.2	81.4	80.6	85.4	67.7	76.6	94	55	64	64	65	77	58	60	.599	.610	.625	4.66	1.82	5.4	6.4	5.5	4.9
August	29.367	29.580	28.990	66.1	78.0	76.8	82.2	62.9	72.6	95	51	59	61	62	79	57	61	.515	.547	.567	2.08	.77	4.2	5.5	5.1	4.6
September	29.378	29.670	29.090	58.4	71.5	68.8	75.1	55.8	65.4	92	38	54	55	56	85	58	65	.435	.455	.460	1.65	1.13	4.6	5.4	4.7	4.9
October	29.371	29.700	29.090	48.7	59.6	57.4	63.4	45.8	54.6	79	31	44	44	47	84	62	71	.295	.313	.334	3.33	.99	4.5	4.8	4.0	4.7
November	29.436	29.950	28.850	32.4	41.0	38.8	44.1	30.3	37.2	61	0	29	32	32	87	70	76	.177	.199	.195	1.17	.93	5.1	6.2	5.0	6.0
December	29.376	29.860	28.990	27.4	33.7	31.9	37.6	29.3	30.4	64	−2	25	28	28	89	80	84	.154	.174	.165	1.31	.56	5.4	6.6	4.0	6.7
Year	29.354	29.950	28.590	45.8	55.2	54.2	59.8	42.2	51.0	95	−5	41	42	44	82	65	69	.313	.337	346	33.68	1.82	5.6	6.2	5.3	5.8

SPRINGFIELD, MO.

[ϕ=37° 12′ N.; λ=93° 18′ W.]

January	28.651	29.060	28.010	25.4	31.6	31.3	39.6	19.1	29.4	65	5	22	23	24	88	72	76	0.130	0.136	0.137	2.53	1.04	5.4	4.6	5.1	5.5
February	28.671	29.140	28.040	21.0	28.6	30.4	34.0	19.0	26.5	55	−3	19	23	24	91	81	80	.107	.128	.134	1.55	.57	5.5	5.9	5.1	6.1
March	28.527	29.070	28.030	43.1	53.8	52.8	59.0	39.8	49.4	91	25	36	37	37	78	57	60	.232	.232	.234	2.97	.76	4.0	5.4	4.5	5.5
April	28.496	28.930	28.060	52.3	62.5	62.8	67.9	49.9	58.9	84	31	46	46	47	78	58	63	.324	.332	.345	3.94	2.04	5.0	3.8	3.9	4.5
May	28.632	28.950	28.100	56.5	65.4	65.1	69.8	52.4	61.1	85	32	51	52	54	84	64	69	.405	.410	.432	9.77	2.70	5.3	5.1	5.0	5.0
June	28.585	28.756	28.300	66.0	75.7	75.5	79.7	62.4	71.0	89	48	60	60	62	83	60	65	.533	.536	.568	4.78	1.53	3.5	2.8	2.5	2.8
July	28.662	28.850	28.450	71.9	83.4	82.1	87.3	69.1	78.2	93	61	66	64	65	82	54	59	.648	.608	.633	1.01	.46	2.9	2.6	2.7	2.1
August	28.650	28.800	28.410	69.3	83.0	80.4	87.3	66.8	77.0	97	56	61	60	62	76	48	55	.556	.545	.567	2.97	1.10	1.8	1.5	2.6	1.9
September	28.645	28.899	28.370	61.6	73.1	71.2	77.2	59.8	68.5	89	50	56	56	57	82	57	63	.459	.457	.483	2.37	.99	3.5	3.5	2.9	3.9
October	28.658	28.940	28.190	51.9	62.6	60.8	66.8	50.3	58.6	82	35	46	45	46	80	57	62	.323	.324	.337	5.55	2.23	4.5	4.0	3.4	4.5
November	28.733	29.180	28.300	34.9	43.1	41.6	46.8	32.6	39.7	67	14	31	32	31	84	66	67	.178	.186	.178	1.10	.36	4.2	4.9	4.5	6.3
December	28.684	29.140	28.250	34.5	43.0	42.2	48.2	31.0	39.6	72	−2	30	33	32	84	71	70	.206	.226	.217	1.61	.62	3.0	4.8	3.3	4.3
Year	28.633	29.180	28.010	49.0	58.8	58.0	63.6	46.0	54.8	97	−3	44	44	45	82	62	66	.342	.344	.355	40.15	2.70	4.0	4.1	3.8	4.4

SYRACUSE, N. Y.

[ϕ=43° 02′ N.; λ=76° 09′ W.]

January	29.367	30.020	28.470	23.5	25.7	----	32.6	17.2	24.9	62	2	20	20	---	84	76	---	0.112	0.110	----	2.96	0.44	8.7	8.2	----	8.0
February	29.454	29.830	29.050	23.0	26.7	----	30.1	18.5	24.3	46	4	19	22	---	84	80	---	.107	.117	----	1.98	.37	8.9	8.2	----	8.0
March	29.277	29.730	28.270	37.6	42.5	----	49.7	32.3	41.0	68	10	29	30	---	73	65	---	.171	.182	----	2.51	.45	7.6	7.6	----	7.4
April	29.263	29.780	28.650	46.0	51.9	----	56.3	40.3	48.3	81	22	37	37	---	72	60	---	.236	.242	----	7.67	2.91	7.3	7.1	----	7.1
May	29.306	29.930	28.310	55.5	60.3	----	66.1	46.7	56.4	90	35	43	44	---	66	58	---	.300	.317	----	3.61	.96	5.9	7.0	----	6.4
June	29.306	29.577	28.840	65.4	71.1	----	76.0	57.6	66.8	93	41	53	54	---	66	56	---	.424	.438	----	1.33	.36	4.9	5.2	----	5.1
July	29.330	29.810	29.030	69.9	76.9	----	81.4	61.5	71.4	94	47	59	58	---	69	49	---	.504	.459	----	2.47	.76	4.5	5.2	----	4.7
August	29.363	29.710	28.980	64.3	72.0	----	75.9	56.6	66.2	88	49	54	53	---	70	52	---	.429	.410	----	4.26	1.85	3.9	5.3	----	5.0
September	29.463	29.943	29.110	62.1	69.8	----	74.3	56.1	65.2	93	35	52	53	---	72	57	---	.418	.432	----	3.90	2.53	5.2	5.3	----	5.5
October	29.397	30.115	28.790	46.7	53.6	----	57.4	42.3	49.8	77	28	37	38	---	69	58	---	.228	.242	----	3.45	2.27	7.1	7.1	----	7.1
November	29.367	29.810	28.530	38.4	42.8	----	46.2	34.8	40.5	69	11	32	34	---	74	70	---	.203	.211	----	2.20	.80	7.0	7.6	----	7.7
December	29.374	30.000	28.680	26.8	29.2	----	33.7	22.4	28.0	47	−3	22	23	---	81	75	---	.129	.124	----	3.33	.90	8.3	8.6	----	8.6
Year	29.368	30.115	28.270	46.6	51.9	----	56.6	40.5	48.6	94	−3	38	39	---	73	63	---	.272	.274	----	39.61	2.91	6.6	6.9	----	6.7

Annual meteorological summary for the year ending December 31, 1929—Continued

SPOKANE, WASH.

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

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: Number of winds, 8 a. m. and 8 p. m.: Days with 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	3.8	NE.	17	NE.	0	10	15	7	0	11	8	3	8	0	2	4	25	10	8	18	10	0	0	28	0	31	0	0
February	3.9	SW.	18	SW.	0	7	2	3	0	12	21	1	10	0	9	10	9	3	2	8	3	0	1	16	0	28	0	0
March	6.3	SW.	28	SW.	0	3	5	6	0	12	28	2	6	0	9	6	16	10	6	6	1	0	1	0	0	16	0	0
April	6.2	S.	24	SW.	0	2	6	4	0	21	17	3	6	1	10	9	11	11	9	10	5	0	1	0	0	11	0	0
May	5.8	S.	27	SW.	0	4	5	10	0	20	13	1	8	1	9	12	10	5	3	0	0	1	0	0	0	0	3	0
June	6.0	S.	24	SW.	0	2	7	7	1	27	9	3	3	1	8	8	14	8	6	0	0	1	0	0	0	0	1	0
July	5.4	SW.	22	SW.	0	4	4	11	2	15	20	1	3	2	23	6	2	0	0	0	0	0	0	0	0	7	0	0
August	4.8	S.	23	SW.	0	3	9	8	2	16	16	5	2	1	24	6	1	2	1	0	0	0	0	0	15	0	1	0
September	4.0	S.	18	N.	0	8	16	4	0	16	6	1	5	4	10	13	7	5	2	0	0	0	0	0	1	1	0	0
October	4.0	NE.	17	S.	0	9	8	7	1	12	10	7	5	3	15	11	5	5	2	0	0	0	0	0	0	5	0	0
November	2.3	NW.	19	SW.	0	8	5	4	1	8	3	10	19	2	9	16	5	0	0	0	0	0	5	1	0	29	0	0
December	5.5	S.	27	S.	0	7	6	2	1	20	18	3	5	0	0	9	22	10	9	12	3	0	6	2	0	20	0	0
Year	4.8	S.	28	SW.	0	67	88	73	8	190	169	40	80	15	128	110	127	69	48	54	22	2	14	47	23	141	6	0

SPRINGFIELD, ILL.

[H_b=636 ft.; h_t=154 ft.; h_r=148 ft.; h_a=191 ft.]

January	12.4	NW.	38	W.	4	5	6	9	5	10	3	9	15	0	8	7	16	13	9	15	6	0	3	17	0	31	0	0
February	10.0	NW.	31	S.	0	9	3	7	5	5	10	6	11	0	6	6	16	8	6	13	7	0	0	16	0	26	0	0
March	13.2	S.	47	NW.	5	8	4	3	5	24	9	2	7	0	8	8	15	7	6	2	0	1	0	1	0	10	3	0
April	14.2	S.	48	SW.	4	4	10	8	6	18	3	8	3	0	6	11	13	12	10	0	0	1	0	0	0	1	6	0
May	11.1	S.	39	W.	3	8	11	6	7	15	6	4	5	0	3	16	12	14	12	1	1	0	0	0	0	0	9	0
June	9.9	S.	38	N.	3	5	11	3	5	15	8	7	6	0	13	9	8	8	7	0	0	0	0	0	3	0	9	0
July	8.9	SW.	36	SW.	1	5	7	8	6	12	17	1	6	0	11	9	11	10	9	0	0	0	0	0	6	0	6	0
August	8.8	S.	24	S.	0	7	9	4	15	11	4	6	6	0	10	14	7	6	6	0	0	0	1	0	1	0	6	0
September	9.5	S.	30	N.	0	8	5	13	8	15	3	4	4	0	12	7	11	8	4	0	0	0	3	0	1	0	1	0
October	11.4	SW.	35	SE.	1	7	5	12	10	5	11	9	3	0	14	4	13	12	9	2	1	0	1	0	0	1	0	0
November	10.8	W.	38	NW.	2	7	7	3	2	9	13	10	9	0	10	3	17	7	3	3	2	1	2	6	0	12	1	0
December	11.4	SW.	34	N.	1	5	3	3	8	7	15	13	7	1	7	6	18	9	5	8	3	0	6	9	0	21	1	0
Year	11.0	S.	48	SW.	24	78	81	79	82	146	102	79	82	1	108	100	157	114	86	44	20	3	16	49	11	102	42	0

SPRINGFIELD, MO.

[H_b=1,324 ft.; h_t=98 ft.; h_r=66 ft.; h_a=104 ft.]

January	11.5	S.	38	W.	1	5	6	4	14	13	3	6	11	0	12	6	13	9	6	6	2	0	0	7	0	28	1	0
February	8.1	NW.	24	S.	0	6	7	5	8	7	8	2	13	0	10	2	16	9	7	14	7	0	2	14	0	26	1	0
March	10.7	S.	30	SE.	0	4	5	4	12	18	3	7	9	0	10	10	11	13	7	1	0	2	2	1	1	7	4	0
April	11.5	S.	34	SE.	1	2	2	3	16	16	6	8	7	0	12	12	6	16	8	0	0	0	0	0	0	1	12	0
May	9.5	SE.	30	NW.	0	8	7	4	21	14	2	3	3	0	13	9	9	15	13	1	1	4	0	0	0	1	11	0
June	8.0	S.	28	W.	0	9	2	7	14	14	9	1	4	0	20	7	3	11	8	0	0	0	1	0	0	0	9	0
July	7.1	S.	27	SW.	0	7	6	2	11	23	9	3	1	0	24	6	1	8	8	0	0	0	0	0	11	0	6	0
August	7.6	S.	33	SE.	1	4	9	8	17	13	5	2	4	0	25	6	0	6	6	0	0	0	0	0	11	0	10	0
September	7.6	SE.	24	SE.	0	6	7	4	27	11	1	0	4	0	16	7	7	8	7	0	0	0	2	0	0	0	6	0
October	8.5	SE.	29	NW.	0	1	7	6	16	8	7	7	9	1	13	10	8	10	9	0	0	0	2	0	0	0	4	0
November	8.4	NW.	27	SE.	0	4	8	2	7	9	9	4	17	0	7	8	15	7	6	2	0	0	2	3	0	12	0	0
December	9.1	S.	26	NW.	0	4	3	0	5	22	8	9	11	0	16	6	9	9	6	3	3	0	6	6	0	17	1	0
Year	9.0	S.	38	W.	3	60	69	49	168	168	70	52	93	1	178	89	98	121	91	27	13	6	17	31	23	92	65	0

SYRACUSE, N. Y.

[H_b=596 ft.; h_t=65 ft.; h_r=57 ft.; h_a=79 ft.]

January	9.4	SW.	34	SW.	1	3	2	7	5	6	17	15	7	0	1	10	20	22	16	27	18	0	0	17	0	30	0	0
February	6.4	W.	20	SE.	0	1	0	18	0	6	14	10	7	0	1	10	17	15	10	20	12	0	0	17	0	27	0	0
March	7.9	S.	24	SW.	0	2	1	8	2	16	12	7	14	0	2	13	16	16	13	10	7	0	0	3	0	13	3	1
April	7.6	E.	30	SW.	0	1	3	13	2	10	13	12	6	0	2	12	16	22	16	4	4	0	0	0	0	3	5	0
May	6.7	S.	26	SW.	0	2	0	13	2	12	12	12	9	0	5	12	14	15	11	1	0	0	0	0	1	0	4	0
June	5.6	S.	20	NW.	0	3	2	5	3	9	8	8	21	1	11	13	6	8	5	0	0	0	1	0	1	0	3	0
July	5.8	S.	22	W.	0	5	1	3	4	23	10	7	9	0	12	12	7	12	10	0	0	1	0	0	4	0	6	0
August	5.5	S.	22	W.	0	6	0	3	2	20	9	15	7	0	12	9	10	8	6	0	0	0	3	0	0	0	3	0
September	5.2	S.	20	NW.	0	2	2	10	8	13	8	11	6	0	10	10	10	11	8	0	0	0	1	0	3	0	1	0
October	6.7	S.	26	NW.	0	4	1	5	7	14	9	11	11	0	4	12	15	14	8	1	0	0	0	0	0	5	0	0
November	7.0	SW.	28	SW.	0	0	0	10	3	13	18	12	4	0	3	5	22	16	11	6	4	0	0	3	0	11	0	0
December	6.3	W.	24	SW.	0	3	0	8	5	9	15	12	10	0	2	5	24	21	15	21	12	0	4	15	0	26	0	0
Year	6.7	S.	34	SW.	1	32	12	103	43	151	145	132	111	1	65	123	177	180	129	90	57	1	9	55	9	115	25	1

Annual meteorological summary for the year ending December 31, 1929—Continued

TACOMA, WASH.

[ϕ=47° 16′ N.; λ=122° 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: 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.869	30.290	29.240	35.2	36.9	38.6	29.2	33.9	50	15	31	33	36	86	84		0.181	0.192		2.58	0.53		6.1	7.1	8.4
February	30.008	30.290	29.530	38.0	40.6	41.9	29.3	35.6	52	15	33	35	38	83	79		.195	.206		.74	.43		6.5	6.8	7.1
March	29.850	30.110	29.310	47.1	49.9	51.7	38.6	45.2	63	32	42	44	46	83	80		.270	.288		4.00	1.19		7.6	7.4	7.2
April	29.788	30.170	29.280	49.1	52.0	54.2	38.5	46.4	68	30	42	43	45	76	73		.274	.283		3.22	.89		7.2	6.7	6.7
May	29.890	30.170	29.470	58.0	61.1	63.2	45.6	54.4	78	40	49	48	49	72	62		.348	.334		1.58	.30		6.6	5.8	6.2
June	29.837	30.140	29.290	62.4	64.8	67.1	51.5	59.3	79	44	54	53	54	74	67		.415	.401		1.65	.66		7.1	6.5	6.5
July	29.869	30.100	29.590	68.3	72.4	74.0	53.6	63.8	83	49	54	52	52	62	50		.427	.389		.20	.12		4.3	2.9	4.1
August	29.853	30.140	29.642	68.7	73.5	75.0	54.8	64.9	84	46	53	52	54	59	48		.409	.386		.37	.30		3.9	3.3	4.6
September	29.823	30.090	29.577	64.7	68.0	69.7	50.3	60.0	81	41	50	49	49	62	53		.368	.349		.08	.06		3.1	3.6	4.5
October	29.901	30.160	29.480	59.3	61.3	63.9	48.0	56.0	72	38	51	50	51	74	68		.372	.369		.82	.22		5.4	6.3	6.5
November	30.103	30.440	29.746	47.6	49.8	52.6	39.7	46.2	60	27	42	43	43	80	77		.266	.277		1.00	.27		7.4	7.1	7.9
December	29.834	30.240	29.080	45.7	47.4	51.2	38.9	45.0	60	30	41	44	44	85	87		.261	.288		6.39	1.37		8.9	7.7	9.0
Year	29.884	30.440	29.080	53.7	56.5	58.6	43.2	50.9	84	15	45	46	48	75	69		.316	.314		22.63	1.37		6.2	5.9	6.6

TAMPA, FLA.

[ϕ=27° 57′ N.; λ=82° 27′ W.]

January	30.079	30.330	29.790	57.6	60.5	64.4	73.9	54.8	64.4	83	39	53	54	55	85	60	73	0.436	0.454	0.463	2.18	1.11	4.5	4.6	4.3	5.6
February	30.012	30.330	29.680	59.9	71.5	66.5	74.5	56.7	65.6	84	43	56	57	58	86	61	74	.466	.488	.499	1.72	1.02	6.1	5.9	5.0	5.4
March	30.011	30.270	29.700	64.6	76.4	70.0	79.2	61.8	70.5	89	51	59	59	58	84	56	67	.523	.507	.508	2.18	1.00	6.0	5.5	3.9	5.1
April	29.985	30.380	29.530	70.2	80.6	74.9	83.6	65.8	74.7	87	58	62	59	63	77	50	68	.581	.520	.584	2.58	1.09	3.3	4.6	4.2	4.6
May	30.045	30.250	29.740	74.1	84.7	77.2	87.4	68.7	78.0	92	54	67	64	66	79	51	70	.671	.614	.658	4.27	1.62	3.5	5.4	5.0	5.1
June	29.949	30.140	29.700	77.6	85.1	78.3	88.5	71.7	80.1	92	67	71	69	70	81	60	77	.764	.715	.744	7.25	2.22	4.6	6.8	7.1	6.7
July	30.045	30.210	29.800	78.8	85.0	79.9	88.5	73.0	80.8	93	68	73	70	72	83	62	78	.816	.736	.785	8.82	3.62	4.0	6.2	7.6	6.1
August	29.972	30.120	29.790	79.5	86.5	79.0	90.0	75.1	82.6	94	71	74	72	73	83	62	81	.831	.778	.802	7.38	1.83	5.2	6.7	7.9	7.0
September	29.895	30.050	29.499	76.4	85.2	77.4	88.0	73.0	80.5	93	70	73	72	73	89	66	85	.808	.793	.802	15.29	3.19	7.0	7.5	7.8	8.0
October	29.951	30.120	29.580	67.8	79.1	72.6	81.3	64.7	73.0	91	53	61	62	62	80	57	71	.559	.573	.578	.69	.29	3.4	4.7	3.4	4.5
November	30.024	30.240	29.830	65.1	76.4	70.2	78.9	62.4	70.6	88	39	60	59	61	85	56	74	.550	.525	.565	.32	.20	4.8	5.5	4.9	5.3
December	30.123	30.470	29.700	53.9	67.4	62.0	71.0	51.2	61.1	80	33	50	51	52	86	58	72	.401	.427	.431	3.25	1.71	5.1	4.8	4.4	5.1
Year	30.008	30.470	29.499	68.8	79.0	72.7	82.1	64.9	73.5	94	33	63	62	64	83	58	74	.617	.594	.618	53.93	3.62	4.8	5.7	5.5	5.8

TATOOSH ISLAND, WASH.

[ϕ=48° 23′ N.; λ=124° 44′ W.]

January	29.965	30.400	29.370	38.3	39.6	39.1	41.3	36.1	38.7	48	20	36	36	35	90	87	86	0.217	0.219	0.212	3.28	1.81	6.4	7.3	5.5	7.3
February	30.104	30.360	29.570	38.7	41.9	41.3	43.2	37.8	40.5	46	32	35	36	36	87	80	81	.208	.215	.213	1.64	.79	4.6	4.7	4.5	5.3
March	29.927	30.220	29.310	42.6	45.4	45.2	47.1	40.8	44.0	52	37	41	41	41	94	86	87	.259	.261	.260	6.40	1.85	5.8	6.7	6.7	7.3
April	29.868	30.310	29.210	42.7	45.9	45.8	47.9	40.7	44.3	56	34	40	41	41	92	85	85	.253	.262	.263	5.54	1.23	7.1	7.8	7.4	8.2
May	30.011	30.270	29.620	46.4	50.8	50.6	52.6	45.7	49.2	58	42	45	47	47	95	88	88	.298	.325	.322	2.77	1.33	7.1	6.4	5.6	8.0
June	29.904	30.310	29.290	51.4	55.1	55.4	57.4	50.6	54.0	64	46	49	51	51	93	86	85	.352	.373	.373	4.43	1.37	8.0	7.6	7.6	8.7
July	29.990	30.221	29.727	53.0	57.5	58.2	60.4	51.7	56.0	68	49	52	54	55	96	89	88	.385	.417	.427	2.37	.73	5.5	5.3	4.4	6.1
August	29.968	30.200	29.750	54.4	58.4	58.8	61.1	52.5	56.8	69	48	54	56	56	98	92	91	.415	.447	.449	1.02	.51	6.9	4.5	4.6	7.0
September	29.933	30.120	29.660	51.5	56.3	56.5	59.9	49.4	54.6	73	43	49	52	51	93	86	84	.352	.389	.379	.07	.05	1.4	2.0	3.2	4.8
October	29.974	30.280	29.550	51.1	54.0	52.5	56.2	49.1	52.6	64	44	50	52	51	96	92	94	.361	.385	.369	7.04	1.77	6.1	6.0	6.5	6.8
November	30.200	30.530	29.810	45.2	47.6	46.2	49.1	43.5	46.3	55	40	44	45	44	96	92	93	.290	.301	.292	4.96	2.14	5.6	6.3	6.0	7.1
December	29.873	30.340	29.200	43.6	44.8	44.0	46.8	41.5	44.2	54	34	41	43	42	91	92	91	.262	.275	.265	10.04	2.32	7.8	8.4	7.6	8.8
Year	29.976	30.530	29.200	46.6	49.8	49.5	51.9	45.0	48.4	73	20	45	46	46	93	88	88	.304	.322	.319	49.56	2.32	6.0	6.1	5.8	7.1

TAYLOR, TEX.

[ϕ=30° 35′ N.; λ=97° 20′ W.]

January	29.481	29.930	29.030	44.7	54.2		60.9	39.0	50.0	75	22	40	39		82	59		0.273	0.266		2.46	1.89	7.0	6.3		6.0
February	29.467	30.000	28.970	37.8	46.6		53.2	34.1	43.6	75	18	34	36		88	70		.216	.225		1.22	.90	6.9	6.6		6.4
March	29.347	29.720	28.880	54.9	67.5		73.5	52.4	63.0	92	32	50	50		83	56		.382	.382		3.30	1.43	6.3	4.6		5.0
April	29.339	29.670	29.000	63.6	76.2		80.5	61.0	70.8	91	49	58	58		82	55		.503	.502		3.47	1.49	6.4	5.7		5.6
May	29.379	29.630	28.990	66.3	79.0		82.8	62.7	72.8	98	47	62	61		87	58		.582	.569		10.34	4.26	7.0	5.4		5.8
June	29.342	29.580	29.140	73.6	87.1		91.4	70.6	81.0	96	65	70	67		89	52		.733	.686		.62	.20	4.5	2.8		3.4
July	29.432	29.590	29.240	75.1	86.7		91.1	72.5	81.8	98	67	72	68		89	56		.778	.695		1.47	.58	4.7	4.3		4.5
August	29.412	29.540	29.230	74.3	91.5		95.7	72.4	84.0	101	67	68	64		83	42		.704	.610		.27	.24	2.8	2.0		2.1
September	29.378	29.570	29.100	68.7	84.8		90.1	67.4	78.8	97	59	64	62		84	49		.598	.577		.65	.63	3.3	3.5		3.3
October	29.444	29.770	28.920	61.2	76.8		81.6	59.0	70.2	97	40	56	54		83	47		.464	.443		3.64	1.43	3.8	3.2		3.5
November	29.548	29.930	29.160	45.0	56.4		60.5	41.7	51.1	79	27	40	40		82	58		.282	.272		5.49	2.34	5.6	5.2		5.6
December	29.589	29.970	29.160	43.8	56.9		61.5	40.3	50.9	79	12	39	42		83	59		.298	.323		1.83	.65	5.0	3.7		4.1
Year	29.430	30.000	28.880	59.1	72.0		76.9	56.1	66.5	101	12	54	53		85	55		.483	.461		34.76	4.26	5.3	4.4		4.6

Annual meteorological summary for the year ending December 31, 1929—Continued

TACOMA, WASH.

[H_b=194 ft.; h_t=172 ft.; h_r=165 ft.; h_a=201 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	Maximum temperature: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	6.7	N.	34	N.	2	11	1	2	6	3	6	0	2	0	1	6	24	14	11	9	7	0	8	6	0	22	0	0
February	6.9	S.	31	NE.	0	5	3	1	3	3	7	4	2	0	4	10	14	10	6	1	1	0	6	1	0	16	0	0
March	7.9	SW.	35	SW.	1	1	2	0	2	5	12	7	2	0	2	13	16	17	11	1	0	0	2	0	0	0	0	0
April	8.3	W.	41	SW.	1	1	0	0	1	3	7	13	5	0	2	15	13	17	13	4	1	2	2	0	0	2	0	0
May	7.0	W.	29	SW.	0	6	0	0	0	2	5	14	4	0	5	13	13	13	11	0	0	1	2	0	0	0	1	0
June	7.3	W.	37	SW.	1	10	0	0	0	2	6	12	0	0	4	13	13	10	8	0	0	0	0	0	0	0	0	0
July	7.4	N.	29	SW.	0	15	0	0	0	0	5	10	1	0	12	17	2	5	1	0	0	0	0	0	0	0	0	0
August	5.9	N.	26	N.	0	17	0	0	0	0	4	9	1	0	11	17	3	4	2	0	0	0	2	0	0	0	1	0
September	5.2	N.	23	N.	0	20	0	1	1	0	2	2	4	0	15	7	8	2	1	0	0	0	2	0	0	0	0	0
October	5.5	N.	28	S.	0	13	1	0	1	5	3	6	2	0	1	20	10	10	7	0	0	0	10	0	0	0	0	0
November	4.8	N.	37	SW.	1	11	3	2	2	4	4	2	2	0	1	13	16	9	7	0	0	0	11	0	0	2	0	0
December	7.7	S.	44	S.	1	4	2	1	0	14	7	2	1	0	0	5	26	21	18	2	0	0	5	0	0	1	0	0
Year	6.7	N.	44	S.	7	114	12	7	16	41	68	81	26	0	58	149	158	132	96	17	9	3	50	7	0	43	2	0

TAMPA, FLA.

[H_b=35 ft.; h_t=79 ft.; h_r=71 ft.; h_a=197 ft.]

January	5.5	NE.	17	NW.	0	7	18	5	5	8	8	4	6	1	9	9	13	7	7	0	0	0	7	0	0	0	2	0
February	5.7	NE.	18	E.	0	5	14	2	5	11	9	3	7	0	4	10	14	7	6	0	0	0	2	0	0	0	1	0
March	6.3	E.	24	E.	0	3	16	8	6	5	4	13	6	1	9	11	11	7	7	0	0	0	4	0	0	0	1	0
April	5.9	SW.	28	W.	0	3	8	12	6	4	11	13	3	0	11	13	6	6	4	0	0	0	2	0	0	0	5	0
May	6.1	E.	24	SW.	0	2	18	19	4	7	4	4	4	0	8	18	5	11	7	0	0	0	0	0	6	0	11	0
June	4.7	E.	25	SE.	0	5	12	18	9	1	3	8	3	1	4	8	18	16	16	0	0	0	0	0	10	0	22	0
July	4.7	E.	24	E.	0	1	4	26	5	4	10	8	4	0	6	16	9	15	14	0	0	0	0	0	12	0	24	0
August	4.3	NE.	20	E.	0	2	14	17	7	2	6	12	2	0	1	14	16	20	17	0	0	0	0	0	16	0	21	0
September	6.0	NE.	33	E.	1	3	29	9	8	5	2	1	3	0	1	9	20	22	21	0	0	0	0	0	7	0	19	0
October	6.3	NE.	23	SW.	0	3	32	7	1	1	2	8	8	0	13	12	6	6	3	0	0	0	0	1	0	0	1	0
November	5.6	NE.	17	NE.	0	9	22	16	2	0	6	3	2	0	6	16	8	6	3	0	0	0	1	0	0	0	0	0
December	5.9	NE.	16	N.	0	12	25	6	1	4	2	4	8	0	11	10	10	7	4	0	0	0	6	0	0	0	1	0
Year	5.6	NE.	33	E.	1	55	212	145	59	52	67	81	56	3	83	146	136	130	109	0	0	0	22	0	52	0	108	0

TATOOSH ISLAND, WASH.

[H_b=86 ft.; h_t=9 ft.; h_r=4 ft.; h_a=53 ft.]

January	16.1	E.	55	E.	13	1	6	32	4	5	3	7	4	0	5	8	18	12	7	8	4	0	0	4	0	8	0	0
February	13.3	E.	42	NW.	6	2	1	28	0	9	4	10	2	0	9	7	12	10	6	1	0	0	0	0	1	0	0	0
March	13.2	S.	54	S.	11	1	2	9	3	15	12	11	7	2	6	6	19	21	18	0	0	0	3	0	0	0	0	0
April	12.7	W.	60	S.	7	1	1	11	4	12	13	17	0	1	2	4	24	22	16	2	1	0	0	0	0	0	0	0
May	8.5	SW.	34	S.	1	0	3	4	2	14	15	20	2	2	3	5	23	6	6	0	0	0	7	0	0	0	0	0
June	9.0	W.	47	W.	2	1	2	8	2	18	8	18	1	2	0	7	23	15	9	0	0	0	3	0	0	0	0	0
July	8.5	S.	35	S.	1	2	6	2	1	26	12	5	3	5	8	9	14	11	8	0	0	0	6	0	0	0	0	0
August	7.8	S.	27	S.	0	0	1	8	1	22	15	14	1	0	4	11	16	7	5	0	0	0	19	0	0	0	0	0
September	8.6	NE.	41	NE.	1	3	14	10	0	14	10	8	0	1	12	8	10	4	0	0	0	0	13	0	0	0	0	0
October	14.8	E.	43	E.	8	0	12	21	1	17	7	1	2	1	7	7	17	19	13	0	0	0	3	0	0	0	0	0
November	12.8	E.	38	E.	5	1	16	29	1	6	1	3	2	1	5	8	17	11	9	0	0	0	7	0	0	0	0	0
December	18.8	E.	57	E.	17	1	3	25	3	10	8	10	2	0	3	5	23	24	20	3	3	1	1	0	0	0	0	0
Year	12.0	E.	60	S.	72	13	67	187	22	168	108	124	26	15	64	85	216	162	117	14	8	1	62	4	0	9	0	0

TAYLOR, TEX.

[H_b=583 ft.; h_t=55 ft.; h_r=48 ft.; h_a=63 ft.]

January	7.7	S.	28	S.	0	7	2	2	2	6	3	2	7	0	8	10	13	9	4	0	0	1	0	0	0	9	1	0
February	8.2	N.	24	NW.	0	11	2	0	2	4	2	0	7	0	7	6	15	6	4	1	0	1	0	1	0	10	0	0
March	8.1	S.	32	S.	0	0	1	2	4	11	1	2	10	0	9	16	6	12	9	0	0	0	0	1	1	5	0	0
April	9.2	SE.	30	SW.	0	4	4	2	6	8	0	0	6	0	5	16	9	5	5	0	0	0	0	1	0	7	0	0
May	9.0	SE.	34	NW.	1	3	0	4	7	8	3	1	5	0	5	17	9	12	9	0	0	0	0	0	4	0	11	0
June	7.0	S.	29	E.	0	1	0	2	4	13	7	1	2	0	13	16	1	5	5	0	0	0	0	0	22	0	4	0
July	6.6	S.	26	SE.	0	2	3	3	5	10	6	1	1	0	14	10	7	5	5	0	0	0	0	0	31	0	3	0
August	5.9	S.	28	SE.	0	0	2	1	3	12	9	0	3	1	24	7	0	2	1	0	0	0	0	0	16	0	3	0
September	5.8	S.	16	S.	0	8	2	2	3	4	4	0	6	1	17	10	3	2	1	0	0	0	0	0	3	0	4	0
October	5.7	NW.	30	NW.	0	3	1	2	4	6	2	2	11	0	17	9	5	6	6	0	0	0	1	0	3	0	4	0
November	7.0	N.	24	NW.	0	7	2	1	0	2	4	4	10	0	11	7	12	9	8	0	0	0	0	0	0	4	3	0
December	7.4	S.	28	NW.	0	1	0	2	3	11	3	2	8	1	15	6	10	8	6	2	2	0	0	1	0	10	3	0
Year	7.3	S.	34	NW.	1	47	19	23	43	95	44	15	76	3	145	130	90	81	63	3	3	1	2	2	98	34	50	0

Annual meteorological summary for the year ending December 31, 1929—Continued

TERRE HAUTE, IND.
[ϕ=39° 29′ N.; λ=87° 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.				
January	29.469	29.900	28.670	22.1	26.8	27.6	35.2	15.7	25.4	60	0	16	18	20	76	68	71	0.104	0.113	0.120	4.75	1.14	6.6	5.5	5.3	6.4
February	29.494	29.970	28.900	21.1	29.3	29.5	34.8	18.6	26.7	56	−2	17	21	23	84	69	75	.105	.117	.127	1.02	.54	5.7	6.8	5.9	6.3
March	29.325	29.980	28.700	42.0	53.1	51.1	58.3	39.2	48.8	85	17	37	38	38	83	58	64	.236	.255	.253	3.63	1.16	6.7	6.1	5.0	6.0
April	29.297	29.700	28.660	50.1	60.7	59.1	65.7	46.7	56.2	84	33	43	42	44	78	54	60	.298	.293	.310	5.99	1.77	6.5	6.0	6.8	6.2
May	29.439	29.810	28.600	55.8	64.8	63.7	69.1	51.1	60.1	88	34	50	49	51	81	59	64	.387	.378	.398	8.95	3.23	6.3	6.6	6.4	6.5
June	29.353	29.573	29.070	65.6	76.5	74.5	80.6	61.1	70.8	92	43	58	56	59	76	50	60	.489	.460	.513	3.61	1.08	3.3	6.0	4.9	5.0
July	29.426	29.640	29.180	70.7	81.7	81.0	85.9	67.2	76.6	95	51	63	62	64	77	54	58	.585	.575	.609	3.08	.94	4.5	5.5	4.8	4.9
August	29.422	29.650	29.010	66.1	80.0	77.5	83.5	63.1	73.3	95	53	59	57	60	78	47	56	.510	.481	.531	.45	.19	4.3	4.4	4.5	4.4
September	29.444	29.720	29.170	59.4	72.5	69.7	76.4	57.3	66.8	91	40	54	56	57	85	58	65	.449	.467	.484	2.72	.74	5.0	4.9	4.4	5.1
October	29.438	29.790	28.990	47.9	59.6	57.5	63.9	46.0	55.0	80	33	43	42	44	84	58	63	.289	.285	.299	3.54	1.06	5.1	5.8	4.4	5.3
November	29.493	29.970	28.870	34.5	42.6	40.5	47.1	32.9	40.0	64	0	31	32	31	87	68	70	.190	.204	.191	2.55	.85	6.6	6.7	5.7	6.2
December	29.445	29.960	29.050	28.6	34.2	34.4	39.8	25.3	32.6	64	−2	26	28	30	88	80	84	.159	.179	.187	3.98	1.46	6.6	7.3	6.1	6.9
Year	29.420	29.980	28.600	47.0	56.8	55.5	61.7	43.7	52.7	95	−2	41	42	43	81	60	66	.317	.317	.335	44.27	3.23	5.6	6.0	5.4	5.8

THOMASVILLE, GA.
[ϕ=30° 48′ N.; λ=83° 58′ W.]

January	29.830	30.170	29.470	48.9	59.9	56.7	65.4	46.2	55.8	79	28	45	46	47	86	64	71	0.337	0.359	0.360	4.93	2.04	5.2	5.5	4.6	5.5
February	29.765	30.119	29.410	48.7	59.5	57.7	65.0	45.4	55.2	78	30	44	46	45	86	63	66	.328	.345	.340	3.71	1.28	6.2	7.4	6.1	7.0
March	29.750	30.083	29.300	57.1	70.2	66.3	74.9	54.1	64.5	92	40	51	49	51	80	50	60	.403	.384	.402	5.48	3.64	5.1	5.3	4.2	5.5
April	29.717	30.150	29.190	64.6	76.1	71.2	79.9	61.1	70.5	86	47	57	56	57	78	51	63	.492	.462	.481	4.40	1.74	5.7	6.3	4.9	5.9
May	29.795	30.080	29.320	70.5	79.9	75.3	83.8	64.1	74.0	92	49	64	62	63	80	58	67	.611	.556	.582	3.92	1.99	4.1	7.6	5.4	6.3
June	29.698	29.890	29.400	73.6	82.8	77.0	86.9	68.3	77.6	96	58	69	66	67	85	60	71	.704	.653	.665	6.66	1.80	5.3	6.8	7.3	6.8
July	29.788	29.960	29.520	75.3	84.3	77.4	88.4	70.1	79.2	96	67	71	69	70	86	61	79	.749	.709	.736	6.54	1.25	5.5	7.0	8.2	7.0
August	29.716	29.921	29.500	75.7	85.8	78.5	89.6	71.0	80.3	94	65	72	70	72	89	61	81	.786	.744	.785	11.68	2.77	5.4	7.0	6.5	6.7
September	29.680	29.890	29.150	71.2	81.3	74.7	84.3	68.8	76.6	92	57	68	68	69	90	65	83	.705	.699	.721	6.53	3.67	7.9	7.8	7.1	8.1
October	29.730	30.020	29.840	60.4	74.3	67.7	77.6	57.3	67.4	86	44	55	54	56	83	52	68	.456	.445	.468	2.39	.76	4.7	4.1	2.0	4.0
November	29.802	30.060	29.520	55.2	65.9	61.0	69.1	52.7	60.9	86	24	52	51	52	89	61	72	.424	.407	.413	1.73	1.00	6.8	6.6	4.6	6.5
December	29.887	30.240	29.288	43.2	57.6	53.0	62.5	40.5	51.5	78	20	38	40	42	83	56	67	.263	.295	.297	2.82	1.39	4.3	5.2	4.1	5.0
Year	29.764	30.240	28.840	62.0	73.1	68.0	77.3	58.3	67.8	96	20	57	56	58	85	58	71	.522	.505	.521	60.79	3.67	5.5	6.4	5.4	6.2

TOLEDO, OHIO
[ϕ=41° 40′ N.; λ=83° 34′ W.]

January	29.370	29.920	28.500	20.1	24.1	24.0	31.2	15.0	23.1	55	−3	15	16	17	78	68	73	0.095	0.098	0.106	3.72	1.08	7.1	7.3	5.6	6.6
February	29.420	29.890	28.890	20.3	27.2	26.0	31.0	17.4	24.2	55	−1	15	18	18	78	66	71	.093	.105	.105	1.08	.35	8.0	6.4	6.1	6.6
March	29.248	29.890	28.341	37.8	46.4	45.8	52.2	34.4	43.3	76	11	31	34	36	77	63	69	.192	.218	.232	2.76	.72	6.5	5.8	6.0	5.6
April	29.237	29.670	28.520	46.6	54.3	52.7	59.2	42.5	50.8	83	29	39	40	41	76	61	67	.258	.286	.279	7.13	2.93	5.5	6.8	5.8	5.7
May	29.384	29.890	28.460	52.4	61.8	59.8	66.0	47.9	57.0	91	34	44	46	47	74	58	65	.311	.341	.358	3.62	1.61	4.9	5.8	5.5	4.7
June	29.305	29.530	28.860	62.4	72.1	70.1	75.8	57.1	66.4	90	38	54	54	56	75	55	62	.440	.443	.464	3.03	.88	4.3	5.6	4.2	4.2
July	29.368	29.690	29.070	69.4	79.1	76.0	82.7	64.5	73.6	94	50	60	60	61	72	52	61	.530	.532	.556	3.98	2.47	3.7	3.5	4.4	3.3
August	29.370	29.670	28.930	63.3	74.8	72.2	78.2	59.8	69.0	90	52	54	54	56	74	50	58	.434	.433	.459	1.30	.53	3.1	4.3	4.4	3.9
September	29.418	29.727	29.060	58.7	69.7	66.3	72.7	55.8	64.2	90	42	52	52	54	80	57	67	.412	.418	.439	3.21	1.10	4.5	5.0	4.3	4.7
October	29.363	29.940	28.490	46.4	56.4	53.6	58.9	43.6	51.2	72	34	40	41	42	80	61	68	.259	.276	.278	5.70	3.01	5.1	5.7	5.4	5.1
November	29.384	29.880	28.840	34.5	40.3	38.4	43.2	32.0	37.6	65	2	30	31	31	83	69	75	.184	.194	.192	3.77	1.25	6.1	5.9	5.5	6.0
December	29.342	29.850	28.820	27.4	30.0	29.5	33.9	24.0	29.0	53	5	24	24	25	84	78	82	.131	.137	.142	3.42	1.20	8.9	8.6	8.9	8.5
Year	29.351	29.940	28.341	44.9	53.0	51.2	57.1	41.2	49.1	94	−3	38	39	40	78	62	68	.278	.288	.301	42.72	3.01	5.6	5.9	5.4	5.4

TOPEKA, KANS.
[ϕ=39° 03′ N.; λ=95° 41′ W.]

January				16.5			30.4	11.7	21.0	48	0										2.42	1.11				6.0
February				18.0			31.5	15.4	23.4	53	−7										1.26	.64				5.6
March				39.1			58.5	37.6	48.0	88	22										2.01	1.38				5.3
April				50.3			66.6	47.8	57.2	88	30										5.26	3.11				5.2
May				55.6			70.1	52.4	61.2	83	35										5.96	2.13				6.4
June				66.5			81.8	63.0	72.4	95	50										3.18	1.22				4.1
July				71.7			88.6	69.5	79.0	101	61										1.70	.83				3.5
August				69.7			89.5	67.4	78.4	103	53										2.64	2.01				3.9
September				59.3			78.0	57.2	67.6	94	46										1.49	.53				4.8
October				50.1			68.6	48.5	58.6	84	33										5.96	1.47				4.9
November				32.4			45.2	29.8	37.5	63	10										.56	.30				5.4
December				27.8			43.4	24.4	33.9	68	−1										.37	.32				4.8
Year				46.4			62.7	43.7	53.2	103	−7										32.81	3.11				5.0

Annual meteorological summary for the year ending December 31, 1929—Continued

TERRE HAUTE, IND.

[H_b=575 ft.; h_t=96 ft.; h_r=86 ft.; h_a=129 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	9.5	NW.	35	W.	1	8	9	6	3	11	6	8	11	0	8	9	14	15	11	16	7	0	3	14	0	30	2	0
February	7.4	NW.	22	S.	0	8	6	4	5	9	12	3	11	0	7	9	12	10	6	12	8	0	1	11	0	25	0	0
March	10.6	S.	38	NW.	2	7	3	3	6	22	9	5	7	0	9	11	11	13	10	5	1	0	1	0	0	8	4	0
April	11.3	S.	34	W.	2	13	6	4	2	22	6	6	1	0	5	13	12	14	13	1	0	0	0	0	0	0	8	0
May	8.5	S.	31	W.	0	12	12	4	5	16	8	2	3	0	6	13	12	11	11	1	1	0	1	0	0	0	10	0
June	7.5	S.	24	W.	0	8	13	5	2	14	11	4	3	0	9	17	4	7	6	0	0	1	0	0	1	0	9	0
July	6.6	SW.	26	W.	0	5	10	10	3	12	19	1	2	0	10	18	3	9	8	0	0	0	0	0	10	0	12	0
August	6.0	N.	23	N.	0	11	12	8	9	4	8	0	10	0	14	11	6	6	5	0	0	0	1	0	4	0	5	0
September	6.7	S.	32	SW.	0	11	12	8	5	12	3	1	8	0	13	4	13	10	6	0	0	0	1	0	2	0	3	0
October	8.3	SW.	28	NW.	0	11	8	6	5	10	12	3	7	0	14	4	13	11	10	2	1	0	1	0	0	0	1	0
November	7.7	NW.	35	W.	1	14	4	2	2	10	8	8	12	0	8	9	13	8	5	3	1	0	1	4	0	11	1	0
December	8.9	SW.	38	N.	1	6	4	4	3	11	20	10	4	0	6	8	17	13	10	8	6	0	4	9	0	20	0	0
Year	8.2	S.	38	NW.	7	112	99	64	50	153	122	51	79	0	109	126	130	127	101	48	25	1	14	38	17	94	55	0

THOMASVILLE, GA.

[H_b=273 ft.; h_t=49 ft.; h_r=41 ft.; h_a=58 ft.]

January	4.3	SW.	19	SW.	0	8	9	8	1	12	7	4	8	5	10	8	13	10	9	0	0	0	2	0	0	3	1	0
February	4.8	NE.	19	SW.	0	7	13	9	2	9	3	1	11	1	4	8	16	11	10	0	0	0	0	0	0	1	2	0
March	5.2	SW.	26	SW.	0	4	13	9	0	11	11	8	5	1	10	11	10	10	7	0	0	0	1	0	1	0	3	0
April	4.5	SW.	20	SW.	0	2	6	6	1	23	11	4	5	2	9	8	13	8	5	0	0	1	0	0	0	0	5	0
May	4.1	E.	19	SW.	0	3	7	21	4	10	8	4	5	0	4	18	9	8	7	0	0	1	0	0	2	0	11	0
June	3.1	E.	16	NW.	0	4	9	18	1	9	10	5	3	1	4	14	12	16	16	0	0	0	0	0	7	0	16	0
July	3.2	E.	19	SW.	0	5	14	14	0	6	17	3	2	1	1	21	9	20	15	0	0	0	0	0	11	0	19	0
August	3.2	SW.	17	SW.	0	5	12	8	2	11	15	5	0	4	1	18	12	19	17	0	0	0	0	0	18	0	16	0
September	4.1	NE.	18	NE.	0	2	23	20	2	3	6	1	1	2	1	8	21	17	15	0	0	0	0	0	4	0	11	0
October	4.4	NE.	21	NW.	0	2	21	13	1	1	7	5	12	0	15	8	8	4	4	0	0	0	0	0	0	0	0	0
November	4.0	NE.	13	NE.	0	5	15	11	2	9	3	7	7	1	7	5	18	4	3	0	0	0	1	0	0	1	0	0
December	3.8	NW.	22	SW.	0	3	15	10	1	2	10	5	15	1	13	7	11	7	6	1	0	0	3	0	0	10	1	0
Year	4.1	SW.	26	SW.	0	50	157	147	17	106	108	52	74	19	79	134	152	134	114	1	0	2	7	0	43	15	85	0

TOLEDO, OHIO

[H_b=628 ft.; h_t=208 ft.; h_r=201 ft.; h_a=243 ft.]

January	14.1	W.	49	W.	6	0	5	6	2	6	16	20	7	0	6	10	15	19	13	22	14	0	1	17	0	30	0	0
February	10.4	SW.	40	SW.	2	10	2	8	2	2	13	9	10	0	6	8	14	8	6	17	6	0	1	16	0	24	0	0
March	14.3	SW.	56	W.	5	8	1	4	3	10	22	5	9	0	9	13	9	20	13	4	3	0	2	1	0	9	4	0
April	14.9	SW.	58	SW.	6	9	5	6	3	5	15	11	6	0	11	6	13	14	10	1	0	1	0	0	0	2	6	0
May	12.1	SW.	40	SW.	5	10	5	7	3	4	13	12	8	0	13	10	8	15	12	0	0	0	0	0	1	0	7	0
June	10.6	SW.	49	W.	2	11	7	6	1	7	14	7	7	0	15	10	5	9	8	0	0	0	0	0	1	0	9	0
July	10.8	SW.	40	NW.	4	8	1	10	5	4	22	3	9	0	16	13	2	11	9	0	0	0	0	0	4	0	9	0
August	9.2	SW.	29	W.	0	15	2	9	3	6	15	8	4	0	16	9	6	6	5	0	0	0	0	0	1	0	4	0
September	9.9	E.	36	W.	2	11	3	15	1	10	15	5	0	0	12	8	10	12	10	0	0	0	1	0	0	0	4	0
October	13.5	SW.	43	SW.	2	13	1	6	2	8	14	10	8	0	15	2	14	11	9	1	1	0	0	0	0	0	0	0
November	12.6	SW.	35	SW.	2	11	1	2	0	8	16	17	5	0	10	7	13	16	9	11	5	0	0	5	0	11	0	0
December	13.6	SW.	46	N.	3	8	5	4	1	4	29	6	5	0	2	5	24	15	10	17	10	0	0	12	0	24	0	0
Year	12.2	SW.	58	SW.	39	114	38	83	26	74	204	113	78	0	131	101	133	156	114	73	39	1	5	51	7	100	43	0

TOPEKA, KANS.

[H_b=987 ft.; h_t=92 ft.; h_r=83 ft.; h_a=107 ft.]

January	9.2	N.	33	N.	1	6	5	2	1	3	4	3	7	0	10	8	13	9	6	10	6	0	4	17	0	31	0	0
February	7.8	N.	27	N.	0	7	3	1	3	3	4	5	2	0	7	11	10	11	5	16	10	0	2	14	0	27	0	0
March	9.5	SW.	40	NW.	1	4	2	1	3	4	10	1	6	0	11	10	10	7	4	2	1	1	0	0	0	9	3	0
April	10.8	SW.	35	N.	1	6	3	3	1	6	6	2	3	0	13	6	11	10	9	0	0	1	0	0	0	1	9	0
May	8.7	NE.	31	N.	0	4	7	2	6	9	2	0	0	1	7	7	17	13	11	0	0	0	0	0	0	0	6	0
June	8.4	SW.	37	E.	3	1	3	3	4	8	6	1	4	0	15	10	5	9	8	0	0	1	1	0	5	0	10	0
July	7.7	SW.	24	SW.	0	1	3	0	8	6	10	2	1	0	17	10	4	7	6	0	0	0	0	0	12	0	5	0
August	7.1	S.	24	NE.	0	4	2	4	6	8	4	3	0	0	14	13	4	7	7	0	0	0	0	0	14	0	9	0
September	7.8	S.	36	SE.	1	3	4	1	6	7	2	1	5	1	12	11	7	6	5	0	0	0	0	0	3	0	6	0
October	7.3	SW.	26	E.	0	2	2	6	4	4	6	2	5	0	12	8	11	12	11	0	0	1	2	0	0	0	8	0
November	8.4	SW.	31	NW.	0	5	5	2	3	0	7	2	6	0	11	8	11	6	3	7	2	0	0	3	0	15	0	0
December	7.5	NW.	31	N.	0	5	1	1	3	2	8	9	4	0	13	9	9	2	2	4	1	0	0	6	0	17	0	0
Year	8.4	SW.	40	NW.	7	48	40	26	48	60	67	31	43	2	142	111	112	99	77	39	20	4	15	40	34	100	56	0

Annual meteorological summary for the year ending December 31, 1929—Continued

TRENTON, N. J.

[ϕ=40° 13′ N.; λ=74° 46′ 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.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.856	30.460	29.090	28.5	34.5	31.2	39.8	23.6	31.7	63	7	22	23	21	73	62	64	0.130	0.135	0.124	3.06	0.99	5.4	6.3	4.0	5.8
February	29.885	30.250	29.400	27.1	36.7	34.1	41.3	24.6	33.0	58	14	21	24	24	77	59	67	.121	.132	.136	3.51	1.46	4.4	4.5	5.2	5.2
March	29.748	30.269	28.761	41.8	51.7	46.6	56.0	36.0	46.0	77	11	33	35	34	72	55	64	.217	.229	.223	2.34	.97	5.0	6.0	3.0	5.6
April	29.695	30.202	28.789	48.1	57.1	53.0	61.5	42.8	52.2	88	34	39	42	42	72	60	71	.248	.279	.283	5.34	1.48	7.1	6.8	5.5	6.8
May	29.861	30.340	28.800	58.4	67.6	62.6	72.3	50.8	61.6	91	41	50	51	50	74	57	66	.379	.406	.388	3.53	2.08	6.4	6.4	5.4	6.1
June	29.740	29.920	29.383	67.4	77.2	71.7	81.3	60.4	70.8	94	45	57	57	58	71	51	64	.495	.488	.507	3.53	1.27	5.4	5.7	4.7	5.3
July	29.826	30.180	29.440	71.5	80.7	76.0	84.5	64.6	74.6	94	53	61	59	61	70	49	62	.548	.523	.562	.63	.20	5.4	6.5	4.6	5.8
August	29.783	30.117	29.340	66.9	77.5	72.4	80.9	60.8	70.8	93	55	57	56	58	72	49	63	.486	.488	.506	2.64	1.43	5.0	5.3	4.9	5.1
September	29.897	30.260	29.570	63.0	73.6	68.1	77.6	57.9	67.8	93	41	56	57	58	80	59	72	.483	.500	.506	7.14	3.60	5.1	5.2	4.6	5.6
October	29.944	30.530	29.190	48.2	59.3	54.4	62.3	44.1	53.2	75	34	41	43	43	76	58	68	.271	.302	.297	3.51	1.37	4.8	5.1	3.5	5.2
November	29.859	30.294	29.030	42.1	49.1	45.6	52.1	38.5	45.3	76	12	36	36	36	78	61	69	.240	.246	.237	2.24	.78	5.7	6.7	5.3	6.5
December	29.860	30.436	29.322	30.8	37.8	35.5	42.2	27.8	35.0	60	14	25	28	27	79	67	72	.147	.166	.161	3.08	1.41	5.9	5.7	4.7	6.6
Year	29.821	30.530	28.761	49.5	58.6	54.3	62.6	44.3	53.5	95	7	42	43	43	74	57	67	.314	.323	.328	40.55	3.60	5.5	5.8	4.6	5.8

VALENTINE, NEBR.

[ϕ=42° 50′ N.; λ=100° 32′ W.]

January	27.283	27.720	26.590	5.9	16.2	14.1	23.5	−1.3	11.1	53	−24	2	9	8	85	71	77	0.051	0.070	0.066	1.13	0.24	6.2	5.7	4.1	6.0
February	27.286	27.620	26.860	8.2	20.4	18.1	26.3	2.2	14.2	44	−22	6	12	13	89	70	78	.059	.077	.081	1.03	.27	5.4	5.6	5.1	5.6
March	27.127	27.640	26.490	30.3	43.4	42.5	48.7	27.1	37.9	71	13	26	26	27	82	53	56	.138	.139	.144	2.56	.85	5.2	4.5	5.1	5.2
April	27.143	27.420	26.560	37.0	53.6	53.3	58.4	34.9	45.6	82	11	32	29	32	80	45	49	.183	.164	.181	2.44	1.30	5.0	4.8	6.0	5.5
May	27.294	27.730	26.660	47.0	61.5	62.6	66.6	44.4	55.5	85	29	40	35	38	78	44	43	.258	.227	.238	3.08	.53	5.4	4.2	4.2	4.8
June	27.239	27.540	26.760	57.3	72.7	72.6	77.5	53.1	65.3	102	42	50	50	49	79	49	49	.371	.369	.363	3.69	1.29	4.8	4.3	5.0	5.0
July	27.306	27.520	26.990	66.4	83.1	82.0	87.9	63.6	75.8	101	47	59	58	56	78	45	43	.511	.504	.466	5.49	3.69	5.7	3.6	3.8	4.0
August	27.326	27.550	27.059	62.0	82.5	83.4	88.6	60.5	74.6	102	42	55	56	55	78	41	40	.439	.451	.442	2.60	.97	3.4	3.5	4.2	3.7
September	27.316	27.640	26.880	49.5	61.8	60.7	67.1	46.2	56.6	98	34	44	43	44	82	56	58	.297	.290	.298	2.10	.80	7.0	5.6	5.3	6.0
October	27.341	27.720	26.890	39.8	59.5	55.0	63.5	37.1	50.3	86	26	35	36	36	82	48	54	.208	.219	.221	3.01	1.11	3.6	4.9	4.9	4.6
November	27.382	27.910	26.870	24.4	35.6	31.8	39.5	19.6	29.6	58	1	20	25	24	83	67	74	.110	.136	.133	1.37	.36	4.1	6.4	5.6	6.0
December	27.322	27.920	26.870	20.3	31.8	27.1	37.8	15.4	26.6	65	−12	16	21	19	84	67	74	.096	.116	.110	.41	.16	2.3	4.6	2.3	4.5
Year	27.281	27.920	26.490	37.3	51.8	50.3	57.1	33.6	45.3	102	−24	32	33	33	82	55	58	.227	.230	.229	28.91	3.69	4.8	4.8	4.6	5.1

VICKSBURG, MISS.

[ϕ=32° 22′ N.; λ=90° 53′ W.]

January	29.847	30.280	29.360	43.9	53.6	52.6	59.3	40.1	49.7	76	22	38	42	40	80	67	65	0.293	0.311	0.289	4.78	1.26	5.3	6.0	5.3	5.5
February	29.814	30.270	29.350	38.7	47.4	48.1	52.5	36.5	44.5	80	22	34	37	37	82	70	67	.206	.237	.230	3.64	1.08	6.9	7.4	6.7	7.1
March	29.715	30.170	29.320	53.8	65.7	65.5	70.7	51.8	61.2	92	34	48	49	49	80	58	59	.357	.384	.378	8.86	3.21	6.2	4.6	4.9	5.0
April	29.699	30.090	29.340	61.7	72.6	71.4	76.2	60.0	68.1	84	51	58	60	58	87	65	63	.493	.532	.492	4.82	1.90	6.8	4.9	5.9	5.6
May	29.780	30.000	29.280	67.1	76.8	73.9	80.7	64.3	72.5	90	47	62	64	63	85	66	70	.582	.620	.593	3.32	1.37	6.7	4.9	6.8	5.5
June	29.705	29.910	29.480	73.0	82.7	81.3	86.6	69.7	78.2	93	60	67	69	68	82	63	65	.668	.705	.686	2.40	1.48	4.2	4.6	4.5	4.3
July	29.788	29.910	29.520	75.3	85.9	83.5	89.9	72.4	81.2	94	68	70	71	70	84	61	66	.730	.755	.739	3.12	.99	5.2	4.0	6.0	4.4
August	29.745	29.920	29.529	73.6	86.1	84.3	89.7	71.4	80.6	97	63	67	68	69	80	56	62	.667	.692	.725	1.33	1.04	3.5	2.5	4.2	2.9
September	29.719	29.900	29.540	68.3	81.4	77.8	84.7	66.8	75.8	92	55	64	66	66	86	60	68	.605	.650	.644	.34	.30	3.8	4.8	3.7	4.3
October	29.781	30.050	29.410	59.0	71.9	68.4	75.5	57.2	66.4	85	42	52	52	53	79	52	61	.408	.417	.432	2.55	1.50	3.6	4.2	3.6	4.0
November	29.874	30.210	29.510	47.1	54.9	52.7	58.5	45.1	51.8	78	26	43	42	44	86	66	74	.309	.312	.318	8.31	3.22	7.1	6.9	6.6	6.8
December	29.932	30.320	29.420	42.4	52.1	51.9	57.5	40.5	49.0	75	19	37	39	38	81	63	61	.261	.285	.269	2.89	.93	5.5	5.5	4.0	5.6
Year	29.783	30.320	29.280	58.7	69.3	67.6	73.5	56.3	64.9	97	19	53	55	55	83	62	65	.462	.492	.483	46.86	3.22	5.4	5.0	5.2	5.1

WALLA WALLA, WASH.

[ϕ=46° 02′ N.; λ=118° 20′ W.]

January	29.072	29.580	28.334	20.3	22.9	22.9	26.7	16.9	21.8	49	−4	18	18	20	91	81	87	0.105	0.109	0.112	2.37	0.51	7.8	8.6	8.5	8.6
February	29.158	29.650	28.810	21.6	27.7	28.1	31.2	18.2	24.7	49	−10	16	17	20	78	63	71	.102	.104	.116	.39	.23	6.2	6.4	6.1	6.4
March	28.932	29.200	28.354	42.3	51.4	53.6	50.2	39.2	47.7	72	32	33	32	32	69	49	43	.186	.187	.180	.56	.13	6.4	8.4	5.7	8.9
April	28.872	29.240	28.511	42.7	54.1	57.3	59.7	40.8	50.2	75	32	31	29	30	64	40	37	.173	.163	.167	.57	.47	6.3	6.9	5.6	8.7
May	28.935	29.230	28.470	50.4	66.3	70.1	72.1	48.8	60.4	89	41	38	37	35	63	36	31	.231	.225	.214	.80	.66	4.4	5.0	3.8	4.5
June	28.869	29.340	28.490	56.9	71.1	75.2	77.4	55.2	66.3	97	45	44	44	42	65	40	35	.298	.290	.278	1.57	.44	4.8	4.6	4.1	4.4
July	28.907	29.160	28.580	62.0	80.5	86.8	88.1	60.8	74.4	106	53	41	40	39	47	25	20	.262	.254	.241	T.	T.	.9	1.6	1.6	1.7
August	28.881	29.230	28.660	65.4	84.3	89.7	91.5	63.7	77.6	101	51	42	41	39	44	22	18	.274	.264	.241	.03	.03	1.2	1.2	1.8	1.6
September	28.927	29.170	28.620	53.8	68.8	72.6	74.6	51.4	63.0	93	40	37	36	36	55	33	30	.221	.216	.215	.47	.45	2.9	3.5	3.0	3.7
October	29.035	29.340	28.580	48.8	61.8	64.3	67.7	44.9	56.3	84	33	36	34	37	63	37	37	.219	.203	.225	1.12	.94	2.0	3.8	3.2	3.3
November	29.236	29.610	28.850	35.2	44.6	44.6	49.4	31.0	40.2	65	17	29	29	30	76	56	57	.161	.164	.170	.11	.06	2.3	4.7	4.0	4.4
December	29.010	29.420	28.290	38.6	41.0	41.0	46.1	33.9	40.0	62	18	30	33	33	74	75	77	.166	.188	.193	3.20	.87	6.2	7.2	7.4	8.7
Year	28.986	29.650	28.290	44.8	56.2	58.8	61.7	42.1	51.9	106	−10	33	32	33	66	46	45	.200	.197	.196	11.19	.94	4.3	5.0	4.6	4.9

Annual meteorological summary for the year ending December 31, 1929—Continued

TRENTON, N. J.

[H_b=190 ft.; h_t=159 ft.; h_r=105 ft.; h_a=183 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.01 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature: 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	11.1	NW.	36	NW.	3	5	5	2	1	6	11	11	21	6	10	9	12	10	8	9	3	0	2	4	0	28	0	1
February	9.3	NW.	26	NE.	0	10	8	5	1	5	9	6	12	0	10	9	9	7	7	4	3	0	2	5	0	22	0	0
March	11.1	SW.	43	NW.	4	3	5	3	2	10	18	7	14	0	12	7	12	12	11	4	0	1	2	0	0	9	0	2
April	12.3	NE.	50	NE.	5	6	8	8	1	11	9	9	8	0	6	6	18	16	13	0	0	0	0	0	0	0	6	0
May	9.9	SW.	39	NW.	3	7	5	3	2	11	19	9	6	0	8	9	14	15	11	0	0	1	0	0	1	0	6	0
June	7.8	SW.	29	NE.	0	8	5	5	3	9	11	10	9	0	10	12	8	11	8	0	0	1	2	0	5	0	9	0
July	8.3	SW.	28	S.	0	9	5	3	5	9	15	9	7	0	8	10	13	10	4	0	0	0	0	0	8	0	7	0
August	7.9	N.	34	NW.	1	14	4	2	2	13	12	4	10	1	10	11	10	9	8	0	0	0	2	0	2	0	9	0
September	8.0	SW.	32	SW.	0	6	12	4	6	7	11	5	4	5	9	8	13	10	10	0	0	0	5	0	4	0	5	0
October	10.1	SW.	35	NW.	3	9	6	5	3	5	13	11	10	0	9	12	10	9	8	0	0	0	1	0	0	0	0	0
November	9.2	SW.	37	W.	2	8	9	0	2	8	11	13	9	0	7	8	15	11	9	3	0	0	1	2	0	8	1	0
December	8.6	SW.	30	W.	0	2	17	1	4	2	14	14	7	1	9	6	16	9	7	6	4	0	5	8	0	21	1	0
Year	9.5	SW.	50	NE.	21	87	89	41	32	96	153	108	117	7	168	107	150	129	104	26	10	3	22	19	20	88	44	3

VALENTINE, NEBR.

[H_b=2,598 ft.; h_t=47 ft.; h_r=36 ft.; h_a=54 ft.]

January	7.5	W.	34	NW.	1	9	6	7	5	5	3	13	13	1	7	11	13	17	8	21	17	0	0	22	0	31	0	0
February	7.3	W.	28	NW.	0	13	2	2	3	2	6	17	10	1	4	19	5	11	5	11	11	0	1	17	0	28	0	0
March	9.9	W.	36	SW.	1	13	0	5	1	4	8	20	11	0	10	14	7	11	10	11	9	0	0	2	0	24	0	0
April	9.4	W.	38	W.	2	7	7	10	2	5	6	16	6	1	10	13	7	9	8	3	1	0	0	0	0	12	1	0
May	9.4	N.	36	SW.	1	20	2	8	8	10	6	6	2	0	14	7	10	16	12	4	2	0	0	0	0	2	2	0
June	7.6	E.	31	NW.	0	7	3	13	8	6	7	10	6	0	11	11	8	13	9	0	0	1	2	0	5	0	7	0
July	7.4	S.	48	E.	1	5	3	15	5	9	11	11	3	0	15	11	5	13	11	0	0	1	0	0	14	0	11	0
August	6.6	S.	28	S.	0	7	6	8	9	12	2	14	3	1	19	7	5	10	6	0	0	1	0	0	13	0	12	0
September	7.2	N.	34	S.	2	13	5	8	4	9	1	9	8	3	8	9	13	16	9	1	1	0	1	0	3	0	3	0
October	6.8	W.	28	SW.	0	15	2	7	5	4	1	15	9	4	14	7	10	11	6	5	4	1	1	1	0	9	1	0
November	7.9	W.	36	NW.	1	9	3	2	0	1	6	24	12	3	6	11	13	10	10	13	10	0	0	9	0	29	0	1
December	6.8	W.	28	NW.	0	9	2	4	2	5	3	23	10	4	14	7	10	6	5	7	6	0	7	10	0	31	0	1
Year	7.8	W.	48	E.	9	127	41	89	52	72	60	178	93	18	132	127	106	143	99	76	61	4	12	61	35	166	37	2

VICKSBURG, MISS.

[H_b=247 ft.; h_t=65 ft.; h_r=58 ft.; h_a=73 ft.]

January	6.9	SE.	30	SE.	0	6	7	9	16	10	2	4	8	0	11	8	12	10	8	0	0	0	1	0	0	10	1	0
February	6.0	N.	29	S.	0	14	13	5	10	3	1	1	9	0	5	6	17	13	10	1	0	0	2	0	0	8	4	0
March	7.2	SE.	29	NW.	0	4	5	10	15	15	4	5	4	0	10	12	9	11	10	0	0	1	0	0	1	0	8	0
April	6.9	SE.	28	NW.	0	6	3	5	18	16	4	2	6	0	10	8	12	10	8	0	0	2	0	0	0	0	12	0
May	6.2	SE.	30	S.	0	6	9	1	22	11	3	2	6	2	8	14	9	12	9	0	0	0	0	0	1	0	10	0
June	4.6	SE.	20	E.	0	7	7	5	14	12	3	8	4	0	13	10	7	6	5	0	0	1	0	0	8	0	7	0
July	5.1	SE.	27	W.	0	2	6	9	14	15	7	6	3	0	16	7	8	11	10	0	0	0	0	0	17	0	11	0
August	4.4	N.	18	W.	0	14	11	8	11	4	4	8	0	2	18	10	3	4	3	0	0	0	0	0	20	0	5	0
September	5.3	N.	20	NW.	0	16	12	8	16	3	2	1	1	1	13	11	6	4	1	0	0	0	1	0	0	0	4	0
October	6.0	SE.	22	SE.	0	13	7	11	13	4	1	6	6	1	18	6	7	7	7	0	0	0	0	0	3	0	4	0
November	5.3	N.	24	W.	0	15	14	5	3	5	4	7	7	0	8	4	18	15	13	0	0	0	2	0	0	4	5	0
December	6.4	SE.	24	NW.	0	6	3	0	18	17	4	3	11	0	11	5	15	8	8	4	4	0	3	3	0	11	1	0
Year	5.9	SE.	30	SE.	0	109	97	76	170	115	39	53	65	6	141	101	123	111	92	5	4	4	12	3	51	33	72	0

WALLA WALLA, WASH.

[H_b=991 ft.; h_t=57 ft.; h_r=50 ft.; h_a=65 ft.]

January	2.8	W.	14	W.	0	4	1	0	4	22	14	13	1	3	2	7	22	15	12	14	13	0	4	22	0	30	0	0
February	3.5	S.	21	W.	0	1	0	2	7	23	14	5	3	1	8	7	13	8	3	7	4	0	0	14	0	19	0	0
March	5.4	S.	28	W.	0	2	2	0	5	26	13	11	3	0	9	10	12	10	7	4	1	0	0	0	0	0	0	1
April	5.6	S.	26	W.	0	2	3	2	8	29	6	8	2	0	8	10	12	4	2	5	1	0	0	0	0	1	0	0
May	4.5	S.	23	W.	0	3	4	2	7	22	5	14	5	0	14	10	7	8	6	0	0	1	0	0	0	0	3	0
June	4.2	S.	22	W.	0	3	1	3	5	26	8	9	3	2	15	7	8	8	7	0	0	0	0	0	3	0	3	0
July	4.2	W.	15	W.	0	4	2	4	5	22	3	19	3	0	25	5	1	0	0	0	0	0	0	0	11	0	1	0
August	3.9	S.	16	W.	0	2	2	2	3	25	3	19	5	1	26	5	0	1	0	0	0	0	0	0	19	0	1	0
September	3.4	S.	19	W.	0	0	0	2	6	13	6	12	3	2	17	6	7	4	1	0	0	0	0	0	2	0	0	0
October	3.1	S.	15	W.	0	1	1	2	11	24	9	9	3	2	17	13	1	5	4	0	0	0	0	0	0	0	0	0
November	2.7	S.	12	S.	0	2	1	3	7	26	7	11	2	1	13	12	5	3	2	0	0	0	0	1	0	17	0	0
December	4.0	S.	21	W.	0	2	1	3	6	28	13	6	1	2	2	3	26	12	10	2	2	0	4	4	0	15	0	0
Year	3.9	S.	28	W.	0	35	18	32	74	286	101	136	34	14	156	95	114	78	54	32	21	1	8	41	35	82	8	1

Annual meteorological summary for the year ending December 31, 1929—Continued

WASHINGTON, D. C.

[ϕ=38° 54′ N.; λ=77° 03′ 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	Dew point: 8 a. m.	Dew point: Noon, local time	Dew point: 8 p. m.	Relative humidity: 8 a. m.	Relative humidity: Noon, local time	Relative humidity: 8 p. m.	Vapor pressure: 8 a. m.	Vapor pressure: Noon, local time	Vapor pressure: 8 p. m.	Precipitation: Total	Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.989	30.550	29.280	31.0	37.6	35.9	43.5	26.3	34.9	69	8	21	20	22	67	49	56	0.131	0.122	0.133	2.16	0.59	5.5	5.9	4.7	5.7
February	29.998	30.370	29.510	28.8	37.9	37.9	43.7	26.4	35.0	64	17	23	23	24	76	54	55	.132	.150	.136	3.19	1.16	6.0	5.1	4.4	5.1
March	29.863	30.460	28.840	45.4	54.1	52.1	60.4	40.1	50.2	84	15	35	35	34	67	52	54	.232	.240	.233	2.64	.98	5.1	5.7	3.7	5.4
April	29.789	30.326	28.980	52.1	61.6	60.2	68.7	46.6	57.6	94	38	43	43	42	73	54	56	.295	.293	.290	6.10	2.39	6.3	5.7	5.1	5.8
May	29.952	30.430	28.980	60.0	68.8	66.2	74.9	54.1	64.5	92	42	51	51	52	73	55	63	.400	.405	.427	2.29	.42	5.6	6.3	6.3	5.5
June	29.838	30.050	29.510	68.0	77.8	74.4	82.5	62.3	72.4	93	46	59	57	61	74	51	64	.528	.499	.551	7.41	1.82	5.1	4.8	5.5	5.0
July	29.927	30.221	29.570	72.2	81.9	77.6	87.0	66.8	76.9	97	55	62	61	63	72	50	63	.580	.552	.603	1.29	.56	4.4	4.5	4.8	4.5
August	29.878	30.220	29.510	68.8	78.8	75.8	83.9	65.0	74.4	95	54	60	57	60	75	48	60	.536	.473	.541	1.30	.85	4.2	4.5	4.6	4.9
September	29.983	30.280	29.630	63.9	75.6	70.2	80.6	59.7	70.2	97	44	58	56	59	81	53	68	.505	.487	.521	4.32	1.14	5.1	4.8	4.3	4.8
October	29.945	30.600	29.170	49.4	60.7	56.5	65.5	45.8	55.6	78	36	43	41	44	81	52	65	.294	.277	.305	4.81	2.20	5.0	4.7	3.2	4.9
November	29.971	30.440	29.200	44.1	51.2	48.1	54.9	40.3	47.6	83	11	38	37	37	79	60	67	.263	.258	.253	1.70	.83	6.4	5.4	5.4	6.7
December	29.963	30.485	29.320	33.7	41.5	39.8	46.3	30.6	38.4	70	15	28	29	30	77	64	69	.164	.176	.179	2.20	.75	6.7	5.9	5.1	6.3
Year	29.925	30.600	28.840	51.4	60.6	57.9	66.0	47.0	56.5	97	8	43	42	44	75	54	62	.338	.326	.348	39.41	2.39	5.4	5.3	4.8	5.4

WAUSAU, WIS.

[ϕ=44° 57′ N.; λ=89° 35′ W.]

January	28.649	29.140	27.870	−2.2	6.0		11.3	−7.6	1.8	25	−28										2.75	0.90	5.7	4.5		5.4
February	28.703	29.190	27.920	2.5	15.2		18.4	−.3	9.0	35	−27										1.30	.71	7.5	5.6		6.5
March	28.521	29.170	27.720	26.4	36.1		39.5	23.8	31.6	58	−2										2.40	1.05	6.3	6.6		6.5
April	28.550	28.979	28.080	38.4	49.6		55.5	35.7	45.6	75	21										3.64	1.09	5.5	5.8		5.8
May	28.705	29.105	28.212	46.0	58.8		63.4	40.5	52.0	86	28										3.04	.99	5.4	5.9		4.8
June	28.625	28.960	28.150	56.6	68.2		73.8	52.1	63.0	88	37										3.71	1.49	6.5	6.9		5.4
July	28.691	28.997	28.250	63.7	78.0		81.7	59.4	70.6	92	41										2.94	1.50	4.3	6.1		5.0
August	28.723	29.050	28.340	57.4	73.0		77.6	55.7	66.6	90	42										3.66	1.31	5.9	5.9		6.1
September	28.717	29.040	28.300	50.2	65.9		69.8	47.5	58.6	95	31										2.24	.92	4.1	4.6		5.0
October	28.707	29.186	28.190	40.1	53.0		56.0	38.0	47.0	76	27										2.04	.82	5.7	6.0		7.2
November	28.668	29.210	27.930	24.1	31.9		35.1	20.7	27.9	52	−11										.63	.45	6.0	5.9		6.6
December	28.660	29.150	27.980	17.1	22.6		25.4	13.7	19.6	43	−2										.45	.27	8.7	7.7		8.0
Year	28.660	29.210	27.720	35.0	46.5		50.6	31.6	41.1	95	−28										28.80	1.50	6.0	6.0		6.0

WICHITA, KANS.

[ϕ=37° 41′ N.; λ=97° 20′ W.]

January	28.607	29.080	27.900	22.5	28.8	28.7	34.6	18.1	26.4	49	4	18	20	22	83	70	74	0.105	0.117	0.122	2.08	1.12	4.5	5.0	4.4	5.1
February	28.631	29.040	28.150	22.2	29.0	30.4	34.9	19.8	27.4	55	−2	19	20	23	86	68	73	.110	.112	.128	.65	.18	5.5	5.2	5.3	5.4
March	28.453	29.030	27.860	41.1	53.1	54.3	59.2	39.0	49.1	85	27	32	33	33	72	48	47	.190	.195	.196	.88	.58	5.0	5.9	5.5	5.8
April	28.408	28.830	27.950	51.7	63.4	63.5	68.2	48.7	58.4	84	28	46	47	46	83	58	57	.334	.339	.332	4.04	1.16	6.4	5.5	5.7	5.7
May	28.564	28.880	28.200	56.2	65.2	65.4	69.9	53.7	61.8	82	36	52	53	54	86	67	68	.414	.428	.432	5.84	1.41	7.1	6.1	6.6	6.4
June	28.481	28.727	28.173	66.7	77.9	79.5	83.0	64.4	73.7	94	52	62	61	63	96	59	60	.571	.559	.594	7.13	2.58	4.4	4.6	4.3	4.6
July	28.571	28.760	28.320	70.8	85.0	84.7	88.9	69.5	79.2	101	61	66	66	67	84	55	56	.630	.653	.659	7.08	2.13	4.4	3.9	2.8	3.5
August	28.566	28.750	28.262	71.0	87.9	86.6	92.0	69.4	80.7	105	60	61	59	60	72	40	43	.550	.516	.522	1.30	.75	4.8	2.7	3.0	3.5
September	28.556	28.890	28.321	62.7	74.9	73.9	80.4	58.8	69.6	94	47	54	52	53	78	46	51	.416	.389	.412	.98	.52	5.1	4.2	4.2	4.4
October	28.586	28.890	28.030	52.0	64.3	63.2	69.3	49.9	59.6	85	34	46	46	46	83	55	57	.333	.337	.335	3.23	2.35	5.2	6.3	5.3	5.6
November	28.688	29.144	28.260	33.8	41.2	41.0	45.2	30.7	38.0	61	8	30	31	31	84	70	70	.167	.181	.181	1.59	.64	6.0	6.3	4.4	5.8
December	28.641	29.080	28.124	29.8	40.4	39.7	46.1	26.5	36.3	67	4	25	26	28	83	60	64	.152	.159	.169	.04	.04	2.6	3.8	3.2	4.5
Year	28.563	29.144	27.880	48.4	59.3	59.2	64.3	45.7	55.0	105	−2	43	43	44	82	58	60	.331	.332	.340	34.84	2.58	5.1	5.0	4.6	5.0

WILLISTON, N. DAK.

[ϕ=48° 09′ N.; λ=103° 35′ W.]

January	28.075	28.530	27.320	−6.8	0.1	−0.7	8.3	−13.9	−2.8	38	−34	−10	−6	−6	84	71	74	0.031	0.036	0.035	0.90	0.16	4.7	5.5	4.3	5.8
February	28.039	28.437	27.400	−.6	7.7	8.4	13.9	−6.2	3.8	33	−38	−4	2	4	86	73	78	.043	.053	.057	.46	.23	5.2	5.1	6.8	5.8
March	27.836	28.310	27.170	25.0	34.6	36.3	40.0	21.5	30.8	67	3	21	25	26	82	70	67	.110	.139	.142	1.32	.79	4.9	5.1	5.7	5.4
April	27.897	28.170	27.330	31.2	46.8	47.7	51.5	29.3	40.4	68	12	27	28	29	82	51	52	.148	.156	.161	1.84	.95	4.7	4.1	5.4	4.9
May	28.017	28.440	27.450	39.6	56.8	58.3	61.6	36.1	48.8	86	20	32	31	31	74	40	41	.191	.186	.188	3.64	1.61	3.9	3.9	4.1	3.9
June	27.906	28.220	27.270	54.0	68.8	69.5	73.2	50.0	61.6	90	39	47	46	47	77	46	47	.325	.320	.338	1.72	.68	3.7	3.7	4.3	4.0
July	27.965	28.270	27.540	61.0	79.9	83.1	85.5	57.0	71.2	104	42	49	48	46	66	35	30	.352	.355	.322	.61	.17	2.3	2.6	2.2	2.5
August	28.004	28.320	27.670	57.0	79.3	82.4	85.6	54.1	69.8	100	44	46	48	45	68	36	28	.313	.347	.309	.58	.35	2.6	2.8	2.3	2.4
September	28.022	28.400	27.510	44.2	58.4	58.6	62.8	41.7	52.2	96	31	38	38	38	81	51	50	239	239	234	1.26	.55	5.5	4.7	5.1	5.1
October	28.056	28.640	27.630	38.1	55.6	52.8	59.9	34.5	47.2	82	23	32	35	34	82	50	53	.186	.201	.197	.45	.33	4.0	3.8	3.6	4.2
November	28.070	28.710	27.460	24.0	32.3	28.7	36.7	18.2	27.4	61	−12	20	23	21	83	69	75	.110	.127	.120	.59	.12	5.6	5.8	5.4	5.9
December	28.061	28.820	27.460	7.7	14.6	12.6	19.9	2.5	11.2	45	−36	5	10	8	87	79	82	.064	.077	.074	1.29	.56	3.1	5.0	4.8	4.8
Year	27.996	28.820	27.170	31.2	44.6	44.8	49.9	27.1	38.5	104	−38	25	27	27	79	56	56	.176	.186	.181	14.65	1.61	4.2	4.3	4.5	4.6

Annual meteorological summary for the year ending December 31, 1929—Continued

WASHINGTON, D. C.

[H_b=112 ft.; h_t=62 ft.; h_r=42 ft.; h_a=85 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 36 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	0.04 inch and over	Snow: T. or more	0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Miles		*Mi.*																									
January	7.0	NW.	30	NW.	0	8	3	2	2	12	10	3	21	1	10	7	14	12	6	6	1	0	0	4	0	24	0	0
February	5.8	NW.	27	NW.	0	7	2	1	3	3	8	6	16	4	13	6	9	9	7	5	3	0	1	3	0	21	0	0
March	7.3	S.	40	NW.	2	3	0	5	4	16	15	4	15	0	14	5	12	9	8	2	0	0	1	0	0	6	2	0
April	7.4	S.	30	NW.	0	6	4	6	2	8	16	3	13	2	9	10	11	13	10	0	0	1	1	0	3	0	2	0
May	5.3	S.	28	W.	0	9	3	4	3	12	16	4	7	4	10	8	13	15	11	0	0	0	0	0	1	0	7	0
June	4.4	S.	29	SW.	0	7	5	2	5	11	10	7	9	4	10	12	8	14	13	0	0	0	0	0	5	0	14	0
July	4.1	S.	25	SW.	0	5	5	3	2	13	16	1	13	4	14	12	5	7	4	0	0	0	0	0	13	0	7	0
August	4.2	N.	22	NW.	0	9	7	3	8	9	9	3	11	3	13	12	6	5	5	0	0	0	0	0	7	0	6	0
September	4.2	S.	25	NW.	0	6	8	6	11	9	11	2	5	12	10	12	8	8	7	0	0	0	0	0	7	0	7	0
October	5.9	NW.	28	NW.	0	7	7	3	3	5	19	2	11	5	12	10	9	8	6	0	0	0	1	0	0	0	1	0
November	5.5	NW.	25	NW.	0	9	4	3	1	8	10	2	18	5	8	5	17	14	10	4	2	0	2	1	0	9	0	0
December	4.9	S.	28	NW.	0	7	8	5	2	12	11	3	12	2	9	9	13	8	7	2	1	0	0	4	0	18	1	0
Year	5.5	S.	40	NW.	2	83	56	49	36	118	151	40	151	46	132	108	125	122	94	19	7	1	6	12	36	78	47	0

WAUSAU, WIS.

[H_b=1,247 ft.; h_t=4 ft.; h_r=4 ft.; h_a=62 ft.]

January	5.6	W.	33	W.	1	6	1	4	1	4	0	4	10	1	12	8	11	15	10	22	15	0	0	31	0	31	0	0
February	4.5	W.	18	NE.	0	8	1	1	3	3	1	4	4	3	7	9	12	9	7	12	9	0	0	27	0	28	0	0
March	6.3	W.	26	NW.	0	5	0	4	1	8	4	5	4	0	8	7	16	8	6	9	5	0	2	4	0	24	0	0
April	6.3	E.	21	E.	0	8	2	4	3	3	2	3	5	0	9	9	12	10	9	5	3	0	2	0	0	11	3	0
May	6.5	W.	22	SW.	0	8	1	4	4	4	0	6	3	1	13	8	10	8	8	3	1	0	0	0	0	9	6	0
June	4.9	S.	21	W.	0	3	2	3	2	9	0	6	3	2	8	12	10	11	10	0	0	0	1	0	0	0	7	0
July	4.9	S.	18	W.	0	8	1	2	2	6	0	9	3	0	14	7	10	6	5	0	0	0	1	0	5	0	4	0
August	4.1	S.	18	NW.	0	11	1	2	6	4	0	3	2	2	12	3	16	9	8	0	0	0	1	2	0	0	4	0
September	5.4	S.	22	SW.	0	6	2	3	4	8	1	1	4	1	10	13	7	9	8	0	0	0	1	0	2	1	0	0
October	6.4	W.	28	N.	0	6	0	5	2	3	3	7	5	0	8	4	19	10	9	3	2	0	0	0	0	4	1	0
November	6.4	W.	22	W.	0	5	1	1	1	4	4	7	5	2	9	5	16	7	4	8	5	0	1	9	0	24	0	0
December	6.1	W.	23	W.	0	7	3	5	3	5	0	5	3	0	4	5	22	8	4	17	8	0	2	25	0	31	0	0
Year	5.6	W.	33	W.	1	81	15	38	32	61	15	60	51	12	114	90	161	110	88	79	48	2	11	96	7	163	25	0

WICHITA, KANS.

[H_b=1,358 ft.; h_t=139 ft.; h_r=132 ft.; h_a=158 ft.]

January	11.4	S.	34	NW.	2	15	14	4	5	17	3	2	2	0	10	13	8	8	4	6	4	0	3	12	0	31	1	0
February	9.5	S.	40	SW.	1	13	8	2	2	20	3	6	2	0	11	7	10	9	6	15	7	0	2	13	0	26	0	0
March	11.7	S.	33	S.	2	9	9	6	3	19	3	3	10	0	8	15	8	6	4	0	0	0	0	0	0	5	2	0
April	13.3	S.	43	SW.	7	5	8	4	6	26	0	2	9	0	8	12	10	9	8	0	0	2	0	0	0	1	10	0
May	11.4	S.	34	S.	1	8	14	5	3	30	1	1	0	0	7	11	13	15	12	0	0	0	1	0	0	0	5	0
June	10.9	S.	44	N.	4	6	6	7	7	32	1	0	1	0	14	11	5	10	9	0	0	1	0	0	0	0	9	0
July	10.2	S.	36	SW.	1	0	4	7	8	38	3	2	0	0	18	10	3	8	6	0	0	0	0	0	12	0	8	0
August	9.5	S.	27	S.	0	4	14	7	5	27	4	0	1	0	16	11	4	4	4	0	0	0	0	0	19	0	4	0
September	10.7	S.	36	SW.	1	10	12	1	5	26	4	1	1	0	14	10	6	8	5	0	0	0	0	0	4	0	6	0
October	9.1	S.	28	W.	0	11	4	5	8	23	4	2	5	0	9	13	9	9	7	0	0	0	4	0	0	0	5	0
November	9.6	N.	35	S.	1	20	9	2	2	15	3	4	5	0	11	6	13	10	7	7	6	0	1	4	0	16	0	0
December	8.5	S.	32	N.	0	20	5	0	3	20	5	2	7	0	17	2	12	1	1	3	1	0	8	6	0	20	0	0
Year	10.5	S.	44	N.	20	121	107	50	57	293	34	25	43	0	143	121	101	97	73	31	18	3	19	35	43	99	50	0

WILLISTON, N. DAK.

[H_b=1,878 ft.; h_t=41 ft.; h_r=33 ft.; h_a=48 ft.]

January	6.3	W.	36	NW.	1	12	3	8	6	4	9	16	4	0	9	9	13	15	8	19	15	0	0	28	0	31	0	0
February	5.9	W.	25	E.	0	9	2	2	5	6	9	14	7	2	9	7	12	6	4	14	6	0	2	27	0	28	0	0
March	8.1	W.	37	W.	1	7	6	4	10	6	13	8	7	1	10	10	11	7	7	14	7	0	0	6	0	29	0	3
April	7.5	W.	32	W.	0	9	7	10	4	6	6	12	5	1	12	11	7	6	5	4	2	0	2	1	0	15	1	1
May	7.8	N.	27	SE.	0	19	13	2	10	4	5	4	3	2	17	8	6	9	8	2	2	0	0	0	0	9	3	0
June	8.0	SE.	38	NW.	2	7	4	7	13	4	7	15	3	0	14	10	6	11	7	0	0	1	1	0	0	0	8	0
July	6.1	SE.	27	NW.	0	6	10	6	10	13	2	5	10	0	19	11	1	5	4	0	0	0	0	0	11	0	5	1
August	5.1	SE.	25	N.	0	8	7	6	14	8	5	5	8	1	23	7	1	4	3	0	0	0	0	0	0	0	5	0
September	5.5	NW.	24	NW.	0	7	5	5	8	9	5	6	13	2	10	13	7	9	6	0	0	0	1	0	1	2	0	6
October	5.7	E.	29	E.	0	8	6	11	6	7	9	8	7	0	17	6	8	6	3	4	3	0	3	0	0	13	0	4
November	8.3	NW.	28	NW.	0	7	2	1	4	6	9	12	18	1	8	9	13	11	6	14	9	0	0	9	0	30	0	1
December	7.3	W.	35	NW.	2	6	8	4	5	7	15	14	3	0	12	10	9	8	6	13	8	0	0	20	0	31	0	8
Year	6.8	W.	38	NW.	6	105	73	66	95	80	94	119	88	10	160	111	94	97	67	84	52	1	9	91	21	188	22	24

Annual meteorological summary for the year ending December 31, 1929—Continued

WILMINGTON, N. C.
[ϕ=34° 14′ N.; λ=77° 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: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	30.047	30.490	29.620	44.8	54.2	50.5	58.9	40.6	49.8	74	29	40	43	44	84	68	79	0.275	0.306	0.308	5.64	2.79	4.5	5.2	5.1	5.3
February	30.020	30.380	29.550	43.3	50.8	48.2	55.6	38.0	47.3	72	26	40	42	42	86	73	80	.270	.292	.293	5.21	1.25	6.4	7.4	5.4	6.7
March	29.991	30.490	29.200	55.7	63.8	59.4	67.6	50.2	58.9	87	28	49	52	51	80	66	76	.393	.419	.407	2.06	.95	5.9	5.1	4.3	5.2
April	29.920	30.460	29.130	62.3	72.1	64.3	74.5	56.3	65.4	88	42	54	56	56	76	58	76	.440	.458	.465	1.64	.93	4.5	5.1	4.1	4.8
May	30.050	30.450	29.340	68.5	75.5	69.7	77.9	61.2	69.6	85	48	62	63	63	82	66	80	.580	.589	.593	5.25	1.70	4.5	5.2	5.2	5.0
June	29.918	30.170	29.640	72.9	81.4	73.9	83.5	66.6	75.0	91	52	67	65	67	82	59	80	.672	.634	.670	2.87	.91	5.1	5.4	5.9	5.4
July	30.004	30.220	29.730	76.6	83.1	77.7	85.8	70.1	78.0	93	63	70	68	70	80	62	78	.731	.699	.743	5.03	1.57	3.4	5.6	4.4	4.8
August	29.920	30.220	29.660	74.1	82.7	77.6	85.7	69.3	77.5	94	61	70	70	71	86	66	80	.732	.736	.757	7.80	1.89	5.4	5.5	5.2	5.5
September	29.983	30.183	29.790	70.6	78.8	73.1	80.7	66.6	73.6	87	51	67	66	68	88	70	86	.672	.692	.709	6.56	3.28	6.0	6.8	5.3	6.4
October	29.988	30.460	29.350	58.7	70.6	64.0	73.5	54.7	64.1	84	45	53	53	56	80	55	75	.413	.422	.456	5.81	5.31	2.7	3.2	2.9	3.2
November	30.039	30.350	29.520	53.3	61.5	56.5	64.4	49.5	57.0	81	24	49	52	51	86	72	82	.382	.412	.403	1.63	.77	5.5	5.3	5.0	5.4
December	30.078	30.440	29.520	43.2	54.8	48.6	59.3	39.3	49.3	76	20	38	40	42	83	60	77	.253	.279	.288	4.27	1.54	3.9	3.3	4.3	4.2
Year	29.997	30.490	29.130	60.3	69.1	63.6	72.3	55.3	63.8	94	20	55	56	57	83	65	79	.484	.495	.508	53.77	5.31	4.8	5.3	4.8	5.2

WINNEMUCCA, NEV.
[ϕ=40° 58′ N.; λ=117° 43′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	25.608	26.080	25.130	19.8	34.4	33.5	39.0	15.7	27.4	51	−10	14	22	22	76	60	61	0.082	0.115	0.116	0.59	0.25	3.5	4.2	5.2	4.6
February	25.659	25.980	25.340	29.8	37.4	37.6	41.6	16.8	29.2	54	0	16	23	24	81	56	58	.092	.121	.127	.58	.36	2.5	3.9	4.0	4.0
March	25.597	25.920	25.070	29.0	50.2	51.2	54.0	24.3	39.2	69	11	23	31	30	76	49	46	.124	.174	.167	.55	.25	3.2	3.9	5.3	3.9
April	25.535	25.860	25.140	31.1	52.5	51.9	55.9	28.5	42.2	72	12	25	32	30	77	48	48	.135	.178	.168	.93	.52	4.6	4.8	5.5	4.8
May	25.598	25.880	25.240	40.5	68.4	68.5	71.9	39.2	55.6	88	26	32	34	34	72	30	31	.182	.195	.202	.06	.05	4.1	3.6	4.0	3.9
June	25.583	25.900	25.267	47.2	74.0	75.2	78.1	45.0	61.6	97	30	37	42	39	68	36	31	.219	.275	.243	.28	.14	3.1	2.8	3.1	3.4
July	25.620	25.800	25.380	56.7	87.9	88.9	92.6	53.7	73.2	99	43	33	35	33	41	16	14	.193	.211	.193	.01	.01	1.1	1.3	2.3	1.5
August	25.646	25.780	25.490	56.4	88.5	88.6	92.9	53.6	73.2	102	43	34	42	39	43	20	19	.201	.268	.248	.06	.06	2.9	2.6	2.7	2.6
September	25.588	25.790	25.370	41.4	72.4	71.6	76.9	37.2	57.0	97	26	24	31	29	50	24	23	.130	.178	.165	.06	.06	1.2	1.3	1.9	1.4
October	25.706	25.920	25.360	34.2	67.0	64.7	71.3	30.3	50.8	84	12	20	28	23	55	24	22	.112	.161	.130	.01	.01	1.0	1.5	1.7	1.3
November	25.834	26.170	25.520	20.5	50.3	47.8	56.3	15.8	36.0	68	4	9	21	19	60	31	30	.065	.111	.100	0	0	.9	1.6	1.7	1.5
December	25.719	26.050	25.350	30.5	48.4	44.8	52.6	25.5	39.0	65	12	24	29	28	77	47	53	.134	.159	.156	.72	.27	3.9	4.3	4.3	3.9
Year	25.641	26.170	25.070	35.7	61.0	60.4	65.3	32.1	48.7	102	−10	24	31	29	65	37	36	.139	.170	.168	3.85	.52	2.7	3.0	3.5	3.1

WYTHEVILLE, VA.
[ϕ=36° 56′ N.; λ=81° 05′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	27.654	28.060	27.130	29.2	36.7	33.9	42.6	24.9	33.8	67	11	24	27	25	80	70	71	0.142	0.159	0.147	1.53	0.39	6.5	7.0	4.8	6.5
February	27.644	27.950	27.246	27.3	36.6	34.8	42.1	23.5	32.8	65	10	22	26	26	79	64	71	.128	.148	.151	3.93	1.50	6.8	6.3	5.6	6.1
March	27.615	28.050	26.810	41.8	52.6	49.5	58.5	36.7	47.6	84	14	34	36	36	76	56	61	.223	.243	.239	3.51	.94	5.4	5.8	5.0	5.7
April	27.584	28.050	27.030	50.7	61.4	57.7	66.2	44.1	55.2	80	31	41	41	40	72	50	54	.275	.269	.260	3.11	1.05	5.6	4.7	4.3	4.9
May	27.729	28.060	26.890	56.8	66.2	61.8	71.1	48.5	59.8	86	36	51	52	51	80	62	69	.386	.405	.393	3.64	.82	5.8	6.5	6.0	5.9
June	27.658	27.885	27.440	62.9	73.0	68.4	77.2	55.6	66.4	88	40	58	56	59	84	58	74	.485	.461	.508	8.26	2.88	4.7	5.3	5.4	5.3
July	27.756	27.962	27.510	65.7	76.0	70.5	80.0	59.3	69.6	88	44	61	61	62	85	60	74	.542	.540	.554	3.07	.88	4.3	5.1	5.1	5.1
August	27.704	27.950	27.440	62.8	74.9	68.6	78.9	57.6	68.2	87	44	59	58	59	88	58	74	.506	.500	.514	2.68	.93	4.0	5.3	4.1	4.7
September	27.753	27.920	27.560	58.3	70.9	64.4	74.2	52.8	63.5	85	35	56	57	58	92	64	80	.459	.476	.494	2.72	1.04	3.7	5.7	4.4	5.4
October	27.699	28.180	27.050	46.9	57.7	51.8	60.7	41.7	51.2	74	33	42	45	44	84	67	75	.276	.312	.294	8.06	4.52	4.7	4.6	4.6	5.0
November	27.690	28.000	27.090	39.5	46.9	43.5	49.8	35.6	42.7	74	0	35	37	37	83	69	77	.232	.253	.248	4.07	1.68	7.1	7.2	7.0	7.3
December	27.679	28.020	27.050	32.6	39.9	37.3	44.3	27.9	36.1	61	3	28	31	31	82	72	76	.173	.195	.191	1.94	.72	5.6	5.5	5.7	5.8
Year	27.680	28.180	26.810	47.9	57.7	53.5	62.1	42.4	52.2	88	0	43	44	44	82	62	71	.319	.330	.333	46.52	4.52	5.3	5.8	5.2	5.6

YAKIMA, WASH.
[ϕ=46° 36′ N.; λ=120° 30′ 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.988	29.480	28.222	14.2	19.8	21.0	23.6	10.2	16.9	41	−8	12	14	16	90	77	80	0.076	0.084	0.091	1.50	0.68	6.0	8.3	8.2	8.1
February	29.062	29.550	28.690	16.9	28.8	30.4	33.5	13.3	23.4	51	−11	13	15	18	83	56	58	.084	.093	.102	.01	.01	3.8	5.1	5.8	5.4
March	28.828	29.070	28.300	37.6	52.3	53.3	56.3	33.7	45.0	67	26	30	28	28	73	39	38	.164	.153	.154	.45	.25	4.3	5.9	5.7	5.9
April	28.775	29.130	28.440	39.9	56.5	57.5	60.5	37.6	49.0	80	26	27	23	24	61	28	29	.149	.125	.130	.09	.05	4.3	5.4	5.9	5.4
May	28.858	29.140	28.475	49.3	68.6	69.2	73.0	47.4	60.2	89	38	35	30	31	58	26	27	.204	.170	.177	.18	.10	5.2	5.0	5.3	5.3
June	28.784	29.210	28.370	54.7	71.9	75.3	77.7	53.3	65.5	94	41	42	39	38	63	32	28	.270	.246	.241	.55	.28	5.5	4.6	4.9	5.0
July	28.841	29.100	28.500	59.4	80.7	84.6	87.4	57.9	72.6	106	50	42	38	38	54	23	21	.274	.233	.236	T.	T.	1.7	1.0	1.5	1.5
August	28.812	29.130	28.604	60.8	83.4	87.2	90.2	58.9	74.6	100	45	44	41	40	55	24	20	.285	.260	.250	T.	T.	1.5	1.4	1.0	1.5
September	28.862	29.080	28.540	51.0	71.4	72.3	75.1	48.0	61.6	92	35	39	38	38	65	32	32	.239	.238	.242	.17	.16	2.5	3.1	3.1	3.5
October	28.962	29.270	28.538	43.9	63.8	64.2	68.2	40.5	54.4	81	31	35	33	36	71	32	36	.204	.192	.215	.05	.05	1.4	4.1	4.3	3.8
November	29.160	29.530	28.760	28.7	45.6	45.3	50.2	25.5	37.8	66	18	22	28	26	76	46	47	.117	.127	.144	T.	T.	2.6	5.6	3.6	5.0
December	28.918	29.350	28.174	29.3	38.6	37.4	42.4	26.5	34.4	56	17	27	30	30	90	72	74	.145	.166	.164	1.13	.55	4.4	6.1	5.5	6.5
Year	28.904	29.550	28.174	40.5	56.8	58.1	61.5	37.7	49.6	106	−11	31	30	30	70	41	56	.184	.175	.179	4.13	.68	3.6	4.6	4.6	4.7

Annual meteorological summary for the year ending December 31, 1929—Continued

WILMINGTON, N. C.

[H_b=78 ft.; h_t=81 ft.; h_r=76 ft.; h_a=91 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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	6.7	W.	32	W.	0	11	12	6	0	4	12	14	3	0	11	10	10	10	8	0	0	0	4	0	0	7	2	0
February	5.8	N.	20	SW.	0	20	8	3	3	4	6	9	3	0	6	7	15	13	12	0	0	0	2	0	0	7	0	0
March	8.7	S.	28	W.	0	6	2	13	5	11	10	12	3	0	9	13	9	10	7	0	0	0	1	0	0	2	3	0
April	7.6	SW.	29	NW.	0	7	4	8	3	6	17	13	2	0	14	8	8	8	5	0	0	0	0	0	0	0	4	0
May	6.7	SW.	35	SW.	1	4	7	7	3	11	22	5	2	1	12	11	8	11	10	0	0	0	0	0	0	0	7	0
June	5.6	SW.	17	SW.	0	10	2	5	4	7	14	17	1	0	9	12	9	10	9	0	0	0	0	0	0	2	0	0
July	5.4	SW.	20	W.	0	5	5	4	1	10	19	13	5	0	10	16	5	11	9	0	0	0	0	0	0	3	0	0
August	4.7	W.	26	W.	0	10	16	7	4	3	12	10	0	0	9	14	8	15	14	0	0	0	3	0	0	7	0	0
September	5.7	N.	18	N.	0	12	19	10	6	6	5	2	0	0	8	7	15	12	10	0	0	0	4	0	0	0	6	0
October	6.2	NE.	30	SW.	0	8	21	5	5	0	7	14	2	0	18	9	4	6	5	0	0	0	1	0	0	0	2	0
November	5.6	N.	17	W.	0	21	12	1	1	7	6	9	1	2	13	5	12	7	6	0	0	0	0	0	0	1	0	0
December	5.4	W.	24	E.	0	10	5	2	1	4	18	16	4	2	16	7	8	7	6	1	0	0	2	0	0	8	1	0
Year	6.2	SW.	35	SW.	1	124	113	71	36	73	148	134	26	5	135	119	111	120	101	1	0	0	17	0	12	25	58	0

WINNEMUCCA, NEV.

[H_b=4,344 ft.; h_t=18 ft.; h_r=6 ft.; h_a=56 ft.]

January	7.2	SW.	26	SW.	0	1	26	0	0	1	26	5	3	0	12	12	7	8	5	10	7	0	0	5	0	29	0	0
February	6.5	SW.	21	NW.	0	5	17	0	1	4	19	5	5	0	11	15	2	7	3	7	3	0	0	3	0	27	0	0
March	6.6	SW.	28	SW.	0	1	12	1	0	8	25	6	9	0	16	13	2	5	4	8	4	0	0	0	0	29	0	0
April	7.2	SW.	30	NW.	0	1	8	1	0	4	28	9	9	0	9	20	1	9	5	8	4	0	0	1	0	20	1	0
May	6.4	NE.	25	NW.	0	4	23	1	1	6	12	4	11	0	13	17	1	2	1	2	0	0	0	0	0	6	2	0
June	6.0	SW.	30	NW.	0	1	11	0	2	9	20	8	7	2	16	11	3	4	3	2	0	0	0	0	0	1	0	0
July	5.5	SW.	24	SE.	0	2	11	1	1	6	19	12	7	3	29	2	0	1	0	0	0	0	0	0	0	25	0	0
August	5.0	SW.	29	NW.	0	1	17	1	1	6	23	10	3	0	20	11	0	1	1	0	0	0	0	0	0	27	0	0
September	5.0	NE.	19	NW.	0	9	25	0	1	2	11	7	7	0	27	3	0	1	1	0	0	0	0	0	4	8	1	0
October	5.5	NE.	33	NW.	1	6	28	2	1	2	10	6	6	1	30	1	0	1	0	1	0	1	0	0	0	20	1	0
November	5.1	NE.	22	NW.	0	6	24	1	1	2	16	5	4	1	27	3	0	0	0	0	0	0	0	0	0	30	0	0
December	6.7	SW.	32	SW.	0	2	16	1	2	4	27	4	0	0	17	8	6	7	7	2	0	0	0	0	0	21	0	0
Year	6.1	SW.	33	NW.	1	39	216	9	11	54	236	81	77	7	227	116	22	46	30	40	18	1	0	9	63	191	9	0

WYTHEVILLE, VA.

[H_b=2,304 ft.; h_t=49 ft.; h_r=40 ft.; h_a=55 ft.]

January	7.5	W.	34	SW.	1	2	5	10	3	1	4	22	15	0	9	5	17	14	10	7	1	0	2	4	0	24	0	0
February	4.9	W.	27	SW.	0	3	1	12	1	2	1	25	10	1	10	5	13	14	12	8	8	0	1	3	0	25	0	0
March	7.2	W.	35	W.	1	2	2	4	5	4	8	27	10	0	9	7	15	15	10	3	2	0	1	0	0	12	1	0
April	7.6	W.	33	SW.	1	2	1	3	0	3	10	31	10	0	11	12	7	11	10	2	0	0	0	0	0	1	6	0
May	5.4	W.	32	W.	0	5	4	8	7	2	8	18	9	1	6	16	9	19	13	1	0	0	1	0	0	0	7	0
June	3.9	W.	26	W.	0	3	5	4	2	2	6	21	12	5	8	13	9	14	13	0	0	0	1	0	0	0	10	0
July	4.1	W.	23	NW.	0	6	3	8	1	2	7	31	4	0	9	16	6	11	10	0	0	0	4	0	0	0	11	0
August	3.8	NW.	18	W.	0	5	5	6	1	4	2	17	21	1	15	8	8	9	9	0	0	0	4	0	0	0	6	0
September	3.3	E.	16	SW.	0	3	5	16	4	1	5	15	7	4	11	9	10	11	10	0	0	0	5	0	0	0	5	0
October	6.1	W.	26	NW.	0	2	2	14	3	0	10	21	10	0	13	7	11	7	7	0	0	0	1	0	0	0	1	0
November	5.4	W.	30	W.	0	2	6	6	2	1	2	23	15	3	6	5	19	17	15	4	4	0	2	4	0	14	0	0
December	8.0	W.	27	W.	0	0	3	6	0	1	10	39	3	0	11	6	14	10	8	6	3	0	1	8	0	18	0	0
Year	5.6	W.	35	W.	3	35	42	97	29	23	73	290	126	15	118	109	138	152	127	31	18	0	23	19	0	94	47	0

YAKIMA, WASH.

[H_b=1,102 ft.; h_t=58 ft.; h_r=52 ft.; h_a=67 ft.]

January	2.7	W.	24	NE.	0	4	7	2	7	11	6	11	13	1	3	6	22	10	10	22	10	0	10	27	0	31	0	0
February	3.2	SE.	22	NW.	0	9	5	5	16	6	2	3	10	0	7	12	9	1	0	4	0	0	2	15	0	27	0	0
March	5.3	NW.	35	NW.	1	7	3	2	8	10	3	11	18	0	10	6	15	5	4	2	0	0	0	0	0	14	1	2
April	6.2	NW.	32	W.	0	7	5	2	4	6	5	12	18	1	10	10	10	3	1	4	1	0	0	0	0	6	0	0
May	6.5	NW.	25	W.	0	5	1	0	5	4	8	9	30	0	10	11	10	2	2	0	0	1	0	0	0	0	1	0
June	5.9	NW.	31	W.	0	5	5	2	6	5	7	4	26	0	12	8	10	8	5	0	0	0	0	0	1	0	1	0
July	5.7	NW.	30	NW.	0	3	3	1	3	5	7	5	35	0	27	3	1	0	0	0	0	0	0	0	0	9	0	0
August	5.0	NW.	20	NW.	0	2	3	5	4	7	6	8	27	0	26	4	1	0	0	0	0	0	0	0	17	0	1	0
September	4.2	NW.	22	NW.	0	5	5	2	7	7	6	11	17	0	18	6	6	2	1	0	0	0	0	0	3	0	0	0
October	3.6	NW.	18	NW.	0	6	3	4	4	7	3	13	20	2	17	9	5	1	1	0	0	0	0	0	0	2	0	0
November	2.3	SE.	21	NW.	0	3	5	6	18	11	5	3	6	3	9	13	8	0	1	0	0	0	3	0	0	25	0	0
December	2.8	NW.	25	W.	0	7	6	8	6	6	6	10	9	4	8	7	16	10	7	7	6	0	2	0	0	29	0	0
Year	4.4	NW.	35	NW.	1	63	51	39	88	85	64	100	229	11	157	95	113	42	31	40	17	1	17	42	30	134	5	2

Annual meteorological summary for the year ending December 31, 1929—Continued

YANKTON, S. DAK.

[ϕ=42° 54′ N.; λ=97° 28′ W.]

Month	Pressure: Extremes: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Extremes: Monthly	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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*				
January	28.772	29.200	28.090	6.6	11.0	.....	19.1	−1.3	8.9	46	−15	4	6	...	87	76	...	0.055	0.060	.....	0.55	0.21	6.6	6.6	....	6.5
February	28.750	29.170	28.220	9.7	17.7	.....	22.8	3.5	13.2	39	−18	6	11	...	85	77	...	.064	.076	.....	.63	.18	7.3	7.0	....	7.1
March	28.531	29.200	27.911	33.0	44.0	.....	49.5	29.8	39.6	70	15	28	31	...	81	63	...	.155	.178	.....	.79	.43	5.6	5.7	....	5.7
April	28.542	28.896	27.880	41.9	56.9	.....	61.5	39.3	50.4	88	22	38	42	...	84	61	...	.233	.279	.....	5.20	1.64	6.4	5.8	....	6.2
May	28.713	29.120	28.230	50.4	64.6	.....	69.6	45.8	57.7	88	28	45	49	...	82	59	...	.319	.370	.....	4.94	3.94	5.0	6.0	....	5.9
June	28.604	28.940	28.202	61.7	73.1	.....	77.2	57.1	67.2	100	46	54	58	...	80	62	...	.444	.504	.....	3.11	.94	5.8	6.1	....	5.7
July	28.658	28.870	28.310	69.8	82.7	.....	86.8	65.7	76.2	101	53	62	62	...	77	52	...	.565	.574	.....	2.73	1.76	5.3	4.9	....	5.1
August	28.684	28.950	28.380	65.1	82.1	.....	86.4	61.8	74.1	97	47	58	58	...	78	45	...	.490	.502	.....	1.68	.84	4.2	3.8	....	4.3
September	28.686	29.070	28.240	53.5	65.2	.....	69.5	50.1	59.8	99	35	48	48	...	83	58	...	.343	.344	.....	4.57	1.79	6.0	6.8	....	6.9
October	28.719	29.070	28.340	44.6	58.3	.....	62.3	41.8	52.0	85	28	40	41	...	84	56	...	.254	.266	.....	2.70	.76	5.6	6.0	....	5.9
November	28.800	29.420	28.357	26.4	35.8	.....	40.4	22.6	31.5	56	−1	22	25	...	81	63	...	.121	.138	.....	.33	.16	5.2	5.9	....	6.1
December	28.739	29.400	28.210	20.3	27.8	.....	32.6	15.8	24.2	54	−12	16	20	...	84	73	...	.101	.116	.....	.14	.06	3.9	4.7	....	5.9
Year	28.683	29.420	27.880	40.2	51.7	.....	56.5	36.0	46.2	101	−18	35	38	...	82	62	...	.262	.284	.....	25.37	3.94	5.6	5.8	....	5.9

YELLOWSTONE PARK, WYO.

[ϕ=44° 58′ N.; λ=110° 42′ W.]

January	23.727	24.130	23.180	7.8	14.9	12.6	29.5	0.9	10.7	33	−26	4	8	8	81	71	79	0.052	0.064	0.065	1.09	0.33	5.7	7.3	7.1	7.7
February	23.759	24.160	23.460	9.4	17.6	15.1	22.7	4.7	13.7	39	−27	5	10	10	80	70	76	.060	.073	.071	.77	.19	6.6	7.7	6.1	7.2
March	23.734	24.160	23.290	22.2	33.1	32.5	37.9	18.5	28.2	52	5	17	21	20	79	60	59	.094	.112	.107	1.03	.24	5.7	7.3	7.2	6.9
April	23.729	24.020	23.228	27.7	40.4	38.7	43.1	24.9	34.0	58	13	22	24	23	77	52	54	.118	.127	.125	1.48	.82	6.9	7.6	8.4	7.9
May	23.875	24.130	23.510	33.3	52.6	52.4	56.5	30.9	43.7	76	22	26	27	27	74	41	40	.142	.148	.146	1.04	.39	5.5	6.9	6.5	6.2
June	23.886	24.110	23.426	43.0	62.1	60.4	66.3	40.4	53.4	84	30	35	36	37	74	41	45	.206	.217	.224	1.26	.36	5.3	6.1	7.4	6.3
July	23.998	24.190	23.771	50.2	74.0	73.8	77.9	47.8	62.8	89	37	39	41	41	67	34	35	.246	.266	.270	1.21	.48	2.5	4.3	5.1	4.7
August	24.035	24.200	23.877	51.8	75.7	74.4	79.8	49.7	64.8	87	42	41	41	40	68	31	33	.265	.267	.254	1.37	.96	2.4	4.1	4.0	4.0
September	23.918	24.140	23.700	37.0	55.2	53.1	59.1	34.6	46.8	79	25	31	32	32	79	45	50	.175	.186	.184	1.17	.53	5.2	4.9	5.5	5.6
October	23.991	24.350	23.490	33.3	50.5	46.6	55.5	29.8	42.6	67	17	24	26	26	68	42	46	.131	.144	.142	1.27	.61	4.3	4.9	4.5	5.2
November	23.996	24.280	23.670	19.7	28.6	25.2	33.0	13.4	23.2	45	−12	14	18	16	76	62	70	.086	.099	.093	.86	.26	6.0	6.7	5.1	6.7
December	23.878	24.210	23.422	23.9	29.7	27.3	32.7	19.2	26.0	47	−4	18	20	19	76	67	70	.101	.112	.104	1.84	.83	6.3	6.7	5.7	7.1
Year	23.877	24.350	23.180	20.9	44.5	42.7	48.8	26.2	37.5	89	−27	23	25	25	75	51	55	.140	.151	.149	14.39	.96	5.2	6.2	6.0	6.3

YUMA, ARIZ.

[ϕ=32° 45′ N.; λ=114° 38′ W.]

January	29.861	30.200	29.490	43.1	63.1	60.8	65.5	37.8	51.6	75	30	27	28	27	56	28	29	0.152	0.162	0.149	0.14	0.14	1.4	2.5	2.6	2.7
February	29.858	30.200	29.500	45.2	66.9	67.5	69.5	40.5	55.0	85	33	25	22	22	47	20	20	.141	.131	.128	T.	T.	2.2	1.3	1.6	1.7
March	29.785	30.120	29.420	51.9	74.0	75.8	78.3	47.7	63.0	93	37	32	28	26	50	20	17	.186	.162	.142	.02	.02	1.5	2.8	2.5	2.4
April	29.731	29.960	29.509	54.9	78.8	80.7	82.9	51.4	67.2	95	38	37	31	28	53	19	16	.227	.181	.162	T.	T.	1.4	1.1	1.4	1.2
May	29.645	29.920	29.302	63.5	91.8	93.6	96.0	60.4	78.2	102	52	42	32	30	49	13	11	.280	.188	.173	.02	.02	.5	.7	.8	.7
June	29.599	29.840	29.390	68.9	96.9	100.3	102.4	66.6	84.5	117	57	52	42	40	57	16	14	.408	.249	.271	0	0	1.2	.6	.6	.8
July	29.631	29.830	29.415	80.0	101.1	103.1	106.2	77.7	92.0	113	70	67	61	62	64	28	27	.659	.536	.619	.02	.02	2.5	1.8	2.5	2.0
August	29.658	29.820	29.480	81.8	99.3	100.1	104.8	79.0	91.9	113	73	69	66	66	67	35	34	.717	.647	.644	.69	.31	2.8	1.7	3.5	2.8
September	29.586	29.770	29.330	72.6	92.9	93.9	98.2	69.9	84.0	111	61	63	60	57	74	36	33	.591	.531	.491	1.47	.87	1.5	1.3	1.4	1.4
October	29.702	29.950	29.380	63.8	88.7	84.3	91.4	60.4	75.9	105	41	49	45	47	61	24	28	.373	.327	.347	T.	T.	.6	1.1	1.3	1.0
November	29.881	30.210	29.590	49.8	74.3	68.0	76.0	45.1	60.6	87	35	25	25	28	40	16	23	.141	.144	.162	T.	T.	.1	.3	.7	.4
December	29.899	30.260	29.576	50.2	71.7	65.4	73.6	44.8	59.2	79	36	29	29	32	46	22	34	.164	.165	.189	T.	T.	1.0	1.5	1.3	1.4
Year	29.736	30.260	29.302	60.5	83.3	82.8	87.1	56.8	71.9	117	30	43	39	39	55	23	24	.337	.285	.290	2.36	.87	1.4	1.4	1.7	1.5

DUTCH HARBOR, ALASKA

[ϕ=53° 55′ N.; λ=166° 30′ W.]

	*			†		†																†		†	
January	29.487	30.216	28.596	38.3	.....	39.8	44.9	35.3	40.1	56	28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
February	29.417	29.986	28.436	34.8	.....	37.5	40.8	32.2	36.5	47	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
March	29.756	30.526	28.746	31.1	.....	33.0	38.4	26.4	32.4	52	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
April	29.738	30.636	29.026	36.4	.....	41.4	44.4	32.3	38.4	52	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
May	29.658	30.189	29.036	39.1	.....	44.6	50.4	36.8	43.6	64	30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
June	29.642	29.946	29.053	45.0	.....	50.5	55.0	42.2	48.6	72	36	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
July	29.790	30.146	29.359	49.3	.....	53.9	59.0	47.0	53.0	70	38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
August	30.027	30.506	29.466	52.5	.....	57.9	65.3	48.2	56.8	80	41	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.31	2.08	6.0	.....	.....	5.7
September	29.512	30.046	28.566	47.6	.....	52.2	55.6	45.4	50.5	64	37	.....	.....	.....	.....	.....	.....	.....	.....	.....	7.32	1.32	6.8	.....	7.3	.....
October	29.453	30.166	28.806	38.8	.....	41.4	44.0	36.2	40.1	52	29	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.47	2.48	7.5	.....	8.6	8.9
November	29.446	30.296	28.536	36.5	.....	38.3	40.5	33.0	36.8	50	27	.....	.....	.....	.....	.....	.....	.....	.....	.....	10.20	3.22	7.5	.....	7.8	8.0
December	29.736	30.406	28.746	33.7	.....	34.8	37.7	29.5	33.6	43	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.24	.64	6.1	.....	6.8	7.1
Year	29.638	30.636	28.436	40.3	.....	43.8	48.0	37.0	42.5	80	12	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

* No diurnal correction applied. † At Dutch Harbor, hours 1 a. m. and 1 p. m., one hundred and sixty-fifth meridian time.

Annual meteorological summary for the year ending December 31, 1929—Continued

YANKTON, S. DAK.

[H_b=1,233 ft.; h_t=49 ft.; h_r=42 ft.; h_a=57 ft.]

Month	Wind: By self-register: Average hourly velocity	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 33 miles and over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temperature: 32° or below	Maximum temperature: 90° or above	Minimum temperature: 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles		*Mi.*																									
January	7.6	NW.	35	NW.	2	6	2	3	4	1	3	4	8	0	8	5	18	10	6	16	10	0	0	25	0	31	0	0
February	7.0	NW.	25	NW.	0	4	0	3	2	1	5	5	7	1	4	9	15	11	6	19	11	0	0	22	0	28	0	0
March	8.4	W.	33	NW.	1	2	3	3	1	4	2	10	4	2	9	11	11	8	4	4	3	0	1	2	0	21	0	0
April	8.0	E.	33	NW.	1	1	4	4	2	3	5	3	6	2	6	14	10	9	6	2	2	0	0	0	0	7	2	0
May	7.1	SE.	26	NW.	0	5	4	2	6	3	4	3	2	2	5	17	9	6	6	0	0	1	1	0	0	3	3	0
June	6.2	S.	34	NW.	1	2	2	4	4	7	1	4	4	2	9	10	11	14	12	0	0	1	2	0	3	0	9	0
July	5.6	S.	25	S.	0	0	5	3	1	6	6	6	3	1	9	16	6	8	4	0	0	0	0	0	11	0	7	0
August	5.2	SE.	22	N.	0	3	2	6	9	2	3	0	5	1	12	15	4	8	7	0	0	0	0	0	9	0	10	0
September	6.6	NW.	28	S.	0	3	6	1	6	3	2	3	4	2	5	9	16	11	8	0	0	0	3	0	3	0	2	0
October	6.2	W.	25	NW.	0	4	3	3	4	1	3	7	4	2	9	9	13	9	8	2	1	0	1	0	0	6	0	0
November	7.6	NW.	29	NW.	0	4	3	0	0	1	8	5	9	0	8	9	13	6	4	8	4	1	0	8	0	27	0	0
December	7.3	NW.	27	NW.	0	1	2	4	2	2	2	6	10	2	10	8	13	3	2	10	3	0	7	13	0	30	0	0
Year	6.9	NW.	35	NW.	5	35	36	36	41	34	44	56	66	17	94	132	139	103	73	61	34	3	15	70	26	153	33	0

YELLOWSTONE PARK, WYO.

[H_b=6,241 ft.; h_t=11 ft.; h_r=4 ft.; h_a=48 ft.]

January	5.9	SW.	24	SW.	0	9	3	1	0	17	25	6	0	1	4	6	21	19	10	24	19	0	0	30	0	31	0	0
February	6.4	SW.	26	SW.	0	13	4	1	0	10	15	5	8	0	4	7	17	16	7	24	16	0	0	25	0	28	0	0
March	8.3	SW.	34	SW.	2	5	3	0	0	16	23	6	9	0	5	7	19	14	8	18	14	0	0	9	0	31	0	1
April	8.5	SW.	29	SW.	0	9	3	0	1	15	21	4	5	2	3	4	23	14	7	18	13	0	0	3	0	25	0	0
May	6.7	SW.	32	SW.	0	12	6	2	0	10	16	6	10	0	5	13	13	11	8	11	7	0	0	1	0	22	2	0
June	7.4	SW.	48	SW.	2	11	0	0	0	10	32	5	1	1	4	11	15	14	8	3	2	2	0	0	0	3	10	0
July	6.3	SW.	30	SW.	0	11	1	2	0	8	29	7	4	0	11	13	7	7	6	0	0	1	0	0	0	0	6	2
August	6.3	SW.	36	SW.	1	6	1	0	1	9	31	11	3	0	13	12	6	8	4	0	0	0	0	0	0	0	10	0
September	5.8	SW.	28	NW.	0	13	3	1	0	6	14	9	14	0	8	11	11	11	7	6	5	0	0	0	0	15	1	0
October	6.3	SW.	30	SW.	0	8	1	1	0	2	26	12	12	0	11	7	13	7	5	3	3	0	0	2	0	21	1	0
November	6.0	SW.	26	N.	0	10	3	0	0	13	23	3	7	1	8	5	17	9	6	13	8	0	0	13	0	30	0	0
December	9.5	SW.	36	SW.	3	5	1	0	1	21	28	1	4	1	6	5	20	16	8	19	13	0	0	14	0	24	0	0
Year	7.0	SW.	48	SW.	8	112	29	8	3	137	283	75	77	6	82	101	182	146	84	141	100	3	1	96	0	220	30	3

YUMA, ARIZ.

[H_b=141 ft.; h_t=9 ft.; h_r=2 ft.; h_a=54 ft.]

January	4.2	N.	22	N.	0	20	13	3	3	11	2	2	5	3	20	9	2	1	1	0	0	0	1	0	0	7	0	0
February	5.8	N.	40	NW.	1	14	6	1	2	3	6	11	11	2	21	7	0	0	0	0	0	0	0	0	0	0	0	0
March	5.6	W.	27	N.	0	8	5	6	3	5	8	13	10	1	20	11	0	1	0	0	0	0	0	0	2	0	0	0
April	5.1	W.	26	NW.	0	4	2	2	6	10	8	16	8	4	26	2	2	0	0	0	0	0	0	0	4	0	0	0
May	4.6	W.	27	N.	0	6	2	5	1	9	13	17	5	4	29	2	0	1	0	0	0	0	0	0	29	0	0	0
June	4.3	SW.	20	SE.	0	3	3	5	2	6	20	15	3	3	27	3	0	0	0	0	0	0	0	0	27	0	0	0
July	4.6	SW.	19	SE.	0	2	0	7	13	7	21	7	2	3	25	3	3	1	0	0	0	0	0	0	31	0	3	0
August	3.7	SW.	28	NW.	0	4	5	2	11	8	16	9	4	3	16	15	0	7	5	0	0	0	0	0	31	0	14	0
September	3.3	SW.	25	NE.	0	5	8	1	9	4	15	9	3	6	25	3	2	3	2	0	0	0	0	0	30	0	3	0
October	2.9	SW.	17	W.	0	10	5	2	4	2	11	9	7	12	29	2	0	0	0	0	0	0	0	0	22	0	0	0
November	4.4	N.	28	NW.	0	23	12	1	0	3	0	0	12	9	28	2	0	0	0	0	0	0	0	0	0	0	0	0
December	3.5	N.	20	N.	0	16	15	1	0	2	2	1	15	10	26	4	1	0	0	0	0	0	0	0	0	0	0	0
Year	4.3	SW.	40	NW.	1	115	76	36	54	73	122	109	85	60	292	63	10	14	8	0	0	0	1	0	176	7	20	0

DUTCH HARBOR, ALASKA

[H_b=13 ft.; h_t=4 ft.; h_r=3 ft.; h_a= — ft.]

		*				†	†	†	†	†	†	†	†	†														
January	------	SE.	----	----	------	0	0	3	45	1	0	0	1	12	----	----	----	----	----	----	----	----	----	0	0	8	----	----
February	------	SE.	----	----	------	0	4	0	27	0	1	0	11	13	----	----	----	----	----	----	----	----	----	1	0	13	----	----
March	------	NW.	----	----	------	0	1	0	12	1	8	0	16	24	----	----	----	----	----	----	----	0	0	8	0	27	0	0
April	------	SE.	----	----	------	0	2	1	16	1	6	0	13	19	----	----	----	----	----	----	----	----	----	0	0	10	----	0
May	------	SE.	----	----	------	0	2	1	19	1	3	0	10	25	----	----	----	----	----	----	----	0	0	0	0	2	0	0
June	------	SE.	----	----	------	1	7	0	19	0	4	0	8	17	----	----	----	----	----	----	----	0	0	0	1	0	0	0
July	------	SE.	----	----	------	0	8	0	17	1	8	0	2	23	----	----	----	----	----	----	----	0	0	0	0	0	0	0
August	------	SE.	----	----	------	0	6	1	21	2	3	6	5	18	9	9	13	13	10	0	0	0	2	0	0	0	0	0
September	------	SE.	----	----	------	1	3	4	18	9	13	4	3	5	4	13	13	19	17	0	0	0	0	0	0	0	0	0
October	------	NW.	----	----	------	12	2	3	3	4	4	13	18	3	2	3	26	25	21	5	4	0	0	0	0	5	0	0
November	------	SW.	----	----	------	3	0	0	9	13	17	14	3	1	1	12	17	26	22	----	----	0	0	0	0	13	0	0
December	------	S.	----	----	------	1	0	1	6	13	15	7	7	12	3	14	14	18	16	9	8	0	1	4	0	20	0	0
Year	------	SE.	----	----	------	18	35	14	212	46	82	44	97	172	----	----	----	----	----	----	----	----	----	13	0	98	----	----

* By eye observations at this station.

† For hours of observation, see footnote on preceding page.

Annual meteorological summary for the year ending December 31, 1929—Continued

EAGLE, ALASKA

[ϕ=64° 46′ N.; λ=141° 12′ W.]

Month	Pressure: Extremes: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum*	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: 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	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	†		†	
January	29.260	30.010	28.600	−2.9		−1.1	4.9	−9.6	−2.4	24	−54										1.26	0.49	5.8		4.7	5.9
February	29.078	29.500	28.160	4.6		10.4	14.6	1.6	8.1	34	−49										.39	.28	7.0		6.1	6.7
March	28.894	29.350	28.183	−6.1		3.5	14.0	−12.5	0.8	50	−50										.28	.13	6.1		5.3	6.2
April	28.978	29.570	28.460	25.3		31.6	38.6	15.2	26.9	56	−23										.23	.09	6.2		6.5	6.5
May	28.998	29.420	28.550	44.4		49.7	56.9	31.6	44.2	70	23										1.45	.52	5.3		6.0	7.1
June	28.898	29.323	28.550	58.4		64.2	71.2	43.6	57.4	80	32										1.53	.99	4.8		4.9	5.1
July	28.930	29.290	28.600	55.8		60.4	66.5	45.7	57.1	79	29										2.89	.57	7.8		7.7	7.7
August	28.971	29.241	28.590	50.4		55.8	63.7	40.5	52.1	84	28										1.43	.30	6.5		7.0	6.8
September	29.056	29.311	28.740	42.4		49.8	59.4	35.5	47.4	70	22										.48	.33	7.0		6.7	6.8
October	28.848	29.210	28.082	30.8		33.7	40.9	26.4	33.6	58	0										.97	.18	8.2		6.6	7.3
November	28.983	29.750	28.286	14.4		13.9	20.2	8.0	14.1	37	−10										.57	.26	7.6		4.8	6.9
December	29.124	29.762	28.050	−9.4		−10.5	−2.3	−18.5	−10.4	29	−52										.14	.04	3.7		3.8	4.0
Year	28.985	30.010	28.050	25.7		30.1	37.6	17.3	27.4	84	−54										11.62	.99	6.3		5.8	6.4

KODIAK, ALASKA

[ϕ=57° 47′ N.; λ=152° 22′ W.]

Month	Pressure: Extremes: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum*	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°		°	°	°	°	°	°	*In.*	*In.*	†		†	
January	29.914	30.428	29.080	33.8		38.1	40.6	29.6	35.1	47	24						
February	29.789	30.240	28.650	36.6		39.6	42.4	32.4	37.4	48	23						
March	29.584	30.180	28.810	29.3		34.0	37.7	25.1	31.4	48	11						
April	29.784	30.460	29.000	34.2		40.0	44.1	31.6	37.8	57	22						
May	29.808	30.390	29.050	39.4		45.7	50.3	37.3	43.8	58	32						
June	29.761	30.290	29.250	45.5		51.0	54.2	44.2	49.2	67	39						
July	29.874	30.327	29.460	49.7		58.0	64.7	47.0	55.8	82	43						
August	29.837	30.150	29.130	51.2		57.7	63.2	48.5	55.8	74	44						
September	29.852	30.200	29.350	50.5		55.3	61.6	47.5	54.6	80	40						
October	29.264	29.900	28.320	42.8		45.9	51.9	38.9	45.4	74	26						
November	29.616	30.380	28.250	37.7		41.0	44.1	33.7	38.9	60	25						
December	29.727	30.440	28.720	31.5		34.5	39.3	27.0	33.2	62	17						
Year	29.734	30.460	28.250	40.2		45.1	49.5	36.9	43.2	82	11	53.42	1.74				

NOME, ALASKA

[ϕ=64° 30′ N.; λ=165° 24′ W.]

Month	Pressure: Extremes: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum*	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°		°	°	°	°	°	°	*In.*	*In.*	†		†	
January	29.866	30.600	29.150	20.8		20.1	27.8	13.5	20.6	39	−21						
February	29.792	30.530	29.250	11.6		12.9	19.7	6.5	13.1	38	−25						
March	29.812	30.510	29.221	−4.8		−1.2	11.7	−10.4	0.6	36	−31						
April	29.829	30.664	29.174	13.0		21.0	28.6	5.8	17.2	47	−19						
May	29.812	30.236	29.330	34.1		37.3	41.3	28.8	35.0	55	18						
June	29.812	30.220	29.350	51.1		54.9	62.3	38.6	50.4	73	27						
July	29.822	30.120	29.406	52.5		56.2	61.4	39.8	50.6	71	30						
August	29.782	30.224	29.070	45.9		50.6	55.2	37.4	46.3	66	24						
September	29.710	30.203	29.212	46.0		50.8	53.7	42.9	48.3	65	30						
October	29.634	30.146	29.239	20.8		28.2	32.5	15.1	23.8	53	−4						
November	29.573	30.160	29.141	22.5		22.2	27.2	15.3	21.2	32	−7						
December										32	−42						
Year										73	−42	17.36	.90				

TANANA, ALASKA

[ϕ=65° 10′ N.; λ=152° 06′ W.]

Month	Pressure: Extremes: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum*	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	*In.*	*In.*	°		°	°	°	°	°	°	*In.*	*In.*	†		†	
January	29.858	30.533	29.281	3.2		4.8	9.8	−1.1	4.4	35	−34						
February	29.712	30.215	29.060	6.3		7.9	13.4	2.4	7.9	36	−32						
March	29.601	30.040	28.960	−13.1		−0.5	8.3	−17.6	−4.6	37	−52						
April	29.674	30.420	29.155	17.1		28.3	34.1	9.7	21.9	51	−29						
May	29.662	30.150	29.140	43.0		51.1	56.9	33.8	45.4	66	21						
June	29.574	30.040	29.212	56.5		64.6	70.0	46.1	58.0	81	37						
July	29.606	29.903	29.240	55.2		64.4	70.6	44.9	57.8	80	32						
August	29.648	29.910	29.280	48.1		56.1	62.0	41.7	51.8	81	29						
September	29.686	29.970	29.303	42.3		48.3	55.0	39.7	47.4	63	28						
October	29.336	29.890	28.680	22.3		24.1	30.0	18.5	24.2	46	−4						
November	29.587	30.330	28.690	11.5		12.6	17.4	7.4	12.4	36	−10						
December	29.770	30.390	28.820	−10.4		−11.4	−3.4	−19.1	−11.2	27	−57						
Year	29.643	30.533	28.680	23.5		29.2	35.3	17.2	26.3	81	−57	18.63	.76	5.8		5.6	5.6

* No diurnal correction applied.

† At Eagle, hours 8 a. m. and 8 p. m., one hundred and thirty-fifth meridian time. At Kodiak, 2 a. m. and 2 p. m., one hundred and fiftieth meridian time. At Nome, 6 a. m. and 5 p. m., one hundred and sixty-fifth meridian time until end of August; 2 a. m. and 2 p. m. in September; afterward 5 a. m. and 5 p. m. At Tanana, 7 a. m. and 6.30 p. m., one hundred and fiftieth meridian time.

Annual meteorological summary for the year ending December 31, 1929—Continued

EAGLE, ALASKA

[H_b=815 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 33 miles and over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch and over	Precipitation: 0.04 inch and over	Snow: T. or more	Snow: 0.01 inch or more melted	Hail	Dense fog	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Miles.	*	*Mi.*			†	†	†	†	†	†	†	†	†														
January		NE.				9	14	14	6	1	0	4	8	6	11	3	17	11	5	14	11	0	0	31	0	31	0	8
February		E.				3	7	24	10	0	0	3	7	2	7	4	17	7	1	10	7			27	0	28		0
March		NW.				11	8	7	2	3	3	6	19	3	11	2	18	6	3	8	6			24	0	31	0	6
April		SE.				9	5	9	14	6	4	5	11	3	9	3	18	5	2	6	3	0	0	8	0	26	0	5
May		SE.				7	12	14	19	4	0	0	6	0	6	2	23	10	8	0	0	0	0	0	0	20	0	8
June		E.				12	8	15	8	2	1	2	12	0	13	4	13	10	5	0	0	0	0	0	0	0	2	2
July		W.				12	2	10	8	3	0	16	9	2	5	5	21	21	16	0	0	1	0	0	0	2	6	0
August		NW.				7	7	12	3	1	2	11	17	2	7	5	19	17	10	0	0	0	0	0	0	3	2	2
September		NW.				1	5	12	8	4	0	6	21	3	6	7	17	5	3	0	0	0	0	0	0	10	0	18
October		NW.				3	7	10	9	4	2	6	18	3	8	3	20	12	11	10	9	0	0	7	0	25	0	12
November		SE.				2	7	12	16	3	0	8	9	3	7	5	18	10	6	13	10	0	0	27	0	29	0	6
December		E.				5	10	18	4	1	0	14	5	5	18	2	11	6	2	9	6			31	0	31		18
Year		E.				81	92	157	107	26	12	81	142	32	108	45	212	120	72	70	52			155	0	236		85

KODIAK, ALASKA

[H_b=12 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

		*				†	†	†	†	†	†	†	†	†															
January		S.				2	2	1	6	9	4	0	2	36				14	13				1	0	0	25		
February		SE.				2	1	2	11	6	2	3	10	19				17	15					0	0	14		
March		N.				12	9	2	4	2	3	5	4	21				10	8					10	0	27		
April		NW.				4	8	0	8	4	5	5	16	10				11	11					0	0	15		
May		SE.				4	6	6	22	3	4	2	6	9				17	15	0	0				0	2		
June		SE.				5	8	4	14	4	0	2	6	17				19	14	0	0			0	0	0		
July		NE.				5	6	2	5	3	1	6	5	29				13	11	0	0			0	0	0		
August		NE.				6	10	3	5	3	4	7	7	17				12	12	0	0			0	0	0		
September		S.				4	1	1	14	17	9	1	1	12				18	15	0	0			0	0	0		
October		NW.				5	8	4	7	4	7	4	9	14				22	22	1	1			0	0	4		
November		SE.				1	4	3	14	2	7	1	4	24	8	7	15	18	17	0	0	0	0	0	0	13	0	2
December		NW.				5	4	1	3	4	3	4	10	28	13	9	9	10	9	4	1	0	0		0	28	0	1
Year		SE.				55	67	29	113	61	49	40	80	236				181	162						0	128		

NOME, ALASKA

[H_b=22 ft.; h_t=4 ft.; h_r=5 ft.; h_a=34 ft.]

		*				†	†	†	†	†	†	†	†	†															
January	14.4	NE.	40	NE.	9	18	27	11	4	0	0	0	0	2	5	9	17	18	13	19	16	0	1	23	0	31	0	2
February	14.3	NE.				14	21	7	5	0	0	1	7	1	7	8	13	9	5	11	9	0	0	16	0	28	0	3
March	8.9	NE.	43	NE.	5	11	30	4	4	1	3	3	5	1	13	10	8	10	6	11	10	0	0	30	0	31	0	11
April	8.6	NE.	39	NE.	2	0	23	5	5	0	3	10	4	10	9	6	15	9	5	8	6	0	0	16	0	30	0	0
May	11.0	NE.	32	NE.	0	2	25	5	10	4	11	4	1	0	7	10	14	8	5	9	6	0	0	0	0	23	0	0
June	7.7	NE.	29	N.	0	6	13	11	4	1	12	5	7	1	12	10	8	3	2	0	0	0	1	0	0	5	0	0
July	6.9	SE.	24	E.	0	2	4	7	12	5	18	3	8	3	8	11	12	10	8	0	0	0	0	0	0	2		0
August		NW.				1	8	5	14	4	10	6	14	0	11	4	16	15	10	0	0	0	1	0	0	10	0	0
September		NE.				2	25	8	14	6	1	2	2	0	0	12	18	22	17	0	0	0	0	0	0	2	0	1
October		NW.				11	5	1	2	0	0	19	23	0	11	15	5	3	2	7	2	0	0	16	0	28	0	7
November		NE.				15	16	11	3	5	0	4	6	0	1	14	15	16	11	18	16	0	1	30	0	30	0	0
December		NE.													13	11	7	9	7	10	9	0	1	31	0	31	0	5
Year		NE.													97	120	148	132	91	93	74	0	5	162	0	251		29

TANANA, ALASKA

[H_b=228 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

		*				†	†	†	†	†	†	†	†	†															
January		NE.				0	33	6	2	0	0	2	2	17	7	9	15	10	7	11	10	0	1	27	0	31	0	2
February		NE.				6	24	11	2	1	1	2	2	7	4	6	18	15	12	17	15	0	0	27	0	28	0	1
March		NW.				5	5	18	12	1	1	1	18	1	12	13	6	10	8	12	10	0	0	27	0	31	0	2
April		NW.				2	1	10	14	2	1	1	19	10	12	11	7	10	7	9	8	0	0	13	0	26	0	0
May		SE.				1	1	14	21	1	1	0	11	12	6	22	3	11	5	1	0	1	0	0	0	13	1	0
June		SE.				3	0	4	26	4	4	0	14	5	7	20	3	12	10	0	0	0	0	0	0	0	6	0
July		SE.				4	0	4	24	5	12	4	9	0	3	18	10	16	10	0	0	1	0	0	0	2	5	0
August		SE.				2	0	6	19	8	10	3	12	2	7	8	16	16	13	0	0	0	0	0	0	2	0	0
September		SE.				2	2	6	31	7	1	3	5	3	7	12	11	17	11	0	0	0	0	0	0	4	0	1
October		NW.				4	3	2	14	2	3	1	21	12	5	19	7	10	8	10	7	0	0	16	0	29	0	2
November		SE.				0	4	5	33	1	1	0	4	12	7	13	10	12	6	13	12	0	0	28	0	30	0	1
December		NW.				2	21	1	9	0	1	0	22	6	19	7	5	6	5	8	6	0	2	31	0	31	0	14
Year		SE.				31	94	87	207	32	36	17	139	87	96	158	111	145	102	81	68	2	3	169	0	227	12	23

* By eye observations at this station.

† For hours of observation, see footnote on preceding page.

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PART IV

MONTHLY AND ANNUAL PRECIPITATION, 1929 (ALL STATIONS)—MONTHLY AND SEASONAL SNOWFALL, SEASON 1929–30 (SELECTED STATIONS)—MONTHLY AND ANNUAL EVAPORATION, 1929

The precipitation values given in the following tables have been taken largely from the records of unpaid cooperating observers. Most of these observers have standard rain gages, the remainder having gages similar in pattern to the standard.

Occasionally the record for a station may be incomplete from various causes, either for a single storm or for a longer period. Where conditions were favorable, the missing data have been supplied by interpolation from the records of near-by stations. The monthly amounts in such cases are inclosed in brackets to show that the whole or some portion has been estimated.

The discrepancies between the amounts recorded by separate observers when two reports are received from the same place are often considerable; in general, they are due to differences in exposure, although at times one observer may make the last measurement of the month as early as 6 o'clock a. m., whereas the other may defer it to 9 p. m. or later, thus sometimes causing a difference in the amounts recorded on the first and last days of the month.

The monthly and seasonal amounts of snowfall for the winter of 1929–30 are given for selected stations in the United States, Newfoundland, and Canada.

The monthly and annual amounts of evaporation during the year 1929 follow the snowfall. The number of these reports at the present time is small, records appearing from only about half of the States.

The evaporation measurements are all made from cylindrical pans, 4 feet in diameter, 10 inches deep, placed on framework laid on the ground, and exposed as far as possible to full sunshine. A description of equipment and methods of observation appears in the Monthly Weather Review of December, 1916, pages 674 to 677.

Monthly and annual precipitation (in inches and hundredths) for 1929

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Alabama													
Alaga	5.80	6.53	10.89	3.04	6.93	4.72	5.95	1.63	4.25	5.91	5.04	4.05	63.84
Albertville	9.05	5.34	14.47	4.82	7.08	3.44	2.05	0.84	7.83	5.10	13.23	4.25	77.50
Anniston	4.96	7.15	12.58	6.13	6.25	3.96	7.17	0.72	6.00	3.01	11.71	2.90	72.54
Auburn	4.28	9.61	17.47	5.32	7.05	4.19	1.63	1.53	4.55	4.04	6.83	4.74	71.24
Bay Minette		11.63	22.74	3.30	3.13						10.14	4.97	
Benton	8.63	11.57	13.22	5.10	4.13	4.53	5.48	0.32	6.90	3.76	11.71	3.48	78.83
Birmingham	5.69	6.33	13.14	6.85	10.20	4.88	4.34	2.01	5.98	4.74	14.69	2.97	81.82
Brewton (near)		10.23	18.74	2.10	6.09	12.24	3.89	3.19	5.10	6.52	7.65	4.85	
Bridgeport	5.52	4.86	10.08	5.01	8.75	5.02	6.42	1.77	8.60	4.84	12.61	3.05	76.53
Calera	6.46	7.53	14.42	6.64	5.96	4.47	3.81	3.22	6.44	4.07	14.65	2.53	80.20
Camp Hill	4.40	13.08	15.35	5.00	4.75	3.28	2.07	2.86	3.70	5.13	11.12	2.70	73.44
Centerville	6.06	8.39	12.97	4.73	7.77	3.96	5.53	2.70	3.91	4.57	16.75	3.29	80.63
Citronelle	7.79	14.74	19.56	4.28	3.69	8.03	6.95	3.60	4.27	7.92	8.12	5.04	93.99
Clanton	6.68	9.90	18.38	4.76	5.52	3.97	2.75	2.89	6.23	5.79	13.95	3.03	83.85
Clayton	3.70		13.68	2.06	3.69	4.62	3.76	2.40	4.29	9.39	4.88	5.36	
Coffee Springs	6.88	11.47	19.77	3.80	6.06	5.70	6.22	3.15	11.70	4.39	4.36	4.37	87.87
Dadeville	3.40	11.49	15.92	4.43	6.45	2.36	1.09	1.51	2.93	3.64	10.86	3.40	67.48
Dancy	4.75	5.14	12.77	4.95	5.52	3.87	2.44	0.62	5.03	3.05	11.05	3.18	62.37
Decatur	5.40	5.14	11.45	3.70	4.62	3.69	3.49	0.67	5.81	4.86	7.77	3.27	59.87
Demopolis	5.99	8.78	14.49	4.41	3.78	4.36	5.10	0.72	3.86	3.01	11.53	3.19	69.22
Dothan	4.92	10.31	16.40	3.49	3.61	4.00	7.48	7.07	13.86	1.60	4.03	3.27	80.04
Elba	5.06	12.78	33.85				4.50	3.00	3.80				
Eufaula	5.51	16.49	14.33	1.60	4.20	5.31	2.77	0.15	3.93	8.98	5.07	4.15	72.49
Evergreen	4.93	9.92	24.09	3.10	3.99	5.34	3.09	2.29	5.27	5.45	12.73	4.49	84.66
Fayette	5.80	5.38	11.35	4.14	4.91	2.23	3.14	0.62	6.11	6.10	10.68	3.58	64.04
Florence	5.39	4.44	11.41	4.77	6.06	4.89	5.25	2.33	4.88	3.61	6.15	2.88	62.06
Gadsden	5.84	6.22	10.91	4.66	6.86	4.86	1.70	0.99	7.44	3.21	12.35	2.76	67.80
Geneva	4.32	8.90	17.90	3.10	6.92	4.93	4.94	2.10	4.08	5.21	4.18	2.79	69.37
Goodwater	5.09	9.62	14.91	4.10	6.58	4.37	2.81	1.90	6.08		12.33	4.06	
Greensboro	6.05	7.97	13.49	4.55	7.45	2.97	2.70	1.75	4.54	4.67	12.87	6.48	75.49
Greenville	5.46	9.65	12.89	4.60	4.15	4.26	4.61	4.49	5.49	5.78	12.34	3.62	77.34
Guntersville	6.05	5.56	10.73	6.17	8.31	1.63	1.95	1.45	10.57	5.10	13.46	3.85	74.83
Helena	5.67	7.10	12.49	4.95	10.05	4.92	2.15	1.90	8.38	5.83	20.59	3.05	87.06
Highland Home	5.52	10.18	17.38	4.73	3.92	4.91	3.02	1.09	4.97	7.48	11.77	4.89	79.86
Leeds	5.36	6.52	12.82	5.82	10.77	4.57	2.22	1.08	4.74	4.68	16.73	2.81	78.12
Lock No. 4	5.96	8.45	13.23	8.21	7.62	6.80	5.26	1.23	7.68	3.46	13.05	3.82	84.77
Madison	6.58	5.13	8.77	6.67	5.46	3.73	2.09	0.36	9.16	5.61	9.73	3.71	67.00
Maple Grove	5.26	5.12	9.44	4.64	4.40	4.00	3.35	1.21	5.96	3.30	11.81	2.54	61.13
Marion	5.84	8.32	12.60	4.52	4.55	2.96	4.87	1.33	3.12	3.73	8.82	2.15	62.81
Martin Dam	4.34	11.27	15.32	4.64	5.31	3.91	2.47	1.43	3.34	3.32	10.18	3.33	68.86
Mentone		6.39	11.91	7.37					7.50	3.31	14.23	4.71	
Millry	5.38	11.24	14.27	6.88	5.77	2.37	1.93	1.58	4.67	3.48	5.18	4.51	67.26
Milltown	2.80	10.40	15.90	5.98	2.55	7.87	1.80	0.70	5.76	1.42	9.55	2.15	66.88
Milstead	5.90	9.08	16.41	4.65	8.58	4.45	4.80	0.86	3.13	4.91	8.43	3.75	74.95
Mobile	6.47	9.13	20.23	3.58	5.21	11.83	3.11	6.88	5.26	4.49	8.23	4.92	89.34
Montgomery	4.30	10.34	15.38	7.56	7.27	4.68	3.94	0.82	5.42	3.21	12.01	3.32	78.25
McKenzie	4.36	9.12	24.93	2.97	5.02	5.52	5.55	1.83	8.92	5.25	8.92	5.45	87.84
Newton	7.40	11.55	18.13	3.49	6.39	6.82	6.03	2.08	7.25	7.86	3.22	3.41	83.63
Oneonta	6.35	7.23											
Ozark	6.71	15.21	21.71	2.18	2.83	9.42	3.84	2.72	2.64	9.54	4.32	3.23	84.35
Prattville	4.21	9.90	14.48	5.16	8.76	4.06	3.38	2.46	8.94	3.84	13.25	3.20	81.64
Primrose Farm	4.48	9.96	14.83	5.71	6.12	5.40	4.99	0.53	4.15	4.40	9.47	3.45	73.49
Pushmataha	8.07	10.50	18.04	4.85	6.16	4.49	3.37	1.47	5.72	3.31	12.09	3.34	81.35
River Falls	5.44	16.75	22.79	2.82	4.52	6.12	4.46	4.95	6.60	8.94	6.90	4.77	95.06
Riverton	4.62	4.83	8.80	6.82	6.44	5.10	3.95	2.32	7.63	3.62	4.85	2.62	61.58
Robertsdale	8.14	8.45	13.92	4.27	2.28	12.48	6.81	5.46	7.23	5.73	7.90	6.57	89.24
St. Bernard	8.39	4.70	12.91	6.55	7.87	1.70	3.15	0.76	6.56	6.66	15.60	4.39	79.30
Scottsboro	6.68	5.66	12.15	5.31	8.60	3.49	2.72	0.90	6.96				
Seale	4.77	11.19	17.23	3.17	5.63	4.28	3.00	1.71	5.71	7.71	7.50	4.59	76.49
Selma	3.88	10.06	14.41	4.03	3.73	4.97	4.70	3.19	6.50	4.22	7.32	3.97	70.98
Seven Hills	9.07	12.39	21.97	4.66	3.28	11.12	3.79	2.65	9.29	6.30	8.33	4.03	96.88
Silverhill	7.07	7.48	11.78	2.84	3.95	12.79	4.96	6.76	8.62	6.71	8.48	4.04	85.42
Spring Hill	7.51	9.69	23.13	3.89	3.36	17.09			5.32	4.71	6.05	3.33	
Talladega	4.75	9.24	10.30	5.45	5.40	5.63	5.45	0.15	6.03	3.47	15.81	2.55	74.23
Tallassee	4.69	11.09	15.22	5.11	6.75	3.57	5.30	2.29	3.14	4.35	9.65	3.74	74.90
Thomasville	6.20	14.37	15.48	4.57	2.71	5.43	1.62	2.31	4.23	6.45	6.15	4.05	73.63
Troy (No. 1)	4.18	12.76	19.67	2.16	6.08	3.94	4.10	3.36	6.20	6.86	8.53		
Troy (No. 2)	4.37	11.98	16.13	1.48	6.43	4.87	2.90	4.66	3.54	8.68	6.94	5.09	76.08
Tuscaloosa	7.01	7.52	15.46	3.95	6.51	2.31	2.76	3.24	4.76	4.66	19.25	3.91	81.34
Tuscumbia	4.72	4.47	9.34	5.90	7.40	3.73	2.66	1.94	6.13	3.48	6.30	2.48	58.55
Tuskegee	3.23	9.83	15.60	6.97	2.67	5.04	1.54	1.19	5.18	4.55	8.37	2.61	66.98
Union Springs				2.88	6.63	4.87	3.18	0.02	3.94	10.52	7.46	3.40	
Valley Head		7.36	11.45	6.87	8.75	5.00	3.08	0.66	3.60	3.51	9.18	2.45	
Wetumpka	5.50	12.22	14.56	4.40	10.83	4.04	1.57	2.30	3.72	4.59	14.45	3.38	81.56
Alaska													
Akiak	0.79	0.72	0.91	0.19	0.47	0.11	3.70	3.20	2.09				
Anchorage							3.12	1.96	2.72		0.32	0.35	
Annex Creek	8.30	7.08	6.69	4.13	4.80	5.48	6.78	6.10	8.31			0.17	
Barrow	0.41	0.17	T.	0.26	T.	0.48	0.45	1.39	0.39	23.72	20.94	5.43	107.74
Bell Island										0.60	0.10	0.03	4.28
Bethel	1.59	0.69	0.83	0.64	1.01	0.81	2.24	3.45	3.94	0.08	21.12	7.67	
Calder	8.70	5.13	9.07	2.51	3.59	5.96	7.58	12.17	1.52	23.09	1.20	0.36	16.84
Chernofski Harbor	10.20	8.91	3.52	3.61	5.41	3.03	2.96	2.62	4.98	5.60	19.14	9.63	108.09
Chickaloon	1.90	2.19	2.55	0.45	0.78	1.33	2.11	1.98	1.93	2.19	8.81	4.68	64.03
Chignik	15.45	19.34	5.17	6.14	22.98	13.09	6.57	2.14	34.34	14.78	1.61	1.14	20.16
Crooked Creek					1.25	1.94	3.77	4.08	0.84	1.65	27.99	4.48	172.47
Dillingham	1.20	3.73	2.06	1.41	1.59	0.57	2.56	3.71	4.03	1.81	3.95	0.66	27.28
Dutch Harbor								4.31	7.32	11.47	10.20	3.24	
Eagle	1.26	0.39	0.28	0.23	1.45	1.53	2.89	1.43	0.48	0.97	0.57	0.14	11.62
Eek					1.06								
Fairbanks (near)	3.21	1.10	0.50	0.90	1.20	1.77	3.82	1.26	0.59	1.07	0.42	0.25	16.09
False Pass	8.65	17.99	4.35	1.85	13.40	2.90	5.41	3.18					
Fort Yukon	0.44	0.22	0.08	0.08	0.30	1.25	2.22	1.46	1.12	0.65	0.45	0.14	8.42
Goodnews Bay	1.61	1.96	1.30	1.47	3.44								

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Alaska—Continued													
Haines	4.36	1.48	3.94	1.18	1.62	0.79	0.92	1.67	2.97	17.70	9.37	5.49	51.49
Holy Cross	1.39	1.20	2.05	2.25	1.39	0.86	3.12	3.45	3.73	0.20	2.25	0.15	22.04
Hooper Bay									3.43	0.18	0.72	0.62	
Jualin	6.14	3.97	5.35	[2.88]	[2.82]	3.33	7.29	5.09					
Juneau	9.09	7.24	6.15	3.34	4.74	4.15	4.81	5.08	5.52	17.31	17.56	4.58	89.57
Kake											11.26	4.39	
Kalsin Bay	8.92	7.50	4.90	9.99	19.31	5.54	3.41	2.85	11.32	17.81	17.36	7.19	116.10
Kasaan											11.92	7.30	
Kasilof											2.08	0.10	
Kennecott	3.05	4.91	1.60	1.43	0.03	0.90	3.52	1.79	3.09	4.21	2.16	2.72	29.41
Ketchikan	13.24	6.96	16.34	4.90	3.81	8.62	10.90	21.07	1.68	28.16	21.95	10.00	147.63
Klawock											14.56	7.82	
Kodiak (a)	5.48	4.75	3.29	4.14	8.17	3.34	2.63	2.28	4.82	7.27	5.71	1.54	53.42
Kotzebue					0.21	1.70	1.31	1.84	2.30	0.75			
Latouche	14.25	19.90	17.09	9.02	17.65	4.91	8.98	8.45	16.85	32.83	25.40	6.13	181.46
Lignite	1.78	.62	.20										
McKinley Park	2.43	0.04	0.02	0.95	3.21	1.16	4.11	1.55	0.00	1.05		1.05	
Matanuska	1.07	1.88	0.98	0.53	0.77	0.52	2.51	2.09	2.69	2.48	1.05	0.31	16.88
Mile Seven (Cordova) [1]	11.39	18.75	7.69	8.93	13.13	4.38	7.79	8.08	19.64	22.39	15.44	3.50	141.17
Naknek	0.05	3.57	0.87	0.34	1.65	1.00	3.55	2.67	5.26	2.46	2.27	1.48	25.17
Nikolski	6.48	4.05	2.17	1.91	2.16								
Nome	1.82	0.61	0.55	0.63	0.46	0.15	1.97	4.29	4.29	0.24	1.36	0.99	17.36
Nyac										0.06			
Petersburg											20.53	8.11	
Pilot Station									5.34		0.61	0.12	
Porcupine Creek	1.51	0.78	0.85	0.62	0.64	0.84	0.26	1.34	1.45	13.63	1.98	2.42	26.32
Quinhagak					1.09					0.19	1.70		
Rampart	1.16	0.78	0.20	0.29	0.60	0.33	0.55	2.02	1.08	1.83	1.03	0.37	10.24
Russian Mission	1.95	1.01	2.57	3.05	0.97								
St. Paul Island	2.00	1.38	2.90	1.55	1.63	0.80	4.04	6.17	3.56	1.16	2.35	1.88	29.42
Sevoonga									3.77	0.13	0.94	1.19	
Seward				3.18	5.39	0.88	4.19	2.70	9.81	15.77	13.84	2.19	
Shaktoolik	0.70		0.03							0.11	1.15	0.04	
Shelter Island	6.93	4.51	3.61	2.72	2.03	2.32	4.76	4.10	3.68	7.99	9.46	2.59	54.70
Shishmaref	0.28	0.12	1.71		0.42	0.50							
Sitka	9.65	9.86	10.10	2.53	4.79	1.59	6.83	4.25	4.53	17.71	20.76	5.85	98.45
Skagway	2.12	0.83	1.04	0.16	0.76	0.55	1.15	0.96	2.02	9.88	5.03	2.04	26.54
Sleetmute										0.19	5.66	1.36	
Speel River	13.16	11.75	10.77	4.12	6.84	5.05	8.54	6.25	9.53	28.58	26.98	9.11	140.68
Talkeetna	2.37	5.72	2.20	2.45	0.24	2.35	6.16	5.33	8.37	3.41	5.60	1.09	45.29
Tanana	1.78	1.51	1.13	0.83	1.26	1.51	2.68	3.51	2.36	0.98	0.49	0.59	18.63
Teller (Mission)	5.17	0.51											
Tree Point											20.18	8.18	
Valdez	4.11	10.69	7.07	3.87	4.01	1.54	3.89	4.07	12.70	15.01	13.38	3.05	83.39
Wales	1.49	1.26	2.73		0.86								
Whale Island			2.74	5.64	9.83	3.69	2.22	2.32	2.82	10.03	5.08	1.29	
White Mountain	10.24	0.17	0.09	0.37	0.03	0.01	0.25		4.17	0.10	1.55	0.57	
Wonder Lake					3.77	1.51	7.49	2.71	0.92	0.80	0.51	0.58	
Wrangell	8.65	5.99	7.28	2.73	3.08	3.16	5.91	8.50	2.06	16.25	20.71	7.64	91.56
Yakutat	13.31											13.12	
Arizona													
Agua Caliente	0.81	0.08	T.	0.00	0.00	0.00	T.	0.70	1.31	0.00	0.00		
Aguila	0.90	0.18	0.01	0.18	T.	T.	0.89	4.07	0.28	T.	0.00	0.00	6.51
Ajo	1.22	T.	0.07	0.06	0.01	T.	1.82	2.89	0.89	T.	0.24	0.00	7.20
Alamo Ranger Station	1.31	1.33	0.65	1.33	T.	0.20	3.86	1.38	1.19	0.50	0.00	0.00	11.75
Alpine	1.10		0.80	1.56	2.04	0.00	6.05	2.66	4.43	1.82	0.45	0.05	
Apache Powder Company	0.32	0.31	0.28	0.13	0.01	0.19	4.10	3.38	3.51	0.81	0.17	0.51	13.72
Ashdale Ranger Station	2.45	1.80	1.15	2.15			0.50	3.64	1.43	0.78	0.17	0.00	
Ashfork	0.56	0.31	0.46	0.36	0.00					T.	T.	0.00	
Baboquivari	1.50	2.20	1.20	0.30	0.05	0.21	6.11	7.52	2.43	0.10	0.04	0.21	21.87
Bagdad	0.56	1.02	0.15	0.43	0.00	0.00	0.98	3.06	0.89	0.07	0.01	0.00	7.17
Benson	0.18	0.52	0.14	0.12	T.	0.25	2.72	1.95	6.18	0.13	T.	0.42	12.61
Big Spring Ranger Station						0.02	2.13	4.64	1.61	0.25	0.00		
Bisbee	1.24	1.46	0.18	T.	T.	0.70	5.69	5.53	1.29	1.70	0.40	0.87	19.06
Blue	0.88	1.59	0.88	1.20	1.92	0.00	4.59	3.94	4.24	1.40	0.32	0.00	20.96
Bly Ranger Station			0.70	2.57									
Bowie	0.15	0.62	T.	0.00	0.00	0.45	0.82	1.41	2.98	0.22	0.52	0.41	7.58
Bright Angel Ranger Station	3.85		1.30	0.93	0.48	0.02	3.63	2.45	2.23	0.46	0.10		
Buckeye	1.09	0.12	0.02	0.02	0.00	0.00	0.67	1.17	0.65	0.00	0.02	0.00	3.76
Camel Back	0.88	0.32	0.15	0.55	0.01	T.	1.39	1.82	0.36	0.01	0.03	T.	5.52
Canille	1.07	1.08	0.39	0.21	0.01	1.17	7.93	6.84	2.09	0.54	0.63	0.77	22.73
Canon	1.61	1.02	0.34	0.88	0.00	0.00	0.63	1.45	1.03	0.30	0.00	0.00	7.26
Casa Grande	0.56	0.10	0.12	0.20	T.	0.17	1.89	1.32	0.79	0.00	0.11	0.00	5.26
Castle Hot Springs	0.85	0.99	0.30	0.63	T.	0.00	0.78	4.67	1.87	0.18	0.06	0.00	10.33
Cedar Glade	0.68	0.30	0.22	0.30	0.23	0.00	0.62	1.17		0.30	T.	0.00	
Chandler	0.67	0.25	0.14	0.36	T.	T.	0.98	1.62	0.22	T.	0.00	0.00	4.24
Childs	1.61	0.93	1.22	2.61	0.00	0.10	4.23	1.64	3.02	0.32	0.04	0.00	15.72
Cibecue	1.29	1.97	1.22	1.95	0.13	T.	2.67	4.56	4.24	1.41	0.56	0.00	20.00
Clemenceau	0.64	0.34	0.34	0.81	0.03	0.00	1.15	3.36	1.19	0.03	0.04	0.00	7.93
Clifton	0.03	0.53	0.02	0.41	0.93	T.	2.02	2.06	1.84	1.41	0.16	T.	9.41
Cochise Stronghold	0.96	0.85	0.23	0.15	0.05	0.03	7.37	1.00	1.87	0.26	0.20	0.55	13.52
Cordes	0.91	0.66	0.66	2.90	T.	0.10	1.48	1.30	1.33	0.39	0.08	T.	9.71
Cove Ranch					0.00				0.97				
Crown King	1.89	2.87	1.58	1.83	0.02	0.00	2.59	5.31	2.27	0.90	0.12	0.00	19.38
Douglas	0.26	0.37	0.14	T.	0.08	T.	6.45	3.79	3.44	0.24	0.22	0.69	15.68
Eagle Creek Ranger Station	0.57	1.14	0.79	0.59	0.99	T.	1.96	5.50	4.55	0.84	0.31	0.00	17.24
Edgerton	1.15	0.94	0.17	0.32	0.00	0.00	0.12	2.17	0.01	0.22	0.00	0.00	5.10
Elgin (near)	0.80	0.76				0.00	5.35	4.69	3.77	T.	0.27	0.72	
Fairbank	0.43	0.05	0.22	T.	0.08	0.00	3.66	0.93	2.03	0.42	0.05	0.72	8.59
Flagstaff	1.76	1.20	1.10	1.65	0.38	T.	5.43	3.03	0.74	0.14	0.08	0.01	15.52
Florence			0.25	0.71	0.00	0.00	0.46	2.39	2.92	0.00	0.00	0.00	

[1] Combined record of Cordova and Mile Seven; instruments continued at former till noon, June 7; then moved southeast 6 miles to Mile Seven.

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Arizona—Continued													
Fort Apache	0.77	0.87	0.45	0.89	0.14	0.13	5.79	1.92	3.92	1.08	0.56	0.00	16.52
Fort Defiance									2.60	0.79	0.13	0.06	
Fort Grant		0.14		0.25	T.	0.00	4.88	2.20	1.50				
Fort Mohave	0.16	0.09	0.00	0.00	0.00								
Fort Valley	3.24	2.50	2.14	0.97	0.84	T.	4.88	7.24	1.88	0.40	0.03	0.01	24.13
Ganado			0.35	1.01	0.70	0.00	4.28	1.88	1.93	0.79	0.20	T.	
Gila Bend	0.71	0.25	0.15	0.00	0.00	0.00	0.67	2.43	1.01	0.00	0.26	0.00	5.48
Gisela	2.22	1.82	0.30	1.55	0.02		2.73	1.00					
Globe	0.70	0.76	0.37	1.48	0.02	0.22	3.93	2.61	1.64	0.29	0.02	T.	12.04
Goodyear	0.40	0.20	0.12	0.34	0.00	0.00	1.04	1.24	1.06	0.00	0.00	0.00	4.40
Goulds Ranch	1.32	0.21		0.00	0.00	0.00	0.89	0.86	1.07	0.08	T.	0.00	
Grand Canyon	1.26	1.79	0.35	0.42	0.13	0.05	3.32	2.32	0.85	0.26	0.00	0.00	10.75
Granite Reef Dam	1.00	0.52	0.45	0.41	00.0	T.	0.78	0.60	0.22			0.00	
Heber Ranger Station			0.54	1.83	0.30		5.75	3.98	3.30	0.72	0.20	0.00	
Helvetia	1.31	1.99	1.21	0.47	0.28	1.05	9.83	3.63	3.85	0.36	0.18	0.52	24.68
Henrys Camp	1.14	1.30	0.75	1.43	0.40	0.38	5.90	7.14	4.58	1.56	0.47	T.	25.08
Holbrook	0.41	0.54	0.10	0.36	0.26	T.	3.79	1.97	0.65	0.36	0.14	0.02	8.60
Intake	0.62	1.17	0.29	1.20	0.04	0.00	1.94	4.69	0.78	0.36	0.00	0.00	11.09
Jerome	1.37	0.90	0.95	1.00	0.04	0.05	2.75	2.27	1.25	T.	0.01	T.	10.57
Kayenta	0.04	0.14	0.34	0.77	0.27	T.	2.76	1.77	1.85	0.27	0.01	T.	8.22
Keams Canyon	0.50	0.40	T.	0.80	1.06	0.00	4.41					0.00	
Kingman	1.00	0.78	0.03	0.32	0.00	0.00	0.68	2.70	0.42	0.03	0.00	0.00	5.93
Lakeside Ranger Station		0.89	1.25	1.85	0.14	0.04	4.29	5.18	3.87	1.76	0.45		
Lees Ferry	0.14	0.72	0.11	0.14	0.27	0.00	1.53	0.86	0.68	0.21	T.	0.00	4.66
Le Sage					0.00	0.00	T.	1.26	1.56	0.00	0.00	0.00	
Leslie Canyon	0.28	0.25	0.24	T.	0.07	T.	6.03	2.69	1.53	0.48	T.	0.63	12.11
Lewis Springs	0.50	0.05	0.34	0.00	0.00	0.23	1.87	3.33	0.29	0.64	0.00	0.48	7.73
Litchfon	1.08	0.35	0.05	0.15	T.	0.00	0.37	1.19	0.59	0.28	0.09	0.00	4.15
Maricopa	0.28	0.15	0.03	0.18	T.	0.00	1.00	2.07	2.83	T.	T.	0.00	6.54
Marinette	1.16	0.50	0.10	0.13	0.00	0.14	0.50	1.08	1.00	T.	0.00	0.00	4.61
Mesa	0.90	0.27	0.23	0.49	T.	0.09	0.79	1.14	0.57	0.04	0.00	T.	4.52
Miami	1.71	1.69	1.40	2.03	T.	T.	4.63	1.68	2.26	0.36	0.04	0.00	15.80
Mohawk	0.17	0.00	0.00	0.16	0.00	0.00	T.	0.18	0.03	0.00	0.00	0.00	0.54
Mormon Flats	1.14	0.73	0.73	0.59	T.	T.	1.95	2.98	0.40	0.28	0.00	0.00	8.80
Mormon Lake					0.22	0.00	3.40	2.54	1.09	0.33			
Mount Trumbull	0.84	0.79	T.	0.24	T.	T.	2.29	2.32	0.20	0.16	0.00	0.00	6.84
Naco	0.60	0.35	T.	0.00	0.14	T.	5.56	3.81	2.18	0.88	0.22	0.88	14.62
Natural Bridge	2.42	2.49	1.82	2.18	0.02	T.	6.25	4.34	1.91	0.83	0.12	0.00	22.38
Nogales	0.89	0.65	0.36	0.29	0.11	0.38	5.00	3.43	2.59	0.86	T.	0.64	15.20
Oracle			0.55	0.65	0.08	0.00	2.13	2.23	3.12	0.13	0.32	0.04	
Palmers Ranch	1.17	0.75	0.48	0.12	0.10	0.00	1.89	3.39	0.89	0.14	0.00	0.00	8.93
Paradise	0.94	1.41	0.37	0.16	0.04	T.	5.34	1.79	3.48	1.55	0.47	0.52	16.07
Parker	T.	0.00	0.00	0.00	0.00	0.00	0.38	1.48	0.95	0.00	0.00	0.00	2.81
Patagonia	0.82	1.01	0.41	0.29	0.01	1.27	5.26	3.65	2.44	0.77	0.33	0.91	17.17
Payson	1.96	2.07	0.72	2.50	0.16	T.	3.73	2.66	2.86	0.64	0.39	T.	17.68
Phoenix	0.92	0.28	0.13	0.43	0.01	T.	0.79	2.09	0.19	0.09	0.11	T.	5.04
Phoenix Indian School	1.14	0.39	0.08	0.63	T.	0.00	0.87	1.87	0.43	T.	0.00	T.	5.41
Pinal Ranch	1.99	1.77	2.43	1.43	0.26	0.00	4.70	1.94	4.10	0.31	0.00	0.00	18.93
Pinedale	1.22	0.86	1.51	2.09	T.	T.	4.28	1.48	2.27	1.85	0.45	T.	16.01
Portal	0.50	0.65	0.08	0.00	0.12	0.00	4.05	2.87	1.86	1.27	1.10	0.40	12.90
Prescott	1.81	1.74	1.58	1.06	0.10	0.00	2.61	4.14	2.66	0.05	0.13	0.00	15.88
Prescott Dry Farm	0.94	0.29	0.63	0.25	0.82	0.05							
Quartzsite	0.32	T.	T.	T.	0.00	0.00	0.20	3.78	0.67	0.77	0.00	0.00	5.74
Bedrock	0.53	0.56	0.04	0.60	0.00	0.00	0.90	1.71	4.24	T.	0.00	0.03	8.01
Reno Ranger Station	2.02	2.33	1.02	2.37	T.	0.00	1.96	1.68	2.13				
Rittenhouse Ranch												0.00	
Roll	0.54	T.	0.00	0.05	0.00	0.00	0.44	0.90	0.54	0.00	0.00	0.00	2.47
Roosevelt	1.40	1.49	1.45	0.99	0.02	0.13	2.05	3.15	1.23	0.95	T.	0.00	12.86
Rosemont	0.87	1.32	0.78	0.35	0.05	0.00	4.54	4.39	3.13	T.	0.27	0.91	16.61
Rucker Canyon	0.82	1.30	0.41	T.	0.40	0.16	6.28	5.32	3.53	1.56	0.21	0.77	20.76
Sacaton	0.44	0.37	0.10	0.26	T.	0.00	1.22	1.66	1.44	0.00	T.	0.00	5.49
St. Johns	0.41	0.45	0.54	0.34	0.40	T.	2.67	1.53	2.22	1.09	0.74	0.35	10.74
Salome	0.42	0.21	T.	0.02	0.03	0.00	0.38	1.10	0.04	0.00	0.00	0.00	2.20
San Rafael Ranch	1.10	0.72	0.54	0.22	0.12	1.50	9.06	2.63	1.83	0.97	0.00	0.75	19.44
San Simon	0.19	0.36	0.15	0.00	0.22	0.06	4.28	1.91	1.07	0.07	0.16	0.32	8.79
San Vicente	1.22	1.59	0.58	0.61	0.04	0.07	3.03	3.53	3.94	0.12	0.00	0.17	14.90
Santa Marguerita	0.93	1.50	1.01	0.35	0.00	0.10	3.63	6.20	1.38	0.00	0.00	0.00	15.19
Seligman	0.28	0.28	0.04	0.04	0.00	0.00	0.83	1.95	0.72	0.52	0.00	0.00	4.66
Snowflake	0.71	0.85	0.56	0.85	0.10	T.	5.93	2.87	2.14	1.18	0.33	T.	15.52
Springerville	0.33	0.70	0.25	0.45	0.69	0.00	4.54	5.80	1.63	1.09	1.06	0.02	16.56
Spring Valley Ranger Station							4.61	4.57	0.77				
Stephens Ranch	0.30	0.26	0.27	0.00	0.06	0.13	3.38	2.63	2.37	0.74	0.59	0.68	11.41
Supai	0.78	1.95	0.00								0.00	0.00	
Superior	1.48	0.95	1.71	1.13	0.00	0.00	1.88	1.82	2.69	0.15	0.00	0.00	11.81
Sycamore Ranger Station		0.95	0.76	1.31	T.	T.	2.82		1.13	0.40	T.	0.00	
Tempe Date Orchard	1.11	0.15	0.29	0.53	0.00	0.00	0.89	1.61	0.75	0.04	0.00	0.00	5.37
Tempe (No. 2)	1.03	0.23	0.35	0.59	T.	T.	0.63	1.62	0.55	0.05	0.06	T.	5.11
Thatcher	0.18	0.31	0.04	0.07	0.01	T.	1.02	4.19	1.48	0.60	0.14	0.05	8.09
Tombstone	0.99	0.24	0.34	0.00	0.17	0.00	5.87	3.77	1.40	0.81	0.08	0.54	14.21
Tonto Ranger Station	1.91	1.06	0.60	0.61	0.00	0.00							
Truxton Canyon	0.76	0.64	T.	0.23	0.35	0.00	0.36	2.99	0.60	0.27	0.00		
Tuba City	0.09	0.34	0.10	0.47	0.19	T.							
Tucson	0.26	0.52	0.08	0.24	T.	0.35	1.85	1.53	4.47	0.12	0.00	0.14	9.56
University of Arizona	0.28	0.49	0.17	0.17	T.	0.10	1.94	1.62	4.28	0.07	0.05	0.16	9.33
Wallace Ranger Station [1]	2.50	2.95	0.30	1.75	0.75	0.00	3.09	2.52	0.92	0.10	0.00	0.00	14.88
Walnut Creek Ranger Station						0.90	3.15	4.30	1.95	0.38	0.08	0.00	
Walnut Grove	0.70	1.05	0.93	0.26	0.00	0.00	1.84	2.99	2.73	0.00	0.10	0.00	10.60
Wellton	0.48	0.00	0.01	T.	T.	0.00	0.45	1.20	1.25	0.00	0.00	0.00	3.39
Wickenburg	1.02	0.69	0.13	0.52	0.00	0.00	1.57	2.44	0.19	0.00	0.00	0.00	6.56
Wikieup	0.18	0.52	0.14	0.00	0.00	0.00	2.12	2.02	1.53	0.00	0.00	0.00	6.51
Willcox (near)	0.30	1.08	0.25	0.22	0.00	0.00	2.22	3.86	4.33	0.20	0.56	0.40	13.42
Williams	1.79	1.56	1.13	1.31	0.30	0.00	2.52	4.37	1.65	0.34	T.	0.00	14.97
Winslow	0.39	0.21	0.24	0.90	0.19	T.	2.21	2.19	0.75	0.21	0.05	0.00	7.25

[1] Name changed from Waters Ranger Station.

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Arizona—Continued													
Wittmann	1.19	0.50	0.12	0.30	0.00	0.00	0.85	1.12	3.98	0.00	0.01	0.00	8.07
Yaeger Canyon	1.03	0.77	0.50	0.55	0.10	T.	5.16	4.19	0.67	0.17	0.10	0.00	13.24
Young	1.37	1.77	1.35	2.15	0.35	0.00	3.54	2.96	2.07	1.65	0.34	0.00	17.55
Yuma (Weather Bureau)	0.14	T.	0.02	T.	0.02	0.00	0.02	0.69	1.47	T.	T.	T.	2.36
Yuma Citrus Station	0.13	0.00	0.07	0.00	0.00	0.00	0.32	1.55	0.20	0.00	0.00	0.00	2.27
Yuma Date Orchard	0.12	0.00	0.07	0.00	0.00	0.00	0.00	0.91	1.60	0.00	0.00		
Arkansas													
Amity	3.27	1.97	1.48	1.91	3.14	1.63	1.66	1.84	3.89	5.18	3.22	3.39	32.58
Arkadelphia	5.29	4.00	3.90	2.97	5.00	2.94	2.96	0.32	1.64	5.07	2.92	4.46	41.47
Arkansas City	2.35	5.88	5.49	5.06	2.22	1.63	2.03	1.80	1.06	2.80	6.03	4.03	40.38
Arlberg	6.07	4.72	3.19	8.08	8.36	5.25	2.38	1.20	1.36	5.18	2.64	4.98	53.41
Batesville	5.86	3.23	4.54	7.46	7.39	3.63	2.88	0.66	1.22	4.15	1.05	2.81	44.88
Bee Branch	7.03	2.83	5.61	9.38	4.81	5.31	3.75	T.	0.93	3.63	2.60	4.89	50.77
Bentonville	3.92	2.90	2.05	7.85	9.93	8.05	3.68	0.20	3.81	5.92	1.42	2.71	52.44
Black Rock	6.77	3.37	4.53	9.38	7.85	3.63	2.97	2.65	3.87	5.48	0.99	4.47	55.96
Blytheville	3.76	3.98	4.57	7.95	6.10	3.95	3.80	4.72	1.74	2.32	2.19	2.31	47.39
Booneville	5.31	3.85	2.59	4.70	6.14	4.20	3.60	0.34	4.10	3.54	1.90	4.73	45.00
Brinkley	4.17	4.50	3.17	5.97	4.83	5.16	3.01	3.90	2.83	3.38	3.02	4.59	48.53
Calico Rock	5.26	4.00	2.05	7.55	6.59	3.89	3.20	0.82	1.11	5.87	1.40	5.70	47.44
Camden	4.71	3.55	4.42	3.40	3.55	0.02	2.50	0.36	1.53	1.64	5.27	4.23	35.18
Center Point	5.91	3.97	2.83	2.40	6.99	1.76	3.05	0.38	2.53	3.92	3.02	2.87	39.63
Clarendon	5.28	3.48	2.80	7.02	3.72	3.95	1.12	0.76	2.78	3.22	2.86	5.39	42.38
Clinton	5.84	5.29	6.27	5.92	6.66	2.16	2.52	0.54	1.13	5.01	3.08	5.27	49.69
Conway	4.39	4.59	4.03	6.20	7.94	4.10	0.44	1.37	1.85	4.05	2.22	2.42	43.60
Corning	7.26	4.59	4.99	10.02	5.97	3.58	2.32	3.46	1.09	2.21	1.82	4.05	51.36
Corning (river)	7.72	3.75	4.86	8.78	5.53	2.96	3.99	3.05	1.57	2.31	1.20	3.85	49.57
Cotter	5.77	5.51	1.35	5.16	7.50	3.94	3.23	2.33	1.55	5.65	1.15	3.96	46.40
Crossett	3.09	4.39	5.42	5.95	4.63	0.37	4.71	0.25	4.06	3.49	5.01	4.51	45.88
Danville	4.85	4.22	4.62	3.44	6.42	6.65	2.64	0.00	1.98	5.97	2.34	3.67	46.80
Dardanelle	5.08	4.72	3.25	5.75	5.13	3.90	2.49	0.29	2.61	6.75	2.59	2.10	44.66
De Valls Bluff	3.53	2.73	3.37	4.83	4.84	4.81	2.69	1.45	0.90	3.17	2.41	3.97	38.70
Dumas	4.63	4.49	4.85	3.85	3.88	1.11	3.24	1.60	0.57	3.78	4.22	3.91	40.13
Dutton	8.00	3.40	3.97	7.33	7.47	7.66	3.44	0.98	1.18	4.49	1.87	3.93	58.72
El Dorado	4.75	5.77	3.65	5.08	2.99	1.80	2.15	1.45	4.20	1.38	3.53	5.88	42.63
England	3.82	3.45	3.30	4.68	3.43	2.56	2.52	0.10	0.46	3.53	2.05	3.93	33.83
Eureka Springs	4.60	2.57	2.30	8.69	10.86	7.02	4.34	1.42	4.33	7.35	1.59	2.66	57.73
Fayetteville	5.02	3.68	2.37	6.90	7.47	6.66	5.02	0.35	5.07	6.00	1.12	3.12	52.78
Fort Smith	4.26	2.66	5.45	3.78	7.10	5.22	2.99	0.12	3.52	4.09	1.40	4.12	44.71
Freeman Springs	6.86	4.26	3.58	6.17	8.53	2.96	4.86	0.07	2.55	5.40	2.38	3.94	51.56
Fulton	5.72	3.65	3.82	3.58	5.99	0.74	4.84	0.94	2.45	2.38	3.63	2.69	40.43
Georgetown	2.78	2.60	4.09	6.43	7.95	5.38	1.36	1.86	1.97	2.74	2.31	3.28	42.75
Gilbert	5.82	3.79	2.83	7.67	7.11	3.15	3.95	0.98	1.75	6.02	1.71	3.84	48.62
Grannis	7.72	5.18	3.24	5.73	6.78	3.11	2.07	0.55	5.44	6.14	3.32	3.28	52.56
Gravette	3.54	2.92	3.04	9.11	11.08	6.68	2.77	0.16	4.19	8.62	1.28	1.99	55.38
Harrison	5.72	2.62	2.71	7.25	8.29	6.02	2.01	0.99	3.40	4.77	1.60	3.52	48.90
Helena	5.14	4.30	3.92	6.83	7.48	4.06	1.91	0.64	4.17	5.53	6.57	3.30	53.85
Higden	6.60	3.27	5.22	7.49	6.94	3.70	2.50	0.21	0.77	4.18	2.51	3.86	47.25
Hope	5.40	3.61	3.37	3.29	4.79	0.63	3.07	0.23	2.93	2.20	4.10	3.94	37.56
Hot Springs	6.09	2.00	4.10	5.62	6.46	5.02	2.78	1.48	3.22	4.14	4.49	2.85	48.25
Index	5.43	3.51	5.12	2.95	6.00	1.27	3.62	1.25	2.79	1.60	3.02	2.50	39.06
Jessieville	6.39	3.66	3.37	6.89	3.76		2.20		1.16	5.86	3.65	2.63	
Jonesboro	2.97	3.81	5.21	5.48	6.63	3.80	1.86	1.78	2.75	3.93	2.38	1.51	42.11
Junction	3.36	4.27		4.28	3.18		3.88	1.02	3.33		1.66	4.22	
Lambrook	3.45	4.48	3.16										
Lead Hill	5.11	2.16	1.81	5.94	9.39	3.74	2.10	1.46	3.14	4.80	1.61	2.71	43.97
Little Rock	3.69	2.38	4.72	4.93	6.20	4.25	1.20	1.95	1.43	4.76	1.85	3.81	41.17
Lurton	7.28	4.70	4.43	6.54	9.15	4.21	4.43	1.19	1.92	8.42	2.47	4.05	58.79
Lutherville	7.01	5.02	6.08	6.19	6.15	3.88	4.08	0.09	2.43	6.31	2.31	4.66	54.21
Magnolia	4.37	3.36	4.18	4.60	2.80	0.36	3.21	0.61	3.94	1.68	4.40	5.20	38.71
Malvern	6.79	5.03	3.78	3.87	6.51	3.24	2.87	0.21	0.87	5.57	4.37	4.45	47.56
Mammoth Spring	4.79	4.00	2.42	6.05	8.45	2.72	1.35	2.81	2.53	2.84		4.35	
Marianna	2.88	4.00	2.62	5.99	2.81	4.10	1.56	0.91	2.19	4.31	2.15	3.77	37.29
Marked Tree	4.32	6.24	3.76	5.68	10.02	3.64	1.41	1.77	2.87	4.08	2.85	2.64	49.28
Marshall	5.89	3.90	2.71	12.94	10.15	3.34	1.99	1.80	1.55	9.33	1.80	4.09	59.49
Mena	6.81	6.00	2.57	4.01	10.23	4.50	4.36	0.27	5.60	6.02	3.10	3.06	56.53
Morrillton	6.38	2.64	3.50	4.46	5.15	2.96	1.15	0.15	2.09	4.80	3.84	3.50	40.62
Mountain Home	5.58	6.00	2.23	4.73	6.62	4.11	4.71	1.78	1.60	7.92	0.78		
Mount Ida	5.62	4.14	3.09	5.54	7.66	2.51	2.87	0.18	5.79	3.97	2.98	2.88	47.23
Newport	3.67	3.29	4.31	5.62	5.33	5.55	2.48	1.55	1.23	2.99	1.88	3.40	41.30
Norman	5.10	4.65	3.31	5.51	8.98	3.18	3.49	0.40	4.57	3.88	3.15	3.67	49.89
Oden	5.03	5.58	2.15	2.80	6.51	3.23	2.51	3.35	2.85	4.75	2.77	3.83	45.36
Osceola	2.78	2.73	4.61	5.11	7.75	3.94	4.43	1.60	2.17	4.17	2.41	3.46	45.16
Ozark	6.29	3.15	5.55	3.92	8.69	8.02	2.92	0.35	2.45	6.02	1.76	4.36	53.48
Paragould	3.74	5.34	5.41	5.53	5.21	3.01	3.30	3.85	2.30	1.11	3.47	5.35	47.62
Patterson	2.77	4.89	3.97	5.74	6.11	6.73	0.65	0.65	0.77	3.55	2.31	3.48	41.62
Piggott	6.13	5.05	4.03	5.50	5.76	4.48	6.39	3.50	1.83	2.51	2.74	5.03	52.95
Pine Bluff	4.95	3.77	3.18	4.96	2.50	4.32	1.88	0.99	0.31	2.67	2.54	5.00	37.07
Pocahontas	7.02	3.04	4.36	7.66	7.93	4.64	4.26	3.87	1.82	4.02	1.54	5.59	55.75
Portland	3.38	4.07	4.82	6.07	4.44	1.38	5.12	2.33	2.64	3.85	6.32	3.94	48.36
Prescott	4.89	2.65	4.09	3.03	3.87	1.44	3.37	0.08	2.38	5.10	2.65	2.77	36.32
Princeton	5.59	3.55	5.82	2.82	1.98	1.22	3.07	1.60	1.25	2.32	3.18	3.70	36.10
Rison	4.46	4.17	3.40	5.03	3.22	0.36	1.71	1.87	1.69	2.87	3.03	4.18	35.99
Rogers	4.67	2.45	1.88	8.12	9.09	4.68	3.02	0.86	3.85	6.00	1.33	2.36	48.31
St. Francis	6.42	4.78	3.41	5.26	5.73	4.07	3.88	4.73	2.90	2.28	2.76	4.87	51.09
Saratoga					4.81	1.26	3.07	0.00	2.61	3.36	3.12	4.38	
Searcy	4.25		3.73	5.59	6.90	4.43	0.66	0.41	2.18	2.87	1.81	3.36	
Springbank	5.23	3.46	3.28	7.34	5.77	1.10	5.34	3.09	1.17	2.05	3.63	5.35	46.81
Story	6.20	5.21	3.99	5.03	5.65	3.73	3.27	2.52	2.28	4.79	2.33	4.26	49.26
Stuttgart	5.10	4.44	2.72	5.32	2.07	3.46	1.58	0.50	1.93	4.05	3.87	5.18	40.22
Subisco	5.83	4.60	4.30	4.65	5.27	6.39	2.78	0.14	2.87	5.44	2.29	3.78	48.34
Texarkana	5.61	3.76	4.08	3.67	8.27	0.95	3.60	0.30	2.33	1.86	3.02	3.56	41.01
Thornburg	6.07	4.56	3.67	6.72	8.73	5.56	4.87	1.22	2.87	5.14	2.39	3.30	55.10
Waldron	5.49	6.29	3.42	2.49	6.63	6.23	2.05	0.29	2.50	5.14	2.18	3.74	46.45

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Arkansas—Continued													
Warren	4.54	4.50	3.09	2.37	2.54	2.85	5.15	2.17	2.90	3.29	4.00	5.62	43.02
Waters	6.82	5.53	5.36	6.78	6.94	4.83	3.19	0.00	5.86	6.17	2.68	3.52	57.68
Whitecliffs	5.26	3.98	5.57	2.59	6.28	1.21	3.47	T.	2.94	4.55	3.10	3.95	42.90
Wilson	2.41	3.57	2.95	5.90	6.85	2.29	4.62	3.85	2.67	4.05	2.60	3.08	44.84
Winslow				6.32	10.26	6.88	6.46	0.51	2.23	5.10	2.72	3.61	
Wynne	4.08	4.49	4.70	10.28	11.52	3.35	2.00	1.85	1.75	3.84	2.60	4.05	54.51
Yancopin	3.90	4.63	4.05	4.62	2.43	2.88	2.65	1.83	1.20	3.92	4.47	4.14	40.72
California													
Abbotts	1.06	1.53	2.88	1.23	0.00	1.50	0.00	0.00	0.01	0.06	0.00	1.50	9.77
Aguanga	1.48	1.43	1.99	1.25	0.00	0.00	0.00	4.70	0.76	0.00	0.00	0.00	11.61
Alvarado (near)	1.05	0.99	0.70	0.75	0.00	0.93	0.00	0.00	T.	T.	0.00	1.84	6.26
Amago	2.92	3.27	4.23	3.39	0.00	0.12	0.00	0.31	1.16	T.	0.00	0.00	15.40
Amos	0.21	0.00	0.00	0.00	0.00	0.00	0.18	0.55	1.00	0.00	0.00	0.00	1.94
Angiola	0.64	0.86	0.94	0.37	0.00	0.21	0.00	0.00	0.29	0.00	0.00	0.11	3.42
Antelope Valley	0.85	0.73	1.16	0.58	0.00	0.06	0.00	0.00	0.62	0.00	0.00	0.04	3.44
Antioch	0.44	0.85	0.73	0.58	0.02	1.09	0.00	0.00	0.00	T.	0.00	1.27	4.98
Ash Mountain	1.16	2.88	4.73	3.09	0.09	1.76	T.	T.	0.04	T.	0.00	0.28	14.03
Auberry	2.10	2.14	3.85	3.26	0.00	1.84	0.00	0.00	0.74	0.00	0.00	0.69	14.62
Auburn	2.53	3.35	3.45	2.50	T.	2.64	0.00	0.00	0.00	0.00	0.00	7.55	22.02
Avalon	1.45	2.95	1.46	1.49	0.00	0.02	0.00	0.00	0.12	T.	0.00	T.	7.49
Bakersfield	0.53	0.45	0.77	0.60	0.00	0.37	T.	0.00	0.01	T.	0.00	0.01	2.74
Barrett Dam	3.18	2.74	2.87	1.55	0.00	0.00	0.00	T.	0.12	0.00	0.00	T.	10.46
Beaumont	1.90	2.24	1.99	2.46	0.00	T.	0.00	0.00	1.28	1.31	0.00	0.00	11.18
Beaumont (near)	2.24	3.14	2.27	2.32	0.00	T.	0.00	0.00	1.06	1.18	0.00	0.00	12.21
Belotta	2.27	1.10	1.46	1.09	0.10	1.33	0.00	0.00	0.00	0.00	0.00	2.35	9.70
Bensons Ferry	0.93	1.19	1.72	0.43	0.00	1.13	T.	0.00	0.00	0.08	0.00	2.75	8.23
Berkeley	0.90	1.45	1.75	1.26	0.03	1.19	0.00	0.00	T.	0.06	0.00	3.23	9.89
Betteravia	2.02	1.33	1.67	0.74	0.00	0.16	0.00	0.00	0.00	0.00	0.00	0.08	6.00
Big Creek	1.62	2.41	5.96	4.69	0.13	3.55	T.	0.00	0.66	0.16	0.00	1.32	20.50
Big Sur	2.14	5.25	6.46	2.17	0.00	1.67	0.00	0.00	0.03	0.00	0.00	6.31	24.03
Bishop Creek	1.05	0.41	1.72	0.42	0.64	0.69	0.08	0.69	0.20	0.00	0.00	0.35	6.25
Blue Canyon	3.35	4.51	4.92	5.72	0.02	4.36	0.00	0.00	0.00	0.15	0.00	11.72	34.75
Blythe	0.27	T.	0.02	0.03	0.00	0.00	T.	0.49	0.26	0.00	0.00	0.00	1.07
Bonita	1.35	1.58	1.43	1.66	0.00	0.00	0.00	0.00	0.39	T.	0.00	0.00	6.41
Bowman Dam	3.18	5.66	6.10	4.49	0.30	5.79	0.00	T.	T.	0.28	0.00	19.53	45.33
Brawley	0.08	T.	T.	0.00	0.00	T.	0.00	0.10	0.12	0.00	T.	T.	0.30
Bridgeport	0.56	0.89	0.35	0.44			0.31	0.12	0.80	0.00	0.00	0.83	
Brooks	0.69	2.37	1.93	0.76	0.00	0.77	0.00	0.00	0.00	0.75	0.00	7.97	14.74
Campo	3.19	3.95	2.95	1.99	0.00	0.00	0.00	3.23	0.52	0.00	0.00	0.00	15.83
Camptonville (near)	3.75	6.06	4.30	5.96	0.07	4.34	0.00	0.00	0.00	0.16	0.00	25.61	50.25
Canyon Dam	1.65	2.96	1.40	3.00	0.19	1.83	0.00	0.00	0.00	0.26	0.00	17.80	28.89
Cedarville	2.08	0.59	1.20	1.85	0.29	1.98	0.00	T.	0.07	0.19	0.00	3.02	11.27
Centerville Powerhouse	2.17	4.00	3.92	2.02	0.20	2.57	0.00	0.00	0.00	0.56	0.00	15.22	30.66
Chester	3.48	2.13	2.13	2.55	T.	2.90	0.00	T.	0.00	0.50	0.00	11.94	25.63
Chico	1.41	2.93	2.43	0.85	0.00	1.58	T.	0.00	0.00	0.22	0.00	7.97	17.01
China Flat	4.26	2.28	2.29	3.30	0.17	1.73	0.00	0.00	0.00	0.33	T.	11.16	25.52
Chula Vista	1.42	0.83	0.61	1.17	T.	0.00	0.00	0.00	0.36	0.00	0.00	0.00	4.39
Chute Camp	4.17	5.86	4.22	4.42	0.08	4.61	0.00	0.00	0.00	0.27	0.00	23.03	46.66
Claremont	1.69	1.74	2.08	2.16	T.	0.31	0.00	0.00	0.55	0.00	0.00	0.00	8.53
Clear Lake	1.05	2.15			0.00	1.21	0.00	0.00	0.00	0.00	0.00	6.98	
Clements	2.57	1.16	1.46	0.00	0.00	1.21	0.00	0.00	0.00	0.03	0.00	2.21	8.64
Cliff Camp	1.97	3.41	5.11	4.45	0.19	3.62	T.	0.00	0.33	0.00	0.00	1.68	20.82
Cloverdale	1.82	3.48	2.29	1.32	T.	2.86	0.00	0.00	0.00	0.05	0.00	12.40	24.22
Clovis (near)	1.55	0.84	1.52	1.17	0.00	0.56	0.00	0.00	0.01	0.00	0.00	0.53	6.18
Coalinga	0.57	0.48	0.49	0.35	0.00	0.18	0.00	0.00	0.04	0.00	0.00	T.	2.11
Colfax	2.78	4.44	4.03	4.00	0.10	3.32	0.00	0.00	0.00	0.30	0.00	13.04	32.01
Colgate	2.95	3.77	3.44	2.81	T.	3.90	0.00	T.	0.00	0.34	0.00	15.83	33.04
Colusa	0.66	2.12	0.97	0.69	0.00	1.28	0.00	0.00	0.00	0.02	0.00	5.57	11.31
Corona	1.50	1.30	1.32	1.20	0.00	0.00	0.00	0.00	0.65	T.	0.00	0.00	5.97
Crescent City	9.24	3.50	2.92	13.49	0.49	5.22	T.	0.13	0.00	0.61	0.11	20.34	56.05
Crockett	0.65	1.75	1.47	1.72	0.09	1.23	0.00	0.00	0.00	0.07	0.00	2.42	9.40
Cummings	6.82	4.27	4.03	5.30	0.50	3.52	T.	0.00	0.00	0.41	0.00	25.68	50.53
Cuyamaca	7.59	6.33	7.17	3.43	0.00	0.00	0.56	1.29	3.21	0.00	0.00	0.00	
Davis	0.54	1.56	1.34	0.34	0.01	0.94	0.00	0.00	0.00	0.09	0.00	3.77	8.59
Deer Creek	4.33	6.76	5.56	6.77	0.28	5.58	0.00	T.	0.00	0.12	0.00	22.54	51.94
Del Monte	1.51	0.39	1.93	1.06	0.00	1.07	0.00	0.00	0.01	0.00	0.00	1.24	7.21
Denair	1.43	0.90	0.88	1.10	0.20	1.30	0.00	0.00	0.00	0.38	0.00	1.06	7.25
De Sabla	3.36	5.85	4.59	4.16	0.28	3.41	0.00	0.00	0.00	0.50	0.00	24.34	46.49
Dinkey Meadow	1.93	3.42	4.93	4.11	0.21	4.19	0.02	0.00	0.91	0.07	0.00	0.91	20.70
Dinuba	1.20	0.76	0.59	1.08	0.00	0.38	0.00	0.00	0.00	0.00	0.00	0.58	4.59
Dobbins (near)	2.62	3.57	3.31	2.82	0.04	3.49	0.00	0.00	0.00	0.27	0.00	15.70	31.82
Downieville	3.92	4.99	5.52	6.15	0.29	4.82	0.00	0.00	T.	0.23	0.00	22.01	47.93
Doyle	0.08	0.45	1.33	0.80	0.10	1.40	T.	0.17	T.	0.20	0.00	6.88	11.41
Dudley	0.44	0.81	0.38	0.20	0.00	0.02	0.00	0.00	0.15	0.00	0.00	0.07	2.07
Dudleys	3.02	3.99	5.63	3.98	0.03	2.80	T.	T.	T.	0.10	0.00	3.45	23.00
East Park	0.25	2.33	0.88	0.27	T.	0.53	0.00	0.00	0.00	0.02	0.00	4.20	8.48
Edison (near)	0.36	0.50	1.79	0.87	0.00	0.61	0.00	T.	0.15	0.05	0.00	0.17	4.50
Electra	2.39	2.62	3.32	3.15	0.27	2.49	T.	0.00	0.00	0.15	0.00	4.44	18.83
Ellery Lake	5.79	2.98	7.06	4.65	2.26	4.43	0.12	0.11	0.26	0.00	0.00	4.80	32.46
Elliott	1.52	1.27	1.46	0.77	0.03	1.48	T.	0.00	0.00	T.	0.00	2.53	9.06
Elsinore	1.37	0.54	1.00	1.12	0.00	0.00	0.00	0.08	1.03	0.00	0.00	0.00	5.14
Escondido (No. 1)	2.28	1.83	1.97	1.93	0.00	T.	0.00	T.	0.53	0.02	0.00	0.00	8.56
Escondido (No. 2)	2.43	1.98	2.05	2.30	0.00	0.00			0.55	T.	0.00	0.00	
Eureka	4.31	2.06	2.31	2.61	0.14	2.39	T.	0.01	0.00	0.21	T.	7.13	21.17
Fairmont	1.26	1.22	1.19	1.70	0.00	0.02	0.00	0.00	0.27	0.00	0.00	0.00	5.66
Fall River Mills	1.17	1.34	1.56	2.05	0.15	1.55	0.00	0.00	T.	0.49	0.00	2.56	10.87
Firebaugh	0.56	0.59	0.53	0.59	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.31	2.98
Folsom	2.04	2.72	2.81	1.16	0.00	1.93	0.00	0.00	0.00	0.12	0.00	5.07	15.85
Fontana	2.37	2.22	2.34	2.31	T.	0.42	0.00	0.00	0.59	0.00	0.00	0.00	10.25
Fordyce Dam	5.13	6.62	8.70	7.68	0.52	5.05	0.00	T.	T.				
Fort Bidwell	2.34	0.98	0.88	2.34	T.	1.88	0.00	T.	0.27	0.33	0.00	2.95	11.97

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
California—Continued													
Fort Bragg	5.27	4.07	2.34	1.76	0.66	2.31	0.00	0.00	0.00	0.33	0.00	8.94	25.68
Fort Ross	2.11	3.21	1.45	1.45	0.12	2.46	0.00	0.00	0.00	0.58	0.00	13.98	25.36
Fresno	1.26	0.62	1.53	0.69	0.01	0.28	T.	T.	0.01	T.	0.00	0.50	4.90
Friant	1.70	0.66	1.40	1.54	0.00	0.78	T.	0.00	T.	0.00	0.00		
Gem Lake	3.01	3.93	7.12	2.10	0.80	0.42	0.00	0.62	0.29	0.07	0.00	3.87	22.23
Giant Forest	2.13	4.49	7.04	5.65	0.17	4.59	T.	T.	0.40	0.00	0.00	0.59	25.06
Glennville (near)	2.27	1.14	3.56	3.22	0.06	1.10	T.	T.	0.11	T.	0.00	0.22	11.68
Grass Valley	3.38	5.35	4.53	5.20	0.06	3.67	0.00	T.	0.00	0.37	0.00	15.48	38.04
Graton	1.55	3.43	3.00	1.79	0.04	1.94	0.00	0.00	0.00	0.06	0.00	16.83	28.64
Greenland Ranch	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Haiwee	0.48	0.17	0.21	0.12	0.00	0.00	0.00	0.26	0.51	0.00	0.00	0.00	1.75
Hamilton City	0.82	2.19	2.10	0.76	0.00	0.97	0.00	0.00	0.00	0.10	0.00	5.02	11.96
Hanford	0.81	0.61	1.40	0.81	0.00	0.24	T.	0.00	0.00	0.03	0.00	0.42	4.32
Happy Camp	4.26	1.95	2.64	4.14	0.49	1.38	T.	0.00	0.00	1.14			
Hat Creek	0.92	1.65	1.17	1.85	0.05	1.52	0.00	0.00	0.10	0.40	0.00	3.02	10.68
Hayfork	1.57	2.10	1.72	1.17	0.02	1.21	0.00	0.00	0.00	0.18	0.00	9.23	17.20
Healdsburg	1.81	3.73	2.36	1.45	T.	1.53	0.00	0.00	0.00	0.04	0.00	17.97	28.89
Helm	0.80	0.21	0.41	1.40	0.00	0.27	0.00	0.00	T.	0.00	0.00	0.51	3.60
Helm Creek	2.00	2.64	4.09	4.27	0.21	3.45							
Hetch Hetchy	1.64	3.61	5.71	4.40	0.41	3.61	T.	0.00	0.69	0.05	0.00	3.54	23.66
Hollister	1.03	0.92	1.17	1.20	0.00	0.59	0.00	0.00	T.	0.05	0.00	1.31	6.27
Hot Springs	2.51	2.28	6.19	3.46	0.03	1.66	0.00	0.00	0.02	T.	0.00	0.20	16.35
Hullville (near)	2.77	3.02	1.97	2.20	0.06	2.09	0.00	0.00	T.	0.16	0.00	17.14	29.41
Huntington Lake	1.88	2.04	4.91	3.25	0.22	3.25	T.	0.00	0.48	T.	0.00	1.67	17.70
Idria	0.60	1.30	2.05	0.58	0.00	0.25	0.00	0.00	T.	0.00	0.00	0.15	4.93
Imperial	0.15	T.	0.00	T.	T.	T.	T.	0.25	1.23	0.00	T.	T.	1.64
Independence	0.03	0.49	0.08	0.00	0.05	0.02	T.	T.	0.19	0.00	0.00	T.	0.86
Indio	0.04	T.	0.08	0.19	0.00	0.00	T.	0.31	0.84	T.	0.00	0.00	1.46
Inskip	6.31	6.28	4.04	6.72	0.30	4.00	0.00	0.00	0.00	0.60	0.00	29.08	57.33
Jenny Lind	2.36	1.60	2.16	1.20	0.17	1.39	0.00	0.00	0.00	0.18	0.00	3.11	12.17
Julian	5.71	6.05	7.37	4.39	0.00	0.00	1.20	1.40	3.00	0.00	0.00	0.00	29.12
Kennedy Mine	2.45	2.48	3.45	2.35	0.23	2.89	0.00	0.00	0.00	0.44	0.00	3.36	17.65
Kennett	2.51	6.22	3.08	4.86	0.03	2.94	0.00	0.00	0.00	0.63	0.00	35.84	56.11
Kentfield	1.38	4.70	3.28	2.97	0.00	1.75	0.00	0.00	0.00	T.	0.00	11.52	25.60
Kernville	0.74	0.51	1.93	1.09	0.00	0.18	0.00	0.00	0.28	0.00	0.00	0.00	4.73
King City	0.19	1.03	1.24	1.09	0.00	0.84	0.00	0.00	0.06	0.00	0.00	0.22	4.67
Kingsburg	0.75	0.58	1.78	0.96	T.	0.33	0.00	0.00	T.	0.00	0.00	0.48	4.88
Kingston	0.32	0.28	0.15	0.13	0.24	0.12	0.04	0.74	T.	0.00	0.00	0.00	2.02
Knight's Landing	0.52	1.59	1.49	0.45	0.00	1.02	0.00	0.00	0.00	0.04	0.00	4.06	9.17
La Grange	1.47	1.32	1.67	1.27	0.00	1.28	0.00	0.00	0.07	0.01	0.00	1.73	8.82
Laguna Beach	1.17	0.84	1.15	0.94	0.00	0.00	0.00	0.00	0.53	0.00	0.00	0.00	4.63
Lake City			1.49	3.49	0.02	3.19	0.00	T.	0.03	0.26	0.00	5.95	
Lake Eleanor	2.68	4.27	6.00	4.17	0.21	4.02	T.	0.00	0.10	0.02	0.00	3.84	25.31
Lakeport	1.92	2.19	1.32	1.29	0.00	1.28	0.00	0.00	0.00	0.00	0.00	10.41	18.41
Lake Sebrina	1.44	0.85	2.28	1.02	0.79	1.32	0.40	0.68	0.40	0.02	0.00	0.48	9.68
Lake Spaulding	3.66	5.97	7.05	6.02	0.26	5.82	0.00	0.00	T.	0.35	0.00	20.30	49.43
Lancha Plana	2.31	1.90	2.99	1.61	0.12	1.83	T.	0.00	0.00	0.17	0.00	2.69	13.62
La Porte	6.57	4.46	3.73	5.21	0.14								
Las Plumas	2.72	6.20	3.54	2.87	0.00	3.07	0.00	0.00	0.00	0.33	0.00	19.39	38.12
Lathrop	0.90	0.41	0.51	0.20	0.00	0.79	0.00	0.00	0.00	0.00	0.00	1.30	4.11
Le Grand	1.36	0.50	1.13	1.06	T.	1.01	0.00	0.00	0.00	0.00	0.00	0.25	5.31
Lemon Cove	1.28	1.27	2.58	1.80	0.00	0.37	0.00	0.00	0.00	0.00	0.00	0.46	7.76
Lick Observatory	2.44	2.07	6.08	2.68	0.20	2.01	0.00	0.00	0.00	0.00	0.00	3.16	18.64
Lindsay	1.07	0.82	1.46	1.37	0.00	0.33	T.	0.00	T.	T.	0.00	0.09	5.14
Livermore	1.26	0.87	1.07	0.70	0.03	0.83	0.00	0.00	0.00	0.01	0.00	1.81	6.58
Llano	0.74	0.29	0.66	0.82	0.00	0.08	0.00	1.10	0.05	0.08	0.00	0.00	3.87
Lodi	1.12	1.17	1.34	0.44	T.	1.03	T.	0.00	0.00	0.06	0.00	2.53	7.69
Long Beach	0.86	1.03	0.80	1.54	0.02	0.00	0.00	T.	0.37	0.05	0.00	0.00	4.67
Los Alamos	1.70	1.02	1.16	1.21	0.00	0.10	0.00	T.	0.00	0.00	0.00	0.11	5.30
Los Angeles	1.20	2.15	2.51	1.99	T.	0.15	0.00	0.00	0.00	0.32	T.	0.00	8.32
Los Banos	1.61	1.07	0.34	0.58	0.00	0.58	0.00	0.00	0.00	0.05	0.00	0.46	4.69
Los Gatos	0.69	3.62	2.76	1.73	T.	0.85	0.00	0.00	0.00	T.	0.00	4.53	14.18
Lundy Lake	1.37	1.09	2.13	1.33	0.65	1.25	0.17	0.14	0.49	0.00	0.00	2.01	10.63
Lytle Creek	5.37	6.10	5.59	5.27	0.00	0.52	0.00	0.00	0.50	0.00	0.00	0.00	23.35
McCloud	1.44	4.32	3.25	3.56	0.12	2.45	0.00	0.00	T.	1.86	0.00	14.60	31.60
Madera	1.43	0.58	0.93	1.66	T.	0.75	T.	0.00	0.13	T.	0.00	0.32	5.80
Maricopa	0.48	0.20	0.61	0.22	0.00	0.12	T.	T.	T.	0.00	0.00	0.02	1.65
Mariposa	3.26	2.64	3.98	4.11	0.00	2.01	0.00	0.00	0.07	T.	0.00	1.40	17.47
Marysville	0.81	2.60	1.21	0.63	T.	1.72	0.00	0.00	0.00	0.23	0.00	8.18	15.38
Mecca	T.	0.00	0.04	0.03	0.00	0.00	T.	0.30	1.39	0.00	0.00	0.00	1.76
Merced	0.92	1.00	1.40	1.31	0.00	1.09	0.00	0.00	0.00	0.00	0.00	0.46	6.11
Merced Falls	1.97	1.84	1.56	1.54	0.00	1.33	0.00	0.00	0.00	T.	0.00	0.91	9.15
Middlewater	0.28	0.05	0.38	0.19	0.00	0.12	0.00	0.00	0.13	0.00	0.00	0.18	1.33
Mill Creek (Amador Co.)	4.90	4.82	4.28	6.05	0.43	4.26	0.00	0.00	0.06	0.25	0.00	7.24	32.29
Mill Creek (San Bernardino Co.)	2.28	2.71	1.90	3.89	T.	0.04	0.00	1.36	1.00	0.44	0.00	0.00	13.55
Mineral	2.54	3.31	2.72	5.62	0.37	3.88	T.	0.00	T.	0.73	0.00	19.48	38.65
Modesto	1.11	0.82	1.16	0.32	T.	1.01	0.00	0.00	T.	0.06	0.00	1.22	5.70
Montague	0.47	1.31	0.24	0.83	0.27	0.18	0.00		0.00	0.31	0.00	5.56	
Mount Shasta	1.20	3.30	3.10	2.20	0.15	1.55	0.00	0.00	0.00	1.90	0.00	9.10	22.50
Mount Wilson	3.42	3.59	2.94	3.84	T.	0.31	0.00	T.	0.23	0.07	0.00	0.00	14.40
Napa	1.08	1.18	1.80	1.87	0.08	1.95	0.00	0.00	0.00	0.04	0.00	5.10	13.10
Needles	0.26	0.05	T.	0.16	0.00	T.	0.22	0.51	0.30	0.00	0.00	0.00	1.50
Nevada City	2.63	5.33	4.10	4.43	T.	3.36	0.00	T.	0.00	0.11	0.00	15.76	35.72
Newman	1.16	1.05	0.25	0.35	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.80	4.13
Nicolaus	1.23	2.14	1.60	1.00	0.00	1.73	0.00	0.00	0.00	0.27	0.00	6.52	14.49
Norden	4.90	5.80	7.04	5.60	T.	2.71	0.00	T.	T.	0.11	0.00		
North Bloomfield	2.08	3.23	3.65	4.35	0.05	3.90	0.00	0.00	0.00	0.30	0.00	17.42	34.98
North Fork	2.16	2.82	4.80	3.48	T.	2.46	0.00	0.00	0.13	0.00	0.00	1.03	16.88
Oakdale (near)	1.85	1.15	2.15	0.89	0.00	1.46	0.00	0.00	0.00	0.04	0.00	1.60	9.14
Oakland	1.20	1.91	1.59	0.96	0.04	1.62	0.00	0.00	0.00	0.12	0.00	4.74	12.24
Ojai	1.88	2.17	1.66	1.70	T.	0.21	0.00	0.00	0.07	T.	0.00	0.00	7.69
Orland	0.60	2.30	1.33	0.28	T.	1.98	0.00	0.00	0.00	0.06	0.00	4.51	10.36
Orleans	5.00	1.37	2.44	3.94	0.41	2.42	T.	0.00	0.00	0.59	0.00	13.40	29.57
Oroville	1.30	3.90	1.91	1.27	0.00	2.03	0.00	0.00	0.00	0.26	0.00	14.51	25.18

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
California—Continued													
Oxnard	1.65	0.88	1.39	1.94	0.00	0.19	0.00	0.00	0.42	0.00	0.00	0.08	6.55
Ozena	1.20	0.39	1.48	0.82	0.27	0.06	0.00	0.23	0.00	0.13	0.00	0.00	4.58
Palm Springs	0.31	0.00	0.00	1.10	0.00	0.00	0.00	0.00	1.80	0.00	0.00	0.00	3.21
Palo Alto	0.71	1.02	0.76	0.88	0.04	1.17	0.00	0.00	0.00	0.15	T.	1.66	6.39
Parkfield (near)	1.39	1.46	1.32	0.94	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.11	5.31
Pasadena	1.53	1.93	2.99	3.62	0.96	0.19	0.00	0.00	0.54	0.02	0.00	0.00	10.82
Paso Robles	1.27	1.65	1.22	0.49	0.00	0.49	0.00	0.00	0.01	T.	0.00	0.24	5.37
Pattiway	0.96	0.66	1.73	0.48	0.00	T.	0.00	0.00	0.00	0.00	0.00	0.02	3.85
Petaluma	1.39	2.08	1.32	1.08	T.	1.57	0.00	0.00	0.00	0.06	0.00	5.74	13.24
Piedra	1.59	1.05	2.51	1.35	0.00	0.53	0.00	0.00	0.00	0.00	0.00	0.68	7.71
Placerville	3.15	4.60	4.17	2.70	0.15	3.05	0.00	0.00	0.00	0.38	0.00	7.77	25.97
Point Loma	1.65	0.95	1.14	0.76	0.07	0.01	T.	0.00	0.30	T.	T.	0.00	4.88
Point Reyes	1.19	1.68	1.42	0.83	0.03	1.18	0.00	0.00	0.00	0.26	0.00	5.06	11.65
Point Reyes Station	2.30	1.87	2.02	1.61	0.00	2.22	0.00	0.00	0.00	0.05	0.00	10.56	20.63
Pomona	1.54	2.15	2.22	2.13	0.03	0.27	0.00	T.	0.73	0.01	0.00	0.00	9.05
Porterville	0.80	0.68	2.03	1.29	0.00	0.38	0.00	0.00	0.04	0.00	0.00	0.05	5.27
Portola			1.07	1.30	0.40	1.60		0.01	0.00	0.01	T.	7.53	
Priest Valley	0.87	2.33	2.49	1.40	0.00	0.68	0.00	0.00	0.54	0.00	0.00	0.59	8.90
Quincy	1.33	2.61	2.96	2.38	T.	3.00	0.00	T.	0.00	0.60	0.00	17.08	29.96
Ramona	2.59	1.82	2.41	1.23	0.00	0.00	0.00	T.	0.76	0.00	T.	0.00	8.81
Red Bluff	1.47	2.21	1.26	1.12	0.12	1.26	T.	0.00	0.00	0.10	0.00	4.18	11.72
Redding	1.74	6.32	2.56	3.52	0.11	2.19	T.	0.00	0.00	0.66	0.00	7.86	24.96
Redlands	1.74	1.63	1.26	2.48	T.	0.04	0.00	0.10	0.59	T.	0.00	0.00	7.84
Represa	2.20	2.91	2.64	1.11	0.03	2.24	0.00	0.00	0.00	0.12	0.00	5.85	17.07
Rio Vista	0.86	1.24	1.70	0.41	T.	0.93	0.00	0.00	0.00	0.11	0.00	2.71	7.96
Riverside	1.39	0.83	0.92	1.46	T.	0.03	0.00	0.00	0.63	0.00	0.00	0.00	5.26
Rocklin	1.90	1.77	2.90	1.34	0.00	1.06	0.00	0.00	0.00	0.27	0.00	5.65	14.89
Ruth		2.94	2.70	3.27	0.27	2.04	0.00	0.00	0.00	0.33	0.00	15.71	
Sacramento	0.88	1.44	0.78	0.44	0.04	1.02	T.	0.00	0.00	0.15	0.00	4.06	8.81
St. Helena	1.59	3.02	2.39	1.33	T.	2.37	0.00	0.00	0.00	T.	0.00	12.24	22.94
St. John	0.83	2.22	1.58	0.49	0.00	0.88	0.00	0.00	0.00	0.00	0.00	4.96	10.96
Salinas	1.24	0.99	0.90	1.19	0.00	0.93	0.01	0.00	0.02	T.	0.00	1.43	6.71
San Bernardino	2.28	1.89	1.80	2.41	0.00	0.12	0.00	0.00	0.53	0.05	0.00	0.00	8.88
San Diego	0.90	1.14	1.22	0.57	0.05	T.	0.00	0.00	0.26	0.00	T.	0.00	4.14
San Fernando	1.47	1.55	1.15	2.33	0.00	0.13	0.00	0.00	0.29	0.00	0.00	0.00	6.92
San Francisco	1.32	2.14	1.56	1.01	0.01	0.86	T.	0.00	T.	0.01	0.00	3.09	10.00
San Jacinto	1.64	1.00	1.55	1.50	0.00	0.18	0.00	0.25	1.20	0.00	0.00	0.00	7.32
San Jose	0.86	0.61	1.31	0.92	0.11	1.45	0.00	0.00	0.00	T.	0.00	0.78	6.04
San Luis Obispo	1.96	2.90	1.78	1.39	0.00	0.34	0.00	0.00	0.05	0.00	0.00	0.33	8.75
San Pedro	0.77	1.06	1.86	2.40	0.00	0.10	0.00	0.00	0.23	0.03	0.00	0.03	6.48
Santa Ana	1.55	1.37	1.66	1.09	0.00	0.11	0.00	0.00	0.53	0.07	0.00	0.00	6.38
Santa Ana River	2.88	3.56	2.89	4.62	T.	0.06	0.00	0.33	0.97	0.01	0.00	0.00	15.32
Santa Barbara	1.53	2.28	2.39	1.17	0.00	0.20	0.00	0.00	0.05	0.00	0.00	0.00	7.62
Santa Clara	0.85	0.69	1.27	0.95	0.07	0.95	0.00	0.00	0.00	0.01	0.00	0.83	5.62
Santa Cruz	1.05	1.90	1.65	1.95	0.00	1.75	0.00	0.00	0.35	0.00	0.00	3.20	11.85
Santa Maria	2.28	1.22	1.61	0.94	0.00	0.16	T.	T.	0.01	0.02	T.	0.15	6.39
Santa Rosa	1.48	2.10	2.10	1.30	0.13	2.48	0.00	0.00	0.00	0.04	0.00	12.47	22.10
Scotia	3.11	3.25	3.15	2.20	0.16	1.75	0.00	0.00	0.00	0.16	T.	9.37	23.15
Scott Bar	1.78	0.65	1.45	1.02	0.24	2.11	0.07	0.00	0.00	0.57	0.00	10.79	18.68
Seriterre	0.36	3.68	2.70	1.57	0.07	2.06	0.00	0.00	0.00	0.39	0.00	12.12	22.95
Seven Oaks	2.76	2.86	4.39	3.64	0.15	0.22	T.	0.67	0.82	0.10	0.00	0.00	15.61
Shield's Ranch	0.21	1.18	1.40	0.68	0.60	1.52	0.15	0.05	T.	0.15	0.00	1.36	7.30
Sierraville	1.70	2.26	3.00	1.53	T.	2.07	0.00	0.09	0.00	0.14	0.00	8.20	18.99
Sonora	3.11	2.64	3.57	3.39	0.23	3.06	0.00	0.00	0.05	0.11	0.00	3.16	19.32
South Lake	1.01	1.18	2.19	1.43	0.56	1.27	0.53	1.01	0.54	T.	0.00	0.89	10.61
Spreckels	0.96	0.66	0.94	1.02	0.00	0.78	0.00	0.00	0.00	0.00	0.00	1.20	5.56
Springville (near)	2.97	3.25	6.50	4.33	0.00	2.92	0.12	T.	0.37	0.00	0.00	0.05	20.33
Squirrel Inn	6.82	10.16	5.37	5.26	T.	0.14	0.00	0.85	0.61	T.	0.00	0.00	29.21
Steele Swamp	0.78	0.32	0.77	2.61	T.	0.89	T.	T.	0.02	0.48	0.00	2.17	8.04
Stockton (No. 1)	1.12	0.78	0.79	0.47	0.00	0.92	0.00	0.00	0.00	0.06	0.00	1.78	5.92
Stockton (No. 2)	1.25	0.83	1.03	0.49	0.00	1.04	0.00		0.00	0.10	0.00	1.78	
Stony Gorge Reservoir	0.31	2.41	0.78	0.20	T.	0.87	0.00	0.00	0.00	0.01	0.00	3.58	8.16
Sunnydale	0.86	0.80	0.95	0.95	0.02	0.75	0.00	0.00	0.00	T.	0.00	0.64	4.97
Susanville	1.22	1.60	1.55	0.84	T.	1.15	0.00	0.00	0.00	T.	0.00	5.63	11.99
Tahoe	1.85	3.14	3.50	3.07	0.06	2.63	0.20	0.33	0.34	0.10	0.00	9.46	24.68
Tehachapi	0.95	0.60	2.04	1.53	0.05	0.55	0.00	0.10	0.05	0.00	0.00	T.	5.87
Tejon Rancho	2.50	0.45	3.05	1.10	0.30	0.00	0.00	0.00	T.	0.00		0.15	
Three Rivers	1.54	1.82	2.90	2.51	T.	0.91	T.	0.00	0.03	T.	0.00	0.20	9.91
Trona	0.56	0.59	0.25	0.45	0.03	T.	T.	0.06	0.18	0.02	0.00	0.00	2.14
Turlock	1.02	1.04	0.59	0.96	0.14	0.93	0.00	0.00	0.00	0.12	0.00	0.96	6.02
Tustin (near)	1.67	1.20	1.06	1.39	0.00	0.11	0.00	0.00	0.58	0.05	0.00	0.00	6.06
Twin Lakes	4.16	4.38	8.13	7.77	0.15	4.78	0.00	0.00	0.04	0.45	0.00	6.30	36.16
Ukiah	2.29	3.55	2.30	2.45	0.16	1.70	0.00	0.00	0.00	0.02	0.00	14.11	26.58
Upper Mattole	3.70	7.05	4.65	5.90	0.35	2.35	0.00	0.00	0.00	0.50	0.00	20.80	45.60
Vacaville	1.03	2.43	1.79	0.77	0.04	1.16	0.01	0.00	0.00	T.	0.00	5.52	12.75
Ventura	2.25	1.17	1.60	0.21	0.30	0.23	0.00	0.00	0.50	0.00	0.00	T.	6.02
Visalia	1.19	0.77	1.31	0.89	0.00	0.09	0.00	0.00	T.	0.00	0.00	0.29	4.54
Wallace	2.30	2.79	1.92	1.12	0.00	1.42	0.00	0.00	0.00	0.04	0.00	2.67	12.26
Walnut Creek	1.00	1.43	1.36	1.19	0.00	0.93	0.00	0.00	0.00	0.09	0.00	2.74	8.74
Warner Springs	2.12	1.94	2.61	1.43	0.00	0.00	0.14	2.12	1.61	0.00	0.00	0.00	11.97
Wasco	0.52	0.28	1.45	0.57	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.09	3.01
Watsonville	1.17	2.44	1.72	1.45	0.00	1.22	0.00	0.00	0.03	T.	0.00	3.73	11.76
Weaverville	1.74	1.79	1.44	1.82	0.09	2.20	0.00	0.00	0.00	0.28	0.00	10.58	20.03
West Branch	5.81	6.92	4.70	7.18	0.10	3.95	0.00	0.00	0.00	0.39	0.00	32.50	61.55
Westhaven	0.87	0.51	0.51	0.29	0.00	0.33	0.00	0.00	0.08	0.00	0.00	0.03	2.62
West Point	3.39	3.48	4.19	5.00	0.46	3.46	0.00	0.00	0.09	0.21	0.00	5.33	25.61
Westwood	0.91	1.69	0.73	1.39	0.02	2.68	0.00	T.	0.00	0.32	0.00	12.63	20.37
Willows	0.45	2.05	0.91	0.34	T.	0.93	0.00	0.00	0.00	0.05	0.00	3.75	9.07
Woodland	0.56	1.61	1.73	0.59	0.01	0.69	0.00	0.00	0.00	0.07	0.00	3.81	8.48
Wrights	1.55	0.28	3.49	2.44	0.00	1.93	0.00	0.00	0.01	0.00	0.00	10.41	26.11
Yorba Linda	1.62	1.75	1.67	1.32	0.00	0.03	0.00	0.00	0.35	0.01	0.00	0.00	6.75
Yosemite	1.83	3.21	6.82	4.44	0.57	3.14	0.33	T.	1.50	0.01	0.00	3.40	25.25
Yreka	0.83	0.68	0.35	1.05	0.46	0.68	0.00	0.00	0.00	0.31	0.00	7.72	12.08

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Colorado													
Ames	2.12	1.51	4.34	1.93	2.06	0.22	3.64	2.98	3.22	1.60	0.47	0.30	24.39
Arriba	T.	0.35	0.21	1.49	0.80	1.02	0.82	2.35	1.75	1.25	0.90	0.00	10.94
Auldhurst	0.44	0.40	1.20	0.30	2.63	1.48	5.20	6.71	3.02	1.17	1.21	0.24	24.00
Bianca	0.25	T.	T.	0.35	1.45	0.00	2.97				0.40	0.10	
Bloom	T.	0.33		0.16	3.51	1.05	1.12	5.64	1.03	0.75	0.84	0.15	
Boulder	0.36	0.73	2.57	1.60	1.50	1.75	4.06	2.61	1.79	1.70	1.89	0.66	21.22
Buena Vista	0.27	0.40	0.67		1.46	0.00	3.33	4.48	1.40	0.15	0.50	0.03	
Burlington	T.	0.33	0.07	2.66	2.80	1.64	2.31	2.46	2.60	1.70	0.65	0.00	17.22
Calhan	0.20	0.42	1.50	0.74	1.28	0.24	3.30	3.41	1.35	0.72	0.81	0.05	14.02
Canon City	0.16	0.51	0.91	0.06	0.27	T.	4.75	4.43	1.73				
Cascade	3.15	3.02	2.56	3.20	0.47	0.00	4.52	2.46	6.26	0.26	0.30	0.40	26.60
Castle Rock	0.20	0.43	1.54	1.47	1.36	1.89	2.57						
Cathedral	0.25	0.57	0.57	0.47	1.22	0.06	3.08	4.55	1.91	1.11	0.09	0.18	14.06
Cedaredge	0.86	0.84	0.62	1.31	1.84	0.23	1.51	0.81	3.89	0.66	0.28	0.03	12.88
Cheesman	0.08	0.41	1.37	0.40	1.30	0.31	5.79		1.65	0.86	0.78	0.26	
Cheyenne Wells	0.14	0.63	0.05	1.61	2.80	0.84	1.02	3.13	1.88	0.75	1.45	0.25	14.55
Collbran	1.22	0.53	1.89	1.92	2.00	0.31	1.44	1.32		2.07	0.60	0.20	
Colorado Springs	0.07	0.02	1.23	0.22	1.70	0.50	1.41	7.09	1.50	0.50	0.82	0.19	15.34
Columbine	3.32	2.13	4.48	2.62	2.68	0.86	1.53	2.21	3.72	2.23	0.60	0.60	26.98
Columbine Ranch	3.78	3.07	2.56	3.26	2.62	0.55	1.91	3.69	6.19	1.76	0.46	0.16	30.01
Cope	0.05	0.71	0.02	1.65	1.36	2.98	3.48	1.62	3.43	1.89	1.17	0.20	18.56
Cortez								3.78	1.75	0.26	0.30	0.09	
Crested Butte	2.10	2.37	3.42	1.69	0.68	T.	4.72	3.86	5.82	1.49	0.45	0.19	26.79
Cuchara Camps	1.06	1.61	2.00	0.73	4.01	0.16	5.10	4.30	1.93	1.45	2.64	0.38	25.37
Cumbres	4.81	4.35	4.30	3.57	1.02	0.01	5.56	5.99	3.62	0.79	1.25	0.10	35.37
Del Norte	0.03	0.30	0.50	1.15	2.18	0.00	3.20	2.10	1.55	0.73	0.65	0.00	12.39
Delta	0.77	0.60	0.58	0.86	1.01	0.00	0.90	1.42	3.46	0.35	1.49	0.00	11.44
Denver	0.14	0.78	2.16	1.69	1.65	0.67	1.63	2.72	1.34	1.00	1.32	0.32	15.42
Dillon	0.72	0.81	4.50	0.40	1.75	0.00	0.57	4.13	0.75	1.51	0.46	0.45	16.05
Durango	1.60	1.34	0.79	2.04	0.97	0.04	3.16	4.95	3.03	0.64	0.14	0.10	18.80
Eads	T.	0.17	0.05	1.09		1.29	1.34	3.53	2.20	0.52	0.18	0.02	
Echo Lake	0.00	0.45	2.10	1.04	3.36	0.53	5.80	4.65	1.47	1.78	1.26	0.51	22.95
Edgewater	0.36	0.98	2.34	0.55	1.85	0.17	1.62	2.33	1.61	1.64	1.95	0.86	16.26
Elk Creek	0.24	0.83	1.49	1.61	2.52	0.40	6.30	5.56	1.79	1.38	1.36	0.35	23.83
Estes Park Fish Hatchery		0.45	0.83			0.00	5.30	2.40	2.30	0.08	0.38	0.01	
Fort Collins	0.21	0.70	1.78	2.37	1.08	1.09	0.46	2.35	2.13	0.89	0.93	0.09	14.08
Fort Lewis	1.24	1.74	0.95	1.21	0.68	0.00	4.13	3.91	3.34	1.19	0.20	0.18	18.77
Fort Lupton (near)	0.35	0.37	0.99	0.56	2.15	0.46	0.82	1.02	1.29	0.92	0.71	0.20	9.84
Fort Morgan	T.	0.51	0.30	5.22	1.51	0.17	1.24	2.29	2.61	1.36	0.50	0.00	15.71
Fraser							4.76	1.98	1.88	1.79	1.23	1.11	
Fremont Experiment Station	0.29	0.71	2.08	0.81	3.13	0.91	4.80	6.62	1.82	1.47	1.18	0.32	24.74
Fruita		1.45	0.91	0.28	1.33	T.	1.40	0.02	2.96	0.20	0.30	0.12	
Garfield	3.85	4.08	2.86	1.21	1.09	T.	3.14	4.34	2.95	2.33	1.23	0.39	27.47
Garnett	0.00	0.06	0.20	0.19	0.50	0.00	1.48	3.25	0.85	0.82	1.07	0.06	8.48
Glenwood Springs	1.57	1.18	2.71	1.40	1.68	1.05	1.52	1.55	3.00	1.70	0.21	0.43	18.00
Grand Junction	0.95	0.79	1.02	0.49	0.45	0.08	2.72	0.99	2.16	0.41	0.74	0.10	10.90
Greeley	0.04	0.35	1.42	3.01	0.75	0.91	0.63	0.60	2.11	1.39	0.86	0.02	12.09
Grover (near)	0.05	0.37	0.15	3.62	0.83	1.03	2.30	2.17	2.03	0.28	0.59	0.00	13.62
Gunnison	1.23	0.92	1.44	0.42	0.72	0.00	2.40			0.31			
Hartsel	0.32	0.23	0.27	0.08	0.96	0.02	3.73	2.07	0.65	0.19	0.42	0.08	9.02
Haswell	0.00			1.05	0.86	0.64	1.71	1.66	0.86	0.96	0.85	0.48	
Hawthorne	0.34	0.91	2.83	1.29	1.98	1.51	2.55	3.34	2.40	1.70	2.59	0.77	22.21
Haxtun	0.00	0.52	0.30	3.25	1.05	1.84	2.86	2.08	2.56	2.67	0.92	0.00	18.05
Hayden	1.34	1.60	2.99	2.54	1.40	0.21	0.78	1.13	5.19	1.69	0.52	0.06	19.45
Hermit (near)	0.68	0.65	0.89	0.67	1.01	0.40	3.49	3.36	5.01	0.09	0.11	T.	16.36
Holly	T.	0.50	0.43	1.01	2.60	1.59	1.10	4.38	3.40	0.80	0.49	0.05	16.35
Holyoke	0.00	0.10		3.50	1.65	2.26	5.14	2.85	3.21	2.03	1.40	0.13	
Howbert (near)	0.22	0.20	0.90	0.48	3.33	0.16	6.67		1.60				
Huerfano (near)	0.01	1.80	0.35	1.50	0.40	0.00	2.20	5.13	1.60	1.90	1.58	0.35	16.82
Idaho Springs	0.11	0.31	1.20	0.60	2.02	0.58	4.77	2.78	1.23	1.07	0.84	0.29	15.80
Ignacio	1.84	1.26	1.47	1.90	1.29	0.03	4.65	4.12	4.02	0.55	0.04	0.13	21.30
Julesburg	0.06	0.54	0.22	3.25	1.33	0.54	2.59	2.23	2.97	1.69	0.66	T.	16.08
Kassler	0.22	0.76	1.51	2.12	2.10	0.44	2.60	2.88	1.55	1.59	1.75	0.47	17.99
La Junta	0.03	0.34	0.35	0.81	1.84	0.75							
Lake Moraine	0.49	0.87	2.65	0.79	3.41	0.95	8.22	8.99	1.59	1.65	1.90	0.58	23.09
Lamar	0.00	0.22	0.43	0.62	2.99	1.35	1.15				1.20	0.10	
Las Animas	0.00	0.23	0.15	1.45	2.36	0.11	2.63	3.50	0.80	0.13	0.45	0.00	11.81
La Veta Pass	1.98	1.68	1.22	T.	3.35	T.	1.78	3.84	1.03	3.49	3.86	0.60	22.83
Lay	1.28	1.59	2.47	1.90	1.42	0.60	0.87	2.02	4.21	1.32	1.11	0.17	18.96
Leadville	0.82	1.02	2.81	1.00	1.08	0.84	6.17	5.86	2.19	1.22	0.76	0.47	24.24
Le Roy	T.	0.80	0.83	3.55	0.95	1.81	3.28	2.60	2.96	3.45	2.09	0.04	22.36
Limon											0.43	0.00	
Long Branch	0.05	0.55	0.55	1.35	1.23	1.78	1.31	1.36	1.47	0.57	0.57	0.10	10.89
Longmont	0.14	0.65	1.79	1.58	1.40	0.28	2.56	2.67	0.93	1.02	1.39	0.02	14.43
Longs Peak	0.60	0.80	2.18	0.46	2.41	0.68	8.24	3.93	2.81	1.77	0.57	0.12	24.57
Manassa	T.	0.07	0.08	0.17	1.17	T.	1.08	1.98	0.51	0.59	0.68	T.	6.22
Mesa Verde Park	1.44	1.24	0.95	0.44	1.20	0.03	3.34	5.16	3.00	0.81	0.06	0.16	17.83
Montrose	0.64	0.42	0.93	0.64	1.38	0.00	1.30	1.07	3.07	0.49	0.25	0.20	10.39
Monument	0.28	0.45	1.15	0.94	2.06	0.56	3.51	5.11	1.89	1.25	1.21	0.06	18.47
Nast	1.26	0.97	4.03	1.01	0.50	0.00	2.30	0.26	0.33	0.15	0.06	0.05	10.92
North Lake	0.53	1.39	1.54	0.54	2.30	0.96	3.35	7.74	1.33	1.21	1.53	0.26	22.68
Norwood (near)	0.09	0.65	1.18	0.43	1.39		3.54	0.62	2.85		0.16	0.25	
Ordway	0.02	0.26	0.68	1.07	0.27	1.40	1.49	3.64	0.47	0.60	0.62	0.20	10.72
Pagosa Springs (near)	2.16	2.75	2.27	3.19	1.23	0.70	8.01	4.26	5.98	0.89	0.35	0.04	31.83
Palisade	0.37	0.14	1.07	1.35	1.16		1.36	0.70	2.94			0.10	
Paonia	2.18	1.45	1.81	1.80	2.13	0.14	1.73	1.29	3.43	1.04	0.76	0.09	17.85
Pearl	1.03	2.11	2.73		2.60	1.21	2.06	1.89	3.02	1.82	0.66	0.58	
Peetz	0.13	1.13	0.53	7.13	1.60	1.67	2.10	1.70	3.48	3.56	1.07	0.02	24.12
Penrose (near)	0.22	0.27	0.45	0.58	1.07	0.30	3.42	3.56	2.01	1.00	1.67	0.31	14.86
Pitkin	1.90	1.59	1.66	1.42	0.77	0.09	5.28	3.36	3.91	0.97	0.47	0.18	21.60
Pueblo	0.19	0.78	0.30	0.78	1.11	0.15	1.22	4.44	0.51	0.79	1.14	0.65	12.06
Rico	3.67	1.20	1.91	2.58	1.23	T.	5.68	3.85	5.89	1.62	0.11	0.38	28.12
Rifle					0.58	0.30	0.80	0.11					
Rocky Ford	0.02	0.01	0.24	1.30	0.88	1.88	2.18	3.18	0.98	0.43	0.56	0.24	11.85
Rugh Ranch	0.28	1.05		0.42	0.15	0.35	3.59	1.41		1.75			

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Colorado—Continued													
Rush	0.10	0.25	0.27	1.15	0.45	0.46	3.42	1.92	1.36	0.53	0.04	0.20	10.15
Saguache	0.09	0.04	0.21	0.31	0.62	0.00	1.52	2.27	1.31	0.45	0.41	0.08	7.31
Sapinero (near)	2.65	2.92	4.07	2.74	2.47	0.00	2.89	1.70	4.31	2.28	0.48	0.37	26.88
Savage Basin	2.85	3.55	5.55	5.00	3.80	0.03	5.20	3.00	4.30	2.50	1.00	1.10	37.88
Sedgwick	0.01	0.75	0.41	3.60	1.11	0.88	1.52	------	2.52	1.57	0.74	0.03	------
Shoshone	1.00	1.28	1.44	0.55	0.45	0.78	------	1.44	2.62	1.53	0.15	0.05	------
Silver Lake	1.37	1.13	3.32	1.49	1.16	0.00	------	------	------	1.59	------	2.03	------
Silverton	1.47	2.04	2.85	2.59	1.50	0.25	4.72	4.11	5.18	1.72	0.15	0.30	26.88
Simpson	T.	0.78	0.50	3.76	1.00	0.30	4.37	0.34	------	1.98	0.67	0.16	------
Spicer	0.65	0.89	0.97	0.67	0.69	0.45	1.87	1.58	3.01	0.86	0.38	0.11	12.13
Springfield	0.20	0.40	1.50	1.15	2.70	1.00	3.10	3.00	1.10	1.20	1.75	0.70	17.80
Steamboat Springs	2.49	2.03	5.71	1.33	1.42	0.33	2.57	1.61	4.27	2.44	------	0.98	------
Sterling	0.01	1.04	0.47	5.17	0.97	1.64	2.02	1.58	3.08	2.94	1.09	0.00	20.01
Sunbeam (near)	1.60	0.45	0.82	1.50	1.22	0.26	0.51	1.98	3.42	0.91	0.30	0.19	13.16
Tacoma	2.84	1.54	0.85	2.22	1.43	T.	5.38	4.55	5.85	0.87	0.21	0.55	26.29
Telluride	0.97	0.95	2.25	1.81	2.00	0.10	4.15	4.25	3.82	1.16	0.75	0.35	22.56
Terminal Dam	3.01	2.55	2.01	2.55	1.50	0.10	7.50	4.17	6.38	0.83	0.25	0.49	31.34
Trinidad	0.36	0.71	1.41	0.80	3.37	1.09	1.17	3.61	2.98	2.15	1.09	0.38	19.12
Trout Lake	2.20	2.98	6.08	3.81	1.90	T.	6.54	5.08	5.19	2.37	0.44	0.30	36.89
Two Buttes	0.15	0.25	0.68	1.00	0.99	0.32	2.40	1.58	1.47	0.36	1.75	0.31	11.26
Utleyville	0.33	0.04	0.39	T.	2.97	1.34	1.64	2.01	1.70	0.64	0.30	0.02	11.38
Victor	------	0.28	2.79	0.03	2.15	0.33	8.27	10.95	2.90	0.75	2.86	0.46	------
Waterdale	0.13	0.82	1.84	1.77	0.90	1.12	0.83	4.32	2.94	0.80	0.94	0.26	15.77
Wray	0.06	0.16	0.33	3.00	2.17	1.74	2.40	2.54	2.41	2.53	1.09	0.00	18.43
Yuma	0.03	0.61	0.21	2.45	2.00	0.57	3.52	3.13	1.54	3.22	1.25	0.05	18.61
Connecticut													
Bridgeport	3.70	4.64	3.06	7.14	4.00	1.77	1.87	2.68	1.97	3.84	2.13	3.82	40.71
Colchester	6.22	4.00	4.45	8.63	4.08	1.95	1.93	3.54	1.22	2.80	2.92	4.08	45.82
Collinsville	4.62	2.49	4.23	7.77	4.86	2.21	1.17	1.64	2.43	4.20	3.07	4.14	42.83
Cream Hill	4.75	2.65	3.71	7.65	3.87	3.17	1.23	2.11	2.28	3.46	3.46	4.35	42.69
East Hartland	4.35	4.02	3.11	8.37	4.64	1.65	0.71	1.71	2.61	6.71	3.19	3.98	45.05
Falls Village	3.50	2.96	3.68	7.29	3.35	3.35	1.48	2.90	2.62	3.03	3.19	3.79	41.14
Hartford	3.54	4.73	3.52	7.66	4.41	1.59	0.94	4.82	1.39	4.02	2.64	3.85	43.11
Lake Konomoc	5.22	4.24	3.49	5.66	3.43	1.18	2.59	4.06	2.07	2.16	2.42	4.65	41.17
New Haven	3.49	4.42	4.19	7.25	3.94	1.57	2.44	4.17	1.31	3.75	2.22	4.35	43.10
New London	4.89	5.35	3.67	5.93	4.31	0.71	1.34	3.49	3.49	2.16	2.68	3.63	41.65
Norfolk	------	------	------	7.05	3.71	------	------	------	2.17	4.26	------	------	------
North Grosvenor Dale	4.34	3.37	4.60	8.15	4.93	1.74	0.87	1.74	0.55	2.86	3.66	4.27	41.08
Norwalk	3.93	4.23	3.32	5.33	4.39	1.57	2.48	1.63	3.52	3.65	2.16	4.11	40.32
Storrs	4.28	3.71	4.06	6.94	5.13	2.09	1.03	2.32	0.94	3.61	2.97	3.89	40.97
Waterbury	4.34	3.75	3.62	6.36	4.43	1.74	1.39	2.72	1.87	3.94	2.49	2.78	39.43
Delaware													
Bridgeville	2.28	4.66	4.30	5.95	1.74	4.22	1.61	1.96	3.93	4.06	2.53	2.34	39.58
Delaware City	2.46	3.73	2.48	6.20	1.45	3.40	1.40	2.18	5.45	4.00	2.35	2.65	37.75
Dover	3.00	5.22	3.55	6.54	1.90	3.39	0.85	2.16	3.72	4.48	2.27	2.41	39.49
Milford	2.37	4.25	4.38	7.06	2.09	2.72	1.11	2.06	4.09	5.16	2.56	2.52	40.37
Millsboro	2.26	5.70	3.33	8.17	1.94	3.55	1.28	4.38	2.05	3.23	2.31	2.49	40.89
Wilmington	3.72	4.33	2.30	6.51	2.75	3.03	1.45	4.32	4.69	5.04	3.70	3.84	45.68
District of Columbia													
Washington	2.16	3.19	2.64	6.10	2.29	7.41	1.29	1.30	4.32	4.81	1.70	2.20	39.41
Florida													
Apalachicola	3.77	6.30	5.24	8.23	2.15	6.69	7.44	6.78	8.40	1.50	0.93	1.66	59.09
Arcadia	1.62	0.49	1.45	2.29	4.76	8.49	5.77	10.48	14.81	1.59	0.77	0.84	53.36
Avon Park	1.70	------	1.35	2.78	5.62	8.42	5.61	10.55	11.59	2.40	0.56	2.29	------
Bartow	1.42	2.30	1.73	2.33	5.05	12.72	5.94	11.33	12.73	1.80	2.20	1.41	60.96
Belle Glade	1.20	0.49	1.52	2.34	------	11.11	7.32	3.34	15.93	4.73	4.13	0.88	------
Blountstown	4.60	2.36	------	6.33	3.64	8.83	11.42	11.38	10.00	2.65	------	------	------
Bluff Springs	7.31	10.23	19.41	4.31	3.46	12.11	6.17	8.03	5.82	5.83	6.90	5.01	94.59
Bonifay	5.57	5.22	8.07	3.82	4.07	5.30	------	------	7.58	9.35	2.63	3.50	------
Bradenton	1.42	4.76	0.67	2.89	2.40	6.04	9.69	6.43	16.92	0.61	0.28	0.98	53.09
Brooksville	2.43	1.60	2.72	1.92	2.55	13.69	13.46	6.33	6.07	0.90	0.82	3.94	56.43
Carrabelle	3.79	5.47	3.88	6.78	5.24	6.03	7.19	6.49	10.15	0.82	1.62	2.33	59.79
Cedar Keys	6.82	2.38	2.32	2.76	3.51	3.93	6.76	4.11	4.76	1.66	0.28	3.10	42.39
Chapman Field Garden	1.27	0.98	3.48	3.25	9.73	7.70	11.33	6.42	17.82	15.84	0.76	5.85	84.43
Clermont	2.30	0.57	1.70	1.90	4.64	9.65	7.14	8.96	11.69	2.04	2.17	2.56	55.32
Coral Gables	0.87	0.74	3.61	3.07	7.54	5.06	7.64	5.27	------	------	------	------	------
Cottage Hill	7.81	10.43	15.55	3.35	3.55	12.67	12.09	4.61	9.69	4.78	6.56	5.17	96.26
Crescent City	3.34	2.44	1.48	3.50	7.73	6.19	14.23	2.79	4.39	1.10	0.31	3.26	50.76
Davenport	1.08	1.39	0.84	2.19	7.23	4.78	6.58	4.03	9.61	2.74	1.95	0.86	43.28
Davie	1.76	0.87	4.89	3.15	5.86	7.35	12.98	10.52	16.24	12.87	1.99	4.19	82.67
Daytona Beach	0.39	0.60	1.27	3.48	3.22	1.66	6.30	3.81	6.61	2.00	0.72	2.86	32.92
DeFuniak Springs	6.89	7.43	12.61	6.60	5.51	11.38	10.69	3.52	13.77	6.82	4.77	2.17	92.16
De Land	2.63	0.43	1.31	3.51	6.90	7.42	5.84	10.82	9.13	3.28	0.51	3.14	84.92
De Soto City	1.16	0.37	1.32	2.17	4.04	8.96	10.73	7.00	13.57	------	------	------	------
Eustis	3.41	0.53	1.38	1.62	4.71	7.05	6.44	9.17	7.37	0.96	1.18	2.88	46.70
Everglades	0.28	0.25	0.94	0.73	4.97	12.62	5.87	7.78	17.06	6.28	0.73	1.30	58.81
Federal Point	4.49	1.66	1.91	5.47	6.79	8.27	9.05	6.72	8.25	2.55	0.21	3.20	58.57
Fellsmere	1.70	0.78	1.02	3.87	5.08	12.15	6.62	6.55	25.15	9.55	1.73	1.52	75.72
Fernandina	5.65	2.39	2.20	5.98	4.35	5.10	4.64	3.78	10.15	0.38	0.84	3.64	49.10
Fort Lauderdale	1.05	0.44	2.49	4.27	2.95	8.77	12.01	4.88	12.60	16.98	4.90	7.51	79.75
Fort Myers	1.09	0.06	1.03	0.88	7.82	8.30	6.68	5.56	15.44	3.42	0.30	1.33	51.91
Fort Pierce	1.89	0.59	2.32	1.46	11.09	6.25	5.45	3.04	6.97	8.76	1.60	2.51	51.93
Gainesville	6.33	1.51	4.53	4.24	3.89	7.06	6.24	5.71	8.86	1.31	0.25	4.88	54.81
Garniers (near)	6.76	3.95	8.93	4.46	2.55	11.55	8.72	5.98	12.69	6.72	5.84	2.40	80.55
Glen St. Mary	4.55	2.68	3.77	7.05	6.19	6.84	7.70	6.00	10.00	2.04	1.12	3.74	61.68
Hastings	4.44	1.64	1.62	6.10	4.92	9.86	7.67	7.90	8.75	2.54	0.80	2.90	59.14
Hilliard	5.12	3.50	4.52	4.22	5.29	6.04	13.25	6.51	8.22	3.63	0.85	------	------
Homestead	1.36	1.34	2.55	2.86	7.32	6.30	5.57	9.30	------	15.78	------	4.89	------

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Florida—Continued													
Hypoluxo	2.55	1.52	2.05	3.84	4.06	10.49	4.98	4.58	8.36	7.23	6.13	2.60	58.39
Indiantown				2.68			3.97	1.76	15.20	2.21	1.79	1.07	
Inverness	1.32	0.98	1.69	1.81	4.19	12.87	6.81	8.00	7.40	1.35	0.58	5.33	52.33
Isleworth	1.32	0.76	0.93	1.25	5.97	8.42	9.78	4.14	9.61	2.91	0.98	1.63	47.70
Jacksonville (Weather Bureau)	3.96	1.28	2.14	5.09	6.09	4.10	8.21	6.02	8.58	0.83	0.08	3.02	49.40
Jacksonville (No. 2)	4.07	1.35	2.88								0.11	4.78	
Jupiter	2.86												
Key West	1.41	1.21	1.25	0.40	5.95	3.08	5.21	6.10	5.57	8.43	2.09	3.96	44.66
Kissimmee			0.71					2.76	4.63	3.28	1.20	1.40	
La Belle										3.23	0.84	0.79	
Lake Alfred	1.54	2.13	0.88	1.21	8.65	7.98	7.06	3.42	12.37	3.53	3.09	1.96	53.82
Lake City	4.76	2.89	3.37	4.28	4.04	6.05	6.46	6.84	7.59	0.95	0.70	4.37	52.30
Lakeland	1.64	1.73	1.33	1.70	5.58	12.13	6.41	5.87	15.52	2.12	0.75	2.10	56.88
Lake Wales	1.45	1.52	0.85	1.50	5.55	7.64	5.71	5.03	10.26	2.70	0.58	1.20	43.99
Long Key	0.94	0.44	2.19	1.05	1.15	2.94	5.03	6.83	10.12	15.00	0.51	5.09	51.29
Madison	4.85	5.05	4.26	4.92	5.43	5.99	10.20	7.34	4.77	2.95	0.91	3.11	59.78
Mammoth Grove	2.10	1.75	0.45	5.22	6.56	13.05	4.95	8.15	19.85	2.50	0.75	1.10	66.43
Marianna	6.57	3.61	6.36	4.26	4.11	4.91	5.86	3.18	6.13	9.25	0.73	3.89	58.86
Merritts Island	1.48	1.51	0.66	2.79	5.68	4.31	9.46	7.17	15.87	8.34	2.64	1.54	61.45
Metts	5.46	5.48	9.19			13.67	11.21	3.09	12.95	3.04	5.86	2.02	
Miami	1.03	0.44	5.31	3.24	6.96	5.61	9.36	5.51	16.82	20.18	0.89	9.03	84.38
Miami Beach	0.36	0.31	2.83	0.51	2.13	5.53	6.10	3.46	9.65	9.53	0.76	2.27	43.44
Middleburg	5.04												
Monticello	5.94	4.24	6.57	7.92	8.25	7.44	6.84	6.72	8.82	4.51	0.76	2.82	70.83
Moore Haven	0.82	0.14	0.52	1.55	2.73	9.35	8.44	4.93	13.45	1.71	1.27	1.39	46.30
Mount Pleasant	3.83	2.12	5.00	3.00	2.39	11.62	8.30	6.51	8.61	2.02	1.80	2.35	57.55
New Smyrna	2.29	0.46	1.39	2.45	5.33	1.47	5.19	6.03	3.94	1.56	0.60	0.97	31.68
Niceville	6.63	4.12	8.93	4.99	1.89	11.66	6.78	5.23	17.28	1.95	4.73	2.63	76.82
Ocala	3.49	2.22	2.10	5.05	4.05	8.76	9.70	8.07	10.70	0.38	0.46	4.37	59.35
Okeechobee			0.99	4.50	6.02	12.29	11.22	6.72	16.86	3.65	0.30		
Orlando	1.38	0.34	1.30	2.13	7.37	6.01	12.49	8.03	11.52	3.84	1.63	1.41	57.45
Palatka	3.00	1.42	2.90	5.60	7.81	8.55	9.79	6.65	8.50	2.21	0.47		
Panama City	3.81	2.48	6.67	8.03	3.12	7.38	7.55	2.02	11.96	3.53	2.42	3.19	62.16
Penny Farms	4.76	1.36	3.87	6.16	2.71	6.19	9.60	11.78	8.58	0.99	0.37	1.76	58.13
Pensacola	5.40	5.18	6.42	3.30	2.06	7.51	4.83	5.04	8.96	2.93	7.04	2.12	60.79
Perry							10.36	4.80	6.21	2.03	1.89	2.46	
Pinecrest	1.14	0.39	1.38	1.07	6.40	11.21	9.32	11.26	21.25	5.11	0.55	2.24	71.32
Pinellas Park	1.43	1.55	3.59	1.34	4.17	7.82	10.60	9.35	14.48	0.43	0.37	6.15	61.28
Plant City	4.15	1.85	1.52	2.15	6.24	8.33	14.19	7.18	12.49	1.34	0.79	1.85	62.08
Punta Gorda	2.78	0.09	1.18	1.04	2.04	8.15	9.25	8.75	16.54	2.08	0.10	0.98	52.98
Quincy	5.23	2.85	4.03	4.91	2.81	8.63	8.21	4.61	6.16	2.28	1.60	2.67	53.99
Raiford	4.58	1.41	1.63	5.19	3.28	4.12	7.07	6.20	9.03	2.15		3.60	
Ritta											2.48	1.05	
St. Augustine	3.65	1.79	1.93	3.81	3.67	6.35	7.88	5.58	8.93	2.55	0.52	2.41	49.07
St. Cloud	1.42	1.40	1.30	1.98	4.64	5.54	8.87	7.17	8.37	4.88	1.87	1.63	49.07
St. Leo	4.62	1.15	1.51	1.86	4.30	8.65	8.06	5.78	10.78	0.81	1.40	3.41	52.33
St. Petersburg	2.02	1.56	2.43	1.75	1.59	5.99	12.68	9.75	14.40	0.97	0.22	2.67	56.03
Sanford	1.60	0.26	1.15	2.03	7.15	5.27	11.28	8.34	13.07	2.05	5.88	1.83	59.91
Starke (near)	5.63	1.47	3.68	5.13	2.21	6.69	7.63	5.70	7.40	1.23	0.14	4.20	51.11
Tallahassee	5.51	3.89	4.49	5.60	5.06	8.51	6.38	5.73	6.03	4.80	1.20	3.92	61.12
Tampa	2.18	1.72	2.18	2.58	4.27	7.25	8.82	7.38	13.29	0.69	0.32	3.25	53.93
Tarpon Springs	2.37	1.77	1.56	1.17	4.98	7.12	11.14	8.11	7.56	1.37	0.57	3.74	51.46
Titusville	1.86	0.75	0.63	1.81	7.20	2.52	10.03	4.15	16.03	5.10	0.46	2.39	52.93
Venus	1.13	0.54	1.62	2.01	6.32	9.84	3.96	6.59	14.18	1.70	0.86	2.29	51.04
Vernon	5.47	4.55	5.31	3.51	10.00	7.85	5.74	6.46	10.58	10.50	3.17	2.96	76.10
West Palm Beach								4.88	7.97			3.16	
Georgia													
Abbeville	6.96	8.68	7.34	2.10	3.86	3.41	2.80	1.56	12.22	5.07	2.49	3.52	60.01
Alapaha	4.62	3.88	5.47	3.68	3.74	9.82	6.21	4.52	5.18	1.93	2.06	3.72	54.83
Albany	7.29	8.13	9.97	3.74	3.26	4.34	7.07	5.20	3.73	5.47	2.74	4.14	65.08
Americus	4.40	12.28	8.53	1.73	3.49	2.60	3.12	1.82	5.35	9.60	2.75	2.92	58.59
Athens		11.25	14.15	4.46	8.93	2.48	6.65	0.21	8.72	6.84	3.78	3.83	
Atlanta	4.22	9.21	13.28	6.16	6.10	3.68	2.31	1.49	10.19	3.04	6.26	1.77	67.71
Augusta	3.98	8.91	6.72	3.19	6.85	5.89	6.22	0.90	11.36	11.06	4.13	4.61	73.82
Bainbridge	4.54	2.07	5.85	3.33	4.64	6.48	10.08	5.45	4.22	5.19	1.58	2.51	55.94
Blakely	5.58	10.31	15.86	2.57	5.35	3.54	6.18	1.69	4.32	6.80	3.08	4.02	69.30
Blue Ridge	6.11	5.27						1.09		3.92	8.73	2.24	
Brooklet	5.48	5.25	4.60	5.58	3.30	6.13	4.04	2.80	24.34	1.99	3.15	4.72	71.38
Brunswick	6.25	2.53	4.06	2.88	2.95	2.74	8.52	4.64	12.16	1.69	0.39	4.03	52.84
Butler	5.82	14.80	14.24	6.13	6.63	6.73	3.04	4.32	6.09	7.65	6.20	3.98	85.63
Canton	4.32	8.63	12.07	6.10	6.58	3.76	3.06	3.36	8.76	2.84	8.96	2.40	70.34
Carlton	3.71	11.02	11.24	4.05	6.12	6.22	4.08	1.33	12.63	8.57	3.23	3.42	75.62
Clayton	8.45	8.55	15.75	6.15	9.06	8.08	4.85	2.35	15.95	3.67	11.39	3.55	97.80
Columbus	4.91	11.05	16.29	3.83	4.89	4.02	2.20	5.28	3.99	6.53	6.71	3.80	73.50
Concord	4.44	10.20	15.44	3.93	4.67	4.89	2.98	1.84	5.08	5.29	7.06	3.64	69.46
Cornelia	5.12	9.61	12.53	6.44	9.52	6.27	4.31	2.56	13.46	3.13	7.29	3.67	83.91
Covington	4.31	10.40	14.11	3.99	7.99	5.53	4.53	1.43	7.73	6.64	4.47	3.46	74.59
Dahlonega	6.81	7.97	11.54	7.19	9.23	4.31	3.52	4.05	14.49	2.84	11.11	3.15	86.21
Double Branches	3.40	11.69	10.66	3.56	5.75	4.65	4.58	1.42	18.61	11.97	6.35	3.69	86.33
Dublin	4.37	9.19	6.37	4.53	7.67	4.67	5.24	3.29	11.90	5.81	1.82	5.17	70.03
Eastman	6.07	8.59	8.52	4.48	3.60	4.92	3.14	2.94	10.51	5.80	2.01	4.76	65.34
Fair View	4.05	12.22	12.81	3.40	4.26	3.45	1.83	2.01	9.10	6.46	6.11	3.40	69.10
Fargo	6.67	3.85	4.78	4.20	8.50	6.40	5.15	5.79	15.00	1.03	0.81	5.46	67.64
Fort Gaines	5.67	12.00	12.64	1.67	3.13	6.96	5.70	1.71	3.72	7.41	3.08	3.11	66.80
Fort Valley	5.58	10.26	11.26	5.90	5.54	5.14	3.44	3.04	3.73	7.32	3.80	3.20	68.21
Gainesville	5.26	9.72	12.60	4.55	7.22	6.46	9.15	1.29	12.26	4.82	7.23	2.36	82.92
Gillsville	4.65	10.27	12.75	4.41	6.62	2.89	6.77	1.53	15.73	10.09	7.79	3.56	87.06
Glennville	3.64	4.10	3.97	2.69	2.99	11.31	3.21	6.14	24.51	1.47	2.65	3.78	70.46
Goat Rock	3.28	8.81	20.32	2.99	3.44	2.33	1.16	4.45	3.76	4.85	5.76	3.06	64.21
Greensboro	3.47	11.32	12.26	4.73	6.57	3.27	5.05	2.17	9.08	6.45	5.54	3.50	73.41
Griffin	4.45	9.93	16.02	3.50	6.61	5.58	4.80	1.27	10.62	6.75	5.45	3.60	78.58
Hartwell	3.14	10.33	10.26	4.44	7.68	4.29	2.19	0.13	9.36	7.02	4.31	3.59	66.74
Hawkinsville	4.66	10.88	8.75	4.53	5.05	7.82	3.99	2.42	7.90	5.92	2.46	3.64	68.02

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Georgia—Continued													
Hazlehurst	5.43	5.37	5.82	2.15	2.29	3.04	11.02	8.57	12.68	3.94	4.22	4.71	69.84
Lumber City	5.97	4.55	5.51	1.30	2.66	3.62	5.95	3.82	9.32	3.15	------	2.58	------
Macon	4.48	12.04	10.89	2.22	2.52	8.54	1.87	3.08	5.05	7.49	5.20	3.52	67.80
Marshallville	------	9.99	9.16	5.28	6.34	7.28	1.88	4.29	5.65	6.38	3.47	3.81	------
Milledgeville	4.67	12.21	10.28	2.70	4.00	4.67	6.50	1.96	11.18	7.29	5.89	4.84	76.19
Millen	5.55	7.25	4.45	3.61	2.30	3.01	1.40	3.40	18.70	6.45	1.35	4.30	61.77
Montezuma	4.87	13.05	9.30	3.10	7.46	6.75	4.22	3.12	2.68	6.70	3.26	3.95	68.62
Monticello	4.03	11.88	13.48	3.48	4.54	5.15	3.52	2.77	7.62	9.05	5.64	3.75	74.91
Moultrie	4.79	2.67	6.54	3.18	2.56	8.13	4.53	7.47	5.89	3.05	2.14	3.21	54.16
Newnan	4.84	11.18	16.38	3.17	7.47	6.62	2.88	1.11	7.83	4.33	6.53	2.85	75.19
Norcross	4.55	11.51	13.09	4.93	9.27	5.83	4.59	1.84	10.14	3.25	7.03	2.32	78.35
Quitman	5.11	4.45	4.66	4.07	4.32	4.74	8.06	6.46	10.42	3.35	0.86	2.50	59.00
Resaca	6.33	6.42	9.90	5.69	10.21	5.57	2.77	4.76	6.87	1.87	14.78	3.47	78.64
Rome	5.10	6.36	10.36	7.12	8.12	3.12	2.08	2.26	5.92	2.75	11.83	3.00	68.02
St. George	5.26	4.90	4.50	------	------	------	------	------	------	------	------	------	------
Savannah (Weather Bureau)	3.96	4.38	2.74	1.95	3.65	4.88	5.94	8.99	10.31	0.95	1.75	4.40	53.90
Savannah (No. 2)	3.98	4.78	3.22	2.04	2.07	4.89	7.36	3.91	9.99	3.37	1.46	3.70	50.77
Stillmore	5.35	------	5.06	5.15	3.11	3.69	4.26	2.34	12.37	2.55	2.31	5.32	------
Talbotton	5.44	13.06	13.86	6.05	3.96	5.23	------	3.09	4.47	5.48	6.80	4.14	------
Tallapoosa	4.06	8.04	10.92	5.25	9.44	2.30	2.25	1.98	5.11	2.10	10.52	3.23	65.14
Thomasville	4.93	3.71	5.48	4.40	3.92	6.66	6.54	11.68	6.53	2.39	1.73	2.82	60.79
Tifton	5.11	4.45	6.19	3.69	2.34	7.04	4.87	3.29	6.41	3.31	4.16	4.36	55.22
Toccoa	5.14	10.00	12.36	6.22	6.62	5.92	3.28	1.61	12.52	5.93	6.61	3.88	80.09
Warrenton	4.29	10.93	19.82	3.25	5.03	7.17	2.52	1.47	12.30	10.42	6.15	4.96	79.31
Washington	3.73	12.51	10.71	3.84	5.20	4.46	3.71	2.78	18.93	11.21	5.85	4.31	87.24
Waycross	4.29	5.09	4.43	3.41	7.16	5.68	8.86	5.63	11.58	1.66	1.15	4.92	63.86
West Point	4.85	9.47	15.52	4.06	6.56	4.39	3.17	2.23	5.82	4.20	7.55	4.52	72.34
Woodbury	4.27	10.15	16.53	3.25	6.69	7.00	2.33	2.18	5.38	4.92	6.81	3.67	73.18
Idaho													
Aberdeen	0.80	0.11	0.18	1.78	0.52	0.99	0.30	0.46	0.91	0.02	0.21	0.87	7.15
Alpha	3.01	1.19	2.87	4.09	------	------	------	------	------	------	0.04	10.06	------
Arco	0.52	0.29	0.37	1.03	0.18	0.30	0.10	------	0.35	0.44	0.00	1.77	------
Arrowrock	4.43	1.55	1.58	2.13	0.30	0.96	0.00	0.37	0.26	0.43	0.00	2.41	14.42
Ashton	2.51	1.23	0.54	2.22	0.53	2.53	0.33	0.46	1.55	1.11	0.54	0.46	1.401
Atlanta	3.81	1.37	1.33	1.33	0.19	2.42	0.00	0.42	0.42	0.62	0.19	6.32	18.42
Avery	2.71	2.92	3.69	2.35	1.56	3.25	0.14	0.50	0.22	2.55	0.28	6.67	26.84
Big Smoky Ranger Station	------	------	------	------	------	------	T.	0.36	0.43	------	------	------	------
Big Springs	------	------	------	------	------	2.65	0.72	------	------	------	------	------	------
Bismark Ranger Station	------	------	------	------	------	------	0.06	0.19	0.72	------	------	------	------
Blackfoot	2.18	0.78	0.56	1.45	0.48	1.05	0.11	0.15	1.47	0.19	0.23	0.53	9.18
Bliss	2.49	0.07	1.10	0.28	0.92	0.38	T.	0.23	0.23	0.15	0.09	1.18	6.22
Bogus Creek	3.17	1.08	2.94	4.20	0.91	2.77	0.00	0.14	0.30	0.36	0.17	3.13	19.17
Boise	2.49	0.63	1.41	1.28	0.14	1.08	T.	0.11	0.26	0.13	0.13	1.17	8.83
Bonners Ferry	------	------	2.27	1.14	1.04	------	------	------	------	------	------	------	------
Bostetter Ranger Station	------	------	------	------	------	2.68	0.33	1.13	0.92	0.42	------	------	------
Buhl	1.48	0.34	0.37	0.72	0.10	0.65	0.03	0.35	0.22	1.88	0.18	0.31	6.81
Bungalow Ranger Station	------	------	------	------	------	5.89	T.	0.12	0.21	------	------	------	------
Burley	1.91	0.55	1.35	1.85	0.00	1.38	0.12	0.28	0.50	0.07	T.	1.15	9.16
Burley Factory	1.20	0.50	0.93	1.74	T.	1.36	0.14	0.54	0.41	0.12	0.10	0.77	7.81
Caldwell	1.42	0.47	1.05	1.42	0.25	1.28	0.00	0.17	0.13	0.05	0.02	0.92	7.28
Cambridge	2.20	1.35	1.35	3.02	0.37	1.90	0.00	T.	0.16	0.15	T.	3.26	13.82
Challis	0.54	0.76	1.05	0.43	0.19	0.54	0.69	0.44	0.56	0.27	0.00	2.11	7.58
Coolin	------	0.42	2.73	2.80	1.13	3.21	T.	0.17	0.79	1.19	0.24	5.41	------
Cottonwood	1.33	0.57	1.31	1.94	------	------	------	------	------	------	------	------	------
Council	3.05	1.24	1.55	6.16	0.76	2.53	0.00	0.17	0.24	0.39	T.	5.68	21.77
Cuprum	------	------	------	------	------	------	------	------	------	------	T.	7.41	------
Deer Flat	------	------	------	------	------	------	------	------	------	------	0.02	0.63	------
Dubois	------	------	------	------	0.22	1.72	0.15	0.43	1.24	0.76	T.	0.65	------
Emmett	1.76	0.73	1.00	1.34	0.35	1.23	0.00	T.	0.15	0.09	0.09	0.53	7.58
Falls Ranger Station	1.65	0.49	2.71	3.40	0.65	2.40	0.01	0.27	0.20	0.90	0.17	7.34	20.19
Felt	2.26	0.94	0.79	1.21	1.18	0.69	0.53	1.83	2.50	0.94	0.24	0.33	13.44
Fort Hall	1.71	0.49	0.55	2.50	0.81	1.11	0.07	0.18	0.95	0.20	0.37	0.56	9.50
Garden Valley	3.35	------	0.85	1.16	0.36	------	------	------	------	0.14	0.00	7.57	------
Gibbs	1.55	0.74	1.56	2.58	1.02	2.09	0.01	0.20	0.43	0.78	0.05	4.17	15.18
Glenns Ferry	1.61	0.22	0.91	1.01	0.00	0.92	0.00	0.10	0.00	0.33	0.30	0.52	5.65
Gooding	2.79	0.76	1.18	1.26	0.16	0.60	T.	0.32	------	0.51	0.05	1.15	------
Grace	1.47	0.61	1.55	1.15	0.24	2.16	0.51	0.52	2.67	1.52	0.07	0.40	12.87
Grandview	0.43	0.15	0.85	0.44	00.0	1.09	T.	0.38	0.07	1.23	0.05	0.90	5.59
Grangeville	2.75	1.84	2.55	1.86	2.52	2.84	T.	0.15	0.51	1.67	0.85	2.06	20.60
Grays Lake	2.23	0.63	1.47	1.58	0.50	1.88	1.28	0.09	1.14	0.66	0.35	1.10	12.91
Grimes Pass	4.33	1.18	2.10	4.26	0.80	2.22	T.	0.54	0.62	0.93	0.13	0.14	23.26
Hailey	1.46	0.74	0.51	1.60	0.50	0.26	T.	0.48	0.44	0.91	0.00	5.15	12.05
Hazelton	1.90	0.63	0.81	1.55	0.02	0.75	0.12	0.27	0.30	0.33	0.16	0.68	7.60
Hill City	3.99	------	------	------	------	0.38	0.00	------	0.44	0.74	0.00	1.92	------
Hollister	1.78	0.33	0.84	0.91	0.00	1.32	0.00	0.46	0.16	0.50	0.15	0.81	7.26
Idaho City	4.60	1.17	1.25	1.84	0.52	1.63	0.00	0.50	0.39	0.65	0.00	5.15	17.70
Idaho Falls	1.34	0.68	0.69	1.75	0.49	1.42	0.20	0.33	0.97	0.35	0.13	0.37	8.72
Indian Cove	1.76	0.13	1.69	1.57	0.00	1.09	0.00	0.55	0.00	0.40	0.05	0.54	7.78
Irwin	2.12	0.91	1.46	0.63	0.21	0.82	0.95	0.24	0.70	0.25	1.01	0.28	9.58
Jerome	2.00	0.59	1.18	1.27	0.01	1.08	T.	0.12	0.39	0.53	T.	0.92	8.09
Kamiah	1.41	0.95	2.03	2.21	0.55	2.75	T.	0.26	0.07	1.19	0.40	2.71	14.53
Kellogg	2.41	1.83	2.78	1.80	0.67	2.82	0.00	0.25	0.65	1.74	0.08	6.10	21.13
Kirkham	3.72	0.68	1.86	3.18	0.49	1.79	T.	0.72	0.33	0.43	0.16	4.66	18.02
Kooskia	1.74	0.88	2.53	2.44	1.22	1.97	0.16	0.18	0.17	1.32	0.40	3.37	16.38
Kuna	1.88	0.31	1.11	0.78	0.14	0.54	0.00	0.08	0.14	0.12	0.02	1.18	6.30
Lapwai	2.28	0.71	1.26	1.98	0.60	1.79	0.05	0.42	0.31	0.66	0.00	3.64	13.72
Lewiston	2.14	1.00	1.01	1.08	0.56	2.24	T.	0.20	0.39	0.63	T.	2.23	11.48
Lifton	0.88	0.78	1.09	1.61	0.06	0.68	0.14	0.62	1.30	0.75	0.07	0.32	8.30
McCall	2.18	1.45	1.36	3.62	1.08	1.35	0.00	0.00	0.00	------	------	6.29	------
Mackay	0.52	0.17	0.26	0.67	0.78	0.81	0.22	1.22	0.17	0.38	0.00	1.77	6.97
Malad	1.43	1.25	0.83	1.56	0.32	2.42	1.12	1.66	2.64	0.81	0.11	0.92	14.96
Meridian	2.33	0.60	0.92	1.35	0.14	0.82	T.	0.55	0.30	0.05	0.04	1.53	8.63
Milner Dam	1.19	0.32	0.58	0.84	T.	1.18	T.	0.37	0.86	0.08	0.09	0.08	6.19

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Idaho—Continued													
Montpelier	2.13	2.17	1.87	2.83	0.14	1.04	0.25	0.58	1.48	1.35	0.46	0.35	14.65
Moscow	3.63	0.84	1.38	1.39	0.58	2.14	0.03	0.20	0.33	1.07	0.04	4.54	16.17
Mountainhome	1.76	0.39	1.37	0.92	0.06	0.37	0.00	0.14	T.	0.38	0.00	0.69	6.08
Mud Lake	0.27	0.36	0.55	0.93	0.16	0.34	0.23	0.30	------	0.64	0.00	0.27	------
Mullan	1.75	1.93	3.32	2.60	2.34	2.51	T.	0.19	0.49	1.99	0.25	7.01	24.38
Murphy	1.32	0.11	1.01	0.45	0.00	0.50	0.10	------	------	------	------	------	------
Murtaugh	1.64	0.28	0.93	0.91	0.03	------	0.21	0.61	0.25	0.28	0.19	0.63	------
Musselshell Ranger Station	------	3.47	------	------	------	3.51	0.03	0.53	0.37	1.86	0.21	5.51	------
New Meadows	2.13	1.29	0.97	2.32	0.50	2.48	0.00	0.19	0.04	0.74	0.12	4.78	15.56
Nezperce	2.14	0.55	1.51	1.92	0.73	2.31	0.00	0.12	0.25	1.60	0.13	2.57	13.83
Oakley	0.72	0.57	0.55	2.45	0.04	2.11	0.79	1.82	0.46	0.20	0.07	0.61	10.39
Obsidian	2.36	0.58	1.71	2.05	0.27	1.15	0.02	2.01	0.50	0.80	0.15	6.18	17.78
Orofino	3.04	0.55	2.49	2.23	1.30	2.61	T.	0.05	0.53	1.18	0.18	4.75	18.91
Parma	1.92	0.43	0.30	1.10	0.14	2.92	0.00	0.00	0.15	0.05	0.03	1.30	8.34
Payette	1.76	0.65	0.72	1.81	0.11	1.89	0.00	T.	0.08	0.07	T.	1.90	8.99
Pete King Ranger Station	4.40	2.67	3.93	3.65	1.53	3.44	0.12	0.07	0.19	2.00	0.44	5.91	28.35
Pine	5.91	1.10	1.27	1.72	0.37	0.25	0.25	0.23	0.60	1.04	T.	3.15	15.89
Pocatello	2.02	0.74	0.82	2.61	0.40	1.47	0.11	1.11	1.21	0.67	0.46	1.01	12.63
Porthill	0.67	0.31	1.89	0.57	1.35	2.53	0.08	0.05	0.31	1.57	0.23	2.93	12.49
Potlatch	1.91	0.50	1.80	1.71	1.62	2.99	0.15	0.13	0.14	0.85	0.03	3.98	15.81
Prairie	5.10	0.95	0.50	2.45	0.20	0.85	0.00	0.20	0.20	0.55	T.	2.60	13.60
Preston	1.24	0.98	1.80	1.92	0.17	1.36	0.32	0.73	2.05	0.93	0.04	0.71	12.25
Prichard	2.40	1.70	4.27	2.37	1.71	2.62	0.06	0.15	0.72	1.86	0.15	7.35	25.36
Priest River Experiment Station	1.79	0.62	1.61	1.62	0.74	2.76	0.03	0.31	0.38	1.13	0.11	4.92	16.02
Pyle Creek	4.62	0.94	1.95	3.61	0.45	0.85	0.00	0.40	0.55	0.36	0.08	7.40	21.21
Richfield	1.21	0.29	0.60	1.25	------	0.30	0.00	0.05	------	0.80	0.00	1.75	------
Roland	3.35	3.22	5.10	3.34	2.25	3.12	0.04	0.33	0.21	2.61	0.70	11.25	35.52
Rupert	1.58	0.25	0.72	1.46	0.08	1.13	0.16	0.06	0.51	0.11	T.	0.72	6.78
St. Maries	2.99	1.07	1.95	1.82	0.94	1.40	0.00	0.00	0.41	0.86	0.08	4.84	16.36
Salmon	0.82	0.02	0.53	0.75	0.66	0.78	0.84	0.40	1.04	0.16	0.05	1.48	7.53
Sandpoint	1.18	0.83	2.71	2.87	0.77	1.73	T.	0.18	0.39	1.30	0.00	5.97	17.93
Sheep Hill	4.76	1.34	1.85	3.12	0.03	1.51	T.	0.32	0.28	0.97	0.12	5.09	19.39
Shoshone	1.86	0.32	0.79	1.33	0.31	0.54	T.	0.25	0.33	0.76	0.03	1.54	8.06
Smith Creek	1.80	2.20	------	1.77	1.24	2.27	0.09	0.71	------	------	0.50	------	------
Smith's Ferry	------	------	------	------	------	1.76	0.00	0.48	0.74	------	------	------	------
Soldier Creek	3.09	1.34	0.72	3.01	0.37	0.50	T.	0.39	0.49	0.28	T.	7.01	17.20
Spencer	0.81	2.08	------	2.40	------	------	------	------	------	------	------	0.95	------
Springfield	1.55	0.62	0.51	2.35	0.15	1.49	0.06	0.31	0.64	------	------	0.66	------
Sugar	1.50	0.99	0.55	0.63	0.21	1.41	0.15	0.17	0.90	0.95	0.01	0.23	7.70
Sunset Lookout	------	------	------	------	------	------	0.02	0.31	------	------	------	------	------
Tripod Mountain	2.70	1.00	1.80	3.70	0.80	1.90	0.00	0.10	0.30	0.30	0.10	4.20	16.90
Twin Falls	1.35	0.23	0.81	1.34	0.04	0.75	T.	0.21	0.39	0.56	0.28	------	------
Twin Falls Factory	1.09	T.	0.61	1.20	0.07	0.82	0.03	0.22	0.29	0.43	0.38	0.54	5.68
Wallace	2.37	2.17	4.08	3.08	2.27	2.72	0.05	0.23	0.74	2.14	0.22	8.90	28.97
Warren	2.23	2.35	2.04	2.00	------	------	------	------	------	------	0.80	7.32	------
Weiser	1.88	0.72	0.94	1.58	0.08	1.46	0.00	T.	0.14	T.	0.02	2.22	9.04
Illinois													
Aledo	3.50	0.99	3.03	6.91	2.21	4.66	5.83	2.32	5.12	5.10	1.24	0.99	41.90
Anna	6.95	2.83	3.53	4.95	6.94	5.92	3.39	4.47	4.76	1.84	3.25	4.22	53.05
Astoria	------	------	4.24	3.79	6.52	4.40	7.27	1.19	3.94	3.83	1.95	0.84	------
Aurora	4.11	0.51	3.02	6.35	2.45	7.19	3.56	1.80	3.01	2.98	1.28	1.31	37.57
Beardstown	3.94	0.61	3.31	5.31	4.78	4.14	6.52	1.02	2.41	3.69	1.88	0.89	38.50
Benton	5.42	2.45	2.36	3.43	7.08	5.02	2.52	2.49	4.27	1.88	2.44	5.04	44.40
Bloomington	3.52	0.69	2.71	3.91	4.46	2.80	9.28	4.36	1.68	3.07	1.65	1.55	39.78
Brookport	6.27	4.11	3.19	3.79	7.17	4.07	4.15	2.73	6.08	1.37	2.70	2.63	48.26
Cairo	4.98	4.20	3.54	2.97	5.19	3.76	1.28	3.29	5.44	1.08	2.51	4.12	42.36
Carbondale	5.26	2.48	2.77	5.56	7.19	6.41	5.24	3.57	5.90	2.00	2.94	5.57	54.89
Carlinville	3.62	0.82	4.09	8.34	8.40	4.33	3.31	1.63	1.86	5.62	1.02	2.60	45.64
Carmi	5.85	3.08	2.91	4.34	7.43	5.65	2.84	2.82	3.80	2.28	2.17	4.54	47.71
Casey	3.89	1.11	3.64	6.04	11.89	4.83	3.22	1.00	2.32	5.05	3.09	4.03	50.11
Charleston	3.75	0.66	3.80	7.25	9.05	3.37	8.17	1.17	1.39	3.67	1.92	5.07	49.27
Chester	3.25	2.01	2.86	3.64	8.45	3.58	2.09	4.77	3.67	2.23	2.09	4.33	42.97
Chicago (University)	3.93	0.54	5.23	4.79	2.29	4.96	2.18	3.49	3.03	3.06	1.47	1.84	36.81
Chicago (Airport)	3.88	0.60	4.72	3.87	2.26	5.75	2.12	1.36	3.20	2.31	1.28	2.04	33.39
Chicago (Federal Building)	3.90	0.49	5.30	4.59	3.41	5.06	2.70	2.65	2.05	3.60	1.33	1.95	37.03
Clinton	4.59	0.67	2.80	6.10	9.04	3.63	7.51	3.17	0.99	4.48	1.43	1.58	45.99
Danville	------	0.37	2.56	3.56	6.44	2.81	5.23	4.06	0.66	3.46	1.80	4.92	------
Decatur	3.46	0.61	3.40	7.63	7.64	3.50	6.77	1.86	1.91	4.82	1.21	2.60	45.43
Dixon	3.65	0.46	2.03	4.99	3.05	4.07	3.51	2.63	3.63	3.57	1.49	0.49	33.57
Duquoin	4.05	2.09	2.87	4.24	7.36	10.08	5.40	1.95	3.20	1.88	2.02	5.00	50.14
Edwardsville	------	------	------	------	------	5.06	3.93	2.56	1.40	5.09	0.96	2.94	------
Effingham	3.98	1.08	4.54	7.90	10.01	4.99	3.90	2.52	1.31	4.91	2.62	5.37	53.13
Elgin	4.04	0.84	3.32	6.15	3.67	4.42	3.52	1.52	3.12	2.51	1.15	1.08	35.34
Fairfield	3.75	2.37	2.74	4.00	9.31	5.64	3.77	2.34	2.49	3.24	2.03	3.71	45.39
Fairview	3.49	0.89	3.97	4.65	2.74	5.53	8.71	2.50	1.99	3.30	2.06	0.94	40.57
Flora	3.92	2.95	3.64	5.88	7.99	6.20	2.52	6.41	3.19	2.62	3.60	3.15	52.07
Freeport	3.31	1.15	2.23	5.63	2.50	4.17	2.03	1.61	4.14	3.23	1.15	0.67	31.82
Galena	3.14	0.98	1.83	3.78	1.64	3.77	2.78	2.33	1.84	2.89	0.74	0.51	26.23
Galesburg	4.00	0.94	3.79	5.51	1.76	4.80	9.17	2.40	1.81	3.53	1.92	0.93	40.56
Galva	3.94	0.81	4.42	6.00	1.67	4.17	6.41	2.52	2.36	3.41	1.83	0.72	38.26
Geneseo	3.81	0.71	2.74	5.22	2.36	4.19	4.11	2.56	3.80	4.02	1.89	0.97	36.38
Golconda	6.53	3.61	3.17	3.64	7.64	5.49	3.55	3.93	8.17	1.26	2.74	2.68	52.41
Golden	3.56	0.77	7.00	3.90	7.42	5.09	8.96	1.30	2.12	4.06	1.70	0.68	46.56
Grafton	3.55	1.06	5.48	6.43	10.97	5.68	2.60	3.61	3.21	4.77	2.08	2.29	51.73
Grand Chain	------	4.61	3.37	3.70	6.06	6.97	7.01	3.98	6.82	1.69	2.80	4.99	------
Greenville	2.50	0.73	3.91	8.08	9.45	6.25	2.78	3.45	1.42	4.33	1.48	2.78	47.16
Griggsville	4.12	0.41	4.00	4.64	6.96	4.04	5.40	1.97	2.84	5.10	1.65	1.83	42.46
Harrisburg	6.21	4.08	2.74	3.98	5.81	4.73	3.55	2.70	7.86	1.58	2.61	4.15	50.00
Havana	3.86	0.62	3.59	4.61	4.21	5.25	7.11	1.46	1.97	3.22	1.47	0.99	38.36
Henry	3.98	0.81	4.04	6.15	1.94	2.45	5.02	2.73	1.62	2.94	1.78	1.01	34.47
Hillsboro	3.20	0.84	3.95	5.75	11.15	3.70	3.52	2.26	2.15	6.05	0.92	3.53	47.02
Hoopeston	3.07	0.49	2.49	5.64	6.59	4.69	4.06	2.09	1.34	4.12	1.96	2.97	39.51
Jacksonville	4.05	0.52	2.90	4.18	6.60	3.19	4.18	1.95	2.61	4.30	1.37	1.28	37.13

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Illinois—Continued													
Joliet	3.56	0.67	3.36	6.11	1.75	5.80	3.19	1.34	1.83	3.32	2.53	1.59	35.05
Kankakee	4.02	0.45	3.28	4.28	4.27	4.67	3.79	2.88	2.10	3.64	2.02	1.49	36.89
La Harpe	3.65	1.34	5.89	5.57	2.88	4.57	6.89	1.31	4.14	4.36	1.82	1.00	43.42
La Salle	3.73	0.69	2.76	5.30	1.23	3.23	4.81	2.39	1.61	2.69	1.69	0.68	30.81
Lincoln	4.24	0.66	2.67	3.85	7.21	3.78	8.51	2.14	1.77	3.57	1.56	1.62	41.58
Macomb	3.78	0.85	4.83	4.21	3.30	7.56	9.58	2.36	2.73	3.58	1.83	1.06	45.67
McLeansboro	6.63	2.44	2.96	3.96	6.41	5.16	3.95	0.67	3.36	2.25	3.09	5.08	45.96
Marengo	2.86	0.42	2.11	5.47	3.36	8.10	2.69	1.85	5.61	2.27	1.10	0.59	36.43
Mascoutah	2.23	1.38	2.64	6.08	9.98	2.30	3.81	2.58	1.64	3.16	2.01	4.55	42.36
Minonk	4.13	0.73	3.59	4.53	3.31	3.46	3.51	3.36	1.57	3.83	1.79	1.42	35.23
Monmouth	4.23	0.88	4.69	6.52	2.70	6.99	11.66	2.46	3.24	3.77	1.88	0.90	49.92
Morris	4.08	0.51	3.85	5.03	2.03	5.75	2.20	2.00	1.97	3.29	2.13	1.66	34.50
Morrison	3.29	0.72	1.66	5.03	1.77	4.17	3.79	2.40	3.25	3.63	1.32	0.46	31.49
Morrisonville	2.98	0.72	3.46	5.60	10.10	4.02	5.95	2.40	1.17	3.76	1.02	2.48	43.36
Mount Carmel	6.83	3.46	2.93	4.79	8.19	4.45	3.17	3.32	3.27	3.06	2.35	3.02	48.84
Mount Carroll	3.34	0.98	2.39	5.10	1.83	3.38	1.28	3.16	3.44	3.70	1.50	0.61	30.71
Mount Vernon	3.58	1.76	3.11	4.05	7.75	5.80	2.25	2.46	4.02	2.74	1.93	3.65	43.10
Nashville	3.55	1.80	2.94	4.44	8.35	4.49	1.67	1.97	2.68	3.15	2.44		
New Burnside	7.50	4.28	3.52	4.64	6.32	7.03	3.93	2.87	6.87	1.66	3.14	4.53	56.29
Newton	4.56	1.41	3.41	6.62	10.26	5.45	4.84	1.90	3.03	4.27	2.23	4.07	52.05
Olney	5.08	2.39	3.20	5.11	7.41	4.07	2.35	2.24	4.01	2.13	2.07	4.18	44.24
Oregon			2.36		2.40		2.25	2.47	3.68	3.88	1.21	0.86	
Ottawa	3.39	0.54	2.98	6.57	2.16	4.18	2.78	2.58	2.39	2.86	1.36	0.63	32.42
Palestine	4.98	1.87	3.62	5.10	9.80	5.67	3.82	1.15	2.39	3.01	1.60	3.93	45.94
Pana	3.17	0.70	3.97	4.93	9.38	4.34	7.39	2.48	1.41	3.82	0.86	3.62	46.07
Paris	3.52	0.70	3.51	6.22	8.85	4.40	3.34	0.59	2.96	3.76	2.76	4.25	44.86
Pawpaw	3.89	0.61	3.32	6.61	1.75	6.13	2.22	1.90	3.43	3.84	1.31	0.58	35.59
Pearl	3.57	0.48	4.15	4.22	9.35	4.17	4.97	2.77	3.06	4.62	1.51	0.77	43.64
Peoria	3.98	0.58	4.57	4.56	5.03	4.44	5.76	3.02	1.04	3.89	1.72	1.07	39.66
Pontiac	4.26	0.95	3.48	4.52	3.41	4.96	3.38	1.91	1.33	3.41	2.57	1.48	35.66
Princeville			4.24	5.63	1.97	5.57	5.83	3.84	0.99	1.81	1.92		
Quincy	3.84	0.80	5.19	6.98	5.73	5.42	6.14	3.58	3.00	3.93	1.60	0.75	46.96
Roberts	2.54	0.83	1.54	4.20	3.82	5.15	4.89	1.09	1.37	3.54	0.96	1.79	29.72
Rochelle	3.11	0.47	3.53	5.99	3.89	6.86	4.21	2.23	4.23	3.10	1.19	0.59	39.40
Rockford	3.30	0.68	1.93	6.20	2.70	5.00	2.77	1.60	4.97	3.39	1.17	0.58	34.29
Rushville	3.74	0.72	3.85	3.59	4.64	6.26	8.57	1.57	2.09	2.85	1.77	0.69	40.34
Salem	4.36	1.79	3.14	5.53	9.55	5.71	2.65	2.46	0.84	3.56	2.21	5.07	48.87
Shawneetown	5.44	3.60	2.58	3.93	9.69	3.68	2.06	4.88	7.26	1.74	2.83	3.20	50.89
Sparta	3.76	1.89	2.65	4.88	8.96	4.79	3.88	3.64	2.16	3.17	1.62	3.53	44.93
Springfield	2.58	0.65	2.96	3.56	6.32	3.41	4.66	2.08	1.65	3.33	1.17	1.31	33.68
Sycamore	3.45	0.55	2.66	4.89	2.99	5.66	4.31	1.83	3.18	3.58	0.98	0.88	34.96
Tiskilwa	3.64	0.62	3.67	7.42	1.78	2.81	9.49	2.60	1.73	3.21	1.80	0.77	39.54
Tuscola	3.95	0.65	4.02	6.82	9.40	3.10	6.56	1.52	0.97	3.85	1.60	3.56	46.00
Urbana	3.56	0.53	2.92	6.40	7.80	2.71	6.46	4.77	0.94	3.72	1.36	2.96	44.13
Walnut	3.86	0.53	3.03	6.24	2.89	4.84	4.98	2.61	4.61	3.29	1.73	0.81	39.42
Warsaw	2.13	0.76	3.67	6.31	3.15	6.01	6.38	1.71	4.66	4.77	1.93	1.11	42.59
Waterloo	3.02	1.23	2.59	4.69	11.05	5.36	2.33	3.03	3.00	4.83	1.46	4.16	46.75
Watseka			2.24	4.44	4.99	7.33	3.72	1.50	1.27	4.24	0.85		
Waukegan	3.05	0.27	2.01	5.52	3.16	4.24	1.22	1.11	1.89	2.94	0.91	1.14	27.46
White Hall	2.99	0.56	4.20	4.63	9.62	2.99	4.02	2.21	2.18	4.56	1.22	0.91	40.09
Windsor	3.15	0.69	4.35	5.96	8.78	4.63	4.01	1.46	1.35	3.40	1.59	4.14	43.42
Indiana													
Albion	3.98	0.69	3.09	4.59	3.49	2.39	3.36	2.09	2.75	4.74	2.65	2.50	36.29
Anderson	4.83	1.20	1.95	4.27	7.27	3.28	4.88	2.03	1.53	3.60	3.36	4.25	42.45
Angola	3.81	0.89	4.14	6.14	4.49	4.02	2.21	1.45	2.52	4.19	2.94	2.71	39.51
Bedford	7.44	3.95	3.05	3.80	8.14	3.66	5.35	1.62	3.42	4.42	2.93	3.97	51.75
Berne	4.23	1.12	2.69	3.87	6.26	4.29	7.07	4.21	2.08	4.30	2.69	3.92	46.73
Bloomington	6.75	3.67	3.66	4.75	7.65	4.68	2.50	[1.81]	[4.17]	4.92	3.89	4.41	52.86
Boonville	5.27	7.54	2.59	4.26	7.74	3.79	1.16	4.49	4.18	3.57	5.01	3.10	50.70
Bluffton	4.01	1.00	2.21	5.56	7.95	3.81	5.40	8.56	1.39	4.06	2.43	4.76	51.16
Brookville	4.75	2.83	2.73	3.96	8.12	5.79	5.78	2.82	3.36	3.33	2.93	2.95	49.35
Butlerville	6.29	3.43	3.63	4.01	7.70	5.51	3.57	1.96	3.88	4.38	4.47	5.00	53.83
Cambridge City	5.43	2.75	3.56	4.58	8.08	7.72	6.20	2.21	4.55	5.14	2.58	4.59	57.39
Collegeville	5.59	0.81	2.33	4.58	5.06	4.20	4.79	1.40	1.52	5.15	1.48	3.03	40.94
Columbia City	4.42	0.79	3.98	4.93	4.99	3.20	3.61	4.66	2.36	3.45	2.43	3.66	42.48
Columbus	8.60	3.61	4.51	4.47	9.07	4.79	4.63	1.89	3.89	4.26	3.03	4.30	56.96
Covington	3.40	0.65	3.26	5.34	8.51	2.98	6.03	3.78	1.36	3.28	2.98	5.50	47.07
Crawfordsville	4.13	0.76	3.02	4.05	9.60	4.00	6.16	4.45	1.68	2.84	2.40	5.07	48.16
Decker	5.63	3.56	2.70	5.20	7.98	5.66	3.45	4.25	2.79	2.70	2.06	3.16	49.14
Delphi	4.98	0.62	2.32	7.01	8.05	6.18	5.93	1.44	1.72	3.43	2.72	3.67	48.07
Edwardsport	5.34	3.39	2.64	3.95	6.22	3.82	2.22	3.05	3.94	3.08	2.34	3.30	43.24
Elliston	5.91	3.07	2.87	4.27	7.31	3.66	3.50	2.17	4.64	3.30	2.81	3.88	47.39
Evans Landing	4.95	2.35	2.77	3.75	8.03	2.82	5.55	1.10	4.26	4.49	3.58	3.33	46.98
Evansville	4.61	3.26	2.52	3.84	6.27	3.50	2.56	3.38	6.50	1.68	2.38	3.51	44.01
Farmersburg	3.81	0.88	3.33	4.46	8.64	4.45	2.72	1.11	2.00	2.95	1.13	3.62	39.10
Farmland	4.86	1.17	2.53	4.09	6.82	6.40	7.27	3.54	2.61	4.31	3.67	3.78	51.05
Forest Reserve	4.75	2.58	2.08	5.92	8.34	2.74	4.17	1.60	[4.65]	4.13	3.41	3.21	47.58
Fort Wayne	4.23	0.73	3.57	4.49	4.69	2.30	4.95	2.62	2.36	3.91	2.61	3.27	39.72
Fowler	4.38	0.33	2.22	6.31	5.38	4.76	5.01	1.30	1.34	4.20	2.05	3.98	41.26
Frankfort	3.65	0.68	3.33	4.02	8.36	4.89	7.47	2.51	1.22	3.48	2.21	5.11	46.93
Goshen	3.58	0.67	3.09	7.45	4.01	3.10	2.14	2.43	4.17	4.24	2.37	3.04	40.29
Greencastle	4.40	0.95	3.61	5.59	10.88	6.22	7.09	2.17	2.44	4.42	2.56	3.40	58.73
Greenfield	3.66	1.67	3.63	4.41	8.23	6.58	7.99	2.80	2.50	2.35	2.79	2.30	48.91
Greensburg	7.11	4.20	3.31	2.89	6.20	5.75	5.14	2.81	4.23	3.85	2.64	4.20	52.42
Hamlet	3.75	0.90	2.95	8.01	5.20	4.13	3.41	4.07	2.75	4.26	2.79	4.15	46.37
Hickory Hill	5.21	3.02	3.00	3.62	6.15	3.57	4.58	2.40	4.44	3.59	3.38	4.44	47.40
Hobart	4.47	0.84	4.17	6.19	3.66	4.73	4.78	3.14	2.84	3.73	1.61	2.73	42.89
Howe	4.17	0.92	4.21	8.24	4.65	2.62	2.17	1.36	3.33	5.14	4.07	3.40	44.28
Huntingburg	6.90	1.82	2.54	5.06	9.82	3.55	2.90	3.29	5.53	3.77	2.34	3.57	51.09
Huntington	[4.09]	[0.81]	2.98	5.81	6.31	2.57	4.11	7.50	1.38	3.29	2.37	2.41	43.63
Indianapolis	4.74	1.47	3.24	4.28	8.46	5.36	5.44	2.49	2.03	3.66	2.15	4.14	47.46
Jeffersonville	4.53	2.15	2.53	4.36	7.09	4.28	1.46	1.34	3.22	4.70	4.11	3.63	43.40
Kokomo	5.04	1.29	3.19	5.35	7.54	4.23	4.93	1.13	1.53	4.49	2.11	5.66	46.49

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Indiana—Continued													
La Fayette	3.89	0.64	2.77	7.08	7.33	5.33	8.42	1.56	1.56	4.08	1.81	5.94	50.41
La Porte	5.84	1.20	5.84	5.81	5.20	4.85	3.11	6.16	2.23	8.67	3.95	5.30	58.16
Leavenworth	4.75	3.09	2.20	4.34	8.14	2.10	2.25	3.50	4.19	2.96	3.94	4.50	45.36
Logansport	3.89	0.68	1.33	6.10	5.76	2.95	4.09	1.29	2.95	3.27	2.85	4.55	39.71
Madison	4.41	2.18	3.09	5.76	9.22	5.84	6.61	3.48	4.92	4.58	4.88	2.95	57.92
Marengo	6.52	3.08	3.22	5.01	9.06	3.80	6.72	2.45	5.53	4.23	2.52	4.62	56.76
Marion	3.81	1.41	3.25	4.63	7.73	3.44	3.55	2.58	1.73	4.45	2.09	4.10	42.77
Martinsville	5.89	2.61	2.47	3.63	8.47	3.15	6.01	1.63	2.41	3.25	1.72	4.95	46.19
Mauzy	6.05	3.60	3.23	5.08	6.16	8.45	6.04	2.84	2.58	4.15	2.21	4.88	55.07
Monticello (near)	3.57	0.89	3.93	5.64	5.15	5.69	4.20	1.48	3.26	4.32	1.95	3.48	43.56
Moores Hill	4.96	3.19	3.33	3.71	8.63	4.23	4.13	1.65	5.62	3.90	3.58	3.55	50.48
Mount Vernon	5.20	2.92	2.28	4.01	7.33	4.51	0.89	4.14	5.40	2.03	2.76	3.58	45.05
Muncie	4.75	1.30	2.62	4.32	7.21	8.24	4.91	4.35	2.08	3.70	2.82	5.79	52.09
Noblesville	5.03	1.01	2.74	4.33	7.54	3.98	9.34	1.36	1.47	3.61	2.76	5.15	48.32
Notre Dame	4.68	0.82	4.39	7.20	3.84	3.28	1.51	[2.64]	2.65	5.23	2.70	2.72	41.66
Paoli	4.15	2.67	3.41	5.90	7.15	2.71	3.86	3.27	4.34	4.10	2.23	3.67	47.46
Plymouth (near)	3.59	0.79	3.79	6.45	2.74	4.15	6.90	6.01	3.30	3.03	2.70	1.25	38.68
Princeton	6.38	3.21	2.04	4.26	6.33	3.31	2.98	5.31	2.77	3.48	2.44	4.46	46.97
Richmond	5.50	2.83	2.92	4.84	6.87	7.00	3.51	1.78	2.02	3.15	2.17	4.08	46.67
Rochester	4.08	0.40	3.40	4.84	5.85	2.68	2.32	2.80	2.45	3.27	3.21	4.61	39.91
Rockville	4.32	0.80	3.44	4.99	9.50	4.59	3.07	2.13	2.80	3.36	2.49	4.76	46.25
Rome	4.04	2.12	2.26	4.02	8.95	2.67	2.30	1.54	4.68	4.34	3.28	4.66	44.86
Royal Center	3.88	0.48	3.87	3.95	4.82	2.98	4.03	1.62	2.81	3.71	2.58	2.80	37.53
Salamonia	4.77	1.44	3.04	4.85	5.52	6.82	3.80	3.60	1.56	4.25	3.43	4.99	48.07
Salem	7.53	3.78	3.79	5.98	11.58	3.20	3.93	2.48	4.44	4.31	3.66	4.05	59.23
Scottsburg	5.51	3.03	3.21	5.93	10.28	5.05	6.42	2.79	5.74	4.35	3.31	3.43	59.05
Seymour	5.69	3.56	2.81	3.52	7.73	4.49	3.30	1.88	3.57	3.20	2.47	3.36	45.58
Shelbyville	5.70	3.26	3.18	6.24	7.62	5.29	3.92	1.62	4.74	2.33	3.08	3.16	50.14
Shoals	6.85	2.81	2.49	4.50	8.22	2.92	2.83	2.52	3.88	3.86	2.31	4.17	47.36
South Bend	4.37	0.79	4.53	7.61	3.96	4.48	1.35	3.00	2.57	5.70	3.39	2.95	44.70
Stewartsville	5.40	2.98	2.06	4.11	7.86	6.25	1.84	2.31	5.05	2.08	2.02	3.84	45.80
Terre Haute	4.75	1.02	3.63	5.99	8.95	3.61	3.08	0.45	2.72	3.54	2.55	3.98	44.27
Thayer	3.74	1.05	2.43	6.08	4.30	4.18	3.04	0.88	2.00	3.59	1.55	1.86	34.70
Valparaiso	3.66	0.76	4.97	6.47	4.28	4.65	2.43	3.20	2.31	4.02	2.84	3.60	43.19
Veedersburg	3.51	1.05	2.80	3.19	7.86	3.09	6.77	3.54	1.08	3.89	2.21	6.85	45.84
Vevay	4.87	2.11	2.64	4.69	8.42	4.65	3.82	1.89	4.30	3.16	4.35	3.05	47.95
Vincennes	6.26	2.57	3.13	5.09	8.08	4.29	2.00	2.98	3.39	3.04	2.12	4.13	47.08
Wabash	4.22	0.78	2.08	7.30	6.44	2.43	3.41	4.67	2.10	3.31	2.33	4.16	43.23
Washington	6.15	3.31	2.83	5.05	9.36	3.12	3.50	2.86	3.80	3.98	2.60	3.86	50.42
Wheatfield	4.05	0.50	2.88	5.56	3.47	3.08	3.15	0.87	1.74	2.74	1.42	[3.42]	32.88
Whitestown	4.29	0.81	3.58	5.00	9.80	4.84	4.68	2.74	2.60	3.89	2.37	5.33	49.93
Whiting	3.42	0.45	3.82	6.62	2.41	5.33	2.65	1.96	2.42	3.45	1.72	2.22	36.47
Williams	7.86	3.30	2.98	3.73	9.46	3.44	5.19	2.88	3.29	4.13	2.78	4.15	53.19
Winamac	4.07	0.47	3.22	5.81	6.48	4.20	2.12	2.65	1.53	4.59	2.56	3.63	41.35
Winona Lake	6.08	1.91	2.95	5.37	5.24	4.77	2.70	7.80	3.75	4.10	2.64	2.74	50.05
Iowa													
Afton	2.22	2.81	0.98	4.99	2.40	3.48	2.77	-------	4.06	4.78	1.80	0.31	-------
Akron	0.48	0.58	0.81	3.25	2.75	3.50	2.11	3.79	2.71	2.45	0.30	0.15	22.88
Albia	2.15	1.32	1.44	4.90	1.62	3.21	3.34	0.91	5.50	3.96	1.40	0.31	30.06
Algona	1.45	1.18	0.32	4.15	4.05	2.62	2.49	2.48	5.09	2.03	0.32	0.37	26.55
Allison (near)	2.03	1.53	1.20	3.18	-------	1.85	-------	-------	-------	-------	-------	-------	-------
Alta	0.90	2.01	1.31	3.52	1.75	3.13	2.95	2.12	4.02	2.38	0.89	0.24	25.22
Alton	1.45	1.35	1.75	1.87	1.37	3.85	1.69	3.47	2.76	1.77	0.50	0.31	22.14
Ames	1.81	1.97	1.02	3.79	2.31	2.66	6.62	2.83	4.60	1.92	1.29	0.48	31.30
Atlantic	2.30	2.30	0.87	4.81	1.96	2.65	4.24	1.52	4.38	5.39	1.19	0.12	31.73
Audubon (near)	2.32	2.23	0.67	4.55	1.76	3.99	4.39	0.84	2.91	4.08	1.26	0.39	29.39
Baxter	1.99	1.61	1.85	3.62	2.57	2.10	5.56	2.41	5.23	2.15	1.68	0.19	30.96
Bedford	2.47	1.58	0.67	6.43	3.18	4.31	6.16	1.46	3.80	6.55	1.27	0.18	38.06
Belle Plaine	3.17	1.42	1.85	3.40	1.33	1.56	4.22	7.03	2.53	2.73	1.73	0.65	31.62
Belmond	1.96	1.44	0.74	5.10	3.56	1.85	3.62	3.52	3.12	1.66	0.99	0.22	27.78
Bonaparte (near)	2.07	0.67	2.21	6.08	2.06	5.37	3.97	2.57	3.60	3.88	1.19	0.70	34.37
Boone (near)	1.80	1.49	1.12	5.26	2.32	1.56	4.64	2.37	5.15	2.26	1.00	0.45	27.42
Britt	1.53	1.56	0.91	4.59	3.72	1.53	5.04	3.00	3.79	1.64	0.47	0.23	26.01
Burlington	4.10	1.00	4.32	7.38	2.81	5.24	5.79	2.81	3.34	5.02	1.22	1.21	44.24
Carroll	1.05	1.49	0.55	3.42	3.34	3.62	3.77	2.05	3.88	2.49	1.03	0.50	27.19
Cedar Falls	-------	-------	-------	-------	-------	-------	-------	-------	3.05	1.82	1.68	0.42	-------
Cedar Rapids	3.07	1.32	1.34	4.32	1.32	1.32	5.30	4.99	2.20	2.89	1.49	0.56	30.12
Centerville	2.36	0.71	1.73	6.81	1.89	4.94	7.33	2.26	5.18	5.93	1.23	0.70	41.07
Chariton (near)	1.20	0.34	0.95	4.08	0.82	2.61	4.70	1.96	2.43	3.88	1.11	0.29	24.37
Charles City	2.68	1.73	1.67	4.89	3.24	1.49	3.54	1.24	3.96	1.49	1.11	0.25	27.29
Cherokee	0.65	1.27	0.82	2.14	1.30	3.65	2.82	2.46	4.54	2.83	0.37	0.19	23.04
Clarinda	0.96	0.68	1.56	7.05	3.99	5.46	8.79	2.22	3.88	5.67	1.57	0.04	41.87
Clinton	3.28	0.78	2.13	5.50	2.53	4.38	3.07	2.49	3.30	3.33	1.36	0.44	32.89
Columbus Junction	2.61	0.82	2.43	7.30	1.37	4.14	7.81	2.26	3.92	3.24	1.61	0.64	38.15
Corning (near)	2.72	1.00	1.12	5.52	3.84	2.36	3.58	1.44	4.30	6.51	-------	0.10	-------
Corydon (near)	2.43	1.10	1.80	5.80	1.32	2.90	5.75	1.77	2.93	4.09	1.86	0.18	33.92
Creston	1.65	1.40	0.49	4.80	2.47	3.84	3.64	1.25	4.00	4.26	2.01	0.18	29.99
Cumberland (near)	1.81	2.77	0.50	4.87	1.90	2.75	4.24	1.40	4.35	5.32	1.60	0.22	31.73
Davenport (Weather Bureau)	3.01	0.81	2.60	5.49	1.23	4.30	5.64	2.69	3.13	3.77	1.51	0.53	34.71
Davenport (No. 2)	3.59	0.92	2.01	6.07	1.67	4.38	6.32	3.14	-------	-------	-------	-------	-------
Decorah	2.48	1.34	1.63	4.38	3.38	1.64	3.19	1.20	3.55	2.32	1.22	0.48	26.81
Denison	0.88	0.88	0.41	2.27	2.27	3.55	3.73	3.02	2.67	1.63	0.53	0.20	22.04
Des Moines	2.70	2.06	1.11	4.38	2.18	2.42	3.72	2.82	4.67	2.74	1.87	0.34	31.01
Dubuque	3.13	1.00	2.41	3.47	1.39	4.69	1.47	1.83	1.55	2.10	0.88	0.54	24.26
Earlham (near)	2.89	1.80	0.81	5.14	2.65	2.55	2.87	2.28	3.49	2.92	1.32	0.28	29.00
Estherville	1.34	0.75	1.20	3.35	2.58	1.48	2.45	1.33	4.40	3.05	0.50	0.45	22.88
Fairfield	1.88	1.57	2.32	7.06	1.59	2.43	4.41	5.52	3.19	4.34	1.27	0.67	36.25
Fairport	3.03	0.65	2.26	6.45	1.50	3.26	8.28	3.09	3.39	3.51	1.79	0.48	37.89
Fayette	3.16	1.32	2.58	5.36	1.24	1.78	1.77	2.62	4.74	1.94	1.07	0.73	28.30
Forest City	2.15	1.55	0.43	5.03	5.04	1.81	4.18	2.70	3.67	1.43	0.96	0.49	29.44
Fort Dodge	1.69	1.47	1.21	3.49	2.51	2.15	4.14	3.92	4.27	1.60	0.82	0.33	27.60
Glenwood	0.98	1.46	0.89	4.14	2.31	4.00	7.38	1.19	3.13	4.31	1.84	0.03	31.66
Grinnell	2.63	0.85	1.70	5.45	2.61	1.89	4.26	2.23	-------	2.43	1.49	0.31	-------

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Iowa—Continued													
Grundy Center	3.15	1.34	2.38	4.91	2.17	1.69	5.62	2.20	5.51	1.94	1.88	0.58	33.37
Guthrie Center				4.56	2.03	2.96	4.31	0.78	3.26	4.69	0.94	0.29	
Hampton	2.07	1.99	0.68	5.29	3.61	2.01	2.87	3.37	3.98	1.81			
Harlan	0.97	1.28	0.70	4.17	2.84	3.18	3.61	2.38	3.34	2.33	1.22	0.35	26.37
Hawarden	0.65	0.94	0.57	4.08	4.67	3.42	4.59	1.70	3.06	2.11	0.18	0.27	26.24
Humboldt	1.75	1.51	1.00	4.43	2.91	2.41	3.65	2.93	3.12	2.55	0.78	0.44	27.48
Independence	2.02	1.00	1.74	3.79	2.93	2.38	3.88	3.31	5.72	1.97	1.03	0.45	30.22
Indianola	2.70	1.45	1.14	5.56	2.19	2.28	3.59	2.57	2.76	2.84	1.52	0.57	29.17
Inwood (near)	0.85	0.51	0.40	2.37	3.42	3.03	4.02	2.46	4.10	2.01	0.21	0.19	23.57
Iowa City	2.57	1.04	2.26	4.73	1.94	3.11	5.42	3.96	2.36	3.75	1.52	0.64	33.33
Iowa Falls	2.73	3.03	1.70	5.82	4.77	1.81	3.99	3.29	5.42	1.67	1.41	0.67	36.31
Jefferson	1.80	2.10	1.15	3.02	2.84	2.07	2.44	1.18	3.66	1.89	1.38	0.55	24.08
Keokuk (Weather Bureau)	3.14	0.97	4.78	4.60	2.97	3.91	5.75	1.41	4.77	4.27	1.51	0.69	38.77
Keokuk (No. 2)				5.68	3.93	5.18	6.25	1.87	4.98	5.18	1.72	0.90	
Keosauqua	1.97	0.55	2.11	7.13	1.88	5.73	3.17	1.16	3.56	5.40	1.85	0.52	35.03
Knoxville	2.95	2.06	1.00	3.78	1.38	1.52	2.68	1.28	2.62	2.54	2.34	0.49	24.64
Lacona	3.79	1.75	1.56	4.60	1.68	2.86	2.35	2.03	2.35	2.91	1.58	0.49	27.97
Lake Park (near)	1.06	0.88	1.33	2.66	2.72	1.89	3.86	2.57	5.54	2.83	0.08	0.38	25.80
Lamoni	2.30	1.38	1.34	4.40	1.34	5.60	7.33	1.23	2.97	4.88	0.96	0.08	33.81
Lansing			1.47	4.08	2.49	3.26	2.33	2.85	2.70	2.19	1.44		
Le Claire			2.18	5.30	2.13	4.50	5.01	3.45	4.71	3.31			
Le Mars	1.11	2.01	1.54	2.44	1.15	3.51	1.88	2.01	2.91	1.94	0.40	0.30	21.20
Lenox	1.85	1.09	0.87	6.87	2.64	4.42	3.98	1.82	3.53	5.78	1.84	0.66	35.35
Little Sioux	0.52	1.69	0.74	2.80	2.19	3.98	5.17	2.37	2.99	2.81	1.27	0.30	26.81
Logan	1.09	1.12	1.10	5.48	2.61	3.12	6.03	2.48	4.72	2.73	1.68	0.43	32.59
Maquoketa (near)	2.07	0.87	1.74	4.33	1.30		2.54	2.57	2.35	3.60	1.28	0.45	
Marathon	1.08	1.56	1.38	4.64	1.00	3.38	2.16	2.89	4.91	2.17	0.60	0.19	25.96
Marshalltown	2.30	1.57	1.60	4.27	2.11	1.49	5.02	5.76	2.83	1.90	1.03	0.37	30.25
Mason City	1.38	1.99	1.02	5.38	3.53	1.45	1.69	2.51	4.09	1.20	1.01	0.30	25.55
Melrose				5.99	2.16	3.25	5.79	1.75	4.48	4.97	1.76	0.24	
Monroe	2.20	1.59	1.19	4.82	1.61	1.59	4.89	1.10	4.05	3.05	1.92	0.31	28.32
Mount Ayr	2.91	1.18	1.60	4.04	1.61	4.40	3.94	1.45	3.00	4.94	1.36	0.12	30.55
Mount Pleasant	2.78	0.64	2.41	7.35	1.42	3.18	4.29	2.50	3.83	4.07	1.33	0.64	35.34
Muscatine	3.39	0.81	2.14	7.97	1.30	2.74	8.78	2.33	3.91	3.33	1.72	0.85	39.27
New Hampton	1.96	1.12	1.54	3.95	3.64	1.26	1.93	1.70	4.70	1.50	1.12	0.28	24.70
Northwood	2.55	1.10	1.88	5.61	3.89		2.41	3.54	4.61	1.55	0.96	0.40	
Oakland	1.41	1.39	0.50	4.11	3.04	3.38	7.77	2.07	4.47	3.31	2.18	0.04	33.67
Oelwein	1.44	0.96	1.82	5.99	2.60	2.02	4.95	2.45	4.90	1.35	1.16	0.32	29.96
Olin	2.80	0.94	1.73	4.90	2.77	3.23	3.08	2.02	1.92	3.01	1.15	0.36	27.91
Onawa	0.40	1.40	1.20	1.87	1.97	5.63	4.08	2.47	3.31	3.60	0.84	0.15	26.92
Osage	2.22	1.68	1.05	3.38	3.77	1.23	2.33	1.19	4.09	1.54	0.91	0.55	23.94
Oskaloosa	2.42	1.43	1.65	4.44	1.14	2.76	4.98	2.12	3.30	3.65	1.63	0.65	30.17
Ottumwa	2.49	0.74	2.49	6.17	2.00	2.96	4.16	1.94	3.49	4.79	1.98	0.44	33.65
Perry	2.21	1.92	0.63	3.24	1.36	1.84	4.21	2.59	7.36	2.91	0.89	0.51	29.67
Pocahontas	1.06	1.25	1.26	4.89	1.62	2.63	3.34	2.85	3.67	2.25	0.60	0.28	25.70
Postville (near)	2.10	0.90	1.56	2.87	2.10	2.35	1.82	1.67	3.41	1.37	1.13	0.67	21.95
Red Oak (near)	1.23	2.26	0.87	5.81	3.66	5.00	5.34	1.07	4.07	5.72	1.16	0.08	36.27
Riverton (near)	1.34	1.13	0.97	5.76	5.79	4.85	12.30	0.88	2.63	5.97	1.60	0.12	43.34
Rock Rapids	1.23	1.08	0.81	4.70	4.48	2.42	3.11	3.15	5.71	2.83	0.25	0.23	30.00
Rockwell City			0.82				4.60	2.30	4.13	2.33		0.39	
Sac City	1.32	1.92	0.30	2.63	1.45		3.49	1.99	2.34	1.80	0.72	0.20	
Sanborn	1.64	0.76	1.12	2.84	3.49	4.29	3.04	3.20	5.18	2.47	0.11	0.36	28.30
Sheldon	1.14	1.10	1.14	2.70	2.48	4.01	3.15	3.84	4.66	2.88	0.25	0.21	27.56
Sigourney (near)	2.63	1.19	2.66	4.27	2.05	2.08	5.01	2.64	3.49	3.23	1.45	0.58	31.28
Sioux Center	1.00	0.96	0.58	1.81	2.62	2.90	3.10	1.48	3.24	2.42	0.28	0.18	20.57
Sioux City	0.59	1.00	1.12	2.99	1.73	5.47	3.27	1.55	3.18	2.23	0.41	0.27	26.81
Spencer	1.60	1.32	1.09	3.20	2.05	2.19	2.30	2.03	3.80	2.30	1.43	0.42	23.71
Stockport (near)	2.77	0.76	2.75	7.76	1.77	3.39	3.86	3.58	4.00	4.24	1.34	0.58	36.80
Storm Lake	0.83	1.54	1.59	3.02	2.03	2.96	4.19	2.95	3.46	1.84	0.78	0.34	25.53
Thurman	0.87	0.68	0.59	5.18	3.73	3.59	10.09	1.32	2.70	5.88	1.31	0.04	35.98
Tingley	2.61	1.60	0.84	4.34	1.86	4.01	2.64	1.41	3.93	4.96	1.61	0.25	29.76
Tipton (near)	2.75	1.07	2.58	4.88	1.93	4.58	4.54	4.61	2.54	3.57	1.66	0.65	35.36
Toledo	2.91	1.43	2.25	4.43	1.55	0.82	6.08	9.27	3.35	2.16	1.28	0.48	36.01
Van Meter	2.20	1.23	1.20	4.99	1.78	2.88	4.60	2.58	3.36	2.80	1.58	0.35	29.55
Washington	2.65	1.46	2.58	6.09	1.65	4.22	6.93	1.86	3.63	3.60	1.21	0.61	36.49
Washta	0.53	0.89	1.26	2.24	1.26	6.34	2.65	3.07	3.88	2.51	0.48	0.16	25.27
Waterloo	2.63	1.22	1.92	3.53	2.13	1.00	3.40	2.14	3.66	1.57	1.30	0.43	24.98
Waukee			1.05	5.67	1.48	1.99	5.81	1.97	4.42	3.25	1.77	0.34	
Waverly	3.81	1.54	1.85	2.97		1.85	4.35	3.97	4.10	1.36	1.40	0.32	
Webster City	1.76	1.17	0.88	2.81	4.02	1.57	5.48	3.82	5.15	1.10	0.88	0.31	28.95
West Bend	0.92	0.92	1.08	4.24	3.98	1.99	2.67	1.70	4.21	2.27	0.56	0.11	24.65
Wever	3.54	1.17	4.92	6.95	2.49	5.34	4.53	1.68	3.44	5.75	1.55		
Williamsburg	2.55	0.92	1.21	3.82	1.50	3.14	5.65	2.77	3.55	2.81	2.58	0.30	30.60
Winterset	2.15	2.50	0.70	5.69	2.92	3.02	2.23	2.21	3.07	3.48	2.28	0.32	30.57
Kansas													
Alden	1.30	0.88	0.35	2.48	6.31	4.77	7.77	0.65	1.72	3.66	2.77	0.38	33.04
Alton (near)	0.10	0.80	T.	3.32	4.30	5.72	1.38	1.55	2.35	4.30	1.00	T.	24.52
Anthony	1.68	0.50	0.90	3.15	6.91	4.03	3.62	0.94	2.21	4.38	2.67	T.	30.99
Arkansas City	1.58	0.72	2.00	5.26	7.79	12.35	4.92	1.08	1.07	2.50	1.43	0.11	40.81
Ashland	0.80	0.55	0.90	1.80	4.05	3.22	3.13	1.95	2.39	1.62	2.71	T.	23.12
Atchison	3.21	1.93	2.20	8.31	4.79	5.56	1.24	3.45	2.28	7.14	1.07	0.08	41.36
Atwood			0.08	2.14	3.95	1.62	4.21	1.28	2.01	1.97	1.42	0.00	
Augusta	1.98	0.40	1.18	3.96	4.53	4.95	5.30	1.50	0.78	2.78	0.92	0.40	28.68
Bazaar	1.67	0.53	1.29	2.60	4.56	5.22	8.10	4.92	0.75	4.21	1.12	0.40	35.37
Beaver	0.30	0.67	0.16	1.32	4.49	1.31	9.22	2.09	1.20	3.73	2.16	T.	25.85
Beloit	0.34	0.41	0.10	4.83	3.65	9.23	1.26	0.65	2.80	5.18	2.11	T.	30.86
Bird City (near)	0.08	0.40	0.20	1.78	3.88	2.32	1.77	1.33	2.88	1.46	1.80	0.20	17.80
Bison (near)	0.49	0.82	0.08	1.07	4.79	2.12	2.80	2.08	1.45	2.90	2.02	0.07	20.89
Blue Rapids	1.70	0.93	0.17	3.82	3.45	10.08	2.63	0.57	1.95	5.89	0.78	T.	31.97
Bucklin	0.76	0.52	0.38	1.70	1.97	5.22	2.27	3.18	3.23	2.26	2.16	0.02	28.65
Burlington	2.18	0.78	1.94	6.10	4.76	2.88	5.00	2.12	2.00	5.86	1.01	0.17	34.80
Burr Oak (near)	0.16	0.80	0.04	3.26	3.83	4.19	1.57	0.79	1.49	4.12	1.26	0.02	21.88
Carbondale	2.42	1.23	2.68	6.37	7.34	3.41	1.75	2.26	1.56	6.00	0.54	0.58	36.09

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Kansas*—Continued**													
Cawker City	0.14	0.86	T.	4.35	3.95	6.78	1.40	0.81	2.17	4.81	2.28	0.04	27.59
Centralia	1.22	1.17	1.15	3.14	5.75	7.09	1.77	4.02	1.63	6.60	0.65	0.05	34.24
Chanute	1.96	0.97	1.28	8.88	12.34	5.10	1.85	0.94	1.25	5.08	0.96	T.	40.61
Chapman	2.80	1.26	1.35	4.17	5.14	4.19	2.47	6.25	3.03	5.04	1.83	0.00	37.53
Cheney	1.90	0.88	0.40	3.10	4.10	3.27	4.30	1.44	1.63	2.61	2.75	0.18	26.56
Cimarron	0.36	0.52	0.41	0.84	2.58	3.50	4.03	1.44	3.15	2.76	1.57	0.00	21.16
Clay Center	1.77	1.68	0.65	3.11	4.56	5.44	2.05	3.09	2.43	4.53	1.49	0.00	30.20
Clyde	1.44	1.34	0.63	4.05	3.58	5.76	1.48	1.38	2.87	4.04	1.71	0.08	27.76
Colby	T.	0.65	0.10	3.28	4.11	2.14	1.08	1.42	3.34	2.07	1.67	0.08	19.94
Coldwater	0.76	0.28	0.40	1.08	2.86	3.11	5.22	4.69	2.03	2.12	2.80	T.	26.25
Columbus	2.26	2.08	1.94	9.97	9.80	8.48	3.01	1.47	2.34	3.37	1.27	0.61	46.60
Concordia	0.78	0.94	0.66	5.09	3.56	4.12	1.98	1.33	2.96	3.82	1.42	0.09	26.15
Council Grove	1.71	0.77	2.25	2.79	7.71	4.49	3.60	5.04	0.62	4.30	0.95	0.50	34.73
Deerfield (near)	0.05	0.64	0.50	1.34	1.57	2.33	2.09	2.29	2.10	1.20	1.88	0.21	16.20
Dodge City	0.56	0.72	0.48	1.67	2.61	2.73	5.51	1.58	2.61	0.85	2.53	0.05	21.90
Dresden	0.19	0.26	T.	3.31	4.21	2.61	3.12	1.41	2.81	3.06	1.90	0.17	23.05
Eldorado	1.93	0.50	0.93	3.14	5.84	5.80	4.38	1.49	0.58	3.42	1.50	0.11	29.62
Elkhart	0.20	0.14	1.00	0.14	2.48	2.22	4.01	1.95	1.95	0.87	1.57	0.00	16.53
Ellsworth	0.85	1.25	0.06	1.85	5.59	2.68	6.52	2.18	1.77	3.66	3.52	T.	29.93
Elmdale	1.63	0.55	0.96	2.44	5.99	4.77	5.89	4.60	0.87	3.64	1.23	0.34	35.61
Emmett	1.89	0.89	2.00	5.59	5.22	6.21	1.76	0.71	1.17	5.25	0.88	0.09	31.66
Emporia	1.66	0.80	1.27	3.37	4.81	3.86	5.93	5.60	0.75	5.74	1.02	0.58	35.39
Eskridge	1.98	1.06	1.97	3.51	8.50	4.76	2.18	2.68	1.98	5.22	1.44	0.55	35.83
Eureka	1.97	0.61	1.54	5.32	6.50	4.02	4.20	2.11	2.99	2.99	1.03	0.30	33.58
Florence	1.85	0.67	0.80	3.39	5.09	3.80	7.85	3.92	0.87	3.73	1.38	0.33	33.68
Fort Scott	2.75	1.20	2.11	7.14	9.91	4.73	1.90	0.84	0.52	4.24	1.37	0.25	36.96
Fredonia	1.77	0.61	2.10	9.25	9.10	3.39	5.10	1.25	1.30	3.51	1.22	0.27	38.85
Garden City	0.25	0.74	0.70	1.39	3.49	1.67	2.14	2.08	2.23	1.35	2.05	0.21	18.30
Garnett	2.55	0.79	2.02	5.87	7.76	6.29	4.25	2.30	1.78	5.80	1.10	0.80	41.31
Goodland	0.03	0.29	0.03	2.00	3.52	2.54	1.88	2.98	2.25	1.62	1.78	0.14	19.06
Gove (near)	T.	0.71	0.06	1.81	1.42	2.90	1.47	1.14	2.91	2.18	1.75	0.12	16.47
Great Bend	0.85	0.83	0.07	1.91	6.03	2.69	8.37	0.84	1.52	3.09	2.41	T.	28.61
Greensburg	0.40	0.50	0.22	1.55	2.86	3.09	3.46	2.56	2.55	2.16	2.96	T.	22.31
Hanover	1.30	0.85	0.19	4.04	2.89	5.74	2.09	0.63	1.89	5.72	0.93	0.08	26.35
Hays	0.20	0.51	0.01	2.30	3.95	1.54	7.14	2.84	3.58	2.96	1.51	0.03	26.57
Healy	0.04	0.60	0.21	1.68	2.66	1.38	1.40	1.73	2.88	1.69	1.52	0.12	15.91
Herington	1.12	0.64	1.46	6.06	7.84	3.39	4.65	3.41	0.34	5.72	1.28	0.31	36.22
Hesston	1.49		0.38	2.83	4.63	3.83	5.98	3.56	1.03	3.10	2.13	0.31	
Hill City	0.07	0.36	0.12	2.25	3.08	1.90	3.11	1.92	2.15	4.38	1.21	0.11	20.66
Holton	1.94	1.14	1.93	9.05	4.22	6.91	1.44	1.76	2.23	6.57	1.12	0.06	38.37
Horton (near)	1.62	1.12	1.32	6.16	1.78	7.12	2.44	0.89	2.05	5.26	1.01	T.	30.77
Howard	2.16	0.65	2.27	6.74	9.77	5.01	3.99	0.32	0.71	3.92		0.24	
Hoxie	0.25	0.43	0.10	2.39	2.11	2.83	2.01	1.32	1.71	2.24	2.05	0.00	17.44
Hudson	1.00	0.86	0.04	1.72	4.19	3.18	4.11	1.66	1.27	2.87	2.81	0.28	23.99
Hugoton	0.25	0.24	0.70	0.50	2.63	3.09	1.84	2.74	2.50	0.97	2.00	0.00	17.46
Hutchinson	1.63	1.28	0.05	1.81	5.70	5.62	7.10	2.31	1.43	3.55	3.03	0.12	33.63
Independence	1.74	0.99	2.52	7.04	7.00	5.09	5.95	2.68	0.32	5.27	1.43	0.43	40.46
Iola	2.38	0.77	1.55	6.19	8.05	4.07	2.77	0.81	1.86	4.32	1.16	0.54	34.47
Irene	T.	0.25	0.59	0.41	1.92	1.12	3.41	2.26	2.14	0.36	1.06	0.08	13.60
Jetmore	0.50	0.65	0.35	1.08	6.07	1.08	4.11	3.27	2.92	1.19	1.95	0.10	23.27
Johnson	0.15	0.17	0.82	0.51	1.90	0.49	3.90	2.05	2.39	0.78	1.48	0.02	14.66
Junction City	1.87	0.97	1.06	4.39	6.16	4.90	2.62	4.51	2.65	6.60	2.62	0.02	38.37
Kismet (near)	0.60	0.37	0.55	0.34	3.29	3.24	2.74	1.40	1.63	1.28	1.18	T.	16.62
La Cygne									2.44	6.17	0.97	0.67	
Lakin	0.18	0.85	0.40	1.30	2.56	1.47	2.92	2.77	2.70	1.64	1.90	0.10	18.79
Larned	0.60	0.40	0.07	2.26	7.04	2.91	4.04	1.06	1.70	2.54	2.65	0.04	25.31
Lawrence	0.80	1.32	2.53	4.54	6.28	4.93	2.35	1.71	1.11	5.85	0.38	0.55	32.35
Leavenworth	2.05	1.55	2.00	6.47	5.83	8.32	1.81	0.96	2.62	8.30	0.50	0.11	40.50
Lebo	1.92	0.86	1.44	3.33	5.18	3.10	5.55	3.19	0.38	6.07	0.90	0.44	32.36
Leoti	T.	0.70	0.47	2.07	1.88	1.41	1.86	1.88	2.62	1.05	2.85	0.20	16.99
Le Roy	2.18	0.55	1.05	5.75	5.72	4.72	2.69	2.25	1.92	4.46	0.72	0.28	32.29
Liberal	0.84	0.34	0.85	0.30	3.20	2.33	5.23	2.00	1.83	1.64	1.59	0.09	19.65
Lincoln	0.95	0.97	0.03	3.40	4.72	2.51	2.29	1.63	1.26	3.43	2.22	0.12	23.53
Lyndon (near)	2.15	1.23	3.10	3.92	5.48	3.70	2.50	1.68	1.21	7.61	0.88	0.38	33.84
McFarland	1.60	0.92	1.20	3.96	3.80	4.83	2.35	1.46	0.98	5.39	1.09	0.10	27.68
McPherson	1.37	1.06	0.52	3.05	8.37	5.71	6.05	1.65	1.88	3.87	2.86	0.57	36.96
Macksville	1.16	0.63	0.22	1.56	2.69	2.43	3.54	1.54	3.20	1.99	2.49	0.27	21.72
Manhattan	1.95	0.82	0.94	5.49	3.35	7.96	3.05	2.51	1.39	5.07	1.10	T.	33.63
Marion	2.15	1.70	1.25	2.47	3.70	3.70	4.80	4.05	1.60	4.25	1.59	T.	31.26
Medicine Lodge	1.29	0.58	0.76	1.95	4.10	3.11	5.70	1.26	3.49	2.62	3.08	0.05	27.99
Medora	1.06	0.96	0.62	2.24	5.87	5.51	5.46	1.48	0.84	3.71	3.99	0.46	32.19
Mentor	1.91	1.32	1.23	3.07	5.13	2.96	5.57	2.08	0.53	4.64	2.10	0.03	30.57
Minneapolis	1.10	0.93	0.25	2.87	4.29	5.09	3.63	2.74	2.28	3.93	2.01	0.01	29.04
Mineola	0.65	0.45	0.40	0.83	2.32	3.26	3.24	1.52	3.70	1.12	2.15	T.	19.64
Mount Hope	1.98	0.81	0.81	2.56	5.85	6.63	4.72	3.69	1.23	2.47	2.53	0.07	33.35
Neosho Rapids	2.13	0.80	1.70	3.49	5.56	4.14	6.96	3.97	0.65	5.78	0.89	0.20	36.27
Ness City (near)	0.30	0.43	0.12	1.37	7.23	1.96	4.16	1.53	1.95	1.32	1.40	0.00	21.77
Newton	1.98	1.32	0.50	3.48	5.02	5.56	6.48	2.93	1.19	3.51	2.08	0.19	34.24
Norton (near)	0.10	0.54	0.10	3.25	2.30	1.92	7.11	0.96	2.46	5.00	1.40	0.05	25.19
Norwich	1.80	0.48	0.15	2.50	4.80	4.12	5.15	2.52	2.26	2.74	2.83	0.06	29.41
Oakley	0.02	1.15	0.11	1.84	3.42	1.49	3.44	2.59	2.49	2.47	2.26	0.10	21.38
Oberlin	0.07	0.33	0.11	2.22	4.04	2.02	2.81	0.86	1.71	1.42	1.26	0.08	16.93
Oketo	1.37	0.84	0.23	3.33	4.37	3.83	2.41	2.63	2.08	6.17	1.35	0.09	28.70
Olathe	2.60	1.65	1.75	2.80	3.83	6.17	3.04	3.58	2.54	1.47	9.18	0.97	0.45	37.78
Osage City	2.37	1.41	2.19	10.64	8.85	9.53	3.86	0.41	2.39	4.28	1.35	0.30	47.58
Oswego	2.22	1.06	2.03	3.19	3.76	4.80	3.95	2.68	1.50	7.29	0.77	0.71	33.96
Ottawa	2.51	1.38	2.58	3.77	5.86	3.83	1.73	1.68	0.83	6.08	0.67	0.57	31.49
Overbrook	2.46	1.12	3.04	3.16	7.00	7.00	2.57	1.35	1.04	4.97	0.66	0.80	34.97
Overbrook (near)	2.85	1.68	2.85	4.22	6.40	6.95	4.41	1.28	2.75	6.77	0.81	0.43	41.40
Paola	2.51	1.36	2.63	7.29	9.72	7.73	6.38	0.82	0.86	4.89	1.41	0.62	46.22
Parsons	0.10	0.38	0.04	3.09	2.31	2.42	2.66	1.33	2.98	3.87	1.61	0.10	20.89
Phillipsburg	1.93	2.12	1.91	7.74	9.65	7.11	3.83	1.75	1.22	2.44	1.17	0.85	41.72
Pittsburg	1.90	0.58	1.13	0.23	2.43	3.54	3.03	1.01	2.33	2.53		0.00	
Plains	0.38	0.97	0.07	3.27	3.26	4.10	4.51	2.47	2.35	4.23	2.65	0.31	28.57
Plainville													

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Kansas*—Continued**													
Pleasanton	1.99	0.70	1.53	5.88	7.50	6.98	3.83	1.25	3.45	4.77	1.05	0.65	**39.56**
Pomona (near)	2.27	1.10	1.86	2.92	5.46	4.05	2.18	1.52	0.81	5.92	0.57	0.42	**29.08**
Pratt	0.87	0.61	0.25	1.57	1.92	3.78	2.52	1.78	1.59	2.81	3.36	T.	**21.06**
Quenemo	2.32	------	1.90	3.75	7.63	2.86	5.95	3.53	0.95	5.55	0.58	0.23	------
Quinter	0.12	0.73	0.07	2.39	2.94	2.59	1.55	2.09	2.61	3.14	1.52	0.17	**19.92**
Randolph	1.58	1.02	0.18	5.43	8.34	4.44	1.46	1.28	2.62	6.52	1.19	T.	**34.06**
Reading	2.03	0.78	1.60	4.21	7.00	3.79	4.37	3.47	1.07	7.86	0.93	0.49	**37.60**
Republic	0.12	------	0.07	------	3.44	2.37	1.48	1.57	------	4.58	3.05	0.00	------
Richfield	0.35	0.04	1.53	2.10	1.90	1.70	3.35	2.80	0.90	T.	2.18	T.	**16.85**
Russell	0.40	0.63	0.15	1.64	4.34	2.36	8.81	3.25	1.97	3.58	2.97	0.03	**30.13**
St. Francis	0.04	0.38	0.46	2.22	3.85	3.43	4.60	2.27	2.67	1.94	1.12	0.08	**23.06**
Salina	2.02	2.31	0.74	3.29	6.88	2.73	3.66	7.99	1.14	4.04	2.69	0.32	**37.81**
Scott City	0.08	0.54	1.29	2.10	2.15	1.40	1.86	3.86	3.54	0.99	2.42	0.12	**20.35**
Sedan	2.31	1.02	1.79	7.35	9.78	6.57	8.13	2.01	0.42	2.40	1.32	0.51	**43.51**
Sedgwick	1.50	0.61	0.76	3.40	4.92	7.15	4.28	3.42	0.81	3.00	1.98	0.23	**32.06**
Sharon Springs	T.	0.42	0.02	2.16	4.98	1.27	0.38	2.33	2.39	1.10	1.52	0.12	**16.69**
Smith Center	0.12	0.54	0.00	2.79	2.17	2.85	2.93	1.44	1.00	3.80	0.85	0.00	**18.49**
Solomon	0.96	0.79	0.91	2.18	5.02	3.45	3.93	5.64	1.70	4.46	1.56	0.17	**30.75**
Sublette	0.59	0.48	0.64	0.84	2.97	4.24	3.15	0.87	2.50	1.42	1.54	T.	**19.24**
Syracuse	0.10	------	0.57	------	2.50	2.80	------	------	------	0.44	2.19	0.30	------
Topeka	2.42	1.26	2.01	5.26	5.96	3.18	1.70	2.64	1.49	5.96	0.56	0.37	**32.81**
Toronto	2.26	1.07	2.20	6.08	7.49	6.10	4.13	2.50	3.58	4.55	3.02	0.15	**43.13**
Tribune	0.07	0.50	0.18	0.76	5.57	1.38	0.76	2.97	2.14	0.80	1.17	0.30	**16.64**
Trousdale	0.73	0.55	0.17	1.74	2.45	2.68	4.22	2.31	2.97	2.40	2.60	0.00	**22.82**
Ulysses	0.15	0.17	0.67	0.77	2.10	2.12	2.65	2.28	2.16	0.89	1.25	0.00	**15.19**
Valley Falls (near)	2.16	1.20	1.35	5.22	5.71	6.05	2.34	1.00	2.11	5.34	0.61	0.41	**33.50**
Vinland	2.37	1.13	2.54	3.95	7.55	5.50	2.70	4.06	1.02	5.81	0.60	0.75	**38.04**
Wakeeney	0.15	0.68	0.03	3.18	1.92	1.31	2.78	0.93	2.73	3.11	1.39	T.	**18.21**
Walnut	1.79	1.49	2.98	9.06	9.19	3.72	5.99	0.76	0.95	4.31	1.61	0.35	**40.20**
Wamego	1.32	0.97	1.21	4.21	3.53	6.06	1.62	2.03	1.30	5.33	1.01	0.08	**28.70**
Wellington	1.97	0.24	2.13	6.14	6.25	9.81	3.43	0.42	1.49	3.41	1.77	0.24	**37.30**
Wheaton	0.89	0.48	0.92	4.36	4.70	6.61	0.93	0.92	1.35	------	------	------	------
Wichita	2.08	0.65	0.88	4.04	5.84	7.13	7.08	1.30	0.98	3.23	1.59	0.04	**24.84**
Willard	------	------	------	------	------	6.20	1.37	2.44	1.57	4.97	0.72	0.35	------
Winfield	1.28	0.56	2.04	5.81	9.03	7.31	4.38	1.18	1.61	2.01	1.32	0.08	**36.61**
Yates Center (near)	1.79	1.27	2.42	3.42	------	------	------	------	------	------	------	------	------
Kentucky													
Addison (Dam No. 45)	5.17	2.80	2.94	4.39	7.89	2.98	1.97	1.70	4.77	3.66	3.31	3.77	**45.35**
Anchorage	4.98	2.05	2.34	3.92	8.88	3.93	4.33	0.89	3.92	4.45	3.79	3.14	**46.62**
Ashland	4.42	2.91	4.66	2.38	5.11	3.09	5.55	2.53	3.06	5.83	4.33	1.98	**45.85**
Bardstown	4.46	5.60	2.86	3.04	9.24	3.40	4.80	0.81	4.78	3.12	4.62	3.60	**48.33**
Beattyville	4.01	4.18	7.79	2.94	7.02	6.07	3.92	2.61	5.02	3.58	3.97	2.77	**53.88**
Beaver Dam	4.47	4.05	4.03	3.51	8.46	3.51	1.78	2.95	3.86	2.80	3.87	3.82	**47.11**
Berea	5.12	4.62	7.46	3.42	6.51	2.72	5.96	0.80	3.83	3.06	3.96	2.48	**49.94**
Bowling Green (No. 1)	3.74	5.45	5.02	4.43	5.79	3.74	2.16	1.78	2.68	5.46	4.24	2.62	**47.11**
Bowling Green (No. 2)	4.55	4.57	3.52	4.22	6.12	4.52	2.51	1.78	2.71	4.39	3.73	3.25	**45.87**
Brownsville	5.13	3.87	4.03	3.94	6.43	3.87	1.84	2.01	2.87	5.76	4.00	3.74	**47.49**
Burnside	4.61	4.76	9.09	3.95	6.52	6.07	4.76	1.74	8.54	2.63	4.48	2.40	**59.55**
Calhoun	5.82	3.80	2.72	4.24	6.48	2.61	2.17	3.16	6.13	2.71	2.83	3.20	**45.89**
Carrollton	4.93	1.88	2.13	4.52	8.29	5.27	4.90	2.50	4.09	4.69	3.92	1.52	**48.64**
Cold Spring	4.23	2.46	2.56	3.92	7.65	4.03	4.91	1.79	6.78	3.37	4.86	2.50	**49.06**
College Hill	4.45	3.33	5.49	2.37	7.04	3.58	6.71	3.81	4.99	3.59	4.07	1.87	**51.30**
Cynthiana	3.80	2.38	2.42	2.49	5.88	3.48	3.93	1.01	7.07	3.23	3.67	2.83	**42.19**
Dix Dam	3.78	3.38	3.92	2.86	6.65	2.97	2.90	0.58	5.55	3.21	3.82	1.56	**41.18**
Dorton	------	------	------	------	------	6.36	5.75	2.77	------	6.31	5.31	2.17	------
Earlington	6.45	4.85	3.71	4.89	7.00	5.80	3.92	2.14	6.06	2.85	3.39	3.73	**54.79**
Eubank	3.94	3.93	7.25	3.86	7.67	4.36	3.62	1.15	2.93	2.48	3.32	1.60	**46.11**
Falmouth	4.59	1.99	2.88	3.78	7.45	4.79	3.71	1.33	3.29	3.61	3.44	2.01	**42.87**
Farmers	3.94	4.36	4.00	1.83	7.71	5.17	9.86	2.31	5.04	2.85	5.11	2.57	**54.75**
Flemingsburg	4.15	3.50	3.22	2.77	6.85	6.76	3.84	2.90	5.03	4.44	3.67	2.32	**49.29**
Ford	3.80	3.72	3.31	2.06	6.71	4.36	4.86	1.77	4.81	2.59	3.49	1.55	**43.06**
Fords Ferry	6.95	3.63	2.51	3.24	6.57	3.86	3.31	3.11	7.25	1.76	2.88	2.19	**47.29**
Frankfort	4.13	2.45	2.39	2.16	8.39	1.71	5.27	0.90	4.68	3.60	3.45	2.90	**42.03**
Franklin	3.43	5.29	4.48	5.55	6.40	5.36	5.43	2.20	------	------	------	2.90	------
Gest	4.89	2.09	2.31	3.45	8.85	2.98	4.94	1.45	5.58	3.56	4.63	2.22	**46.95**
Grant	4.38	1.83	2.65	4.33	9.17	4.35	3.47	1.10	4.70	2.56	4.04	2.82	**45.40**
Grayson	3.38	3.17	4.85	1.90	6.93	5.86	5.32	1.90	3.58	3.81	3.17	4.56	**46.37**
Greensburg	5.19	4.54	5.83	4.59	6.76	3.52	2.23	2.72	2.33	5.78	5.15	2.65	**51.29**
Greenup	3.46	2.85	4.13	1.82	7.97	3.10	3.55	2.48	2.40	3.62	4.04	1.72	**41.14**
Greenville	3.20	3.85	3.60	3.65	8.98	4.98	3.41	2.36	4.03	3.35	4.21	3.59	**49.21**
Harlan	------	------	------	------	------	------	6.09	1.83	5.56	1.89	6.21	2.85	------
Hazard	3.63	3.72	7.18	3.48	6.13	4.06	5.68	3.87	4.46	2.10	5.58	2.19	**52.08**
Heidelberg	4.27	3.22	8.69	2.69	8.83	3.33	5.21	1.94	5.33	4.00	3.85	2.79	**54.15**
High Bridge	3.69	4.13	3.61	2.95	4.91	2.59	1.96	0.36	6.16	3.09	3.54	1.84	**38.83**
Hopkinsville	4.72	4.57	4.64	4.68	9.71	3.83	1.94	3.61	1.83	3.09	4.11	4.52	**51.25**
Irvington	4.82	2.71	2.33	3.70	8.18	1.56	3.01	0.92	4.20	3.97	4.29	3.89	**43.58**
Jenkins	3.79	3.97	7.13	4.31	5.90	5.06	7.23	2.03	3.71	7.23	5.47	2.01	**57.84**
Junction City	5.54	4.41	6.14	3.96	8.94	2.20	3.97	0.53	3.68	3.55	3.76	2.08	**48.76**
Lancaster	3.71	3.36	5.42	3.15	6.76	3.83	2.49	1.24	5.31	3.03	3.63	1.64	**43.57**
Leitchfield	5.85	3.76	3.46	3.45	9.23	3.31	2.23	0.75	3.40	5.46	4.22	4.14	**49.36**
Lexington	2.83	3.37	3.67	2.99	5.59	4.25	4.12	1.49	4.35	2.99	3.92	1.88	**41.45**
Little Hickman	4.06	4.08	4.46	2.47	7.53	5.23	2.94	0.73	6.15	3.10	3.61	1.75	**46.11**
Lockport	3.29	1.67	2.66	4.66	7.61	5.01	3.18	2.60	4.36	4.71	3.65	2.36	**45.76**
Louisa	2.89	2.82	3.60	3.62	6.28	3.85	5.83	2.56	3.09	6.35	4.37	1.95	**47.21**
Louisville (Weather Bureau)	3.77	2.16	2.30	4.31	7.16	4.46	1.09	1.45	3.21	4.40	3.50	3.24	**41.05**
Louisville (No. 2)	4.70	2.26	2.85	4.22	11.21	4.69	1.39	1.35	4.05	4.14	4.05	3.15	**48.06**
Lovelaceville	6.64	4.37	3.75	4.52	8.58	4.61	1.35	4.72	6.13	1.60	2.47	3.64	**52.38**
Manchester	------	------	------	------	------	4.06	5.08	1.77	4.36	1.70	6.02	2.32	------
Marion	4.70	6.30	2.65	2.80	7.20	------	------	3.48	6.79	2.51	3.99	2.19	------
Mayfield	4.08	4.80	3.06	4.83	6.75	5.17	2.76	4.27	4.34	1.88	3.27	2.46	**47.47**
Maysville	3.95	2.46	2.88	2.81	5.59	5.51	5.25	2.25	5.89	2.64	3.87	2.26	**45.96**
Middlesboro	4.05	4.01	10.20	4.90	5.87	6.66	4.24	0.50	4.84	1.30	7.82	2.24	**56.63**
Mount Sterling	4.61	2.81	3.63	2.51	5.18	4.95	6.05	2.90	4.26	2.81	3.08	2.53	**45.32**

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Kentucky—Continued													
Munfordville	3.75	4.54	4.71	3.66	4.86	2.92	3.11	1.63	2.75	4.69	3.29	2.99	42.90
Murray	5.38	2.68	3.80	3.25	8.16	4.76	2.70	2.80	5.54	3.73	3.04	4.00	49.84
Oneonta	4.89	2.57	3.19	4.28	7.89	4.81	5.43	2.27	6.00	3.19	4.58	2.84	51.94
Owensboro (No. 1)	4.50	3.87	2.08	3.47	8.33	2.97	1.27	3.18	6.26	3.49	2.13	2.56	44.11
Owensboro (No. 2)	6.07	4.20	2.30	3.54	8.34	3.14	0.95	2.84	6.14	3.22	2.54	2.86	46.14
Paducah	7.40	3.85	3.37	4.90	9.45	6.91	5.48	3.98	8.00	1.59	3.70	3.23	61.86
Paducah (near)	7.90	4.21	3.97	4.79	9.74	6.28	3.95	5.00	6.81	4.49	3.56	3.66	64.36
Pikeville	3.89	4.40	5.56	2.46	6.10	3.80	3.76	1.72	2.62	6.19	5.78	1.38	47.66
Prestonburg	3.92	4.87	6.21	2.04	5.15	4.15	3.73	3.38	2.83	5.60	4.27	2.37	48.52
Princeton	4.86	5.74	2.99	4.56	6.95	5.79	3.09	3.80	5.01	2.62	3.37	3.07	52.45
Quicksand	5.35	3.68	7.14	4.28	6.93	3.71	5.75	1.35	4.13	4.21	5.15	3.07	54.75
Ravenna	3.19	3.79	5.89	2.42	7.13	2.52	3.69	3.03	5.62	3.53	3.37	1.89	46.07
Richmond	3.96	4.12	5.43	2.13	7.76	4.09	5.89	1.94	3.74	3.34	3.80	1.90	48.10
Rumsey	5.03	3.69	2.88	3.76	7.32	2.66	1.95	3.36	6.23	2.44	3.10	3.29	45.71
Russellville	4.53	4.03	3.23	5.27	7.78	2.33	4.17	3.71	2.68	3.66	2.44	3.92	47.75
St. John	5.57	3.57	1.94	4.00	8.88	2.53	1.59	0.31	3.73	4.96	5.37	3.10	45.55
Salvisa	4.22	4.65	4.13	3.48	8.28	3.53	5.78	1.27	4.15	3.90	4.99	2.79	51.17
Scott	4.24	1.55	2.57	4.87	7.87	4.62	4.97	1.88	6.40	4.12	5.10	2.95	50.84
Shelbyville	5.89	3.15	2.65	4.38	9.45	1.71	5.89	0.78	5.39	4.68	4.27	3.22	51.46
Taylorsville	5.34	2.90	3.68	3.30	7.94	2.79	2.86	1.03	5.91	4.85	5.12	3.10	48.82
Tyrone	3.79	3.25	2.21	2.95	5.05	3.57	3.76	0.75	5.63	4.33	3.62	3.21	42.12
Uniontown (Dam No. 49)	5.44	2.57	2.36	3.35	8.32	3.20	1.57	5.84	8.18	1.54	2.34	3.08	47.79
Valley View	5.28	4.69	4.55	2.40	8.54	5.64	3.12	2.08	7.41	3.80	4.66	1.93	54.10
Vanceburg	4.34	5.37	2.87	4.26	5.83	4.02	5.39	1.26	3.10	3.55	3.03	3.43	46.45
Whitesburg	3.92	2.16	5.93	1.63	6.03	3.75	7.49	1.23	3.97	4.39	5.25	1.79	47.54
Williamsburg	4.74	3.49	9.13	4.37	5.73	5.64	3.95	2.41	5.04	1.54	7.81	2.52	56.37
Williamstown	4.86	2.03	3.19	4.39	7.52	3.55	3.19	1.48	5.01	4.82	4.45	2.62	47.11
Willow	2.16	2.32	6.60	2.45	6.50	4.55	2.40	2.05	4.35	4.10	3.00	2.10	42.58
Woodbury	5.07	4.28	2.83	4.49	8.05	4.59	0.99	2.56	2.29	3.92	3.02	3.82	45.91
Louisiana													
Abbeville	5.96	7.40	3.33	2.22	9.09	5.89	6.15	2.96	7.33	3.53	19.99	8.06	81.91
Alexandria	4.96	6.49	8.47	4.82	7.05	3.39	3.72	1.25	2.00	1.38	11.14	2.94	57.61
Amite	5.47	7.64	6.58	4.63	6.50	4.89	11.71	4.88	3.02	4.45	16.04	5.03	80.84
Angola	7.05	8.98	7.08	4.54	5.43	2.49	------	4.40	4.76	2.82	14.80	3.02	------
Arcadia	------	------	------	------	------	------	2.56	0.41	3.10	1.95	4.30	5.85	------
Baton Rouge	5.51	7.33	5.40	1.76	9.30	5.90	3.75	6.21	9.65	6.19	20.24	5.31	86.55
Burrwood	5.15	2.90	5.66	2.20	1.28	1.88	8.67	4.09	6.73	3.95	2.70	1.46	46.67
Calhoun	3.85	4.02	5.01	4.63	4.30	1.46	3.32	3.02	1.10	4.89	4.15	3.35	43.10
Cheneyville	5.20	6.20	6.00	3.21	7.35	2.30	6.18	3.27	3.07	2.51	8.70	3.14	57.13
Cinclare	6.55	8.02	5.18	2.07	9.40	6.80	3.81	3.17	5.50	12.39	17.26	4.74	84.89
Clinton	8.03	6.35	5.33	1.40	6.45	2.54	8.38	3.86	2.56	8.48	12.27	4.79	70.54
Covington	9.25	8.99	7.05	3.48	4.39	5.30	4.18	5.63	6.06	3.26	------	------	------
Crowley	5.50	5.47	5.67	1.80	13.35	3.43	3.70	2.87	2.40	3.28	14.92	5.67	68.06
Dalcour	------	------	------	------	------	------	------	6.75	6.92	5.51	4.98	6.08	------
Delta Farms	9.05	6.60	8.13	2.85	5.48	4.85	8.75	7.86	3.56	8.52	4.78	3.21	73.64
De Ridder	6.05	7.52	7.96	2.01	9.55	1.33	2.71	3.95	0.88	3.60	11.75	5.50	62.81
Dodson	4.78	4.86	7.78	3.96	4.54	0.24	1.12	1.27	1.50	3.36	5.94	4.10	43.45
Donaldsonville	8.33	7.10	5.53	2.16	10.92	4.57	13.19	5.25	5.49	4.85	17.27	4.39	89.05
Elizabeth	5.41	7.99	5.46	3.29	7.18	2.35	3.51	2.33	1.69	3.42	10.55	3.69	56.87
Franklin	4.28	5.91	3.66	3.12	3.20	8.06	9.86	4.21	4.05	6.82	10.68	4.56	68.43
Franklinton	7.16	10.58	7.75	2.74	2.96	5.72	3.64	2.67	3.45	4.06	20.23	4.98	75.94
Grand Cane	4.26	3.76	3.36	3.64	4.91	0.73	2.92	0.55	4.32	0.82	4.71	4.25	38.23
Grand Coteau	6.57	6.33	6.10	1.74	6.98	2.92	4.57	1.07	1.79	4.21	16.52	5.14	63.94
Hammond	6.79	9.79	9.32	2.75	3.10	3.08	7.39	7.29	2.21	3.60	11.45	3.40	70.17
Houma	10.12	7.35	6.91	1.64	4.85	9.04	11.88	7.17	8.08	6.96	6.33	3.61	83.94
Jeanerette	------	------	------	1.50	3.05	4.14	10.50	4.69	5.47	7.67	12.96	6.60	------
Jennings	7.48	5.73	2.58	1.71	8.48	5.90	4.36	3.04	2.48	2.14	18.26	5.68	67.84
Lafayette	5.89	5.82	4.55	2.23	9.24	5.59	6.96	1.62	3.62	4.19	18.82	4.81	73.34
Lake Arthur	8.10	9.20	3.60	1.56	8.32	8.40	4.79	4.25	3.05	3.38	15.12	6.29	76.06
Lake Charles	6.51	9.13	2.38	2.47	10.40	2.74	4.10	2.64	1.30	3.10	15.09	3.14	63.00
Lake Providence	------	------	7.17	4.42	2.55	0.25	4.36	1.75	2.22	5.33	------	------	------
Leesville	------	------	------	------	------	------	------	------	------	3.75	8.34	------	------
Logansport	8.11	5.70	3.32	5.40	10.78	2.24	2.90	0.00	4.42	1.44	7.58	4.82	56.71
Melville	6.58	9.42	8.79	4.68	6.07	0.67	3.32	3.23	2.70	4.10	18.20	8.00	75.76
Minden	5.19	3.64	5.28	3.33	4.79	0.29	3.65	1.05	2.87	1.04	3.10	4.58	38.81
Monroe	5.44	4.81	7.44	6.07	2.90	1.28	2.68	3.16	0.80	2.60	6.43	5.24	48.85
Morgan City	8.22	5.52	6.00	2.02	1.89	5.10	8.99	4.44	6.49	2.87	8.67	7.50	67.71
Natchitoches	4.22	4.51	7.08	4.69	4.97	2.56	2.22	0.68	0.82	3.37	7.41	3.30	45.83
Newellton	5.21	6.04	8.99	4.62	2.62	0.80	2.74	2.79	------	4.80	10.75	3.57	------
New Iberia	5.88	6.55	------	------	------	------	------	------	------	------	------	------	------
New Orleans (Weather Bureau)	10.63	6.26	6.25	1.98	7.62	3.00	11.78	6.70	16.57	6.26	5.16	2.85	85.06
New Orleans (No. 2)	10.83	6.35	6.26	2.51	13.21	2.98	14.45	2.96	17.10	6.41	4.69	3.03	90.78
New Orleans (No. 3)	9.32	6.33	5.60	1.50	7.80	4.03	8.85	4.24	11.80	5.79	3.93	2.70	71.89
New Orleans (No. 5)	9.55	6.37	5.91	2.04	9.20	2.97	10.96	4.33	15.26	7.20	5.61	2.58	81.98
New Orleans (No. 6)	10.98	6.49	6.41	1.86	7.86	2.90	12.06	6.37	16.48	5.60	5.24	2.79	85.04
New Orleans (No. 7)	9.38	5.97	5.76	1.54	6.30	3.98	10.76	2.89	11.34	5.26	3.91	2.91	70.00
New Orleans (No. 8)	9.94	6.18	6.92	2.00	5.86	2.86	9.18	6.51	17.83	5.88	4.92	2.80	80.88
Paradis	10.40	7.84	8.30	2.63	8.88	10.00	10.07	4.83	4.87	5.84	7.62	3.83	85.11
Pearl River	8.98	8.36	7.16	2.98	5.26	3.96	10.02	6.56	4.80	7.86	5.56	2.46	73.96
Plain Dealing	6.27	3.60	2.99	5.73	4.35	0.65	6.88	0.43	0.60	1.88	2.67	5.16	41.21
Port Eads	5.90	2.62	6.36	2.85	3.60	2.29	2.60	3.78	8.70	3.48	3.80	2.33	48.40
Reserve	12.47	6.52	5.93	2.39	7.32	2.91	12.07	3.93	5.99	6.46	7.19	2.25	75.43
Robeline	3.76	4.78	7.00	4.60	7.21	1.18	5.15	0.71	3.87	2.42	7.16	3.37	51.21
Ruston	4.19	4.69	4.52	4.76	3.10	------	3.49	------	2.23	2.61	4.28	2.57	------
Schriever	10.35	6.40	4.45	2.95	4.55	8.45	9.43	7.45	7.62	3.82	11.35	3.88	80.70
Shreveport	3.21	2.54	3.08	3.09	3.48	0.88	3.99	0.50	5.62	1.30	1.99	6.25	35.93
Simmesport	7.08	9.37	4.54	1.92	6.66	0.74	5.37	2.39	4.31	3.00	12.48	3.05	60.91
Tallulah	4.07	5.74	10.14	5.08	2.27	1.50	2.90	2.23	1.04	4.23	8.73	3.10	51.08
Uranis	------	------	------	------	------	------	3.64	0.95	4.06	2.60	9.82	3.84	------
Ville Platte	7.14	10.36	3.44	3.17	7.49	3.63	5.50	4.00	3.57	1.11	15.12	3.68	68.21
Winnsboro	2.25	4.67	11.53	7.05	2.34	1.90	1.95	2.33	1.71	1.88	6.58	2.56	46.75
Woodworth	3.19	5.82	5.80	2.47	5.81	1.33	4.39	1.63	0.76	2.34	9.43	2.04	45.01

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Maine													
Alfred				2.92	4.09	1.74	0.49	4.29	2.51				
Aziscohos Dam	2.75	2.32			4.18	3.48	1.63	2.71	2.90	2.42	2.60	3.62	
Bangor	3.26	1.66	3.62	4.66	5.61	2.05	1.03	3.03	0.64	4.48	2.50	3.11	35.65
Bar Harbor	5.26	3.01	1.92	8.23	5.57	0.84	3.03	1.34	4.81	4.29	4.67	2.17	45.14
Bigelow						2.82	1.18	3.25	1.96				
Black Cat Mountain						4.40	2.26	2.67	0.90				
Brassua Dam			2.44	4.18	4.60	2.03	1.79	2.26	2.23	2.23	1.87	4.29	
Caratunk						3.13	1.26		4.49				
Chamberlain Lake						3.28	5.04	2.40	1.78				
Cupsuptic					4.22	4.19	2.20	3.96	3.73	2.18			
Danforth	2.90	1.70	1.96	2.61	5.84	2.47	3.24	2.25	1.41	3.14	2.31	1.92	31.75
Eastport	3.58	2.15	3.11	2.69	3.28	1.55	1.48	2.13	4.28	1.67	2.25	3.57	31.74
Ellsworth	4.89	2.10	2.76	5.68	5.34	3.14	1.68	2.72	5.57	3.59	3.31	3.28	44.06
Eustis	2.47	1.79	2.67	4.68	4.32	3.34	1.69	3.08	2.38	2.03	1.92	4.10	34.47
Farmington	3.59	2.72	4.12	5.84	4.83	2.58	1.33	2.69	0.92	3.10	2.83	3.51	38.06
Fort Fairfield	4.42		1.99	3.04	2.95	3.39	4.50	2.11	1.79	3.97	1.15		
Fort Kent	4.05	1.10	1.50	5.89	3.40	4.08	4.02	2.65	1.45	3.66	1.55		
Gardiner	4.20	2.89	4.01	6.53	3.42	2.20	1.28	4.70	2.57	4.11	2.88	3.56	42.35
Greenville	3.35	2.20	2.05	5.71	5.40	3.24	2.16	3.52	1.65	3.12	2.13	3.41	37.94
Hardwood Mountain							4.72	3.48	3.44				
Hiram	4.50	3.33	2.36	5.77	3.96	1.87	1.30	0.95	3.35	2.32	3.41	1.66	34.78
Houlton	2.67	1.49	2.23	2.88	4.38	2.37	3.38	2.14	1.81	4.23	1.78	3.62	32.98
Jackman	2.46	1.73	2.69	4.38	5.89	2.42	1.72	3.77	1.89	1.77	1.75	4.53	35.00
Kingfield					4.55	3.00	1.50	3.90	0.90	2.55			
Lead Mountain						2.66	1.40	3.01	1.79				
Lewiston	3.62	3.03	3.16	5.16	3.32	2.71	1.15	2.79	2.71	2.60	3.12	4.04	37.41
Lincoln	3.73	1.62	3.11	4.22	5.26	0.61	1.91	2.83	1.58	4.22	1.34	3.04	33.47
Machias	5.38	2.35	4.50	6.80	1.92	6.83	0.93	1.28	3.08	2.38	2.86	3.17	41.48
Madison	3.21	2.31	3.73	5.17	4.47	1.53	2.06	2.01	0.67	2.73	3.00	3.42	34.31
Masardis						4.15	2.46	2.79					
Middle Dam	2.90	1.89	2.66	4.16	5.08	3.36	2.13	1.92	2.00	2.65	2.69	3.02	34.46
Millinocket	4.06	2.22	2.70	4.49	5.11	3.16	3.30	2.34	1.18	4.20	2.16	3.47	38.39
Milo	2.83	1.11	2.69	4.74	6.72	1.79	2.00	4.90	1.36		2.65	2.92	
Mount Agamenticus				4.41	3.27	2.15	1.22	3.64	1.91				
North Bridgton	5.22	3.09	3.20	5.00	3.07	1.86	1.36	3.39	3.34	2.41	2.75	4.16	38.85
Oldtown	3.54	2.11	3.59	5.47	5.08	2.55	1.49	2.89	1.31	4.49	2.82	3.37	38.71
Orono			3.04	4.05	4.36	2.28	1.05	2.81	0.78	4.67	2.75	4.18	
Patten						2.32	2.87	2.00	1.46				
Portland	3.99	4.33	3.41	4.61	3.54	2.08	1.75	4.28	2.09	3.00	4.55	4.89	42.52
Presque Isle	1.23	1.12	1.43	2.49	3.37	3.19	4.95	2.64	1.94	3.68	1.53	2.12	29.69
Princeton				4.66	5.24	3.95	1.42	2.73	1.48	4.16			
Ripogenus Dam	2.89	0.93	2.22	3.98	5.20	2.88	3.59	2.42	1.69	3.74	2.14	1.97	33.65
Rumford	3.11	2.42	3.07	4.81	3.44	1.77	0.91	2.80	1.26	2.64	2.67	4.19	33.09
Sebec	3.85	2.21	2.83	4.12	6.70		0.68	4.56		2.58	2.99	4.45	
Seven Islands							3.75	2.82	2.48	3.44			
Smyrna Mills						4.15	2.46	2.79	1.38				
Soubunge Mountain							3.18	2.12					
Squa Pan			1.22		3.60	3.23	2.70	2.16	1.69	3.69	1.68		
The Forks	2.44	1.98	2.69	5.34	4.87	2.39	1.07	3.42	1.55	2.59	2.38	3.85	34.57
Upper Dam	2.04	2.10	3.10	3.57	3.73	2.55	1.70	3.48	2.22	1.95	2.36	3.83	32.63
Upton					4.05	2.47	2.04	1.62	1.34				
Van Buren	2.83	1.25	3.00	3.00	3.09	3.89	4.21	4.94	2.23	4.13	1.57	3.69	37.83
West Rockport	5.02	2.74	3.12	6.89	4.18	2.76	1.89	4.00	2.46	5.32	4.34	3.40	46.12
White Cap Mountain							4.43	3.03					
Winslow	2.84	1.48	2.99	4.97	3.63	2.14	1.00	3.44	1.38	3.46	2.51	3.33	33.17
Woodland	3.75	1.95	3.43	4.62	4.94	4.17	1.95	2.48	2.36	3.69	2.68	4.99	41.61
Maryland													
Aberdeen	2.85	3.21	2.73	6.38	2.36	4.24	2.41	1.80	4.11	3.24	2.02	2.57	37.92
Annapolis	2.40	3.48	3.36	7.47	3.08	7.75	1.13	2.78	2.38	5.05	2.19	2.45	43.52
Baltimore	2.90	3.45	3.16	6.73	1.78	4.82	1.13	4.04	2.79	6.77	2.44	2.46	42.47
Bell	2.78	3.26	2.62	6.45	3.95	4.36	0.72	1.30	2.90	4.60	2.08	2.49	37.51
Boyds	2.85	3.08	2.91	5.45	1.97	4.00	1.81	2.83	2.88	7.39		2.02	
Cambridge (near)	1.51	4.60	4.43	8.24	1.75	6.74	0.85	2.63	2.19	5.14	2.83	2.57	43.48
Cecilton	2.76	3.63	2.72	7.45	2.33	2.87	0.90	2.05	5.17				
Cheltenham	2.24	3.42	3.60	7.18	3.39	8.16	2.27	2.41	3.14	5.31	2.24	2.94	46.30
Chewsville	2.74	2.64	2.67	5.22	5.08	4.38	1.85	2.06	4.86	5.96	2.52	1.21	41.19
Clear Spring		3.52	3.06	7.37	6.07	1.89	2.92	1.71	4.39	10.05	3.15	2.15	
Coleman	2.70	3.04	2.99	5.78	2.21	8.11	0.74	2.67	3.57	3.39	2.41	3.00	40.61
College Park	2.84	3.25	2.96	6.48	2.92	7.09	1.06	1.65	2.33	4.43	1.93	2.70	39.64
Crisfield					3.33	2.01	1.93	3.24	1.05	3.94	2.26	1.99	
Cumberland	2.13	2.68	2.28	6.97	3.09	3.56	0.88	2.93	3.63	5.40	2.89	1.83	38.27
Darlington	4.22	3.90	2.72	5.81	2.72	4.65	2.32	1.80	5.88	5.06	3.20	2.43	44.71
Easton	1.81	4.04	4.13	6.94	1.83	5.75	3.42	2.62	4.01	5.21	2.27	2.67	44.70
Elkton	2.93	3.38	2.47	6.19	2.86	3.76	2.64	2.31	3.71	4.09	2.24	3.57	40.15
Emmitsburg	3.85	3.12	3.17	6.12	4.62	4.29	2.15	2.06	6.88	7.33	3.00		
Fallston	3.43	3.80	2.69	6.97	2.08	6.85	1.17	3.94	4.76	6.46	2.65	2.79	47.59
Ferry Landing	1.64	3.64	3.43	6.42	2.19	6.86	2.43	1.59	2.55	4.42	2.09	2.17	39.43
Frederick	2.72	3.56	3.18	6.09	4.82	3.20	2.34	2.53	3.72	7.10	3.12	2.30	44.68
Friendsville	3.25	1.99	2.94	5.89	4.15	3.56	1.14	4.24	2.92	7.34	4.46	3.43	45.31
Frostburg	2.45	3.03	1.90	8.43	5.32	5.25	0.59	4.24	3.09	8.14	3.01	2.54	47.99
Grantsville	3.23					4.64	1.68	5.13	2.77	6.93	5.14	3.12	
Great Falls	2.55	3.17	2.40	5.83	1.81	5.81	2.31	2.77	3.15	6.32	1.65	2.12	39.89
Hancock (Tonoloway)	1.94	2.76	2.09	6.95	3.54	4.24	1.51	2.56	3.38	8.46	2.95	1.90	42.28
Keedysville	2.71	2.74	3.03	5.09	5.03	3.13	2.32	1.70	2.98	9.27	2.95	2.19	43.14
Laurel	2.29	2.87	2.84	5.97	1.55	6.53	1.13	2.31	3.43	4.96	1.87	2.43	38.18
Lutherville	3.78	3.62	3.26	6.36	2.29	6.05	1.21	3.05	3.25	7.51	2.57	2.24	45.19
Maryland Line	3.88	3.59	3.30	6.40	6.89	4.71	1.04	2.34	7.73	9.01	3.26	2.66	54.81
Mechanicsville	1.87	4.27	3.05	7.69	2.30	8.48	1.14	3.87	2.38	5.13	2.22	3.10	45.50
Millington	2.18	4.15	3.19	6.60	1.31	4.26	1.38	3.39	2.83	3.76	2.17	3.06	38.28
Newburg	1.58	3.52	3.08	5.43	2.65	5.97	0.85	2.55	0.68	5.00	3.17	2.45	36.93
Oakland	3.23	2.76	2.90	7.66	5.61	2.96	2.42	3.58	3.22	8.09	3.74	2.87	48.98
Picardy	1.80	2.66	2.02	6.79	3.53	3.12	0.88	2.28	3.39	6.91	2.72	1.63	37.50
Pleasant Hill	3.71	3.75	3.17	5.53	2.09	5.64	1.10	2.34	6.64	5.57	2.61		
Pocomoke City	2.05	5.51	4.36	5.12	2.45	3.12	3.02	2.23	2.44	3.13	2.13	1.60	37.16

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Maryland*—Continued**													
Princess Anne	2.37	6.01	4.75	7.54	2.92	5.07	1.63	2.47	3.73	2.41	2.70	2.10	43.70
Public Landing	2.21	6.81	5.40	4.61	2.71	4.37	4.14	1.77	2.94	2.71	1.81	2.03	41.51
Ridgely	2.30	3.88	4.36	6.00	2.17	4.59	2.66	3.81	4.58	3.00	2.45	1.92	41.72
Rock Hall	2.67	3.56	3.26	7.80	2.68	5.90	1.46	4.11	1.87	4.56	1.89	2.81	42.57
Salisbury	2.25	5.35	3.91	5.64	2.27	7.14	2.70	2.84	5.97	3.02	2.61	2.52	46.22
Sines (Deep Creek)	3.70	2.36	3.04	6.73	6.51	2.98	1.84	4.06	2.39	6.86	4.13	2.60	47.20
Solomons	1.22	3.78	3.70	6.61	1.39	2.88	1.66	4.17	0.70	3.12	1.91	1.95	33.09
State Sanatorium	4.07	3.05	2.98	6.41	6.36	6.66	4.49	1.84	5.36	9.16	2.86	2.36	55.60
Stevensville	2.36	3.90	4.33	8.01	2.98	3.58	1.78	3.12	4.65	5.21	2.36	3.02	45.30
Takoma	2.11	3.21	2.52	5.19	2.12	6.09	0.90	1.35	2.70	3.97	1.82	2.31	34.29
Towson	3.62	3.71	3.31	5.78	2.15	5.95	0.81	2.44	3.65	5.62	2.88		
Western Port	2.88	3.35	2.28	7.84	4.15	3.80	1.56	2.46	1.65	5.34	2.80	2.15	40.26
Westminster	3.77	3.58	2.71	5.35	4.68	6.22	1.75	2.23	7.64	5.87	2.20	1.94	47.94
Woodstock	3.79	3.85	2.99	5.05	2.54	4.43	1.76	1.18	4.58	5.45	2.57	2.09	40.28
Massachusetts													
Amherst	4.33	3.92	3.20	6.89	4.17	3.06	0.70	1.54	3.62	2.75	2.73	4.05	40.96
Ashland	3.87	3.82	2.97	7.03	3.58	2.11	0.95	1.79	2.35	2.82	2.97	3.96	38.22
Blue Hill	4.43	4.68	3.70	8.71	3.62	4.03	1.19	3.14	1.40	2.40	4.04	5.61	46.95
Boston	3.82	3.78	2.80	7.52	2.82	2.30	1.35	2.22	0.76	2.38	3.01	4.43	37.19
Boylston	4.34	4.12	3.39	5.94	4.38	3.46	0.71	1.70	2.51	3.28	3.24	3.56	40.63
Chester	4.20	3.83	3.66	8.37	4.15	5.09	1.01	1.82	3.28	6.01	3.11	3.56	48.09
Chesterfield	3.67	3.80	3.58	6.58	4.52	2.38	0.84	2.37	3.48	5.75	3.26	3.91	44.14
Chestnut Hill	4.18	4.51	2.90	9.19	3.28	3.32	1.59	1.57	1.40	2.68	2.98	3.88	41.48
Clinton	4.67	4.15	3.72	7.03	4.67	5.51	1.11	0.99	2.14	3.58	3.40	3.89	44.86
Concord	3.39	3.90	3.07	6.72	3.63	3.63	1.14	3.50	1.50	2.48	2.90	3.88	39.74
East Wareham	3.28	3.56	4.46	7.65	3.59	0.87	2.29	5.79	3.59	2.54	3.89	5.20	46.71
Egremont	3.69	3.53	3.40	7.65	3.14	3.25	2.31	1.09	2.53	2.87	3.12	3.15	39.73
Fall River	4.23	4.24	4.56	7.77	3.28	0.81	2.68	4.48	4.56	3.85	3.31	5.24	49.01
Falmouth	2.99	3.84	5.01	7.09	4.45	0.24	1.45	6.35	6.71	2.73	3.40	4.51	48.77
Fitchburg	4.64	4.24	2.78	6.06	5.16	3.92	0.95	1.69	1.64	2.97	2.54	2.97	39.56
Framingham	3.90	3.86	3.14	7.43	3.62	1.71	0.95	2.22	1.91	2.90	2.98	4.04	38.66
Franklin	4.11	4.06	3.08	6.79	4.67	2.29	2.47	1.60	2.38	3.24	3.02	3.91	41.62
Greenfield			3.33	6.47	3.61	2.91	0.86	1.64	3.25	2.27	2.60	4.29	
Groton	4.46	4.67	3.23	6.25	4.57	2.40	1.53	1.63	1.71	2.84	2.57	3.04	38.90
Hardwick	4.18	3.16	3.23	4.90	3.53	2.24	1.03	1.68	4.95	2.08	2.58	3.27	36.83
Haverhill	2.49	3.87	3.56	5.50	3.30	2.93	0.71	1.49	2.03	2.19	2.72	3.22	34.01
Heath	3.42	3.51	3.98	6.46	4.04	2.71	1.66	1.70	2.79	3.73	2.51	3.56	40.07
Hingham	4.35	4.17	3.92	7.51	3.96	1.71	1.54	3.10	1.73	3.49	3.51	5.08	44.07
Hobbs Brook	3.34	3.32	2.85	6.78	3.00	3.48	0.70	3.64	2.11	2.58	2.75	3.83	38.38
Holyoke	4.22	4.74	3.51	6.43	4.54	1.08	0.36	1.97	3.05	3.13	2.87	4.16	40.06
Hubbardston	4.56	2.72	3.34	5.71	4.64	3.16	1.07	1.83	2.20	2.15	2.91	2.85	37.14
Hyannis	2.60	3.85	4.83	7.45	2.87	0.01	1.01	7.13	6.13	3.10	3.23	3.74	45.95
Ipswich	3.63	4.39	3.64	7.48	3.36	1.71	1.10	1.84	2.71	3.06	2.90	4.71	40.53
Jefferson	4.90	4.41	3.30	5.79	4.62	3.73	0.72	1.62	2.31	3.29	3.20	3.28	41.17
Lake Cochituate	4.00	3.59	3.17	7.40	3.36	1.86	0.93	1.93	1.21	2.97	3.04	4.30	37.76
Lawrence	3.32	4.50	4.30	5.66	3.04	2.23	0.96	1.55	1.61	2.46	2.57	3.63	35.83
Leominster	4.42	4.29	3.43	5.45	5.44	3.80	1.06	2.21	1.61	3.10	2.64	3.02	40.47
Lowell	3.42	4.34	3.61	6.17	4.20	2.24	0.83	1.59	1.38	2.47	2.41	3.52	36.18
Mansfield	4.92	4.22	3.86	7.88	3.88	0.94	2.76	1.57	2.21	3.00	3.47	4.45	43.16
Middleton	3.21	4.00	3.28	7.79	3.37	1.31	0.75	2.99	2.54	2.79	2.82	3.84	38.09
Mount Wachusett				4.25	5.10	2.53	1.44	1.91	1.93	3.27			
Nantucket	3.02	5.76	4.66	6.28	4.10	0.41	1.18	3.18	5.88	2.22	3.86	4.13	44.68
New Bedford	2.88	3.52	3.67	7.06	3.04	1.53	1.53	6.20	3.53	2.49	2.90	4.71	43.06
Northbridge	4.14	4.01	3.09	7.45	3.86	3.78	1.04	2.78	2.44	3.71	3.04	4.06	43.40
Otis	2.86	3.74	4.07	8.77	4.23	2.90	1.13	2.29	3.26	5.08	3.06	3.35	44.74
Pembroke	3.28	3.46	3.85	7.83	3.28	0.88	3.00	2.72	3.17	2.18	3.57	5.51	42.73
Petersham	4.53	3.63	4.21	6.03	3.28	4.62	1.21	1.62	3.25	1.73	2.55	3.55	40.21
Pittsfield	2.80	2.95	4.02	6.30	2.67	3.07	0.48	1.49	3.43	1.64	2.31	3.18	34.34
Plymouth	3.74	4.65	4.20	7.59	3.53	1.01	3.32	2.67	4.11	2.72	3.68	5.62	46.84
Princeton	5.42	4.31	3.32	5.57	4.52	2.07	0.71	1.42	1.57	3.01	3.17	3.04	38.13
Provincetown	2.65	3.60	3.95	7.45	3.35	0.51	4.62	2.22	3.52	1.90	4.01	4.37	42.15
Roberts Dam	3.51	3.71	3.58	7.58	2.97		3.97		1.21	3.03	3.15	3.90	
Rockport	3.66	5.13	2.93	8.14	4.10	1.51	1.77	1.01	1.80	2.28	2.95	4.48	39.76
Southbridge	4.36	3.78	2.99	6.80	5.42	2.35	0.94	1.54	2.22	3.20	3.22	3.88	40.70
Spot Pond	3.98	4.71	3.23	8.52	3.34	1.93	1.41	4.45	1.46	2.53	3.24	4.20	43.00
Springfield	4.15	4.73	3.07	6.39	4.42	1.24	0.45	1.74	3.22	1.89	2.92	3.69	37.91
Sterling	4.56	4.26	3.50	6.03	4.98	3.10	1.25	1.24	1.63	2.92	2.93	3.31	39.71
Taunton	3.38	3.53	4.24	7.60	3.89	0.92	2.51	3.12	3.82	3.45	3.54	4.42	44.42
Turners Falls	3.25	3.23	3.08	5.93	4.06	2.71	0.96	2.07	3.45	2.17	2.11	3.05	36.07
Weston College	2.73	1.64		7.89	4.02	3.47	0.88	2.74	2.18	3.16	3.23	2.45	
West Rutland	3.98	3.58	3.16	5.15	4.07	3.80	1.12	1.80	3.08	2.30	2.90	2.84	37.78
Williamstown	3.34	3.28	4.68	5.98	3.32	3.74	1.33	1.12	1.89	1.53	2.29	2.78	35.28
Winchendon	4.41	3.21	3.52	5.73	4.31	4.31	1.29	2.61	1.71	2.02	2.67	3.04	38.85
Worcester (No. 1)	4.10	3.83	3.10	6.52	4.71	2.28	0.62	1.24	3.53	2.95	3.14	3.05	39.07
Worcester (No. 2)	3.86	3.85	3.16	6.93	4.71	1.61	0.68	1.15	3.80	2.99	3.28	3.20	39.22
Michigan													
Ada	3.38	0.90	1.85	5.93	5.44	2.80	0.97	0.56	1.10	3.05	1.47	3.51	30.96
Adrian	3.57	0.78	3.65	6.30	3.48	3.22	1.74	0.70	2.55	2.33	4.02	2.86	35.30
Albion	1.81	0.57	2.92	5.67	4.94	3.54	0.46	0.89	1.63	3.75	2.05	1.50	29.73
Alcona (near)	2.87	1.99	1.81	5.40	2.92	2.22	1.32	1.35	2.12	2.73	0.23	2.81	27.77
Allegan	4.14	0.73	3.24	6.81	5.33	2.63	1.59	0.31	1.55	4.32	2.89	3.48	37.02
Alma (No. 1)	2.47	0.83	1.30	5.80	4.02	3.35	1.61	0.59	0.83	3.42	0.81	1.83	26.86
Alma (No. 2)				6.36	4.50								
Alpena	2.86	0.91	1.96	3.67	3.84	3.96	1.09	2.25	1.90	4.08	1.23	1.55	29.30
Alpena (near)	2.15	0.88	2.97	4.49	4.72	4.36	1.52	1.58	2.09	4.22	0.98	2.86	32.82
Alpha	1.99	0.74	1.31	3.08	3.76	3.19	4.02	1.29	1.90	1.67	1.02	1.56	25.53
Ann Arbor	3.43	0.78	3.57	4.55	3.09	3.29	1.63	0.62	1.74	4.96	2.95	1.30	31.91
Ann Arbor (near)	3.03	0.60	2.73	5.06	3.59	2.02	1.50	0.25	1.53	4.62	3.47	3.08	31.48
Atlanta	2.06	1.00	1.81	4.56	3.73	3.45	1.49	1.14	2.70	4.09	0.85	1.49	28.37
Bad Axe	1.91	0.47	1.53	5.33	3.23	2.68	2.64	0.84	0.75	4.60	1.00	1.38	26.36
Bangor		1.30	2.68	3.72	4.32	2.58	0.89	1.78	1.56	4.43	2.47	2.08	
Battle Creek	3.55	0.58	2.01	5.93	4.95	2.90	1.90	0.28	1.76	4.12	2.38	3.06	33.42

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Michigan—Continued													
Bay City	1.37	1.78	1.18	7.22	4.32	3.14	2.02	1.03	1.97	4.98	1.67	3.21	33.89
Benzonia	3.67	0.92	2.16	6.12	2.69	3.73	3.64	2.00	2.42	2.79	1.37	1.81	33.32
Bessemer	3.87	1.39	2.21	1.82	3.09	3.61	2.56	1.85	4.94	2.91	2.93	2.57	33.75
Big Rapids	3.05	1.29	2.65	8.52	5.95	4.43	3.17	1.19	2.05	3.86	1.50	1.44	39.10
Black Lake	2.76	0.30	1.47	4.69	1.93	3.00	1.23	3.86	3.09	4.23	0.93	2.28	29.77
Bloomingdale	4.12	1.42	2.80	4.95	3.88	2.47	1.23	2.12	1.50	4.45	1.92	4.26	35.12
Bridgeport			0.86	6.12	5.55								
Cadillac	2.21	1.13	1.30	7.30	3.97	2.84	1.15	1.21	3.45	2.56	0.88	0.74	28.74
Calumet	4.97	1.12	2.37	0.46	3.50	2.08	3.82	1.19	4.68	4.05	2.44	3.11	33.79
Caro	2.65	0.51	1.13	8.05	3.97	2.17	1.79	1.29	1.73	5.12	1.33	1.26	31.00
Cassopolis	4.07	0.32	3.85	6.73	4.89	2.16	1.56	1.68	2.04	4.10	2.97	2.97	37.34
Centerville	3.05	0.43	3.90	7.34	2.97	3.16	1.17	0.85	1.63	3.34	2.05	2.29	32.18
Ceresco	3.55	1.01	2.54	6.72	4.69	3.28	0.86	0.64	1.65	4.39	2.24	3.27	34.84
Charlevoix	3.30	0.71	2.33	4.80	1.72	3.26	2.67	2.45	2.63	1.51	1.88	2.43	29.69
Charlotte	3.52	0.99	2.37	5.94	4.57	2.19	0.96	1.19	1.59	4.95	1.44	4.31	34.02
Chatham	2.72	0.84	1.30	2.43	4.31	2.51	3.29	2.97	3.38	5.81	1.35	1.81	32.72
Cheboygan	2.20	0.85	1.92	5.10	0.89	3.49	1.44	3.18	2.44	3.92	1.31	1.63	28.37
Chesaning			1.32	5.53	5.35								
Coldwater		0.73	2.00	5.55		3.90	1.30	0.30	1.67	3.66	1.19	1.95	
Coloma	5.27				4.39	2.35	1.09	0.86	1.82	5.22	2.39	3.69	
Cooke Site	3.16	1.37	1.82	6.39	4.36	3.37	1.32	1.12	2.07	4.51	1.03	3.27	33.79
Croswell	2.70		2.20	11.31	4.41	1.73	1.50	0.77	2.00	4.33	1.82	2.65	
Croton	3.03	0.90	0.87	7.71	3.99	4.01	4.02	0.60	0.94	5.38	1.21	1.42	32.06
Deer Park (near)	4.58	1.47	1.60	2.10	2.82	2.26		1.35		3.85	3.64	3.35	
Detroit	4.27	1.36	2.85	5.65	3.59	2.55	2.65	0.52	1.75	3.99	3.20	4.79	37.17
Dimondale			1.95	6.77	4.40								
Dukes [3]	2.57	0.96	1.34	3.38	3.42	5.25	2.72	2.91	6.01	4.89	1.28	1.74	36.47
East Jordan	3.37	0.22	1.19	4.66	2.09	3.55	4.70	3.26	4.09	2.77	2.60	2.67	35.17
East Tawas	1.81	1.76	1.40	7.43	3.38	2.78	1.77	0.61	3.64	4.91	0.90	3.38	33.77
Eaton Rapids			1.04	3.30	4.45								
Eau Claire	3.57	0.55	3.55	4.83	4.62	3.19	2.52	1.04	1.67	4.54	3.03	3.05	36.16
Edenville	1.65	1.13	1.21	7.03	3.99	3.17	2.28	0.56	1.80	3.44	0.71	1.75	28.72
Edmore	1.64	0.18	2.00	6.16	5.61	3.11	2.47	1.04	1.53	3.55	0.65	1.93	29.87
Eloise	1.74	0.52	1.92	4.09	2.24	3.44	1.28	0.71	1.33	4.89	2.46	2.98	27.60
Escanaba	2.83	0.86	1.41	3.51	2.25	3.79	2.01	1.87	2.04	2.16	0.51	1.78	25.02
Fennville	6.25	1.67	2.41	7.49	4.19	2.91	1.94	0.49	1.95	3.32	2.26	1.44	36.32
Fife Lake (near)	2.36	1.27	1.44	7.35	4.45	2.83	1.62	1.51	2.07	2.22	1.02	2.12	30.26
Five Channels	2.97	1.35	2.83	6.99	4.02	3.16	1.06	0.88	1.99	4.79	0.58	1.71	32.33
Flint (No. 1)	2.04	0.71	2.07	4.98	4.03	2.34	1.58	0.65	2.04	4.21	1.72	3.03	29.40
Flint (No. 2)			1.91	5.76	3.75								
Frankfort	3.39	1.56	1.48	3.41	2.52	3.42	2.92	1.61	2.30	2.16	0.55	1.68	27.00
Ganges	5.09	0.94	2.55	7.29	3.13	3.41	2.16	0.42	1.82	4.57	2.02	4.58	37.98
Gaylord	3.20				4.11	4.35	3.06	2.41	4.96				
Gladwin	2.30	1.21	1.00	7.24	4.44	3.08	1.31	0.62	2.02	4.67	0.55	0.99	29.43
Grand Haven	4.39	0.72	2.32	4.11	3.88	2.65	0.61	0.85	0.88	3.04	1.21	1.76	26.42
Grand Ledge (No. 1)	3.82	0.80	3.08	6.69	4.15	2.61	1.30	0.40	1.34	4.68	1.35	2.82	33.04
Grand Ledge (No. 2)			1.13	6.93	4.44								
Grand Marais	4.59	1.36	1.57	3.03	3.12	2.21	2.66	1.82	2.76	3.49	2.27	1.55	30.43
Grand Rapids	4.00	0.66	2.06	5.61	6.31	2.18	2.30	0.70	0.99	3.40	1.29	2.71	32.21
Grayling	2.02	0.53	1.40	5.61	3.46	2.76	4.55	1.17	2.81	3.61	0.78	0.63	29.33
Greenville	2.97	0.79	1.10	6.14	6.37	2.84	1.87	0.86	1.15	4.15	0.92	1.79	30.95
Gull Lake					4.12	2.53	2.63	0.71	1.69	4.43	1.88	3.54	
Harbor Beach	1.80	0.83	1.06	5.02	3.60	1.83	3.07	0.48	1.99	4.22	1.36	1.10	25.36
Harrisville	4.24	1.87	2.14	4.88	4.84	2.04	1.52	2.65	2.48	4.18	1.50	3.88	36.82
Hart	3.08	0.83	1.73	5.54	3.43	3.73	1.21	1.11	2.09	2.86	1.11	0.57	27.29
Hastings	3.40	0.63	2.81	6.09	5.08	3.01	3.27	1.07	1.25	4.13	1.73	2.80	35.27
Hillsdale	4.27	0.76	3.73	7.52	4.06	2.78	2.00	0.75	1.84	5.72	2.75	2.84	39.02
Holland	3.70	0.53	1.99	5.34	5.65	3.05	0.80	0.41	1.64	3.41	1.22	1.96	29.70
Houghton	6.33	1.19	3.85	0.81	1.96	1.64	4.68	1.14	3.60	3.35	3.24	2.83	34.62
Houghton Lake	2.40	1.26	1.54	7.20	3.42	2.01	1.92	0.84	1.83	2.52	0.98	1.70	27.62
Howard City	1.90	0.70	1.15	6.40	5.35	3.25	3.50	1.02	0.73	3.33	0.40	2.90	30.63
Humboldt	2.92	0.50	1.21	2.16	3.33	3.85	5.99	0.93					
Iron Mountain	2.39	0.93	1.44	2.67	3.94	3.28	3.21	1.75	2.88	1.92	0.89	1.60	26.90
Iron River		0.95		3.84				1.02	3.77	1.63		1.52	
Iron River (near)	2.11	0.95	1.49	1.84	4.40	3.04	4.86	1.39	3.62	2.30	2.31	1.41	29.72
Ironwood	3.88	1.70	2.36	2.02	1.97	2.84	2.66	1.69	2.89	2.35	3.39	4.28	32.03
Ishpeming	2.72	0.86	1.43	2.50	3.02	3.53	5.02	1.14	3.24	5.31	1.20	2.31	32.28
Jackson	3.69	0.78	3.09	5.29	3.59	4.20	0.45	1.45	1.80	4.04	2.47	2.69	33.54
Kalamazoo (No. 1)	3.17	1.33	2.49	5.49	4.89	3.96	4.76	0.34	1.84	4.37	3.15	3.62	39.41
Kalamazoo (No. 2)	3.71	0.75	1.50	5.06	4.86	3.29	3.97	0.45	1.87	4.04	2.04	4.39	35.93
Kent City	3.11	0.40	0.95	5.74	4.86	4.01	2.33	0.67	0.94	2.49	1.62	1.59	28.71
Lake City				11.71	3.34	2.31	2.23	1.01	2.62	1.91	0.82		
L'Anse	1.87	0.91	1.32	1.01	2.77	2.66	5.58	0.70	4.56	5.22	1.64	1.11	29.35
Lansing (Weather Bureau)	3.42	0.96	3.15	5.54	3.98	2.17	1.90	0.29	1.23	4.09	1.42	3.22	31.37
Lansing (Sugar Co.)	2.71			5.78		2.00	1.16	0.25	1.25	4.01			
Lapeer	1.60	0.67	2.14	7.90	6.25	2.67	1.30	0.90	2.30	3.51	1.86	2.15	33.25
Loud	3.17	1.44	2.32	5.75	3.47	3.20	0.71	0.68	1.88	3.60	0.48	2.79	29.49
Lowell	3.47	0.91	2.33	6.12	7.69	2.88	0.68	0.59	1.49	4.13	1.35	3.09	34.73
Ludington	3.49	1.17	1.64	6.47	2.46	2.69	3.53	0.97	2.88	3.06	0.66	0.82	29.84
Luther	2.39	0.74	1.14					0.90	1.22	3.25	0.90	1.29	
Mackinac Island	3.55	0.83	1.80	2.01	1.72	4.01	3.09	2.03	1.60	3.65	1.19	2.71	28.19
Mackinaw	3.54	0.60	1.55	2.89	2.35	3.07	3.14	1.91	1.47	2.13	1.48	1.96	26.09
Manistee		0.60		6.28	3.68	3.25	3.21	1.12	2.31	3.13	1.48	0.84	
Marquette	3.73	1.16	1.84	2.40	2.59	3.73	2.88	1.72	3.79	4.53	1.38	3.47	33.22
Midland (No. 1)	2.23	0.66	0.98	5.85	3.26	3.28	2.23	0.78	1.22	4.42	0.47	1.58	29.96
Midland (No. 2)			2.40	5.40	4.86								
Milford (near)	3.19	1.02	2.73	6.06	3.58	4.24	1.84	0.66	1.39	5.19	2.67	2.91	35.48
Mio	2.50	1.12	1.70	4.72	3.76	2.72	1.34	0.94	1.88	2.50	1.15	2.05	26.38
Monroe	3.47	1.16	3.50	7.27	5.17	3.07	1.64	1.38	2.81	4.96	3.35	3.63	41.41
Morenci			4.13	7.41	4.45	4.70	3.38	3.20	3.35	6.02	1.85	1.85	
Mount Clemens (near)	2.65	1.43	2.53	5.40	3.10	2.09	2.41	0.47	1.12	2.73	3.56	3.48	30.97
Mount Pleasant (No. 1)	2.35	0.90	1.42	6.27	4.57	2.86	0.61	0.61	2.31	3.55	0.63	1.07	27.15
Mount Pleasant (No. 2)			1.34	6.82	4.82								

[3] Name changed from Ruse.

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Michigan*—Continued**													
Munising	4.54	0.99	1.97	3.55	4.08	4.58	2.84	2.76	3.51	5.22	2.81	2.35	39.20
Muskegon	2.10	0.51	1.35	4.29	3.48	2.71		0.92	1.23	2.99	0.72	1.17	
Newberry	5.50	0.79	3.14	2.92	2.85	3.84	3.29	1.91	2.79	3.36	3.32	1.72	35.43
Northport								2.09	2.54	2.36	1.16	2.20	
Old Mission	2.39	0.47	0.97	4.60	2.35	3.33	2.69	1.90	3.02	2.36	2.13	0.99	27.20
Onaway (near)	3.47	0.99	1.85	3.80	3.93	2.86	1.28	1.16	3.17	3.63	1.14	2.87	30.15
Oscoda (near)	2.87	1.34	1.59	5.90	3.08	2.85	1.14	0.53	1.97	4.64	0.62	3.20	29.73
Otsego	3.57	0.84	3.02	6.17	5.66	2.79	1.96	1.33	1.94	5.19	2.57	3.40	38.44
Owosso (No. 1)	2.18	0.50	3.78	6.02	3.77	3.04	0.68	0.83	1.29	4.71	2.29	2.11	31.20
Owosso (No. 2)			1.75	7.32	4.15								
Painesdale	5.96	1.16	2.64	0.53	1.78	2.86	5.92	0.73	4.97	2.41	4.54	3.93	37.43
Paw Paw	3.55	0.40	3.10	6.64	4.74	3.35	2.00	1.28	2.23	3.97	2.64	1.87	35.77
Petoskey	2.77	0.96	1.89	4.35	1.33	3.88	2.72	2.55	3.31	1.77	1.79	1.47	28.79
Plainwell	4.59	1.00	3.09	6.28	5.71	4.80	1.81	1.08	1.54	5.96	3.21	4.80	43.87
Pontiac	3.41	1.26	2.63	6.35	3.82	3.63	1.03	0.56	1.06	3.91	2.56	3.62	33.84
Port Huron	2.61	0.69	1.97	5.92	2.56	1.84	1.64	1.45	1.16	3.50	2.83	2.93	29.10
Roscommon (near)	2.43	1.10	1.28	5.40	3.55	2.00	3.60	1.40	2.28	2.18	1.87	1.69	28.78
Sack Bay	4.95	2.20	1.45	4.95	1.69	5.28	2.31	3.52	3.82	3.12	1.19	2.35	36.83
Saginaw	2.44	0.79	1.51	5.49	4.07	1.57	1.23	1.00	1.87	4.73	0.86	2.93	28.49
St. Ignace	1.41	0.43	1.46	2.74	2.71	3.90	2.69	2.50	1.69	1.84	1.54	1.50	24.41
St. Joseph	2.22	0.37	2.97	6.03	3.55	2.61	2.28	0.97	1.36	2.82	2.27	1.90	29.35
Sandusky	3.62	1.55	1.16	7.94	4.00	2.02	1.24	1.99	2.16	4.15	1.52	4.29	35.64
Saranac	3.10	0.83	1.92	7.12	6.04	2.73	0.80	0.85	1.59	4.37	1.56	3.24	34.15
Sault Ste. Marie	3.57	0.57	2.08	1.53	3.15	3.05	2.40	2.04	2.92	2.52	3.92	1.34	29.09
Scottville	3.81	1.88	1.33	7.67	3.34	3.31	3.75	1.50	3.45	4.00	0.93	2.20	37.17
Secord	1.42	1.54	1.06	6.17	3.12	3.37		1.40	2.05	2.56	0.31	1.45	
Seney	2.00	0.63	1.26	1.14	4.55	4.19	3.53					0.54	
Shields			1.59	9.59	4.71								
Sidnaw	2.29	1.37	1.49	1.15	4.04	3.03	6.18	1.92	4.51	3.19	3.04	2.18	34.39
South Haven	2.92	1.06	2.62	6.68	3.37	3.02	0.81	2.20	1.73	4.08	1.91	1.71	32.11
Stanwood (near)	3.45	1.35	1.53	7.03	5.15	4.13	3.36	1.17	2.25	3.99	1.42	1.40	36.23
Stronach	2.53	1.10	1.29	7.05	5.04	4.07	3.01	1.48	3.51	2.94	1.09	0.57	33.68
Traverse City	2.80	0.91	1.22	7.13	2.97	3.08	4.35	1.03	1.61	2.27	1.18	1.12	29.67
Trowbridge	4.28	0.72	3.43	6.09	4.58	2.76	1.74	0.95	1.32	4.79	3.03	5.10	38.79
Twin Falls	2.40	0.88	1.48	3.16	3.25	2.59	3.69	1.83	3.34	1.93	0.68	1.58	26.81
Vanderbilt (near)	1.75	0.40	0.83	4.59	2.50	4.16	1.39	2.18	3.80	3.20	1.05	1.60	27.45
Vassar			1.40	8.43	4.41								
Webber Dam (near)	2.42	0.55	1.90	6.41	5.33	3.01	0.95	0.52	0.94	3.79	0.71	2.55	29.08
Williston (near)	3.58	1.19	1.46	6.60	4.65	3.70	3.98	1.35	2.80	2.37	1.24	0.82	33.74
West Branch	1.94	0.55	1.51	6.38	3.37	2.49	3.72	1.77	2.63	3.84	0.86	1.22	30.28
Whitefish Point	3.90	0.97	2.55	2.05	4.22	2.38	1.66	0.88	3.61	3.45	4.17	2.42	32.26
Williamston			1.96	7.81	3.99								
Wolverine	2.89	0.79	1.89	4.69	2.43	3.92	2.45	2.44	3.40	3.80	2.90	1.86	33.46
Yale	2.83	1.06	3.30	8.07	4.01	1.72	2.22	1.23	0.94	4.08	2.04	1.53	33.33
Ypsilanti	3.16	1.30	3.46	5.21	3.24	3.49	1.59	1.09	2.69	4.68	2.85	2.59	35.35
Minnesota													
Ada	1.58	0.18	1.00	2.09	1.56	0.54	0.90	0.79	1.46	2.60	1.45	0.98	15.13
Ah-gwah-ching	1.59	0.21	1.18	0.70	1.18	1.01	0.76	1.54	2.37	2.17	0.32	0.86	13.89
Albert Lea	1.58	1.00	1.06	4.57	3.74	1.93	3.94	2.20	4.37	1.22	0.20	0.71	26.51
Alexandria	0.19	0.50	1.38	2.32	1.81	0.85	2.78	3.10	3.95	2.02	0.38	0.11	19.39
Angus	0.16	0.12	0.93	1.15	1.95	1.07	2.90	0.93	1.45	2.19	0.59	0.90	14.80
Argyle	1.10	0.33	0.89	1.43	2.76	1.70	2.71	0.68	1.24	1.92	0.65	0.49	15.90
Artichoke Lake	0.51	0.28	0.49	2.23	2.20	0.77	2.77	1.23	4.19	2.28	0.46	0.15	17.56
Baudette	0.51	0.33	0.62	0.91	1.00	1.57	1.66	0.94	1.61	2.02	0.66	0.73	12.56
Beardsley	0.67	0.75	0.53	2.67	1.80	0.65	4.99	1.15	2.97	2.17	0.14	0.04	18.53
Bemidji	1.74	0.16	0.94	0.89	0.86	1.56	3.12	2.16	3.25	2.08	0.48	1.16	18.40
Bird Island	0.83	0.61	0.56	1.25	1.58	1.83	3.49	2.07	4.77	2.47	0.94	0.18	20.58
Brainerd	0.92	0.23	1.13	0.94	2.18	1.64	1.33	1.77	3.36	2.24	0.46	0.43	16.63
Campbell	1.33	1.32	1.05	1.88	2.13	1.09	4.04	1.39	2.74	2.84	1.06	0.55	21.42
Canby	1.20	1.40				1.22	1.99	1.66	7.35	3.04	0.45	0.20	
Cass Lake	0.74	0.15	0.75	0.71	1.04	2.27	3.05	2.21		2.42	0.25	0.56	
Chaska	1.63	0.83	1.26	1.28	2.38	3.01	6.32	4.16	4.07	2.64	0.29	0.27	28.14
Cloquet	1.70	0.34	1.24	1.17	2.50		1.56	1.53	5.84	2.22	0.76	1.21	
Collegeville	0.91	0.38	0.61	0.80	2.42	0.96	1.65	2.71	5.34	1.81	0.27	0.36	18.22
Crookston	0.35	0.17	0.31	1.77	1.94	1.28	2.23	1.16	1.33	2.48	0.53	0.51	14.06
Detroit Lakes	0.98	0.57	0.97	1.69	1.35	4.14	2.14	1.52	1.86	3.46	0.65	0.61	19.94
Duluth	1.51	0.37	1.79	1.61	1.97	2.77	3.41	0.93	4.82	2.47	0.59	0.92	23.16
Fairmont	1.70	1.21	1.60	2.71	2.91	1.27	2.26	2.53	4.88	2.27	0.39	0.30	24.03
Faribault	1.26	0.62	1.05	1.70	2.68	3.97	5.33	2.92	4.14	3.01	1.20	0.42	28.30
Farmington		1.10	0.55	2.67			3.46	2.15	3.66	1.50		1.00	
Fergus Falls	1.75	0.90	1.20	1.23	1.91	0.68	2.43	0.50	1.98	3.00	1.18	0.80	17.56
Fort Ripley	0.99	0.37	0.52	0.41	2.80	1.49	1.61	2.28	3.09	1.39	0.99	0.39	16.33
Foston	1.60	0.11	1.00	0.69	1.40	1.00	1.52	1.96	1.97	2.05	1.07	2.23	16.62
Gonvick (near)	1.39	0.13	0.74	1.01	1.59	0.74	2.24	4.08	2.05	1.40	0.39	0.76	16.52
Grand Marais	2.60	1.20	1.98	1.55	1.03	1.35	1.12	1.59	3.54	1.64			
Grand Meadow	2.39	1.14	0.98	4.23	2.72	1.46	2.24	1.41	3.31	1.56	0.58	0.45	22.47
Grand Rapids	1.23	0.13	0.94	0.67	0.90	2.16	0.74	2.04	3.43	1.94	0.16	0.74	15.08
Gull Lake Dam	0.96	0.30	1.18	1.55	2.48	0.65	1.57	2.11	3.48	2.59	0.25	0.57	17.69
Hallock	0.98	0.22	0.75	1.00	2.64	1.01	2.58	0.65	1.70	2.07	0.60	1.47	15.67
Itasca State Park	1.00	0.20	0.39	1.21	1.08	1.02	1.85	2.12	1.88	2.23	0.42	0.53	13.93
Leech Lake Dam	1.16	0.20	0.89	0.93	1.84	2.94	1.28	1.73	3.64	2.12	0.22	0.62	17.57
Little Falls	1.49	0.19	1.20	1.06	1.80	1.34	1.16	3.53	4.70	2.52	0.29	0.47	19.75
Lynd			0.50	8.11	1.86	1.71							
Mahnomen	0.44	0.08	0.40	0.78	0.55	0.94	1.07	1.32	2.22	2.39	0.23	0.23	10.65
Mankato	1.50	0.47	0.92	3.14	1.63	4.68	4.71	3.55	4.10	2.26	0.66	0.35	27.97
Maplelain	1.86	1.24	1.34	2.36	1.11	3.35	2.33	3.41	4.81	2.59	0.71	0.63	25.74
Meadowlands	1.17	0.12	0.82	0.83	1.51	3.17	1.86	1.35	3.27	1.80	0.18	0.68	16.76
Milaca	1.33	0.54	1.10	1.10	1.46	1.17	1.65	3.53	5.54	2.24	0.21	0.26	20.13
Milan	0.85	0.42	0.22	3.36	2.28	1.88	2.35	0.81	7.25	2.67	0.57	0.50	23.16
Minneapolis (Weather Bureau)	1.60	1.05	1.31	1.62	1.91	4.21	3.33	2.15	3.57	2.17	0.36	0.36	23.64
Minneapolis (No. 1)	1.81	1.11	1.30	2.14	2.54	4.32	3.49	1.40	3.73	2.28	0.42	0.43	24.97
Montevideo	1.58	0.73	1.29	3.04	1.82	1.34	2.64	0.82	7.37	2.46	0.68	0.34	24.11

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Minnesota—Continued													
Moorhead	1.36	0.47	1.01	1.99	1.13	0.30	0.94	0.75	0.91	3.13	1.08	0.82	13.89
Mora	1.44	0.50	1.23	1.74	1.45	1.69	2.33	1.44	5.57	2.33	0.33	0.39	20.44
Morris	1.34	1.11	1.51	2.57	2.18	0.97	6.35	1.50	3.54	2.46	0.58	0.30	24.41
New London	1.04	0.30	0.47	1.26	2.63	0.68	1.93	1.56	6.89	2.08	0.54	0.09	19.47
New Ulm	1.55	1.45	2.31	3.04	2.52	2.54	4.05	2.61	6.75	3.73	1.24	0.85	32.64
Orr	0.89	0.15	1.65	0.99	1.47	2.41	2.16	2.15	2.55	1.03	0.81	0.87	17.13
Park Rapids	0.88	0.30	0.92	0.92	1.43	0.55	1.35	2.17	1.67	2.47	1.05	0.90	14.61
Pigeon River Bridge	0.35	0.32	0.80	1.32	2.59	1.25	1.57	2.40	4.61	4.84	0.81	0.84	21.70
Pine River Dam	0.82	0.25	1.20	1.11	2.46	0.65	1.32	1.58	2.55	2.31	0.29	0.57	15.09
Pipestone	1.50	0.65	0.72	3.96	2.52	2.00	4.91	1.52	4.81	2.66	0.22	0.50	25.97
Pokegama Falls	0.96	0.11	1.07	0.72	1.16	2.08	0.78	2.20	3.36	1.93	0.25	0.81	15.43
Redby	1.63	T.	0.49	0.39	0.97	1.39	2.08	1.93	1.38	2.17	0.67	0.84	13.94
Red Lake Falls	1.29	0.23	0.44	1.79	1.97			1.67	0.80	2.43	0.36	0.82	
Red Wing			0.98	3.70	2.86	2.16	4.38	2.10	4.81	1.40	0.60		
Redwood Falls	1.24	0.70	0.85	2.16	2.69	1.98	3.90	3.04	4.67	2.54	0.45	0.44	24.66
Reeds			0.52	3.72	3.41	3.81	4.61	2.18	4.12	1.12	0.53		
Rochester			1.31	5.34	2.86	6.39	3.43	2.08	5.12	1.68	0.37	0.07	
Roseau	0.60	0.45	0.59	0.69	2.08	1.96	1.78	0.69	2.17	2.21	0.93	0.40	14.55
St. Cloud	0.93	0.50	1.19	1.40	2.10	1.19	2.37	1.97	6.60	2.11	0.67	0.57	21.60
St. Paul	1.52	0.95	1.29	2.43	1.97	4.66	3.71	1.37	3.36	2.45	0.32	0.36	24.39
St. Peter	2.01	0.69	1.07	2.48	1.49	2.21	4.27	1.86	5.38	2.29	0.70	0.58	25.03
Sandy Lake Dam	0.62	0.09	0.69	0.92	3.06	2.36	1.38	2.01	3.45	1.88	0.39	0.54	17.39
Taylors Falls	1.02	0.47	0.79	1.57	2.13	2.19	3.78	2.47	3.93	2.01	0.47	0.33	21.16
Thief River Falls	1.16	0.21	0.73	1.49	2.94	2.10	2.76	0.56	1.38	2.50	0.52	1.13	17.48
Tower	1.12	0.26	1.16	0.90	1.00	1.38	1.81	3.88	4.47	2.28	0.95	0.87	20.08
Tracy	0.29	0.14	0.49	4.45	3.56	4.45	2.17	1.22	4.40	2.59	0.33	0.07	24.16
Two Harbors	1.50	0.38	1.40	1.33	2.00	4.84	1.56	1.91	5.08	2.42	0.48	1.10	24.00
Virginia	1.39	0.24	1.28	0.90	1.67	3.15	1.35	2.52	5.76	1.78	0.59	0.98	21.61
Wadena	0.65			0.47	1.21	1.52	3.26	1.93	3.06	3.04			
Warroad	0.37	0.29	0.74	1.62	1.06	2.71	2.07	1.90	1.81	1.99	0.38	0.45	15.39
Waseca	2.09	1.13	1.69	3.23	2.73	2.28	3.00	4.75	3.94	1.67	0.66	0.24	27.41
Wheaton	0.94	0.50	0.63	2.24	1.65	0.63	2.05	2.56	2.54	2.54	0.50	0.20	16.98
Willmar	1.79	0.76	1.06	1.65	1.93	1.81	1.58	2.20	8.51	2.52	1.14	0.41	25.36
Winnebago	1.07		1.30	4.06	2.04	1.27	3.45	2.23	4.38	2.65	0.26	0.11	
Winnibigoshish	1.13	0.09	0.75	1.03	2.16	2.74	2.44	2.03	4.65	1.97	0.30	0.85	20.14
Winona	4.03	1.27	2.25	4.46	1.66	2.43	2.00	2.57	3.71	0.92	0.68	0.55	26.53
Worthington	1.70	0.73	0.49	4.21	4.71	2.28	4.47	3.69	5.49	3.05	0.19	0.03	31.04
Zumbrota	1.99	0.76	1.68	3.72	2.71	6.25	3.97	2.02	7.42	1.77	0.18	0.58	33.05
Mississippi													
Aberdeen	6.49	3.63	10.35	3.51	4.06	2.35	2.85	4.96	3.23	3.83	9.14	2.91	57.31
Agricultural College	4.22	3.76	10.23	4.58	4.01	3.80	1.85	1.55	5.57	6.07	8.61	3.06	57.31
Anguilla	4.17	4.89	8.20	5.50	5.40	1.40	3.71	2.83	1.22	3.03	6.71	4.30	51.36
Austin	4.57	2.17	3.84	7.33	2.18	3.91	1.75	1.67	2.45	5.50	3.67		
Batesville	4.79	6.03	6.95	3.91	5.39	1.77	4.87	1.17	3.20	3.90	11.76	4.31	58.05
Bay St. Louis	8.88	8.63	10.07	2.25	8.33	6.37	11.40	4.15	19.16	2.43	3.70	4.09	89.46
Biloxi	7.79	8.30	9.21	2.49	8.64	5.48	5.55	2.98		3.38	4.18	4.36	
Booneville	6.48	4.77	8.05	8.58	7.57	4.81	3.94	2.74		4.32		3.49	
Brookhaven	6.54	6.06	5.82	3.60	6.37	4.71	3.85	2.08	3.24	4.61	15.34	3.81	66.03
Canton	3.51	3.58	10.02	3.79	4.40		3.48		3.42				
Clarksdale	3.72	5.43	5.83	3.26	6.34	2.89	2.97	0.17	2.75	4.86	5.04	3.18	46.44
Cleveland	2.86	5.03	5.36	5.56	2.38	1.64	1.69	1.08	1.58	8.28	5.09	4.05	44.90
Collins	5.73	8.65	10.99	4.87	6.88	5.18	7.45	1.36	5.33	4.44	14.29	3.05	78.22
Columbia	6.94	10.74	6.89	2.90	6.74	4.90	6.96	4.16	6.20	3.18	14.17	4.37	78.15
Columbus	5.35	4.34	8.83	3.96	3.71	2.71	2.13	0.35	4.87	6.05	10.90	3.61	56.81
Corinth	4.12	5.22	9.30	6.20	8.46	3.66	2.16	3.26	7.34	4.16	6.04	3.58	63.50
Crystal Springs	6.15	5.45	6.86	3.25	5.06	4.21	3.50	4.00	2.74	2.63	13.22	2.00	59.07
Duck Hill	5.07	4.53	6.93	6.45	1.44	2.84	4.54	0.37	4.79	3.13	5.39	4.01	49.49
Edinburg	5.68	3.16	7.08	4.78	5.07	1.24	1.46	1.53	3.22	1.87	7.63	2.42	45.14
Enterprise	6.50	8.83	14.10	2.72	5.29	5.26	1.35	3.62	7.59	2.16	13.97	3.17	74.56
Eupora	5.08	5.15	10.25	6.14	2.81	4.15	3.03	1.77	4.65	3.81	5.58	4.90	57.32
Fayette	4.07	5.40	6.76	2.15	4.18	3.87	1.89	2.79	2.26	3.00	9.17	2.92	48.46
Fruitland Park	5.75	11.34		3.15	5.96	5.60	5.84	2.13	6.13	5.15			
Fulton	5.59	4.57	7.37	7.19	3.22	1.54	3.67	0.97	5.31	3.41	6.11	2.68	51.63
Greenville	2.94	5.46	6.25	5.97	2.67	0.67	2.45	2.52	2.73	4.16	6.69	4.40	46.91
Greenwood	4.59	4.28	5.44	4.81	3.16	3.74	5.05	1.73	3.18	2.06	8.74	4.31	51.09
Grenada	4.00	2.75	5.24	4.87	2.67	2.35	7.76	3.73	2.96	2.74	5.58	3.44	48.09
Hattiesburg	5.97	11.81	10.77	3.99	6.30	5.69	7.41	6.43	6.34	4.20	8.75	3.74	81.40
Hernando	3.78	4.39	5.32	6.03	4.96	2.70	2.30	1.48	4.08	4.45	6.07	3.66	49.22
Hickory	7.21	6.48	15.33	4.37	3.60	4.29	6.62	1.03	5.72	3.77	13.34	3.11	74.87
Holly Springs	4.39	6.75	7.22	5.59	4.30	2.06	3.16	1.14	3.48	5.14	6.13	3.89	53.25
Jackson	5.45	5.56	8.93	5.84	4.44	4.49	5.39	1.99	3.19	2.36	10.88	2.98	61.50
Kosciusko	3.81	4.28	10.81	5.40	2.83	3.68	3.61	3.00	4.01	2.29	11.30	3.54	58.56
Lake	6.36	6.19	10.66	4.41	4.06	3.29	6.30	2.09	8.36	3.16	10.21	2.63	67.72
Laurel	5.37	8.07	11.37	2.97	6.65	2.23	2.59	1.35	4.75	5.50	8.34	3.97	63.16
Leakesville	5.64	13.57	12.89	4.37	6.57	4.53	8.58	5.30	7.38	4.12	4.48	4.08	82.11
Louisville		4.38	9.45	4.50	6.56	3.45	1.73	0.86	5.90	4.46	8.95	4.56	
Macon	7.04	4.56	11.65	4.88	6.34	1.41	2.37	1.40	6.22	3.90	10.52	2.95	63.24
Magnolia	7.65	10.55	9.23	2.43	4.68	5.01	4.95	3.06	1.37	6.08	12.97	4.48	72.46
Meridian	6.44	5.75	13.70	2.73	5.55	5.88	2.24	0.79	4.80	1.82	11.65	2.39	63.80
Merrill	7.02	14.75	13.91	3.39	9.32	6.28	4.43	1.69	5.96	6.45	6.56	4.92	84.68
Monticello	6.75	8.27	9.56	2.70	5.30	3.87	3.94	4.41	2.92	5.92	19.73	2.88	76.25
Moorhead	4.20	3.80	5.95	5.20	1.65	1.05	4.10	2.25	3.50	3.25	9.10	4.20	48.25
Natchez	5.59	5.99	6.17	3.37	3.99	0.53	4.83	0.98	1.50	3.18	12.06	3.69	51.88
Pearlington	7.58	8.21	5.90	3.56	6.23	6.04	11.62	6.64	9.75	5.05	4.28	3.44	78.30
Pittsboro	4.49	3.92	6.77	5.68	2.78	1.68	1.88	2.89	2.98	3.90	4.61	4.25	45.83
Pontotoc	4.37	3.18	4.14	7.76	3.06	4.85	4.98	0.65	5.50	3.83	3.85	2.20	48.37
Poplarville	7.23	11.32	11.34	3.30	4.55	4.53	5.50	4.06	1.95	3.61	7.69	4.43	69.51
Port Gibson	5.63	6.13	9.38	4.54	4.67	3.51	2.66	3.69	2.04	3.68	12.99	2.36	61.28
Rosedale	2.61	5.54	5.19	5.23	1.03	1.64	2.70	0.25	1.00	7.14	4.19	5.81	42.33
Scott	2.97	4.57	5.52	5.34	1.94	1.48	6.34	0.07	2.36	7.42	4.45	4.34	46.80
Shellmound	3.56	4.15	6.18	4.35	3.52	1.52	4.03	0.27	2.20	2.96	7.56	4.61	44.91
Shubuta	6.12	8.30	12.07	3.42	4.20	3.63	3.69	2.86	4.40	3.03	8.85	4.13	64.70
Stoneville	2.31	4.61	5.61	7.53	1.65	1.99	2.14	2.10	2.96	6.17	4.84	4.75	46.66

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Mississippi—Continued													
Swan Lake	4.25	5.30	7.67	4.50	3.77	3.67	4.55	1.27	4.97	2.79	7.80	4.78	55.32
Tupelo	4.89	4.74	8.79	5.07	4.47	5.34	2.82	1.48	8.78	4.18	6.32	3.14	60.02
University	4.47	3.07	8.09	5.16	3.23	2.33	4.39	1.49	2.28	4.66	6.18	3.92	49.27
Utica	5.63	5.20	8.25	4.15	8.05	4.20	8.05	2.65	2.15	3.67	12.40	2.65	67.05
Vicksburg	4.78	3.64	8.86	4.82	3.32	2.40	3.12	1.83	0.34	2.55	8.31	2.89	46.86
Water Valley	4.40	5.00	8.85	4.15	4.85	2.20	7.93	2.75	3.25	3.02	9.00	1.45	56.85
Waynesboro	4.21	9.99	13.94	3.01	6.67	4.58	6.41	1.86	3.06	4.45	5.73	3.93	67.84
West Point			10.04	3.71	4.35	3.32	1.99	1.24	3.18	3.80	10.09	3.52	
Woodville	7.09	10.48	8.71	3.20	7.70	2.17	11.71	1.72	3.04	9.87	11.64	3.84	84.17
Yazoo City	3.80	3.30	10.28	5.26	4.83	1.77	7.81	2.82	0.78	1.85	6.92	4.12	53.54
Missouri													
Albany	0.70	1.70	2.19	5.35	1.23	6.13	6.44		1.74		0.73		
Appleton City	2.57	1.16	2.82	7.44	8.00	5.70	2.24	0.91	4.07	5.10	0.62	0.84	41.47
Arcadia	3.39	1.87	2.49	6.10	9.56	5.16	4.59	2.22	3.41	1.94	2.16	2.33	45.22
Aurora	3.14	1.83	3.28	7.36	8.06	4.54	4.80	2.30	2.43	6.76	1.25	0.69	46.44
Bethany	2.95	1.83	1.81	6.47	2.64	9.48	6.95						
Birchtree	5.09	2.36	1.58	5.51	7.80	4.29	3.65	7.10	3.54	6.48	1.01	3.17	51.58
Bolivar			3.20	6.84	9.26								
Boonville	1.94	1.06	2.44	6.24	11.31	5.82	2.31	1.24	2.87	6.66	1.15	0.60	43.64
Brunswick	3.41	1.85	3.34	6.88	6.76	6.22	0.90	1.82	2.52	8.52	0.88	0.82	43.92
Campbell	5.85	5.90	3.80	5.05	7.87	5.09	5.13	8.57	2.77	1.71	2.15	4.93	58.92
Cape Girardeau	7.06	3.23	3.18	6.02	7.97	3.76	2.93	3.03	4.06	0.90	2.57	4.22	48.93
Caplinger Mills	1.90	1.16	3.55	4.92	7.26	5.32	2.03	1.95	1.28	4.56	0.45	0.77	35.15
Caruthersville	3.57	2.85	5.08	6.03	6.25	3.04	6.38	3.54	2.89	2.10	3.08	3.36	48.17
Chillicothe	4.15	1.63	1.79	6.85	4.67	6.92	3.93	2.26	1.97	7.78	1.03	0.39	43.37
Clifton Hill	2.96	1.56	5.71	5.55	6.57	4.01	2.73	1.43	2.50	6.08	1.33	1.13	41.56
Clinton	2.11	1.04	2.97	6.07	12.32	7.46	2.15	1.19	2.68	5.92	1.58	1.75	47.24
Columbia	2.09	1.03	4.05	5.74	11.98	7.49	1.49	0.40	3.06	6.96	1.23	0.88	46.40
Conception	2.04	1.59	1.74	7.55	1.71	9.05	11.35	1.20	2.56	7.46	1.40	0.20	47.85
Concordia	2.07	1.56	4.91	4.05	6.55	6.88	1.76	1.96	1.88	6.31	0.42	0.27	32.34
Dean (Anderson)	3.80	2.90	2.67	10.58	12.33	7.05	1.40	1.37	3.05	7.56	2.38	1.40	57.29
Dexter	8.64	4.75	3.56	4.60	6.88	3.21	3.78	3.47	2.85	2.39	2.88	4.74	51.75
Doniphan	7.92	3.02	4.08	7.39	6.89	2.84	5.10	4.18	2.71	4.03	1.48	5.16	54.80
Downing	2.60	1.14	3.29	7.13	2.87	5.99	9.60	2.87	4.69	5.91	1.50	0.72	48.31
Egerton	1.96	1.33	1.40	5.40	5.05	8.13	1.99	0.78	1.15	7.35	1.21	0.67	36.42
Eldon	2.30	0.80	3.56	4.99	9.70	5.58	2.57	1.94	4.12	6.49	1.09	2.18	45.32
Farmington	4.38	1.70	3.09	5.39	12.12	4.58	4.53	3.73	2.90	3.40	1.34	2.25	49.41
Fayette	2.49	1.32	2.62	6.16	10.03	4.03	3.70	1.11	1.92	6.89	1.09	0.53	41.89
Fredericktown	4.73	4.03	3.27	3.90	5.06	3.50	4.13	2.14	3.09				
Fulton	2.56	0.58	2.86	4.75	11.69	8.78	4.19	0.92	3.79	6.08	1.35	0.75	48.30
Galena	1.88	1.69	1.85	7.67	11.06	4.73	2.95	2.63	2.49	6.10	1.14	1.00	45.19
Gallatin	2.21	2.44	0.71	9.02	3.64	9.53		1.03	1.83	7.79	1.44	0.16	
Goodland	3.55	1.76	2.22	3.51	9.32	5.99	2.57	3.17	3.00	5.20	1.05	3.20	44.54
Gorin	3.45	0.95	3.21	7.47	2.26	4.83	9.08	1.58	6.97	6.77	1.75	0.70	49.02
Grant City	2.70	1.74	0.47	4.78	1.45	5.08	5.42	1.45	2.72	4.68	1.46	0.22	32.17
Greenville	6.10		5.11										
Hailey	2.87	1.98	1.20	8.50	7.79	6.14	3.05	4.10	3.80	5.05	0.11	1.58	46.17
Hannibal	3.33	0.84	5.11	3.85	4.92	4.80	6.15	1.34	3.18	4.67	1.43	0.66	40.28
Harrisonville	3.26	0.96	3.36	4.52	6.56	9.19	3.61	1.41	2.88	5.12	0.76	0.31	41.94
Hermann	2.95	0.56	4.95	4.34	8.18	5.20	5.25	1.29	1.81	5.76	1.53	1.19	43.01
Jackson	6.77	2.85	3.55	6.22	6.84	5.81	5.55	3.49	5.40	1.62	2.38	1.82	52.30
Jefferson City	2.47	0.62	4.38	5.12	10.10	5.94	2.18	3.29	2.92	5.21	1.46	1.56	45.25
Joplin	2.59	1.36	2.24	9.25	11.04	7.71	3.75	1.99	3.16	4.49	1.08	1.17	49.83
Kansas City	3.12	1.79	3.28	4.78	6.91	8.09	0.55	4.13	1.55	6.72	1.09	0.65	42.66
Kidder	2.06	1.50	1.41	7.29	4.34	10.26	3.97	1.04	1.83	7.72	1.16	0.83	43.41
King City	3.31	1.70	1.78	7.78	2.17	11.27	5.84	1.53	2.50	6.63	1.42	0.28	46.21
Kirksville	3.63	1.50	4.01	6.19	2.93	5.34	5.08	2.40	6.21	6.14	1.45	0.43	45.31
Koshkonong	6.05	4.06	2.13	6.92	6.44	5.12	2.47	2.88	4.37	4.55	1.11	4.56	50.66
Lamar	2.48	1.41	1.43	7.36	11.89	5.63	2.88	1.30	0.98	3.40	1.16	0.83	40.55
Lamonte	2.49	2.06	4.02	5.80	13.68	7.49	2.07	1.44	2.33	7.17	1.23	1.78	51.56
Lebanon	2.85	3.03	4.43	5.25	12.91	3.73	1.57	4.88	1.64	6.07	0.52	1.02	47.90
Leeper	3.50	3.65	2.51	7.49	8.04	2.66	4.02	3.42	3.90	3.11	1.35	2.59	46.24
Lexington	3.98	1.99	3.96	6.08	5.94	6.24	2.17	2.42	1.90	7.48	1.32	0.51	43.99
Lockwood	2.32	1.21	2.77	9.76	9.81	5.28	4.90	0.77	2.40	4.15	0.74	0.77	44.94
Louisiana		0.53	4.41	5.10	8.80	6.55	9.10	2.08	3.92	5.60	1.70	1.60	
Lucerne	2.55	1.44	1.53	6.88	2.52	5.09	7.42	2.52	6.69	4.80	0.71		
Macon	2.40	0.53	2.59	9.96	5.72	4.95	1.45	2.12	2.39	7.94	1.78	1.06	42.89
Marble Hill	6.20	4.54	5.68	6.14	10.08	6.94	5.91	2.69	5.22	2.72	1.58	4.57	62.27
Marshall	1.35	1.78	4.64	6.02	7.85			2.53	5.05	8.58	0.83	1.14	
Maryville	1.99	1.22	1.05	8.98	1.46	11.42	8.43	1.59	2.08	6.43	1.25	0.28	46.18
Mexico	3.12	0.83	3.41	5.37	8.91	8.60	2.21	1.58	2.64	5.19	2.14	1.14	45.14
Milan	1.80	1.40	2.15	6.46	4.65	6.53	5.36	2.07	4.72	5.00	1.15	0.65	41.94
Monroe City	2.76	0.56	6.13	4.89	6.67	4.60	5.77	2.37	3.25	5.23	1.98	0.33	44.54
Morehouse	7.75	5.20	3.74	4.80	7.74	3.40	4.49	3.47	7.32	1.52	4.32	4.37	58.12
Mountain Grove	4.23	2.18	2.62	5.59	7.02	4.48	1.21	3.82	4.27	7.28	0.93	2.02	45.65
Neosho	1.90	3.37	2.63	9.12	8.65	8.50	3.35	0.32	2.72	5.34	1.74	0.98	48.62
Nevada	2.18	1.18	1.75	6.86	12.09	4.82	4.92	2.22	0.88	3.71	0.78	0.45	41.84
New Madrid	6.81	5.11	4.25	5.60	6.08	2.86	5.63	3.73	4.64	1.76	3.96	4.14	54.57
Oregon	2.93	1.49	1.74	6.28	5.63	9.67	6.77	1.38	1.38	7.08	1.43	0.15	45.93
Osceola	2.27	1.52	2.56	6.64	11.13	4.72	1.79	0.63	1.91	5.16	0.53	0.49	39.35
Owensville	2.56	0.99	5.25	3.58	8.99	4.47	2.18	3.42	1.85	4.49	1.22	1.80	40.80
Ozark Beach	4.31	2.17	1.93	6.63	10.03	4.91	2.65	3.54	3.69	6.91	1.97	1.56	50.30
Pacific	2.42	0.76	4.42	7.37	10.29	6.49	3.37	2.01	2.32	6.55	1.80	2.54	50.34
Poplar Bluff	8.61	4.49	5.12	5.19	8.16	2.68	7.72	6.82	3.18	2.84	2.07	5.46	62.34
Rolla	3.15	1.61	5.36	4.65	8.65	6.89	1.40	2.28	2.11	8.28	0.79	2.00	47.17
St. Albans (Becker)												2.73	
St. Charles	2.16	1.13	4.99	4.30	11.81	4.33	2.06	1.70	2.36	3.63	1.55	1.66	41.68
St. Joseph	2.96	1.57	1.98	6.93	3.72	6.71	3.61	2.09	1.94	6.05	1.62	0.18	39.36
St. Louis (Weather Bureau)	2.11	0.88	5.33	6.99	10.09	3.65	2.67	3.40	1.71	4.99	1.41	3.07	46.30
St. Louis (No. 2)	2.46	0.78	5.25	6.72	8.44	2.98	2.85	3.21	1.68	4.91	2.16	2.94	44.38
Salem	3.10	1.74	3.32	4.60	8.21	6.73	3.88	4.71	2.89	7.59	0.86	3.48	51.11
Seligman	5.21	3.03	2.19	7.03	9.95	9.81	3.24	2.01	3.23	8.03	1.38	2.08	57.19
Seymour	3.57	2.60	3.33	5.02	9.40	5.00	3.55	3.56	3.08	5.80	1.15	2.52	48.58

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Missouri—Continued													
Shelbina	2.76	1.54	4.45	7.80	6.96	4.86	5.62	2.68	3.54	5.34	2.08	0.87	48.50
Silkeston	6.83	4.58	3.44	4.46	8.73	3.47	3.57	3.80	6.29	1.31	4.47	4.35	55.30
Springfield	2.53	1.55	2.97	3.94	9.77	4.78	1.01	2.97	2.37	5.55	1.10	1.61	40.15
Steelville	3.19	1.15	3.74	5.52	9.65	6.02	3.72	1.83	2.99	7.31	1.47	2.48	49.07
Steffenville	2.86	1.35	5.90	7.20	5.00	5.13	9.07	2.80	4.55	7.15	1.35	0.86	53.22
Stover	2.17	1.42	3.27	7.38	12.42	6.18	1.20	2.74	4.34	5.69	0.39	0.99	48.19
Tarkio	1.81	1.28	1.56	5.82	4.82	5.87	10.78	1.71	3.91	6.72	1.70	0.37	46.35
Trenton	3.35	2.21	1.93	8.30	2.96	6.08	6.86	1.48	3.19	7.82	1.45	0.44	46.07
Tuscumbia	2.40	1.01	4.13	5.75	7.84	3.49	2.56	2.81	3.12	5.29	0.71	1.20	40.31
Union	3.16	0.74	4.57	5.05	8.07	5.67	3.09	2.14	3.13	6.35	1.67	1.76	45.40
Unionville	4.35	1.30	1.40	6.60	2.61	4.93	7.96	3.04	5.10	7.15	1.05	0.78	46.27
Valley Park	2.68	0.32	4.02	7.58	9.88	5.11	1.90	3.21	2.57	5.11	2.01	3.53	47.92
Warrensburg	4.49	2.11	5.15	6.95	10.53	8.09	3.72	1.91	2.64	6.42	0.94	0.45	53.40
Warrenton	4.07	0.66	4.88	5.19	8.79	3.14	4.52	0.89	3.40	4.46	1.51	1.21	42.72
Warsaw	1.13	1.72	3.19	6.69	10.30	5.57	0.88	0.66	3.86	6.12	0.51	0.69	41.32
Waverly	3.51	1.55	3.84	5.01	6.29	5.10	3.05	2.90	3.44	8.18	1.03	0.41	44.31
Williamsville	6.16	3.31	4.50	6.26	7.20	3.45	8.18	5.54	3.01	3.21	1.50	4.69	57.01
Willow Springs	5.14	2.73	2.57	5.00	7.94	5.63	1.71	4.00	2.85	6.22	0.83	2.57	47.19
Montana													
Adel	3.49	[1.91]			3.18	4.31	1.42	1.15	4.45	2.40	1.45	3.44	
Agricultural College	1.54	0.75	1.26	1.11	1.98	2.84	1.42	0.54	0.87	1.63	1.00	0.83	15.77
Ashland (near)	0.59	1.11	2.33	1.10	3.20	3.08	1.13	0.56	1.17	1.85	1.16	0.53	17.81
Augusta	1.65	0.39	1.40	1.29	0.42	1.37	0.43	0.49	2.73	0.61	0.92	1.44	13.14
Babb (near)	0.48	0.56	0.17	2.15	2.33	2.34	2.63	0.04	2.22	1.71	0.78	[1.33]	15.74
Baker	1.46	1.04	2.33	0.77	6.24	2.39	1.46	0.27	1.65	0.62	1.21	0.83	20.27
Ballantine	0.74	0.42	0.86	0.67	0.73	1.33	0.36	0.11	1.29	0.57	0.24	0.41	7.73
Belton	2.23	1.96	2.06	1.60	1.97	1.45	T.	0.36	0.91	1.07	0.46	6.02	20.09
Big Sandy	0.67	1.04	0.30	0.17	1.72	2.40	0.83	0.00	2.94	0.65	0.48	1.38	12.58
Big Timber	1.14	0.83	1.88	0.40	2.09	0.83	1.55	0.56	2.08	0.60	0.58	1.28	13.82
Billings	0.80	0.63	1.06	0.50	1.25	1.06	0.95	0.23	1.66	1.14	0.77	0.64	10.69
Bridger	0.70		0.65	0.77	1.52	0.97	1.22	0.50	0.21	1.28	1.15	[0.76]	
Browning	0.49	0.30	0.68	0.60	0.75	2.61	1.15	0.15	0.91	0.74	0.36	2.58	11.32
Busby	0.45	0.62	0.75	0.57	1.00	1.33	0.70	0.36	1.91	0.80	0.89	0.23	9.61
Busteed	0.73	0.59	1.52	0.26	1.06	1.29	0.84	0.85	2.14	0.75	0.86	0.63	11.52
Butte	1.60	1.26	1.28	2.34	0.78	1.85	0.29	0.21	1.24	0.75	0.27	0.97	12.84
Canyon Ferry	0.60	0.35	0.87	0.39	1.00	0.96	0.03	0.14	1.40	0.31	1.35	1.86	9.26
Carter (near)	0.29	1.17	0.43	1.70	3.15	2.92	0.75	0.10	2.07	0.43	0.78	[1.26]	15.05
Cascade (near)	1.13	0.43	1.39	1.29	1.02	1.25	0.03	0.04	2.39	[0.60]		2.81	
Chinook	0.70	0.34	0.45	0.93	2.68	3.00	0.00	0.19	1.87	0.82	0.39	1.85	13.28
Choteau	0.52	0.23	0.48	0.72	0.64	2.53	0.70	0.15	1.92	0.50	0.21	1.67	10.27
Colstrip	0.47	0.42	0.98	[1.26]	2.07	1.16	0.56	0.23	1.65	1.33	1.23	0.66	12.02
Columbia Falls	[1.92]	0.72	1.54	1.17	1.67	2.26	0.20	0.24	1.37	1.04	0.18	1.34	13.65
Conrad	[0.40]	0.00	0.31	[1.32]	0.87	2.14	0.59	0.55	1.62	0.42	0.32	[1.12]	9.66
Conway's Ranch	1.23	1.81	2.50	2.40	1.48	1.52	2.20	0.75	2.44	0.60	0.82	1.99	19.74
Copper	1.47	0.95	1.59	0.32	0.70	0.14	0.40	0.12	1.60	0.62	0.50	3.55	11.96
Crow Agency	0.59	1.07	1.49	0.58	1.45	0.87	0.68	0.60	2.35	1.56	1.30	0.14	12.68
Culbertson (near)	0.34	0.12	0.32	0.88	3.31	1.44	0.21	0.88	0.50	0.59	0.15	0.56	9.30
Cut Bank	0.51	0.10	0.51	1.00	0.71	2.66	0.81	0.15	1.16	1.14	0.52	1.47	10.74
Darby (near)	1.35	1.10	1.57	1.43	1.13	1.08	0.40	0.36	0.43	0.55	0.15	3.62	13.17
Deer Lodge	0.59	0.79	0.73	0.69	0.75	1.74	0.31	0.45	1.02	0.39	0.20	0.92	8.58
Dillon	1.14	0.83	2.17	2.11	1.50	1.57	0.43	0.57	2.05	1.12	0.90	0.42	14.81
Drummond	0.61	0.91	1.27	0.87	0.74	0.86	0.69	0.62	0.39	0.59	0.17	1.59	9.31
Dry Land Experiment Station	0.96	0.63	0.90	1.00	0.91	1.22	0.35	0.27	1.69	0.70	1.38	0.61	10.62
Dunkirk (near)	0.39	0.56	0.50	1.32	1.62	5.47	0.84	0.03	1.56	1.13	0.05	1.43	14.90
East Anaconda	0.91	0.72	1.45	1.69	0.86	1.96	0.82	0.38	1.64	0.56	0.19	3.60	14.78
East Helena	0.58	0.46	1.16	0.30	1.09	0.84	0.10	0.25	1.51	0.24	0.26	1.98	8.77
Ekalaka	0.31	0.75	1.83	0.74	5.98	2.80	1.84	0.25	1.27	1.15	0.57	0.12	17.61
Emory	[0.32]	[0.18]	[0.26]	0.62	0.73	2.25	0.33	0.00	2.35	0.49	[0.39]	[0.96]	8.86
Ennis				0.40	0.26	1.08	0.69	0.95	1.18	0.75	0.07	0.20	
Eureka	1.19	0.50	1.20	0.54	1.09	2.01	0.25	0.91	0.89	0.98	0.18	3.63	13.37
Fairfield	0.63	0.26	0.97	1.01	0.51	2.20	0.69	T.	1.16	0.64	0.48	1.06	9.61
Flatwillow (near)	0.32	0.17	1.26	0.77	0.96	1.63	0.55	0.18	1.51	0.60	0.53	0.92	9.40
Forks (near)[1]	0.57	0.24	0.28	0.81	1.18	2.30	0.44	0.22	1.46	1.32	0.31	1.09	10.22
Fortine	1.53	0.87	1.66	0.97	1.27	2.73	0.96	0.37	0.83	0.90	0.21	4.17	16.47
Foster	0.49	0.41	0.08	0.25	0.86		0.73	0.24	0.39	0.97	0.87	[0.47]	
Frazer	0.58	0.09	0.91	0.40	1.39	2.45	0.21	0.13	0.93	1.20	0.75	0.77	9.81
Garland	0.36	[0.54]	1.28	0.35	2.79	2.66	0.57	0.56	1.64	0.75	0.62	[0.26]	12.88
Geraldine (near)	0.85	0.42	1.40	0.35	1.30	2.33	0.62	0.27	3.10	0.56	1.16	2.35	14.71
Glasgow	0.91	0.05	0.70	0.47	1.22	3.13	0.10	0.87	1.06	1.23	0.44	1.42	11.60
Glendive	0.58	0.06	0.70	0.64	3.67	5.99	0.26	0.20	1.29	0.60	0.30	0.80	14.99
Goldbutte (near)	0.52	1.36	1.26	1.42	2.25	3.22	0.50	T.	0.73	1.16	0.69	1.19	14.80
Grant	0.22	0.25	0.79	0.47	1.15	0.53	0.55	0.42	0.68	0.63	0.41	0.29	6.39
Great Falls	1.34	0.58	1.54	0.98	1.00	2.26	0.78	0.32	1.79	0.57	1.02	1.46	13.64
Hamilton	0.73	0.84	1.32	0.72	0.43	1.51	0.31	0.38	0.75	0.54	0.01	2.64	10.18
Harlowton (near)							0.00	0.00	0.66				
Haugan	3.04	1.81	3.54	2.02	1.16	2.34	T.	0.28	0.31	1.75	0.38	6.83	23.46
Havre	0.61	0.23	0.85	0.69	1.90	2.50	0.14	0.26	1.46	0.67	0.29	1.39	10.99
Hays	1.34	0.58	0.37	1.42	2.91		0.51	0.02	1.10				
Hebgen Dam	3.13	3.19	1.93	1.56	1.22	2.75	1.65	1.31	1.46	1.52	2.43	1.54	23.69
Helena	1.28	1.00	1.14	1.03	0.88	0.99	0.24	0.11	1.57	0.25	0.38	2.58	11.45
Helena Valley	0.56	0.30	0.60	0.49	0.60	1.08	0.34	0.09	1.06	0.42	0.20	2.01	7.75
Heron	[1.96]	[1.70]	4.07	2.17	1.49	2.23	T.	0.11	0.57	1.87	0.17	8.36	24.70
Highwood	1.56	1.13	1.92	1.32	2.55	4.43	0.85	0.32	2.96	0.82	1.47	1.41	20.74
Hobson								0.22	2.45				
Holter	0.61	0.55	1.19	1.21	1.58	1.47	0.59	0.25	2.14	0.79	0.67	1.60	13.65
Ingomar (near)	0.50	0.42	1.25	0.50	1.54	2.42	0.21	0.20	1.05	0.72	0.40	0.55	9.76
Kalispell	1.97	1.02	0.63	0.64	0.69	0.95	0.31	0.14	0.51	0.51	0.17	2.85	10.39
Kenilworth (near)	0.24	[0.70]			1.79	2.73	0.80	0.03	2.32	0.69		[0.50]	
Kinread	0.54	0.07	0.08		1.53	3.15	T.	0.31	1.29	0.85	0.06	[1.84]	
Knowlton (near)	[0.18]	0.43	0.64	0.13	4.33	1.82	0.66	0.20	1.61	0.61	1.03	1.13	12.77
Lewistown	1.14	1.22	1.76	0.61	3.28	3.92	1.00	0.84	1.91	1.73	1.42	2.22	20.76
Libby	0.91	0.62	1.29	0.66	0.59	1.16	0.11	0.31	0.19	0.94	0.19	4.25	11.22

[1] Name changed from White Water.

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Montana*—Continued**													
Livingston	0.43	0.91	0.95	0.44	2.38	2.22	1.71	1.26	0.76	0.74	0.57	0.52	12.89
Lonepine	1.60	0.60	0.56	0.52	0.71	1.09	0.18	0.09	0.35	0.60	0.14	2.49	8.93
Lothair	0.90	0.46	0.18	1.27	1.49	3.48	0.53	0.61	1.28	0.88	0.09	1.94	13.11
Loweth	0.66	0.17	0.90	0.41	0.73	2.40	0.22	0.36	1.19	0.36	0.51	1.44	9.35
Lustre (near)	[0.42]	------	------	[0.16]	1.36	2.12	0.20	0.39	0.93	0.54	[0.65]	1.06	------
Lytle	0.90	0.45	0.88	1.85	2.26	2.50	0.35	0.10	1.68	0.95	0.66	1.80	14.38
Malta	0.51	0.16	0.57	0.68	2.82	3.39	0.43	0.09	1.57	1.75	0.20	1.58	13.75
Medicine Lake	------	------	------	------	3.74	------	0.60	0.26	0.58	0.78	------	------	------
Melstone	[0.84]	[0.36]	------	0.24	1.00	2.00	0.10	0.40	------	0.80	[0.56]	[0.70]	------
Mildred	[0.40]	0.23	0.58	0.15	4.58	5.64	0.58	0.51	1.91	0.65	0.34	0.26	15.83
Miles City	0.90	0.38	1.72	0.70	2.24	2.94	0.70	0.28	1.86	1.05	0.49	0.53	13.79
Missoula	1.31	0.77	1.47	0.72	0.41	2.13	0.21	0.02	0.10	1.08	0.22	2.34	10.78
Mystic Lake	1.47	1.79	2.92	3.97	3.63	1.52	1.88	1.23	1.16	1.15	1.97	1.93	24.62
Norris (near)	1.38	1.03	1.69	3.02	3.36	2.06	1.60	0.92	2.53	1.39	1.10	0.85	20.93
Opheim	[0.27]	[0.18]	[0.22]	------	1.82	1.60	0.49	0.93	0.79	0.87	0.39	1.33	------
Outlook	[0.19]	0.01	[0.50]	[0.45]	3.25	0.76	0.31	0.14	0.83	1.35	0.33	0.73	8.85
Ovando	1.24	0.80	1.66	0.77	0.67	1.29	0.22	0.11	0.44	0.85	0.43	3.49	11.67
Paxton (near)	0.43	0.15	0.47	0.18	2.13	4.81	0.44	0.36	0.85	0.44	0.48	0.48	11.22
Philipsburg	[0.64]	0.72	[1.18]	0.77	1.50	2.03	0.91	0.21	0.30	0.82	0.13	[0.93]	10.14
Pipestone Dam	1.04	1.08	0.98	1.41	0.49	1.59	0.34	0.12	1.74	0.59	0.36	1.50	11.24
Pleasant Valley (near)	1.24	0.94	1.59	0.83	1.24	1.22	0.18	0.35	0.28	0.93	0.21	5.75	14.76
Plevna	0.78	0.39	0.93	0.36	5.53	2.39	0.85	0.08	1.73	0.48	0.61	0.36	14.49
Polson	1.93	[0.79]	1.00	0.98	1.37	1.58	0.21	0.35	0.27	1.13	0.04	3.77	13.42
Poplar	0.49	0.16	0.63	0.56	2.36	2.42	0.04	0.13	1.04	0.77	0.16	0.59	9.35
Red Lodge (near)	1.36	0.97	1.75	2.79	2.19	1.11	1.07	0.32	1.50	0.54	3.04	0.41	17.05
Renova (near)	0.23	0.26	0.56	0.85	0.65	1.12	0.40	0.24	1.73	0.49	0.46	0.44	7.43
Rock Springs (near)	1.41	0.95	1.19	0.66	2.03	2.88	1.95	0.17	------	------	------	------	------
St. Ignatius	1.60	0.90	1.14	1.32	1.26	2.14	0.31	0.16	0.68	1.63	0.32	2.39	13.85
Sarpy Creek	0.58	0.36	1.16	0.57	1.28	1.85	0.96	0.16	1.14	1.03	0.81	0.47	10.37
Savage	0.48	0.06	0.43	1.14	3.25	2.03	0.19	0.12	0.93	0.37	0.13	0.86	9.99
Scobey	[0.47]	0.31	------	0.85	2.16	0.39	0.34	0.62	1.02	1.10	0.13	1.04	------
Sentinel Butte Pass	0.91	0.46	0.70	0.25	1.49	2.57	0.44	0.44	0.88	0.88	1.20	1.11	11.35
Sioux Pass (near)	0.45	0.05	0.67	1.05	3.82	3.09	0.36	0.58	0.72	0.55	0.45	0.64	12.43
Snowbelt	[0.32]	0.17	1.54	0.48	1.38	2.03	1.29	0.14	1.12	0.48	------	1.03	------
Sonnette	[0.88]	1.00	1.95	0.41	4.42	------	------	------	0.36	0.81	[1.35]	0.34	------
Springbrook	0.65	0.58	1.47	0.52	2.60	3.22	0.24	0.24	0.72	0.50	0.52	2.42	13.68
Stanford	0.41	0.57	1.03	0.37	1.27	1.80	1.11	0.70	3.04	0.34	0.97	1.38	12.99
Stevensville (near)	1.09	0.49	1.54	0.61	0.63	1.19	0.27	0.46	0.37	0.82	0.08	3.19	10.74
Sun River Canyon	0.61	0.41	1.17	1.55	0.45	1.21	0.18	0.38	2.81	0.87	0.37	2.52	12.53
Sunset Orchard	[0.68]	0.64	2.46	1.46	0.77	------	------	------	------	------	------	3.22	------
Superior	1.09	0.62	0.68	0.90	0.79	2.51	0.10	0.31	0.30	1.66	0.02	4.36	13.34
Sweetgrass (near)	0.17	0.26	0.18	0.98	1.13	5.28	0.95	0.23	1.12	------	------	------	------
Thompson Falls	1.97	0.83	2.66	1.02	1.02	1.33	0.00	0.27	0.19	1.07	0.20	5.29	15.85
Three Forks	------	0.68	0.65	0.14	0.56	0.51	------	0.44	1.37	0.80	------	------	------
Trout Creek (near)	2.04	1.61	4.10	1.78	1.43	2.06	0.02	0.35	0.33	1.14	0.30	7.35	22.51
Upper Yaak River	1.01	0.77	1.51	1.35	1.33	2.57	0.37	0.44	0.72	1.04	0.15	5.87	17.13
Valentine	[0.15]	0.12	0.46	0.92	0.94	2.24	0.45	0.25	0.77	------	------	0.37	------
Valier	0.77	0.19	0.38	1.14	0.91	3.52	0.68	0.26	1.08	0.48	0.42	1.25	11.08
Victor (near)	[0.72]	[0.32]	2.82	0.62	0.51	0.82	0.33	0.08	0.60	0.79	0.24	3.34	11.19
Vida (near)	------	0.79	1.45	0.72	1.79	3.24	0.12	0.40	0.73	0.63	1.47	1.81	------
Virginia City	0.60	0.76	0.83	1.09	1.41	1.65	1.69	0.37	1.99	1.13	0.72	0.74	12.98
White Sulphur Springs	[0.33]	0.75	1.15	[0.53]	1.50	3.35	T.	T.	2.00	0.60	1.31	4.40	15.92
Winifred	0.63	0.78	0.71	0.25	1.56	0.40	0.15	0.02	0.92	0.40	0.39	1.62	7.81
Nebraska													
Ainsworth	0.31	0.90	2.16	2.31	3.40	3.55	4.63	1.44	3.86	3.28	0.76	0.22	26.82
Albion	0.50	1.40	0.24	2.59	1.82	10.19	4.75	0.97	3.23	3.82	1.38	0.10	30.99
Alliance	0.40	0.44	1.93	3.15	2.10	2.20	1.57	1.15	3.23	1.79	0.35	0.00	18.31
Alma	T.	0.45	0.00	2.77	1.93	2.69	2.32	1.28	2.17	2.69	1.07	T.	17.37
Arcadia	0.30	0.90	0.30	3.05	4.27	2.07	1.91	1.45	2.67	2.72	0.40	0.00	20.04
Arden (near)	0.32	1.13	0.91	3.41	2.51	4.57	2.45	1.27	2.34	4.11	1.41	0.11	24.54
Arthur	------	------	------	------	------	1.18	3.10	0.41	2.72	1.14	0.38	0.03	------
Ashland	0.80	1.66	0.17	3.00	2.53	3.58	3.87	1.70	1.80	4.01	1.44	0.12	24.48
Atkinson	1.15	1.40	1.69	4.32	2.94	2.27	4.12	2.35	3.44	2.40	1.12	0.40	27.60
Auburn	2.05	1.75	1.14	8.30	4.71	10.13	14.33	1.17	2.48	9.16	1.58	0.35	57.15
Aurora	------	1.15	0.10	3.22	1.85	4.34	1.34	4.06	2.34	4.11	0.58	0.07	------
Beatrice	1.15	1.15	0.16	5.03	3.00	6.77	2.23	1.74	1.99	5.60	0.79	T.	29.61
Beaver City	0.07	0.73	0.07	3.77	3.42	5.02	3.72	1.10	2.12	2.37	1.03	0.05	23.47
Benkelman	0.08	1.19	0.39	1.74	2.56	2.79	4.38	0.80	2.47	2.10	1.21	0.23	19.94
Bertrand	0.10	1.30	T.	2.49	2.68	1.24	1.04	0.79	1.58	2.57	1.26	0.00	15.05
Blair	0.56	1.22	0.62	3.75	1.61	4.19	4.40	2.26	1.68	3.41	1.06	0.16	24.92
Bloomfield	0.97	1.35	0.80	3.10	4.27	4.34	2.91	3.31	1.54	1.28	0.30	T.	24.17
Bradshaw	0.05	0.80	0.15	3.51	1.26	5.14	0.94	1.35	3.24	5.53	0.10	T.	22.07
Brewster	0.10	0.87	1.31	1.63	3.13	2.87	1.76	2.31	3.64	1.60	0.46	T.	19.68
Bridgeport	T.	0.48	0.95	3.23	2.98	2.09	0.81	2.72	2.99	1.86	0.84	0.04	18.99
Broken Bow	0.25	0.88	0.62	3.83	4.71	2.75	1.97	2.32	2.92	2.09	0.71	0.05	23.10
Bruning	0.29	0.95	0.02	3.02	2.42	3.51	2.05	2.83	2.18	4.27	1.16	0.12	22.82
Burwell	0.30	1.65	1.42	4.13	4.32	3.23	1.14	1.25	2.72	3.55	0.62	0.00	24.33
Butte	0.61	0.46	1.14	3.57	1.33	4.46	2.80	1.94	8.06	3.16	1.12	0.20	28.85
Cairo	0.05	0.81	0.11	1.66	1.43	2.99	2.47	1.59	2.26	3.60	0.72	0.00	17.69
Cambridge	0.40	2.00	0.01	2.61	5.13	2.68	1.53	0.44	1.76	2.46	1.50	0.00	20.52
Central City	0.04	0.88	T.	2.65	2.90	2.79	3.24	0.38	2.59	4.77	0.42	0.03	20.69
Chadron	0.50	0.47	3.10	2.49	1.00	2.68	1.33	1.34	2.35	1.88	0.81	0.03	17.98
Clay Center	0.02	1.00	T.	2.59	2.15	1.00	3.05	0.27	2.63	4.20	0.80	0.00	17.71
Columbus	0.34	1.32	0.21	4.08	3.57	4.08	3.56	1.29	3.46	4.28	1.18	0.05	27.42
Crete	0.57	1.09	0.01	3.45	4.16	3.19	2.86	0.78	1.92	5.15	1.21	0.04	24.43
Culbertson	0.20	0.75	0.05	1.86	5.31	2.54	1.67	0.38	2.53	1.62	1.28	0.00	18.19
Curtis	0.60	0.40	0.03	6.18	3.18	1.78	1.85	2.25	3.06	1.76	1.33	0.00	22.42
Dalton	0.05	0.62	0.70	3.97	1.26	1.66	3.18	2.21	2.98	1.97	1.14	0.20	19.94
David City	0.47	1.36	0.22	3.51	2.18	3.26	3.73	2.61	3.34	5.66	1.98	0.26	28.58
Dumas	0.25	1.20	0.80	4.25	5.25	2.37	2.89	0.95	0.85	3.10	0.55	0.30	22.71
Elsie	0.08	0.39	0.26	6.09	2.52	1.87	2.13	0.09	3.42	1.82	1.12	0.02	19.81
Ericson (near)	0.35	0.80	0.22	4.42	4.26	0.73	1.13	------	2.65	3.36	0.85	0.05	------
Ewing	0.18	0.93	0.62	2.72	3.25	1.85	3.33	0.84	2.43	3.73	0.96	0.20	21.09
Fairbury	1.07	1.04	0.09	4.13	4.74	3.39	1.16	0.99	1.94	5.09	1.81	0.04	25.49

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Nebraska—Continued													
Fairmont	0.25	0.82	T.	3.14	2.28	4.26	3.96	2.02	2.68	4.03	0.91	0.05	24.40
Falls City	1.87	2.34	1.17	6.26	4.66	7.80	5.63	2.75	2.04	6.97	2.04	0.05	43.58
Fort Robinson	0.16	0.74	0.93	2.28	3.40	3.30	3.95	1.10	3.45	1.90	0.45	0.00	21.66
Franklin	0.05	0.48	T.	2.69	1.99	3.34	1.35	1.70	2.49	3.75	1.19	T.	19.03
Fremont	0.31	1.03	T.	4.25	2.78	2.82	4.74	1.41	1.57	3.53	1.61	0.04	24.09
Friend	0.49	0.92	T.	2.94	3.45	3.37	5.76	2.88	1.35	4.50	1.19	0.05	25.50
Fullerton				2.52	1.02	3.02	2.31	0.67	2.20			0.00	
Geneva	0.49	1.19	0.04	3.22	4.10	4.07	2.02	2.32	2.63	4.87	1.39	T.	26.34
Genoa	0.27	0.68	0.17	3.24	2.01	3.95	1.60	0.74	3.63	4.96	1.31	T.	22.56
Gordon	0.27	0.55	2.17	1.16	1.88	3.83	3.13	1.01	2.75	2.07	0.42	0.11	19.35
Gosper	0.11	0.60	0.05	3.79	3.90	2.56	1.61	1.25	2.06	2.92	0.99	0.06	19.90
Gothenburg	0.40	1.30	0.24	5.02	2.76	1.78	1.71	0.58	3.24	1.73	1.19	T.	19.95
Grand Island	0.20	0.94	0.12	2.64	1.63	3.29	2.86	1.11	3.92	4.14	0.89	0.02	20.86
Greeley	0.36	0.71					2.60	0.75	3.25	3.70			
Guide Rock	0.12	1.15	T.	3.08									
Haigler	T.	0.70	0.18	2.66	1.95	2.18	3.42	1.54	2.53	2.62	0.75	0.00	18.33
Halsey	0.60	1.70	1.22	2.76	2.92	2.58	2.49	3.30	3.28	0.91	0.42	T.	22.58
Harrison	0.40	1.00	3.00	4.26	3.15	2.52	2.22	1.02	2.24	2.34	1.45	0.20	23.80
Hartington	0.75	1.20	0.56	4.18	5.34	5.41	2.90	2.32	3.22	2.81	0.90	0.40	29.99
Hastings	0.10	0.55	T.	2.97	1.34	1.21	3.33	0.43	2.26	3.61	0.85	T.	16.65
Hayes Center	0.26	0.86	0.35	4.36	3.69	1.13	2.83	1.24	5.52	2.11	1.40	0.14	21.29
Hay Springs	0.43	0.85	3.76	2.79	2.16	3.90	1.91	3.13	2.83	2.08	1.85	0.05	25.74
Hebron	0.30	0.90	T.	2.50	2.35	4.25	1.85	3.15	2.35	4.20	0.40	T.	22.25
Holdrege	0.11	0.94	0.27	2.43	1.20	1.67	1.16	1.60	2.52	2.95	1.22	0.03	16.10
Hull (near)	T.	0.34	1.64	3.93	0.80	3.40	0.55	1.00	2.95	1.20	0.60	0.11	16.52
Hyannis	0.06	0.87	1.34	1.16	1.99	1.48	5.21	0.66	1.92	1.43	0.63	0.09	16.84
Imperial	0.25	1.30	0.44	4.63	2.32	3.45	4.53	0.67	3.92	2.40	1.46	0.13	25.50
Kearney	0.05	0.75	0.12	1.75	1.94	1.74	1.48	1.11	2.44	4.46	1.18	T.	17.02
Kimball	T.	0.60	0.90	4.73	1.13				2.09	2.03	1.30	0.00	
Kowanda	T.	0.85	0.40	3.40	1.01	0.30	2.79	1.38	2.27	1.33	0.38	T.	14.11
Lake Minatare	0.28	0.46	1.52	2.22	1.52	2.60	1.26	0.93	2.88	1.13	0.42	T.	15.22
Lebanon	0.20	1.60	T.	2.25	5.20	4.02	3.57	0.07	1.70	2.66	1.50	T.	22.77
Lexington	0.14	0.96	T.	2.82	3.72	3.40	3.63	0.36	3.53	3.34	1.07	T.	22.97
Lincoln (Weather Bureau)	0.61	1.06	0.08	2.93	3.28	1.86	5.32	0.92	1.82	4.57	1.04	0.02	23.51
Lincoln (Agronomy Farm)	0.80	1.08	0.03	3.25	2.54	2.62	8.08	0.45	1.98	4.76	1.13	0.05	26.77
Lincoln (College View)	0.62	1.03	0.07	3.08	2.72	2.43	5.89	0.89	2.03	4.88	0.91	0.05	24.60
Lincoln (University Farm)	0.74	1.25	0.10	3.34	2.42	2.12	6.08	0.80	1.91	4.75	1.44	0.21	25.16
Lodgepole	0.30	1.10	0.55	3.14	1.18	1.28	4.28	1.26	2.93	1.54	1.39	T.	18.97
Loup City	0.05	0.85	0.21	1.85	1.89	3.08	3.32	1.98	3.11	2.88	0.59	T.	20.69
Lyman	0.35	0.45	1.75	2.95	1.31	2.57	0.74	0.71	5.44	1.85	0.86	0.15	19.13
Lynch	0.66	1.33	2.22	3.08	5.20	3.26	3.34	3.24	5.15	1.44	0.90	0.15	32.97
McCook	0.18	1.16	0.34	1.66	3.40	4.42	2.66	1.18	2.23	1.40	1.80	0.14	20.57
McCool Junction	T.	0.80	T.	3.24	2.37	2.42	3.32	1.26	3.11	4.56	0.73	0.00	21.81
Madison	0.30	1.30	0.45	2.32	1.45	5.93	2.64	1.39	3.64	3.17	0.95	0.05	23.69
Madrid	0.20	0.70	0.60	3.55	1.89			0.15	2.10	2.12	0.73	0.04	
Mary	0.72	1.60	2.12	3.75	2.54	2.73	3.27	2.21	2.74	1.96	1.00	0.02	24.66
Mason City	0.20	0.90	0.40	2.25			2.55						
Merriman	0.04	0.67	1.60	3.26	2.77	3.12	5.28	0.66	3.37	1.80	0.91	0.08	23.62
Minden	T.	1.00	0.07	1.35	1.96	2.07	1.24	0.40	2.27	2.96	0.95	0.00	14.21
Mitchell (near)	0.07	0.19	0.82	2.44	1.64	3.04	0.74	0.54	3.08	1.04	0.31	0.00	13.91
Mullen										1.90	0.60	0.01	
Nebraska City	0.81	1.78	0.69	6.64	4.71	4.47	12.42	1.65	3.23	7.51	1.64	0.19	45.74
Neligh	0.49	1.85	1.12	2.86	3.22	2.85	3.52				1.20	0.20	
Nelson	0.17	1.38	0.02	2.94	3.22	2.61	1.91	0.78	2.21	4.05	1.47	0.06	20.82
Nenzel	0.40	0.68	2.56	1.75	2.25	2.53	3.97	0.49	3.18	1.52	0.98	0.04	20.35
Newport	0.51	1.25	2.60	3.68	2.39	4.02	4.40	2.11	4.65	2.63	0.94	0.15	29.33
Norfolk	0.29	1.09	0.95	1.98	3.94	6.09	3.84	1.89	3.45	2.94	0.88	0.14	27.48
North Loup	0.30	1.55	0.17	1.74	3.39	6.53	1.62	1.20	3.10	3.70	0.56	0.03	23.98
North Platte	0.23	0.44	0.28	3.83	2.58	1.24	2.06	6.17	2.22	1.62	0.48	0.01	21.16
Oakdale	0.27	0.97	0.98	2.87	3.38	3.60	3.30	0.98	2.52	3.50	0.71	0.10	23.18
Ogallala	0.22	0.76	0.60	2.72	1.65	0.55	2.27	0.69	3.04	1.48	0.60	T.	14.58
Omaha	1.15	2.20	0.54	3.98	2.02	2.94	5.04	1.56	2.05	2.69	1.38	0.14	25.60
O'Neill	0.65	0.86	1.98	3.82	5.80	3.27	3.59	3.01	4.94	3.02	0.96	T.	31.90
Ord	0.36	1.29	0.42	4.41	5.16	3.56	1.76	1.79	3.30	3.10	0.73	0.01	25.89
Orleans	0.00	0.60	T.	3.48	1.74	1.36	3.13	0.80	2.05	4.71	1.65	0.00	19.52
Osceola	T.	1.55	0.05	2.40	2.10	2.72	2.36	0.69	3.64	4.33	1.05	0.00	20.89
Oshkosh	0.35	0.96	0.53	2.68	1.16	1.07	4.30	1.26	2.36	1.28	0.75	T.	16.70
Osmond							4.43	1.18	2.47	3.29	0.49	0.04	
Pawnee City	1.74	1.10	0.96	4.29	7.98	6.90	3.91	1.82	2.70	7.15	1.50	0.30	40.35
Paxton	0.27	0.98	0.27	2.43	2.42	1.01	2.18	1.59	3.27	1.91	0.85	0.00	17.18
Peru	1.13	1.12	0.85	8.05	3.41	6.55	16.21	1.14	3.35	7.69	1.54	0.02	51.06
Plattsmouth	0.90	1.75	0.62	3.71	3.93	3.55	9.70	1.71	2.42	4.46	1.72	0.30	34.77
Potter	0.08	1.69	0.86	6.04	1.21	2.50	3.03	0.80	2.35	2.52	2.00	0.04	23.12
Purdum	0.68	1.81	2.17	2.21	2.31	3.74	2.99	1.91	3.27	1.19	0.70	0.10	23.08
Ravenna	0.09	0.80	0.04	1.37	1.92	2.69	2.27	2.44	2.10	3.01	0.78	0.09	17.60
Red Cloud	0.05	0.81	0.02	3.46	3.27	2.86	1.41	0.13	2.12	3.23	1.07	0.05	18.49
St. Paul	0.05	0.71	0.03	2.35	1.34	2.66	4.09	1.55	3.39	4.50	0.54	T.	21.21
Santee	0.62	0.42	1.48	2.93	4.73	3.89	1.87	1.13	3.99	3.28	0.57	0.25	25.16
Sappa Valley	0.10	0.81	0.03	3.34	2.55	3.50	6.14	1.30	2.02	2.00	1.35	0.19	23.33
Schuyler	0.29	1.14	0.18	6.01	2.37	4.88	4.77	1.83	3.13	3.90	1.48	T.	29.98
Scottsbluff	0.18	0.51	1.70	3.12	1.20	2.60	1.79	0.77	3.25	1.63	0.92	T.	17.67
Seward	0.26	1.90	0.16	3.42	2.72	2.43	3.87	2.15	2.59	4.15	1.23	0.19	25.07
Sheep Creek Camp No. 5	0.15	0.25	0.90	2.72	2.00	2.83	1.39	0.42	2.60	1.29	0.60	0.02	14.93
Sidney	0.04	0.90	1.30	4.03	0.86	1.37	2.06	1.55	4.35	1.32	1.06	T.	18.84
Sidney (near)	0.43	1.35	0.77	4.32	1.58	2.59	2.61	1.52	3.12	2.54	1.15	0.05	22.03
Springview	0.15	0.29	1.55	3.00	2.42	6.92	1.92	1.99	3.05	2.28	0.91	0.00	24.48
Stanton	0.35	1.30	0.10	2.12	1.28	6.26	3.07	2.67	3.17	2.84	0.86	0.10	24.12
Stapleton	0.25	0.70				0.62	1.46	3.73	4.68	1.65	0.54	T.	
Stratton								0.59	3.23	2.00	1.24	0.00	
Sutherland	0.25	0.40	0.20	3.19	2.12	9.97	2.10	1.17	3.25	1.59	0.71	0.00	15.96
Syracuse	1.42	1.70	0.37	3.89	4.07	3.83	9.40	0.82	2.15	6.28	1.23	0.05	35.21
Table Rock	1.54	1.22	0.96	5.52	4.23	9.90	6.77	1.38	2.17	8.02	1.41	0.16	43.28
Taylor	0.40	1.20	0.87	4.30	5.31	2.05	2.70	1.64	3.06	3.29	0.36	0.01	25.19
Tecumseh	1.63	1.58	0.53	6.47	4.95	5.97	4.33	1.89	1.55	6.86	1.74	0.05	37.55
Tekamah	0.58	1.61	0.37	4.29	1.65	5.09	6.03	1.84	2.73	3.23	0.98	0.78	29.18

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Nebraska—Continued													
Upland	T.	1.12	0.25	2.33	1.60	0.65	1.45	0.60	2.08	2.80	1.05	0.00	13.93
Utica	0.38	1.05	0.02	3.56	2.07	2.67	2.67	1.92	2.50	4.20	0.90	0.06	22.00
Valentine	1.13	1.03	2.56	2.44	3.08	3.69	5.49	2.60	2.10	3.01	1.37	0.41	28.91
Virginia	1.06	0.90	0.31	5.66	6.72	5.16	1.25	1.55	1.77	6.66	1.08	0.40	32.52
Wahoo	0.24	1.25	0.35	3.33	2.71	5.38	4.34	1.71	2.42	3.74	1.90	0.07	27.44
Wakefield	0.12	0.95	0.67	3.36	2.36	6.45	6.84	2.45	3.03	2.91	0.62	0.05	29.81
Walthill	0.42	1.40	0.80	2.28	1.85	7.62	3.97	2.85	3.17	3.00	0.66	0.17	28.19
Watertown	T.	1.00	0.23	3.02	2.38	3.55	1.67	0.66	2.42	3.57	1.02	0.00	19.52
Wauneta	0.20	0.88	0.09	3.66	3.48	1.86	2.44	0.68	2.73	1.54	0.74	0.05	18.35
Weeping Water	1.01	1.98	0.40	3.55	3.37	5.46	8.99	0.73	2.44	5.49	2.32	0.10	35.84
Western	0.40	1.10	T.	2.48	4.60	5.45	5.62	0.72	0.75	4.11	1.38	0.00	26.61
Westpoint	0.38	2.26	0.40	3.27	3.61	3.19	3.51	1.84	2.51	3.47	0.90	0.07	25.44
York	0.17	1.37	0.03	2.99	2.08	2.40	4.90	1.07	2.73	5.93	0.73	0.02	24.42
Nevada													
Alamo	0.23	0.60	0.43	0.29	0.10	T.	0.49	0.32	0.17	0.00	0.00	0.00	2.63
Arthur	2.54	0.92	1.37	1.34	0.33	1.77	0.13	0.63	0.92	0.09	T.	2.89	12.93
Austin	0.97	1.07	2.39	1.66	0.23	0.72	0.83	0.98	1.07	0.18	0.00	0.55	10.65
Battle Mountain	0.85	0.92	0.91	1.11	T.	0.30	0.00	0.25	0.30	0.00	0.00	0.45	5.09
Beatty	0.41	0.45	0.10	T.	T.	T.	0.04	0.72	0.00	T.	0.00	0.00	1.72
Beowawe	0.87	0.43	0.40	0.48	T.	0.11	0.03	T.	0.04	0.04	0.01	1.51	3.92
Caliente	0.49	0.35	0.21	0.00	0.00	0.00	0.01	0.09	0.36	0.00	0.00	0.00	1.51
Carson City	0.13	0.97	1.48	0.76	0.06	1.20	0.48	0.04	T.	0.02	0.00	2.70	7.87
Clay City	0.42	0.43	0.00	0.21							0.00	0.00	
Elko	1.55	0.38	0.87	1.50	0.08	1.05	T.	T.	0.68	T.	0.00	0.73	6.84
Eureka	0.52	0.38	2.10	0.81	0.06	0.65	0.74	1.02	1.11	0.05	0.00	0.27	7.71
Fallon	0.28	0.53	0.70	0.19	0.00	0.26	0.02	0.03	0.00	0.02	0.00	0.19	2.22
Gerlach (near)	0.39	0.90	0.50	0.24	T.	0.45	T.	T.	0.00	0.00	0.00	0.56	3.04
Goldconda	0.35	0.25	0.29	0.30	0.00	0.10	0.50	0.06	0.03	0.00	0.00	0.22	2.10
Gold Creek	3.80	1.04	1.65	1.90	0.65	1.38	0.00	0.81	0.59	0.53	0.09	1.35	13.79
Goldfield	0.78	0.58	0.60	0.02	0.04	0.02	0.00	T.	0.15	T.	0.00	0.00	2.19
Hylton	1.16	0.52	1.14	1.59	0.38	1.56	0.15	0.40	1.20	0.32	0.00	0.72	9.14
Imlay	0.33	0.21	0.38	0.20	0.00	0.06	0.00	0.00	0.00	T.	0.00	0.50	1.68
Kimberly	0.62	0.93	1.35	2.00	0.29	0.88	0.81	2.06	2.04	0.00	0.00	0.02	11.00
Lahontan	0.13	0.22	0.50	0.28	0.00	0.44	T.	0.00	0.00	0.00	0.00	0.41	1.98
Lamoille	1.17	0.66	2.14	2.76	0.61	2.56	0.11	1.50	1.06	0.41	T.	0.52	13.50
Las Vegas	0.55	0.22						0.84	0.70	0.00	0.00	0.00	
Logandale	0.50	0.37	0.01	0.05	0.00	0.00	0.03	0.37	0.02	0.00	0.00	0.00	1.35
Lovelock	0.08	0.11	0.34	0.37	0.00	0.35	0.00	0.30	0.00	0.00	0.00	0.28	1.83
McGill	0.46	0.28	0.72	0.52	0.33	0.55	0.39	2.92	0.99	0.15	0.00	0.25	7.56
Mahoney Ranger Station	3.71	1.39	2.57	0.76	0.34	2.27	T.	0.25	0.52	0.80	0.40	0.86	13.87
Marlette Lake												5.99	
Millett	0.41	0.35	0.78	0.66	0.31	0.18	0.31	2.88	1.28	0.68	0.00	0.34	8.18
Mina	0.21	0.32	0.26	0.20	T.	0.83	0.07	0.75	0.10	0.00	0.00	0.00	2.74
Minden	0.21	0.84	0.53	0.62	0.01	0.62	0.05	0.06	0.00	T.	0.00	1.36	4.30
Montello	0.68	T.	0.46	0.84	0.20	1.25	0.15	0.15	0.00		0.00	0.25	
Nixon	0.10	0.36	0.70	0.14	0.00	0.91	0.00	0.00	0.00	0.04	0.00	0.44	2.69
North Fork	1.80	0.50	1.49	1.53	0.30	0.60	0.00	0.85	1.00	0.20	T.	1.33	9.60
Orovada	0.97	1.26	1.23	1.37	0.14	0.83	T.	T.	T.	0.18	T.	0.68	6.66
Owyhee	1.37	0.33	1.34	1.24	T.					0.32	0.14	1.36	
Paradise Valley	1.26	0.53	0.35	0.63	T.	0.33	T.	0.12	0.00	0.05	0.00	1.03	4.30
Reno	0.44	1.08	0.67	0.66	0.01	1.12	0.10	0.53	0.03	0.03	0.00	1.74	6.41
Rye Patch	0.23	0.57	0.74	0.89	0.02	0.98	0.00	0.02	0.00	0.07	0.00	1.03	4.55
Sand Pass	0.15	0.63	1.43	0.25	0.01	0.74	0.00	T.	0.00	0.04	0.00	2.00	5.25
San Jacinto	1.39	T.	1.32	1.00		1.16	0.16	1.15		T.	0.00	0.40	
Schurz	0.26	0.47	0.50	0.35	0.10	1.34	T.	0.12	0.35	0.00	0.00	0.08	3.57
Searchlight	0.20	0.20	0.00	0.10	0.00	0.00	0.30	2.60	0.10	0.00	0.00	0.00	3.50
Sharp	0.85	1.19	0.67	0.98	0.72	0.60	0.08	5.07	0.15	0.05	0.00	0.05	10.41
Smith	0.38	0.63	0.47	0.27	0.60	1.10	0.24	0.01	0.00	0.00	0.00	0.64	4.34
Sulphur	0.15	0.20				0.46	T.	T.	0.00	0.00	0.00	0.14	
Thorne	0.13	0.12	0.30	0.18	0.00	1.06	0.14	0.18	0.00	0.00	0.00	0.00	2.11
Tonopah	0.70	0.10	0.20	0.22	T.	0.04	T.	1.70	0.40	T.	0.00	T.	3.36
Tuscarora (near)	2.72	1.53	1.91	2.07	0.39	1.66	T.	2.09	0.39	0.33	0.20	1.92	15.21
Winnemucca	0.59	0.68	0.55	0.93	0.06	0.28	0.01	0.06	0.06	0.01	0.00	0.72	3.85
Yerington	0.13	0.55	0.62	0.28	T.	0.60	0.00	0.00	0.00	T.	0.00	0.10	2.28
New Hampshire													
Arlington Mills	3.12	3.88	4.03	5.26	3.57	1.68	1.51	2.91	1.63	1.81	2.32	2.68	34.40
Berlin	3.20	2.26	2.89	4.19	3.92	2.62	2.39	2.76	1.07	2.13	2.47	3.71	33.61
Bethlehem		2.07	1.47	2.81	3.47	3.45	2.96	2.63	2.25	1.78	0.86	1.86	
Concord	3.00	3.70	3.78	3.40	4.30	1.72	1.10	3.00	2.23	2.06	2.37	2.17	32.83
Durham	3.01	3.76	3.52	5.55	3.22	3.15	1.39	4.51	1.67	3.31	3.02	2.77	38.88
Errol	3.16	1.78	2.66	4.26	4.52	3.21			2.59	2.54	2.69	2.92	
Franklin	3.61	3.82	2.68	4.57	4.43	3.92	1.07	3.74	3.05	1.82	2.96	3.58	39.25
Glencliff	2.11	2.41	3.64	4.75	5.22	5.70	2.61	3.82	2.64	3.84	2.22	3.43	42.39
Hampton							1.05	2.17	2.95	2.38	3.25	4.19	
Hanover	2.26	2.46	1.91	4.57	3.65	3.20	2.26	2.30	4.58	1.80	1.46	2.04	32.49
Jeremy Hill				5.23	3.95	2.87	1.26	1.97	1.17				
Keene	3.71	3.51	3.59	4.79	4.03	4.06	1.07	2.19	2.04	1.38	2.11	3.81	36.29
Lakeport	4.64	4.56	4.00	4.37	4.78	2.36	1.64	2.99	2.99	1.71	2.95	4.16	41.15
Lancaster	2.09	1.84	3.75	4.03	4.42	3.92	3.75	3.79	0.81	2.49	3.14	3.29	37.32
Lincoln	4.37	3.11	4.30	5.37	6.71	6.30	2.52	3.82	2.32	2.92	2.96	5.26	49.96
Littleton	1.87	2.21	3.49	3.82	3.73				5.22	2.01	2.30	4.07	
Manchester			4.50	4.26	3.95	3.75	0.93	4.38	2.01	1.62	2.48	2.79	
Milan	3.40	2.41	4.27	4.54	3.84	2.82	2.10	2.92	1.81	1.99	2.66	3.89	36.65
Nashua	3.86	4.48	3.92	5.03	3.06	2.58	0.75	2.02	1.28	2.02	2.55	2.51	34.06
New Durham	4.71	4.41	2.99	3.29	2.96	1.66	0.71	2.11	2.81	1.93	2.14	3.73	33.45
Newport	3.25	3.64	3.78	4.95	4.09		1.95	3.43	3.51	1.43	2.24	3.51	
Pittsburg (a)	3.23	1.71	3.95	5.47	5.85	6.29	4.00	4.64	3.34	4.74	2.84	3.61	49.67
Pittsburg (b)	4.80	3.40	4.26	5.80	6.80	7.15	4.85	3.97	3.30	4.87	3.42	4.51	57.13
Plymouth	3.28	3.07	3.73	4.84	4.67	2.80	1.53	3.21	3.00	2.74	2.54	3.87	39.28
Waterville				2.22	3.46	1.00	1.88	3.72	3.57	3.66			
West Stewartstown	2.24	1.36	2.67	4.12	4.41	6.47	3.88	4.38	3.57	2.86	2.42	3.46	41.84
Woodsville	1.67	1.44	2.84	3.67	3.86	2.56	1.87	3.28	2.88	1.68	1.94	3.13	30.82

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
New Jersey													
Asbury Park	3.06	3.50	3.88	5.30	2.92	3.70	2.22	1.27	4.31	3.75	2.09	1.00	37.00
Atlantic City	3.02	4.33	3.25	5.63	1.93	2.92	1.20	2.42	2.12	4.30	3.19	2.67	36.05
Bayonne	2.88	4.90	4.19	5.69	4.19	1.88	1.00	1.70			2.21	2.06	
Belleplain	2.96			6.04	2.69	2.64	0.62	1.51	2.42	[3.90]	2.29	[2.45]	
Belvidere	4.65	4.81	2.65	7.15	3.66	3.77	1.97	4.16	4.05	5.65	3.08	4.26	49.86
Boonton	3.76	2.88	2.77	7.30	3.97	2.15	0.87	1.70	4.75	4.86	2.41	3.47	40.89
Burlington	3.12	3.94	2.34	6.22	2.31	2.53	1.35	4.00	7.51	4.73	3.29	3.59	44.93
Cape May	1.92	4.76	3.14	4.63	1.26	1.41	1.86	1.86	2.19	2.62	2.48	1.68	29.81
Charlotteburg	5.03	3.07	2.76	7.17	3.88	3.76	1.23	2.30	3.92	7.35	2.91	3.65	47.03
Chatham	4.43	5.92	4.62	8.07	5.14	2.84	1.36	2.89	4.24	5.39	3.20	4.12	52.22
Culvers Lake	3.10	3.60	2.28	5.93	3.49	3.79	3.93	4.18	4.77	3.25	2.55	2.85	43.63
Dover	4.50	3.94	2.61	7.27	3.47	4.46	0.80	1.52	4.98	4.88	2.60	3.39	44.42
Elizabeth	3.25	4.50	4.38	5.99	3.71	2.02	1.76	3.20	5.47	4.26	2.44	2.46	43.44
Flemington	3.58	3.96	3.04	6.35	4.04	3.48	1.79	3.56	7.11	4.21	3.21	3.49	47.82
Hightstown	2.95	3.39	1.92	6.66	3.70	3.86	1.47	1.27	8.24	4.03	2.35	2.69	42.53
Indian Mills	4.19	5.00	4.01	6.02	1.83	3.91	1.44	3.97	4.72	5.26	2.99	2.39	45.75
Jersey City	3.01	4.39	3.67	5.85	3.97	2.55	1.05	1.27	3.94	5.18	2.14	3.15	40.17
Lakewood	4.25	4.96	3.25	8.74	2.83	4.32	2.38	2.82	4.61	5.20	3.48	2.59	49.43
Lambertville	3.91	3.83	2.60	5.85	3.16	2.15	1.02	1.96	4.36	4.85	2.64	3.30	39.63
Layton	2.62	3.34	3.56	5.69	3.66	4.03	3.76	1.71	5.40	3.88	3.12	2.27	43.04
Little Falls	4.06	4.41	3.53	7.60	4.15	3.41	1.08	3.29	3.54	6.37	2.93	3.46	47.83
Long Branch	4.67	4.11	3.22	7.84	4.11	2.87	2.07	0.94	3.04	5.92	3.46	3.26	45.51
Moorestown (No. 1)	2.92	3.75	2.51	5.84	2.50	2.37							
Moorestown (No. 2)	2.81	3.87	2.47	5.79	2.42	2.41	2.09	2.35	6.86	4.19	3.21	3.79	42.26
New Brunswick	2.78	3.69	2.22	6.90	3.93	5.37	2.94	2.41	5.59	4.11	2.21	2.93	46.08
New Milford	2.63	3.87	3.47	6.34	3.82	1.76	0.83	2.32	5.91	3.50	2.32	2.93	37.70
Newton	3.07	2.76	1.94	[5.74]	2.80	5.41	2.75	3.09	3.49	3.81	2.53	2.55	39.94
Northfield	3.61	4.14	2.92	5.92	1.84	2.90	1.19	2.06	2.60	4.93	2.83	2.30	37.24
Paterson	4.12	4.82	3.53	6.75	4.38	2.26	0.51	2.56	4.01	4.62	2.72	3.40	43.68
Phillipsburg	3.42	4.13	2.16	6.90	2.97	4.60	0.98	4.08	7.20	4.84	2.96	2.47	46.71
Plainfield	3.22	3.57	3.55	5.67	4.49	2.11	1.63	4.86	6.90	4.71	2.82	3.67	47.20
Pleasantville	3.97	4.33	2.93	6.14	3.86	2.67	1.14	2.28	3.06	4.65	3.09	2.43	40.55
Ridgefield	3.46	4.61	3.84	6.22	3.96	2.39	1.92	1.64	3.30	4.08	2.28	3.24	40.94
Runyon	3.74	5.17	2.40	7.80	4.55	3.92	2.78	1.72	4.37	5.19	2.65	3.30	47.59
Sandy Hook	3.80	3.72	2.38	5.08	4.86	2.34	1.90	0.88	4.89	4.72	2.08	3.19	39.84
Somerville	3.41	3.87	3.40	6.31	3.05	2.41	2.58	2.58	7.61	3.82	2.59		
South Orange	3.26	3.41	3.07	6.77	5.58	2.05	1.79	3.67	4.54	5.35	2.82	2.68	44.90
Sussex	2.87	3.20	2.52	5.65	4.02	4.20	[3.02]	3.73	3.60	3.95	3.09	2.61	42.44
Trenton (Weather Bureau)	3.06	3.51	2.34	5.34	3.53	3.53	0.63	2.64	7.14	3.51	2.24	3.08	40.55
Trenton (No. 2)	3.14	3.61	2.60	5.95	3.18	3.41	0.63	3.34	6.72	4.44	2.35	3.27	42.64
Tuckerton	3.99	3.89	3.10	6.72	2.75	3.33	0.78	3.22	2.77	4.53	3.64	2.70	41.42
Verona	4.16	4.73	3.97	8.04	4.07	3.12	0.74	2.56	4.42	5.34	2.95	3.59	47.69
Woodcliff Lake	3.84	4.27	3.77	7.49	3.42	2.68	0.61	3.00	5.29	4.76	2.28	4.34	45.75
New Mexico													
Abbott	0.08	0.22	1.90	0.10	3.75	2.25	6.07	4.31	1.99	0.64	0.58	0.07	21.96
Agricultural College	0.02	0.19	0.84	0.06	0.93	0.22	2.16	1.94	0.61	1.09	0.90	0.26	9.22
Alamogordo (No. 1)	0.04	0.30	0.22	0.00	1.08	T.	2.06	3.26	0.74	1.09	0.90	0.26	9.97
Alamogordo (No. 2)	T.	0.31	0.32	0.00	1.98	T.	2.25	3.40	0.55	0.95	1.20	0.31	10.37
Alamos Ranch	0.20	0.55	0.30	0.00	4.47	0.00	5.15	3.51	4.13	0.76	1.36	0.07	20.50
Albuquerque	0.05	0.35	0.08	0.08	3.56	T.	1.23	1.44	3.31	1.56	0.74	0.18	12.58
Amistad	0.02	0.28	1.64	0.00	2.19	1.39	2.72	3.57	0.95	0.75	0.76	0.12	14.39
Ancho	0.33	0.85	0.34	0.00	1.02	0.67	6.85	2.20	1.00	0.73	0.14	0.00	14.13
Animas	0.37	0.35	0.00	T.	0.10	0.00	3.35	3.10	3.30	1.75	0.50	0.50	13.32
Arch					4.14	2.01	0.82	1.66	1.18	1.49	0.34	T.	
Artesia	T.	0.68	0.24	0.01	4.14	2.20	1.51	0.73	1.14	0.72	0.99	0.12	12.48
Aspen Grove Ranch	2.01	1.13	1.50	0.75	3.35	0.14	4.58	5.55	3.56	3.22	0.94	0.15	26.88
Augustine	0.30	0.45	0.90	0.00	3.70	0.31	4.15	6.30	3.65	0.65	0.40	0.12	20.73
Aurora	0.17	0.77	0.80	0.08	4.08	0.65	4.75	4.25	3.25	0.32	1.05	0.17	20.34
Aztec	0.24	0.29	0.54	0.04	1.10	T.	1.75	5.65	2.69	T.	0.32	0.12	12.74
Baca Ranch Ranger Station		1.02	0.78	0.00	3.69	0.16	3.83	1.88					
Batemans Ranch	1.65	1.36	1.48	0.86	2.84	0.56	4.19	5.24	3.67	1.54	1.21	0.13	24.73
Bell Ranch	T.	0.48	1.88	T.	2.09	0.41	4.51	2.80	1.91	0.84	0.57	0.24	15.73
Bellview	0.22	0.05	1.30	T.	2.40	0.18	3.25	3.35	0.74	1.22	0.81	0.05	13.57
Black Lake	0.44	0.55	0.71	0.90	3.52	0.53	4.52	6.14	1.72	0.43	0.46	0.18	19.20
Blackrock	0.44	0.90	0.42	0.56	0.21	0.00	6.25	2.59	3.07	1.30	0.15	0.01	15.84
Blakely Ranch	0.10	0.31	1.29	0.00	5.61	0.88	4.00	3.50	2.41	0.74	0.43	0.08	19.35
Bloomfield	0.38	0.28	0.11	0.05	0.07	T.	2.07	2.27	2.50	0.07	0.00	0.12	7.92
Bluewater	0.13	0.34	0.09	0.05	1.33	0.03	3.10	4.78	3.29	0.55	0.33	0.02	14.04
Bluewater Dam					2.14	0.00	3.49	4.98	4.08	1.17	0.42	0.06	
Boaz	0.00	0.28	1.41	0.00	3.08	0.75	1.70	1.62	1.59	0.69	0.90	0.00	12.02
Bueyeros							3.59	4.88	0.59	0.15	0.77	0.09	
Cambray	0.00	0.16	0.30	0.00	0.66	0.00	4.39	1.89	0.86	1.33	0.23	0.20	9.72
Capitan	0.32	1.54	0.48	T.	2.32	0.18	5.97	2.65	1.59	1.06	1.09	T.	17.20
Caprock					3.32	0.37	1.73	0.37	2.43	1.45	1.14		
Capulin Ranger Station	0.83	0.58	0.59	0.43	1.70	T.	6.78	5.13	2.84	0.50		0.20	
Carlsbad	T.	0.13	1.29	0.10	1.61	1.76	1.18	0.69	1.14	3.98	0.34	0.10	12.32
Carrizozo	T.	1.02	0.75	0.06	2.51	T.	7.46	2.46	0.84	0.75	0.96	T.	16.81
Carson Seep Ranger Station	0.44	0.30	0.69	0.05	1.80	2.04	2.71	3.06	2.23	3.51	0.53	0.46	17.82
Chacon	0.72	1.13	1.13	0.05	5.11	0.87	4.54	5.26	2.24	1.11	1.10	0.15	23.41
Chama	1.84	2.57	1.33	1.50	1.36	0.00	5.78	5.38	4.08	0.89	0.42	0.10	25.25
Chamberino	0.00	0.08	0.39	0.00	0.38	0.00	1.66	2.67	0.81	1.57	0.40	0.19	8.15
Chloride Ranger Station	0.17	0.72	0.18	0.00	2.55	0.15	6.44	4.82					
Cimarron	0.02	0.76	1.29	0.02	3.97	1.16	5.31	5.78	1.58	0.34	0.98	0.16	21.37
Clayton	T.	0.27	1.68	0.08	2.04	0.33	3.36	2.09	1.71	0.32	1.30	0.08	13.26
Cliff						0.00	2.41	2.76					
Cloudcroft	0.84	1.70	0.58	T.	2.74	0.21	6.16	5.87	1.78	2.20	2.15	0.62	24.85
Cloverdale	0.60	1.48	0.25	T.	0.04	0.17	7.34		4.81	1.72	0.57	0.50	
Clovis	T.	0.25	1.27	0.10	3.06	1.26	0.76	1.65	1.49	1.83	0.81	T.	12.48
Colmor (near)	0.04	0.19	1.46	0.03	6.95	0.32	4.99	4.48	2.33	0.83	0.42	T.	22.01
Columbus	0.00	0.40	0.21	0.00	1.08	0.10	2.77	3.43	0.55	1.77	0.35	0.88	11.04
Corona	0.48	1.93	1.70	0.00	3.55	0.03	4.39	4.19	1.53	1.28	0.50	0.00	19.55
Coyote										0.30	0.80	0.09	
Crossroads					4.44	0.94	0.52	2.42	1.79	2.86	0.50	T.	
Crown Point				0.50	0.75	T.	2.55	4.31	2.75	1.57	0.17	0.02	

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
New Mexico—Continued													
Cuervo	0.00	0.40	0.80	0.00	3.07	T.	2.80	3.29	0.80	0.28	1.20	0.00	12.64
Culberson Ranch							3.50	1.61	4.66	2.55	0.30	0.50	
Datil	0.08	0.33	0.47	0.08	2.82	0.00	5.06	3.11	3.41	0.69	0.14	0.20	16.39
Dawson	0.13	0.62	0.41	0.07	3.75	0.43	4.68	3.37	2.59	0.48	0.38	0.10	17.01
Deming	T.	0.32	0.20	0.00	0.95	0.00	2.38	2.86	0.83	1.14	0.42	0.14	9.24
Des Moines	0.15	0.56	1.53	0.38	2.63	0.85	4.28	9.62	2.57	1.70	1.38	0.32	25.97
Doretta	0.45	2.36	1.07	0.00	4.46	0.17	3.64	4.35	3.24	0.19	0.78	0.10	20.81
Dulce	0.64	0.96	0.72	0.59	0.62	0.10	2.86	4.57			0.23	0.14	
Dunagan Ranch	0.66	0.61	0.26	0.00	0.25	0.00	2.82	0.48	2.51	1.11			
Duran	0.05	1.41	1.60	0.00	1.25	0.00	3.71	5.11	2.23	0.93	0.95	0.10	17.34
Eagle Rock Ranger Station	0.84	0.73	0.56	0.89	3.35	T.	2.52	3.66	2.79	0.93	0.84	0.14	17.25
Elephant Butte Dam	0.00	0.07	0.13	0.00	2.30	0.00	2.35	3.82	0.34	1.51	0.66	0.00	11.18
Elida	0.00	0.18	1.12	0.18	2.47	0.83	1.94	2.16	1.33	1.68	0.85	0.00	12.74
Elizabethtown	0.83	1.70	1.30	0.80	2.60	0.10	5.10	5.50	0.90	0.80	0.80	0.20	20.63
Elk (near)	0.06	0.35	1.03	T.	3.85	0.65	3.05	2.42	0.91	0.98	1.14	T.	14.44
El Rito	0.30			0.10	2.88	T.		3.11	2.65	0.68	0.51	0.03	
Espanola	0.20	1.00	0.06	0.02	3.19	T.	3.14						
Estancia (near)	T.	1.20	1.41	T.	3.84	0.10	2.66	3.62	3.22	0.65	0.91	0.16	17.77
Eunice						0.95	0.67	1.35	0.28	3.07	0.00	T.	
Farmington	0.08	0.43	0.22	0.00	0.42	0.00	3.18	2.42	2.38	0.68	0.00	0.08	9.89
Felix (near)	0.10	0.56	0.73	0.00	2.46	0.99	4.72	1.04	2.50	0.46	0.97	0.06	14.59
Field (near)	T.	0.35	1.09	T.	3.47	0.34	1.98	2.11	1.01	0.64	0.78	0.06	11.83
Florida						0.08	3.36	1.38	0.61	1.06	0.45	0.05	
Floyd					2.31	1.40	2.22	1.57	0.92	0.52	0.86	T.	
Fort Bayard	0.29	0.83	0.18	0.02	1.19	0.10	6.37	4.88	2.04	2.08	0.70	0.13	18.81
Fort Stanton	0.41	1.14	0.43	T.	2.33	0.32	4.30	1.70	2.48	0.90	0.31	T.	14.32
Fort Sumner	T.	0.78	0.72	0.06	2.67	0.16	3.61	1.59	1.52	1.01	1.14	0.15	13.41
Frijoles Canyon	0.11	1.78	0.37	0.27	3.93	0.59	2.46	3.16	3.74	1.71	1.04	0.03	19.19
Gage	0.30	0.44	0.46	0.00	0.96	0.10	4.61	2.98	1.15	0.85	0.20	0.02	12.07
Gallinas Planting Station	0.91	2.44	2.01	0.06	7.54	2.20	7.07	5.93	5.47	1.17	2.02	0.38	37.20
Gallinas Ranger Station		1.00			3.23	0.00	5.31	3.98	1.42	1.00	0.75		
Gamerco	0.37	0.45	0.10	0.90	0.40	0.00	4.78	3.13	3.91	1.28	0.29	0.02	15.63
Gavilan							2.64	5.76	3.39	1.01	0.43	0.20	
Glenrio	0.06	0.85	1.62	0.24	3.10	1.12	0.89	2.53	0.82	0.70	1.32	0.17	13.42
Grady (near)	0.10	0.27	1.22		2.36								
Grahams Ranch	0.00	0.12	0.20	0.00	2.02	0.15	2.55	2.70	0.31	1.28	1.08	0.00	10.41
Hachita	0.15	0.53	0.12	0.00	0.02	0.00	3.23	5.19	0.88	1.09	0.60	0.31	12.12
Hassell					2.62	0.00	3.49	0.62	1.00	0.35	1.25	T.	
Hayden (near)			1.73	T.	2.17	1.37	3.01	3.55	0.46	1.25	0.79	0.13	
Hermanes						T.	3.12	1.76	1.24	2.07	0.21	0.36	
Hillsboro	0.00	0.40	0.40	0.00	0.98	0.00	3.90	3.10	1.04	1.97	1.00	0.28	13.07
Hobbs						2.07	1.07	2.53	1.78	3.70	0.40	0.07	
Hood Ranger Station	0.25	0.98	0.23	1.28	1.41	0.00	2.96	2.59	2.26	0.98	0.36	0.00	13.30
Hoosier Ranch	0.24	0.67	2.21	T.	2.01	0.52	6.56	6.47	2.42	0.18	0.94	0.02	22.54
Hope	0.00	1.00	1.00	T.	2.02	2.20	3.57	1.83	1.80	0.71	0.97	0.13	15.23
Horse Springs										0.37	0.16	T.	
Ione	T.	0.63	1.79	0.03	1.53	1.66	2.41	5.03	0.56	0.78	1.01	0.13	15.56
Isidore	0.00	0.87	1.08	0.00	1.90	T.	1.60	1.90	1.30	0.12	0.88	T.	9.65
Jemez Springs	0.29	0.86	0.33	0.64	3.81	0.03	2.62	4.33	4.95	1.35	0.66	0.17	20.04
Jewett Ranger Station	0.35	0.53	0.16	0.68	1.07	T.	4.02	3.89	4.62	0.59	0.47	0.11	16.49
Jicarilla (near)		1.44											
Jornada Range Reserve	T.	0.15	0.54	T.	2.19	0.03	1.95	2.73	1.50	1.13	0.72	0.10	11.04
Kingston	0.41	1.50	0.50	0.00	2.03	0.01	6.13	4.59	1.22	1.78	0.75	0.12	19.04
Laguna	T.	0.13	0.07	0.05	1.74	0.05	2.32	3.34	3.64	1.35	0.17	0.08	12.94
La Jara Ranger Station	0.36	1.32	0.44	0.60	3.00	T.	3.07	4.30	5.17	1.61	0.75	0.30	20.92
Lake Alice (near)	0.60	0.60	0.79	0.20	6.37	2.28	2.33	6.14	4.00	0.74	0.61	0.31	24.97
Lake Avalon	0.00	0.08	0.94	0.00	2.09	2.03	2.62	0.18	1.35	4.54	0.47	0.16	14.46
Lake Valley	0.10	0.25	0.19	T.	2.12	1.02	5.33	4.05	0.51	1.44	1.63	T.	16.64
Las Vegas	0.25	0.64	1.09	0.00	4.81	0.48	5.74	4.29	1.47	0.51	1.45	0.04	20.77
Lee Ranch	0.57	1.58	0.50	0.76	4.59	T.	4.66	5.41	3.97	1.14	1.31	0.02	24.51
Levy	0.21	0.80	3.26	0.00	5.52	1.70	3.67	5.12	1.20	1.03	2.33	0.12	24.90
Lindrith	0.85	0.60	0.52	0.87	2.24	0.00	3.35	9.36	4.94	0.64	1.17	0.13	24.67
Logan	0.04	0.96	2.24	0.49	2.09	1.46	1.20	4.21	1.14	0.67	1.72	0.30	16.52
Lordsburg	0.67	0.75	0.15	T.	0.25	0.00	3.49	3.11	1.67	1.75	0.31	0.25	12.40
Los Griegos	0.05	0.15	0.27	0.12	2.75	0.17	1.53	2.12		1.27	0.70	0.07	
Los Lunas (near)	T.	0.30	1.15	0.00	2.32	0.00	3.39	2.59	3.35	0.65	0.32	0.00	14.07
Loving	0.00	0.08	0.80	0.90	2.15	0.70	0.87	1.47	1.88	3.05	0.10	0.08	12.08
Lovington										.22			
Luna Ranger Station	0.62	1.10	0.20	1.05	1.34	0.25	3.47	3.83	3.35	1.45	0.28	0.12	17.06
Magdalena	0.46	0.24	1.42	0.00	3.20			3.55	3.10	1.00	0.25	0.12	
Maxwell	T.	0.56	0.82	T.	2.79	1.34	3.25	3.88	2.10				
Mayhill Ranger Station	0.27	0.94	1.00	0.00	2.85	0.62	6.15	3.70	0.50	3.24	1.62	0.16	21.05
McGaffey Ranger Station	1.47	2.02	1.01	1.33	0.83	0.00	6.44	2.72	3.65	1.02	0.26	0.13	20.88
Melrose					3.00	0.50							
Mescalero	0.47	1.05	0.65	0.10	2.40	0.05	6.20	3.88	1.60	2.75	1.60	0.15	20.90
Miami	0.24	0.52	2.01	0.11	6.51	0.06	5.77	4.04	2.19	1.33	1.46	0.11	24.35
Mills	0.20	0.41	1.54	0.00	2.67	1.13	2.88	5.20	1.35	0.65	1.20	0.15	17.38
Mimbres (near)											0.38	0.20	
Monte Prieta					4.18	0.00	6.08	2.41	2.55	0.92	0.32	T.	
Montoya	0.05	0.91	0.50	0.10	1.50	0.05	0.63	0.31	0.60	0.37	1.53	T.	6.55
Mosquero	0.10	1.00	2.65	0.00	2.90	0.30	4.33	7.49	1.33	0.83	0.80	0.16	21.89
Mountainair	0.13	0.58	2.06	0.00	4.09	0.02	3.59	3.12	2.06	1.40	0.51	0.04	17.59
Mountain Park	0.07	0.47	0.55	0.00	2.42		4.32	3.95					
Nara Visa (near)	0.00	0.61	1.94	0.30	0.28	1.70	1.03	7.01	0.93	0.07	1.22	0.35	15.44
Newman	0.00	0.05	0.66	0.00	1.10	T.	2.92	3.44	0.25	1.31	0.41	0.36	10.50
Olive				1.24	2.57	0.49	2.57	0.55	2.83	1.83			
Onava					3.94	0.41	3.12	5.24	2.46	0.47	0.55	0.00	
Orogrande	0.00	0.72	0.85	0.05	1.31	0.00	2.10	3.37	0.10	3.53	0.88	0.25	13.16
Palma	T.	1.25	0.64		1.36	0.57	1.63			1.39	1.10	T.	
Palo Verde	0.12	0.39	1.56	T.	2.66	0.65	6.39	5.13			0.86	0.05	
Park Springs Ranch						0.07	2.45	3.98	2.45	T.	1.07	T.	
Pasamonte	T.	0.11	0.79	0.00	2.68	1.60	3.75	2.65	2.00	1.00	0.02	0.03	14.63
Pastura												0.03	
Pearl	0.00	T.	2.05	1.27	1.59						0.00	0.01	
Pecos Ranger Station	0.34	1.76	0.35	0.00	3.70	0.97	3.10	4.80	4.30	0.69	0.70	0.06	20.77

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
New Mexico—Continued													
Pedernal							3.05	4.18	1.94	0.88	1.03	0.22	
Penasco						0.34	3.39	4.74	3.40	1.33	1.08	0.10	
Pennington (near)	0.05	0.69	0.97	0.31	2.60	1.53	4.36	3.85	1.50	0.83	0.33	0.21	17.23
Pinos Altos (near)						0.10	8.17	5.89	1.24	0.84	0.48	0.19	
Plainview				0.00	4.95	0.66	1.50	0.52	1.72	4.39	0.34	0.03	
Portales	T.	0.14	1.24	0.42	2.59	1.87	1.52	2.75	0.96	1.52	0.89	T.	13.90
Porter	T.	0.55	2.78	0.27	2.73	0.51	2.14	2.05	1.10	0.64	1.83	0.26	14.86
Progresso							2.42	2.29	1.03	0.50		T.	
Quay	0.00	0.56	2.22	0.12	6.04	0.37	0.69	1.74	0.16	0.72	2.44	0.00	15.06
Ramah	0.33	0.70	T.	0.02	1.17	0.02	4.43	2.34	4.48	0.70	0.73	0.05	14.97
Raton (near)	0.30	0.25	0.73	0.23	4.46	0.75	4.40	2.24	4.68	1.38	1.20	0.35	20.97
Red River Canyon	1.00	1.67	1.12	0.59	3.45	0.04	5.66	5.07	4.38	1.40	1.10	0.25	25.73
Red Rock	0.27	0.83	0.04	0.00	0.24	0.00	2.48	1.53	2.65	1.06	0.21	0.15	9.46
Regina	0.70	1.86	0.50	0.40	2.08	0.00	1.93	7.34	3.61	0.63	0.56	0.48	20.09
Reneona (near)	0.59	1.76	0.72	0.05	5.24	0.51	4.60	7.74	3.25	1.04	1.16	0.25	26.91
Richland (near)	T.	0.03	1.06	0.00	2.90	0.50	0.69	1.19	1.30	1.05	0.92	T.	9.64
Rodeo	0.31	0.43	0.17	0.00	0.23	T.	2.19	3.50	2.83	1.00	0.49	0.60	11.75
Rosa	0.62	0.88	0.58	1.35	1.22	0.02	5.21	5.82	3.20	0.32	0.19	0.14	19.55
Rosedale (near)	0.17	0.19	0.51	0.00	2.65	0.39	3.27	3.19	1.99	2.01	0.00	T.	14.37
Roswell	0.03	0.46	0.80	T.	2.30	1.15	4.70	0.85	0.42	0.58	1.09	0.00	12.38
Roy	0.04	0.41	1.18	0.00	2.63	0.72	4.88	4.26	1.24	2.25	0.16	0.04	17.75
Saint Vrain	T.	0.30	0.85	0.05	3.56	0.73	2.59	1.62	1.28	1.04	0.81	t. 01	12.84
San Fidel	0.01	0.31	0.19	0.02	1.81	0.08	1.54	2.85	4.04	1.07	0.19	0.14	12.25
San Jon	T.	0.17	1.66	T.	1.51	0.35	2.97	2.28	0.90	0.72	1.05	0.12	11.73
San Marcial	T.	0.05	0.82	0.00	2.01	0.00	2.89	2.92					
Santa Fe	0.27	0.97	0.59	0.15	5.58	0.04	2.50	3.84	5.15	1.43	0.89	0.11	21.52
Santa Rosa	T.	1.16	0.75	0.00	3.25	0.00	3.35	3.30	0.78	0.10	0.75	0.05	13.49
Selsor Ranch	0.91	2.01	0.62	1.03	2.63	0.12	4.93	5.56	7.02	1.13	0.88	0.19	27.03
Shiprock	0.14	0.12	0.54	T.	0.14	0.00	2.87	2.68	3.10	0.37	0.00	0.30	10.26
Silver City	0.83	1.24	0.25	0.02	0.78	T.	7.05	3.98	2.14	1.64	0.09	0.05	18.07
Skeleton Canyon (near)	0.80	1.49	0.75	0.05	0.09	T.	6.55	5.09	3.23	1.15	0.67	0.45	20.32
Socorro	0.01	0.14	1.89	0.00	2.17	0.00	3.17	2.11	1.34	1.01	0.39	T.	12.23
Solano	0.11	0.44	1.57	0.10	3.45	T.	6.61	6.79	1.46	0.95	1.10	T.	22.58
Springer	0.08	0.72	1.20	0.00	3.40	0.45	4.88	3.62	1.68	0.52	0.68	0.14	17.37
Stanley					5.50	T.	3.47	2.23	3.35	1.30	0.74	0.07	
Spur Lake							3.28	6.90					
Sunshine Valley			0.33	0.70	1.67	0.00	1.60	2.81	1.98	0.49	1.22	0.03	
Tajique (near)	0.21	1.63	2.09	0.05	6.42	0.68	6.50	4.81	2.95	1.47	1.06	0.30	28.17
Taos	0.59	1.03	0.69	0.59	3.49	0.13	2.43	2.54	2.54	0.87	0.55	0.10	15.55
Taos Canyon	1.40	1.58	2.04	0.38	3.89	0.12	3.82	5.35	3.68	1.29	0.55	0.17	24.27
Tatum	0.00	0.18	2.45	0.00	5.40	0.77	0.60	1.17	2.06	2.19	0.36	0.07	15.25
Taylor	0.15	0.66	2.69	0.00	3.98	0.20	6.30	3.00	1.40	0.78	0.85	0.13	20.14
Templeton Ranch			0.12	0.84	0.14	0.00		2.34	1.42	0.55	T.	T.	
Texico (near)			1.70	0.15	4.60	1.80	0.70	0.38	1.70	1.20	0.02	T.	
Therma					4.82	0.46	2.64	3.45	1.25	0.71			
Thoreau			0.03	0.03	1.86	0.05	2.28	1.74	1.95	1.10	0.25	0.12	
Three Rivers	T.	0.46	0.41	0.00	1.90	T.	2.41	1.46	0.35	0.85	0.91	T.	8.75
Tierra Amarilla	2.41	1.13	0.84	0.01	0.12	0.00	4.70	5.27	1.81	1.23	0.56	0.15	18.23
Tijeras Canyon Ranger Station	0.07	1.01	1.34	0.00	4.95		2.17	2.32	2.60	2.83			
Tohatchi		0.57	0.10	0.90	0.20	0.20		1.60	2.62			0.07	
Trementina							2.98	3.50	2.60	0.31	0.79	0.07	
Tres Piedras	0.67	0.71	0.44	0.08	2.20	0.31	3.92	4.60	2.31	1.69	0.84	T.	17.77
Truchas	0.30	0.70	0.79	0.50	3.81	0.00	4.98	4.80	5.94	1.20	0.85	0.20	24.07
Trujillo	0.00	0.82	2.22	0.00	2.87	0.23	3.79	3.60	2.42	0.04	0.46	0.00	16.45
Tucumcari (No. 1)	T.	0.36	2.05	0.48	2.63	0.38	0.70	1.90	0.67	0.67	1.32	0.10	11.26
Tucumcari (No. 2)	T.	0.47	1.98	0.55	2.15	0.38	1.31	2.84	0.42	0.43	1.29	0.12	11.94
Tularosa	T.	0.60	0.32	T.	1.00	T.	2.05	2.64	0.91	0.84	0.69	0.04	9.09
Tyrone	0.39	0.77	T.	0.05	1.28	0.10	3.64	3.12	1.22	2.02	0.51	0.16	13.26
Valley View	0.00	0.20	1.92	0.00	2.60	1.07	1.97	1.97	0.90	0.94	0.50	0.00	12.07
Valmora	T.	0.62	1.24	0.00	3.79	0.21	4.26	7.74	2.17	0.71	0.72	0.16	21.62
Vance	0.02	0.23	0.92	0.00	3.61	1.10	2.72	5.12	0.40	0.64	0.60	0.08	15.44
Vaughn	0.08	0.92	0.24	0.00	2.95	0.00	1.80	0.75	1.70	0.60	0.45	0.03	9.52
Weed Ranger Station	1.39	0.62	2.32	T.	2.36	0.45	4.50	3.47		4.07	0.95	0.16	
White Tail	0.34	1.63	1.29	0.03	3.23	0.47	7.87	5.09	1.36	2.60	1.28	T.	25.19
Winsors Ranch	0.97	2.74	1.70	0.58	5.28	1.28	4.52	7.37	4.65	1.69	1.28	0.08	32.14
Yates										0.72	0.88	0.24	
New York													
Addison	2.31	2.29	2.87	6.44	5.12	1.67	5.74	0.42	2.76	3.96	2.15	3.24	38.97
Albany	2.21	3.68	3.10	6.31	2.34	2.65	0.62	1.02	3.45	2.32	1.82	2.16	31.68
Alfred	2.34	1.40	2.11	6.27	4.59	2.48	6.10	1.06	3.45	5.47	2.11	2.80	40.18
Allegany State Park	4.90	2.08	4.04	7.56	6.35	2.79	6.55	1.35	3.41	4.21	3.73	3.41	50.38
Andover	2.68	1.62	2.51	6.06	4.20	2.60	6.10	1.71	5.59	4.02	1.59	2.56	41.24
Angelica	3.53	1.30	3.47	6.95	4.46	1.32	4.72	0.91	3.93	4.19	2.57	3.43	40.78
Auburn	2.11	1.69	2.76	5.94	4.98	1.93	4.72	3.48	3.10	2.61	1.87	3.67	38.86
Avon	1.89	1.00		4.85	2.66	1.62	3.18	1.14	2.59	3.61	1.58	2.44	
Bainbridge	2.27	2.34	2.32	5.51							2.70	2.73	
Ballston Lake	2.63	3.14	2.66	6.98	3.75	4.42	0.95	1.80	1.97	2.45	2.55	2.78	36.03
Bedford Hills	3.04	3.87	2.13	5.76	3.88	1.63	2.94	4.62	2.06	3.62	2.53	3.84	39.92
Binghamton	1.87	2.31	2.03	7.27	5.55	2.64	4.01	1.64	2.55	4.58	2.73	2.94	40.12
Boonville	4.30	1.62	2.70	5.92	5.36	3.24	4.21	4.01	3.87	3.03	2.88	4.86	46.00
Boyds Corners	4.24	3.19	3.03	7.28	4.35	2.93	2.53	1.56	2.89	5.02	2.73	3.99	43.74
Brockport	3.19	1.32	2.32	5.28	1.94	2.21	2.79	1.29	2.86	3.62	2.38	3.62	32.82
Buffalo	3.73	1.67	2.38	5.02	2.79	1.66	1.62	1.22	3.25	2.25	2.31	5.22	33.12
Cairo	2.71	3.34	2.35	7.83	3.75	6.46	0.81	1.19	3.68	4.90	2.13	2.14	41.29
Canadea Dam						1.10	5.38	1.34	1.49	3.83	1.91	3.52	
Canton	3.31	1.67	3.93	3.68	4.04	4.50	3.77	1.81	2.51	3.23	3.04	2.42	37.91
Carmel	3.72	2.92	2.95	6.86	4.10	2.91	2.49	2.11	2.73	4.31	2.30	3.70	41.10
Chasm Falls	3.36	1.22	4.74	5.53	4.82	7.59	2.88	5.04	2.06	5.54	3.32	3.72	49.82
Chazy	1.36	1.22	1.03	2.68	2.52	3.65	1.48	1.21	1.77	1.94	2.47	2.05	23.38
Conklingville	4.46	3.23	5.29	7.27	4.86	5.58	3.31	3.25	7.73	4.03	2.51	4.79	56.31
Cooperstown					3.92	2.54	1.98	3.01	2.86				
Cortland	1.92	1.32	2.57	6.65	4.81	2.96	5.00	4.76	2.48	5.16	2.33	2.93	42.89

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
New York—Continued													
Cutchogue	4.13	4.06	4.61	6.72	5.30	1.39	2.81	5.14	3.84	2.76	2.88	4.27	47.91
Dannemora	2.74	1.22	3.12	3.88	4.02	4.55	1.26	2.03	2.01	3.10	2.56	3.56	34.05
Dansville	2.46	0.75	1.79	5.70	3.92	2.66	3.29	0.65	1.98	5.35	1.92	2.30	32.77
Delhi	2.70	2.12	2.53	8.28	4.58	6.26	3.18	2.60	4.48	3.75	2.78	2.71	45.97
Dolgeville	2.91	2.42	4.71	7.61	5.01	2.77	3.23	3.21	5.08	3.92	3.45	5.25	45.57
Eagle Falls	3.37	1.63	3.46	4.43	5.29	2.54	3.39	5.56	3.92	4.47	4.98	2.97	46.01
Elmira	2.08	1.86	1.72	6.09	4.84	2.65	4.68	0.96	1.89	3.73	2.39	4.21	37.10
Farmingdale	3.75	4.72	4.53	5.68	5.59	1.42	2.03	1.88	2.91	4.27	2.91	3.20	42.89
Flushing	3.13	4.45	4.00	5.73	3.46	2.00	0.77	1.94	2.96	4.10	2.17	2.96	37.67
Fredonia	4.92	1.56	2.45	7.05	6.80	1.35	2.38	0.52	2.65	4.08	4.84	3.18	41.76
Gabriels	2.52	1.15											
Geneva	3.32	2.08	1.91	6.41	4.46	1.28	2.82	1.31	2.89	3.93	1.64	3.38	35.48
Glens Falls	3.23	3.00	3.90	6.10	4.04	4.44	2.33	3.12	5.66	2.45	1.94	3.78	43.99
Gloversville	4.02	3.80	4.75	7.20	4.19	4.47	2.63	4.87	4.57	2.53	3.93		
Greenfield Center	3.05	3.00	3.40	6.52	4.30	6.50	2.80	3.55	3.71	2.10	3.10	3.95	45.98
Harkness	0.89	1.26	1.25	3.90	2.91	6.70	1.47	1.60	1.12	1.84	1.80	2.24	26.98
Haskinville	2.63	2.18	2.43	6.39	3.65	2.52	3.46	1.35	1.95	4.26	2.28	3.50	36.62
Hemlock	2.40	0.98	1.93	4.64	4.95	2.77	3.22	1.40	2.42	3.58	1.75	2.13	32.17
High Falls	4.85	3.75	3.39	8.75	3.16	4.47	4.12	5.43	3.00	4.29	3.30	4.45	52.96
High Market	6.27	2.72	3.85	6.41	6.81	6.61	5.69	8.43	4.81	5.02	5.78	6.93	69.33
Hoffmeister	6.33	2.26	5.19	7.25	6.67	7.94	4.79	2.68	6.86	4.56	4.67	6.75	65.95
Honk Falls	2.94	4.40	3.06	7.44	3.90	4.51	2.28	3.24	2.55	5.12	3.51	3.84	46.79
Hudson	1.07	2.86	2.43	6.98	2.90		1.15	1.10			2.47		
Indian Lake	5.25	1.96	3.86	6.08	4.57	5.23	2.26	2.27	3.21	3.78	3.14	4.17	45.78
Indian River	3.96	1.22	4.00	5.06	4.78	5.31	2.89	4.87	2.67	4.15	6.02	3.00	47.93
Ithaca	1.98	1.65	2.78	6.34	5.47	2.42	4.73	5.27	2.42	4.20	1.74	2.87	41.87
Jamestown	5.84	2.04	3.64	6.86	6.20	1.89	6.43	1.04	1.65	4.48	4.71	3.12	47.90
Jeffersonville	3.36	2.81	2.91	7.76	6.98	4.35	3.30	5.15	3.99	3.97	3.10	3.68	51.36
Lake Placid Club	1.85	2.00	4.05	4.65	3.52	6.20	6.53	2.85	2.32	3.55	3.05	2.90	43.47
Lauterbrunnen	2.77	0.65	1.64									1.71	
Little Falls (No. 1)	2.76	2.68	3.91	7.20	5.15	2.21	2.46	2.99	4.10	3.43	2.78	4.98	44.65
Little Falls (No. 2)	3.15	2.44	4.17	8.19	5.41	1.69	2.52	2.73	4.30	3.53	3.27	5.15	46.55
Lockport	3.04	0.94	3.41	5.10	3.09	3.22	2.95	0.84	2.49	2.88	2.48	3.54	33.98
Lowville	4.95	0.99	2.15	4.52	4.34	2.58	2.83	5.10	2.45	3.87	5.10	5.07	43.86
Lyons Falls	7.37	2.34	2.72	5.16	6.05	3.83	4.41	4.95	3.77	3.75	4.33	3.95	52.63
McKeever	4.85	1.35	3.42	5.65	6.02	5.39	4.31	4.85	3.48	4.36	4.44	5.39	53.51
Mechanicville	1.90	2.52	2.83	6.28	3.18	5.57	1.08	1.72	2.73	1.61	2.47	2.22	34.11
Mohonk Lake	3.32	3.60	1.05	8.90	3.44	2.61	3.29	5.13	1.65	4.16	2.62	5.44	45.21
Moira	2.55	1.82	2.10	5.04	4.25	7.14	1.40	3.10	1.77	5.08			
Morrisville	3.95	4.16	3.12	6.76	4.72	3.18	3.64	3.44	2.61	5.03	3.67	4.96	49.24
Mount Hope	2.75	4.57	4.08	7.19	5.35	1.94							
Mount McGregor	3.37	2.96	2.73	3.32	3.24		2.78	3.02	5.40	3.25	2.49	4.10	
Mount Morris							2.79	0.97	1.90	4.01			
Mount Vernon	3.82	4.32	3.56	6.17	3.89	1.78	1.48	2.02	3.78	3.67	2.64	3.58	40.71
New York	2.67	4.30	3.51	5.76	3.64	2.30	0.98	1.45	4.05	5.16	2.08	3.23	39.13
North Lake	6.71	2.22	5.22	6.37	7.62	5.76	3.08	3.38	4.87	4.23	4.78	6.60	60.84
Norwich	2.91	2.32	2.80	7.79	6.77	2.93	3.45	2.72	2.50	3.85	3.03	4.16	45.23
Ogdensburg	2.24	1.29	2.16	3.43	3.39	3.56	1.92	2.77	1.16	2.85	3.46	2.84	31.07
Olean	4.73	1.97	3.78	8.42	4.33	1.71	6.29	2.17	3.66	4.09	2.63	3.11	46.89
Oneonta	2.25	2.90	3.44	8.63	3.95	3.16	1.65	2.20	2.14	3.50	2.20	2.89	38.91
Oswego	3.72	2.26	2.76	4.11	4.03	2.08	2.48	1.39	3.16	2.66	3.37	3.07	35.09
Penn Yan	1.85	1.73	1.68	1.80	3.65	1.92	3.43	1.42	2.86	4.13	2.05	2.47	28.99
Philadelphia	3.69	1.86	4.46	4.25	3.75	4.71	2.86	3.22	3.09	2.84	5.69	4.54	44.96
Port Jervis	2.88	3.40	2.23	7.24	3.29	4.94	1.91	2.75	5.22	3.97	2.42	3.23	43.48
Poughkeepsie	3.02	3.53	3.15	7.48	3.24	1.89	1.79	3.56	2.27	3.74	2.70	3.93	40.30
Raquette Lake	4.95	1.88	3.69	6.02	4.32	6.33	3.97	5.75	3.26	4.79	5.02	4.51	54.49
Rifton	3.94	3.88	3.06	8.71	3.34	4.77	2.46	5.17	2.00	4.46	3.16	4.01	48.96
Rochester	3.22	1.46	2.43	5.41	2.20	0.76	3.54	1.31	2.87	3.87	1.92	3.52	32.51
Roslyn	3.57	5.19	4.73	5.49	4.26	1.14	0.29	1.14	3.15	3.82	2.95	2.98	38.71
Roxbury					4.95	4.23	1.73	2.23	5.85	4.00	2.92	2.94	
Salisbury	3.64	3.90	4.88	7.40	7.37	3.25	4.28	3.54	4.86	3.97	4.66	3.34	55.09
Scarsdale	3.65	3.88	3.56	6.22	3.79	2.52	1.20	1.72	4.53	3.81	2.65	3.14	40.67
Scio						2.92	6.39	0.97		3.93	2.35		
Setauket	4.06	4.25	5.02	6.58	6.07	2.02	1.75	1.26	4.56	4.04	2.95	3.76	46.32
Sharon Springs (No. 1)	3.26	3.57	3.74	9.08		4.59	1.64	3.51	2.19	3.20	3.39	3.70	
Sharon Springs (No. 2)	2.47	2.67	3.21	9.24	3.34	2.62	1.30	4.12	2.23	4.51	3.51	3.50	42.72
Sherburne	2.39	2.25	3.94	7.47	5.94	2.13	3.24	2.20	2.27	4.02	2.67	3.66	42.18
Shortsville	1.98	1.06	2.23	5.64	3.45	2.32	4.28	1.16	3.19	3.77	1.64	2.29	33.01
Skaneateles	2.04	1.77	2.73	7.66	5.06	2.05	6.98	5.46	3.25	3.84	2.18	4.18	47.20
Sodus		1.03					3.06	1.10	2.55	4.54	2.17	2.26	
South Colton		1.27	2.21	4.82	4.70	3.88	3.65	5.28	2.57	5.31	4.02	2.61	
South Edwards	3.61	1.45	6.00	5.44	5.38	3.39	3.61	4.41	3.95	4.90	5.33	5.07	52.54
Southeast Reservoir	4.29	3.22	3.39	6.79	5.04	2.08	2.96	3.04	2.53	5.00	2.43	4.31	45.08
Sperryville[1]	3.80	1.23	2.46	4.68	5.29	4.03	3.78	6.30	2.90	4.42	4.44	3.97	47.30
Spier Falls	2.49	2.83	3.94	6.88	4.28	4.97	2.18	2.18	4.54	2.58	2.62	4.84	44.33
Stillwater Reservoir	5.46	1.97	4.45	6.45	5.95	4.99	4.01	6.32	3.83	4.94	6.37	6.80	61.54
Syracuse	2.96	1.98	2.51	7.61	3.61	1.33	2.47	4.26	3.90	3.45	2.20	3.33	39.61
Taberg	3.95	2.22	4.41	6.82	5.64	3.07	4.04	4.22	4.04	3.36	3.82	6.04	51.63
Trenton Falls		2.26	5.27	7.18	7.40	5.59	5.17	3.90	6.74	3.64	4.05	5.53	
Tribes Hill	2.25	3.12	3.05	7.33	3.09	3.40	1.76	3.45	3.75	2.29	2.80	3.98	40.27
Troy	2.39	4.23	2.33	6.25	3.11	2.98	1.54	1.30	3.28	2.41	2.53	2.87	35.22
Tupper Lake	3.68	1.36	3.31	3.28	3.93	6.33	3.17	4.16	2.32	3.80	2.65	3.19	41.18
Utica	3.32	2.35	3.41	7.69	6.23	3.23	3.79	3.21	3.60	3.64	3.58	6.75	50.80
Voorheesville	2.45	3.75	3.17	7.38	2.87	3.72	0.49	2.14	3.44	4.04	2.31	2.52	38.28
Walden	2.90	3.13	3.17	8.51	4.14	2.55	2.60	2.02	3.22	5.58	3.12	3.88	44.82
Wanakena	4.59	1.48	4.28	3.93	5.05	5.52	4.17	5.01	2.71	4.68	3.94	3.60	48.96
Wappingers Falls	2.78	3.85	3.59	6.93	3.74	2.57	1.89	4.19	3.52	4.40	2.72	3.90	44.08
Warwick	2.56	3.14	2.43	4.29	3.25	5.71	1.98	1.38	2.73	5.15	1.95	3.45	38.02
Watertown	3.88	1.57	3.22	4.89	4.10	4.14	2.61	4.60	2.97	3.56	5.53	4.08	45.15
West Berne	1.50	4.10	2.34	9.47	4.20	4.25	0.78	2.86	3.17	4.28	3.04	2.64	42.63
West Point	3.52	4.66	2.44	7.25	2.51	0.94	3.98	1.24	2.79	4.11	2.37	4.29	40.10
Windecker	4.28	1.08	3.61	5.87	5.85	4.39	3.90	5.31	4.25	5.66	5.49	5.82	55.51

[1] Name changed from Otter Creek.

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
North Carolina													
Albemarle	2.70	7.56	8.63	4.33	3.91	5.68	2.20	2.51	3.85	7.31	4.06	2.87	55.61
Altapass						6.18	6.86	2.88	9.22	8.90	4.67	2.60	
Andrews	8.21	6.86							9.65	2.44	9.62	3.07	
Asheboro	2.06	6.88	6.87	4.95	5.41	5.20	4.62	4.61	2.86	9.45	3.98	2.70	58.69
Asheville	1.89	4.56	5.85	2.76	5.16	4.27	3.13	0.82	9.32	4.75	2.43	1.40	46.34
Bahama	3.05	7.32	5.76	7.24		8.12	5.41	6.35	4.65	5.18	4.11	1.10	
Banners Elk	2.60	4.51	7.22	4.00	8.97	4.43	8.88	1.95	4.33	9.35	3.25	2.08	61.57
Beaufort	5.33	5.39	5.37	1.16	7.45	4.77	12.55	6.45	9.54	6.38	3.18	5.89	73.26
Belhaven	7.45	5.95	4.40	2.30	8.90	7.51	7.21	5.28	6.50	4.69	3.04	3.67	66.90
Boone	3.55	4.40	7.98	2.81	6.95	6.60	4.45	2.78	7.51	11.47	4.55	2.97	66.02
Brevard	4.04	6.43	6.89	3.55			4.95	0.97	13.33	7.89	4.79	2.47	
Bryson City	7.38	6.41	7.78	4.81	7.77	9.11	3.81	0.74	8.78	2.62	7.25	2.83	69.29
Caroleen	3.37	7.46	6.68	2.95	6.95	4.13	8.39	2.79	9.22	9.90	6.31	3.34	71.49
Chadbourn	5.87	7.39	3.90	2.53	5.97	3.98	3.79	3.00	7.84	4.67	2.20	4.45	55.59
Chapel Hill	1.81	7.54	5.70	4.54	6.52	7.21	6.64	5.24	3.11	10.65	6.18	2.78	67.92
Charlotte	2.58	8.58	7.09	3.35	5.90	5.88	3.52	2.78	3.01	6.47	4.31	3.54	57.01
Cullowhee	4.33	6.30	7.59	3.63	7.04	4.28	7.06	1.05	7.90	2.58	5.85	2.14	59.75
Deep Creek	1.07	6.90	5.02	5.06	3.36	6.25	2.90	8.11	4.62	6.06	3.32	1.85	54.56
Durham	1.43	6.46	5.12	3.08	4.48	7.44	4.10	7.90	1.80	6.19	4.53	1.79	54.32
Edenton	3.90	5.69	5.50	9.80	9.29	6.50	3.25	2.65	8.10	6.60	4.80	3.20	58.28
Edgemont	2.19	6.84	7.70	3.91	5.28	4.85	8.26	3.27	8.58	8.40	3.13	2.82	65.23
Elizabeth City	3.50	4.80	4.35	1.87	8.30	10.55	4.05	2.15	8.15	4.20	5.15	3.15	60.22
Elizabethtown	5.05	5.51	4.26	1.79	9.46	5.64	7.16	5.22	2.77	5.39	3.60	3.37	59.23
Elkin	2.92	5.98	5.19	4.10	3.52	4.87	5.40	4.66	3.53	9.41	3.37	2.58	55.53
Enfield	2.89	5.92	5.67	2.35	8.18	6.36	5.53	4.03	4.10	10.89	5.02	2.49	63.43
Fayetteville	4.36	6.64	6.11	4.10	4.48	5.22	4.57	7.58	3.50	9.62	4.54	3.29	64.01
Franklin	4.69	6.56	8.45	5.08		5.07	2.99	0.46	10.02	2.87	5.81		
Goldsboro	4.79	6.48	4.73	2.80	7.26	3.93	7.61	5.78	5.41	8.37	4.84	4.06	66.06
Graham	1.68	7.49	5.87	4.50	4.96	5.65	7.39	3.65	3.10	7.21	4.43	3.41	58.44
Greensboro (Weather Bureau)	1.68	7.04	4.34	5.18	3.88	6.31	3.83	4.32	3.11	6.60	4.23	2.10	53.62
Greensboro (Horry)	1.63	7.53	4.46	4.83	5.77	6.08	7.03	3.81	2.18	7.14	4.15	3.22	57.83
Greenville	4.52	5.71	4.37	1.00	9.20	12.60	7.91	4.94	3.71	8.75	3.99	3.53	70.23
Hatteras	4.60	7.07	2.41	1.56	4.86	4.04	12.50	6.48	13.71	4.09	3.22	5.87	70.41
Henderson	1.69	6.80	5.08	3.88	5.20	4.39	5.64	7.91	2.48	9.51	4.36	1.89	58.83
Hendersonville	4.77	6.94	7.72	3.84	7.01	7.42	3.41	1.94	13.77	8.24	5.09	2.83	72.98
Hickory	3.11	7.86	5.99	3.25	4.02	4.13	5.62	3.26	7.05	9.32	5.44	2.97	62.02
Highlands	7.57	8.46	13.94	6.20	9.73	8.24	3.90	1.33	15.56	4.75	11.06	4.51	95.25
High Point	1.47	7.00	4.94	4.74	3.85	5.74	3.11	3.30	2.97	5.34	4.63	3.15	50.24
Hot Springs	2.48	2.84	5.33	3.49	7.48	3.48	7.32	3.40	4.14	4.42	2.43	2.09	48.90
Hot Springs (No. 2)	2.37	2.98	5.12	3.39	6.28	4.67	8.01	3.18	2.63	5.76	2.84	1.71	48.94
Jefferson	2.90	4.18	6.24	3.35	5.85	6.55	5.77	2.97	4.92	8.86	3.72	2.71	58.02
Kenansville	6.58	6.17	3.89	1.40	8.75	5.46	7.86	5.37	6.68	8.54	3.92	3.41	68.03
Kinston	4.89	5.36	4.02	1.77	9.58	6.47	4.96	2.06	5.58	8.58	4.02	2.57	59.86
Lake Michie	1.84	7.06	5.32	3.73	5.02	8.34	4.38	7.21	2.24	7.72	4.49	2.07	59.42
Lenoir	2.72	6.70	6.44	3.63	3.00	4.23	7.15	1.83	5.67	6.66	4.25	3.11	55.39
Linville Falls	2.83	5.38	8.41	4.11	6.92	5.83	6.88	2.96	13.35	9.75	5.27	2.96	74.64
Louisburg	2.05	5.44	4.89	3.15	5.61	7.45	6.35	5.92	1.75	8.02	5.48	2.13	58.17
Lumberton	5.55	7.70	6.05	3.15	6.58	7.83	5.22	2.87	5.40	5.65	4.02	4.05	64.07
McHenry's Bridge	2.50	8.06	6.02	3.34	2.80	3.42	5.59	3.10	4.57	10.26	4.65	3.05	57.36
Mangum's Store	1.66	7.32	5.76	3.91	5.75	6.19	4.82	6.42	1.42	7.94	4.21	1.63	57.03
Manteo	2.84	3.92	1.58	1.56	6.40	11.12	5.34	2.86	6.84	1.26	3.70	3.51	50.93
Marion	3.61	4.87	6.90	3.22	4.12	5.89	5.42	5.47	10.27	8.76	4.51		
Marshall	1.85	3.85	6.02	2.65	7.00	2.92	5.17	2.32	2.95	5.14	2.75	1.30	43.92
Moncure	2.54	7.76	6.72	2.64	6.75	6.93	4.27	4.26	2.10	13.50	5.04	2.69	65.20
Monroe	2.63	8.70	9.09	3.13	5.20	3.22	5.33	4.97	6.70	7.49	5.33	3.88	65.67
Montreat	3.58	6.06	8.24	3.38	5.67	4.53	4.33	2.65	13.68	8.93	4.63	2.11	67.77
Morganton	2.88	4.87	5.75	3.56	4.90	6.30	5.93	1.45	6.35	9.20	3.75	3.55	58.49
Mount Airy	2.52	5.14	5.28	3.69	4.27	8.03	4.15	5.10	2.33	12.30	3.33	2.31	58.45
Mount Holly	3.82	9.44	9.25	4.14	6.22	5.32	3.22	4.76	4.40	11.14	5.64	3.24	70.59
Mount Mitchell		6.24	9.84	4.96	7.69	6.82	7.63	2.32	9.39	5.17	5.69		
Moxley	1.32	5.35	6.77	3.61	4.80	4.80	4.05	1.06	5.51	3.88		2.28	
Murphy	7.02	6.13	7.58	6.21	11.25	5.81	2.98	2.44	6.80	1.76	10.03	2.52	70.83
Nashville	2.99	6.40	5.05	2.83	7.01	8.16	6.48	4.15	4.22	13.01	5.39	2.77	68.46
Newbern	5.11	6.59	4.26	1.84	7.84	5.82	8.97	3.52	6.82	3.43	4.44	3.72	62.36
New Holland	4.30	6.82	3.49	1.36	7.77	6.34	9.84	7.17	5.45	3.47	3.04	4.55	63.80
Neuse	2.11	6.88	5.79	3.10	5.11	5.39	8.72	5.44	1.61	13.50	5.12	1.94	64.71
North Wilkesboro	2.66	6.82	5.68	4.01	3.78	5.75	6.00	1.63	4.96	12.05	3.27	3.00	59.61
Oxford	1.48	7.29	5.38	4.30	4.54	5.64	6.58	7.98	2.58	6.68	3.90	1.97	58.32
Parker	5.39	3.35	8.05	3.88	7.63	8.28	7.07	2.65	4.47	6.28	2.37	2.28	61.70
Pinehurst	3.53	6.36	5.64	2.43	6.66	6.25	3.54	5.25	2.91	8.09	3.20	2.63	56.49
Raleigh (Weather Bureau)	2.23	6.99	6.00	2.92	6.05	4.99	6.52	2.43	4.12	9.59	4.82	2.17	58.83
Raleigh (No. 2)	2.56	6.99	5.84	2.83	4.62	5.70	5.46	3.28	3.60	8.41	4.68	2.46	56.43
Randleman	2.01	7.22	7.02	3.97	4.49	5.73	6.23	3.53	2.09	6.63	4.31	2.49	55.72
Red Springs	2.15	6.45				6.71	4.70	8.59	3.50	5.31	3.48	4.13	
Reidsville	1.64	5.73	3.52	5.25	3.30	7.65	5.95	7.22	3.08	7.51	3.03	2.81	56.69
Robbinsville									9.25			2.25	
Rock House (No. 1)	8.15	8.96	14.16	6.47	10.11	9.79	8.01	1.05	18.09	5.52	10.75	4.26	105.32
Rock House (No. 2)	8.24	8.47	13.64	6.08	10.87	9.44	6.55	1.18	18.70	6.01	10.88	4.21	104.27
Rockingham	3.70	7.19	7.88	3.25	7.39	7.27	2.80	5.59	2.80	7.67	4.27	3.19	63.00
Rocky Mount (No. 1)	2.78	6.30	5.20	2.26	7.00	6.34	6.37	3.26	6.64	11.32	4.20	2.79	64.46
Rocky Mount (No. 2)	3.32	6.51	5.90	1.73	5.34	6.04	4.58	5.28	5.95	9.70	4.43	2.43	61.21
Rougemont	1.46	6.22	4.46	4.83	4.29	6.37	3.67	8.41	2.62	7.67	3.43	2.00	55.43
Roxboro	1.15	5.88	5.50	5.54	4.33	4.64	3.02	9.04	3.56	7.00	3.97	1.80	55.43
Salisbury	3.55	8.72	7.72	4.37	4.05	6.97	9.54	4.43	3.88	11.46	4.23	3.80	72.72
Sanatorium	3.17	6.48	6.71	2.60	6.12	10.44	6.17	10.29	3.27	5.23	5.34	3.12	68.94
Scotland Neck	3.46	5.46	4.86	1.51	6.61	8.06	4.57	2.57	7.56	8.02	3.72	1.78	56.18
Settle	2.03	5.17	5.44	4.45	2.76	5.76	5.71	2.69	6.20	9.70	5.09	2.75	57.75
Shelby	3.15	9.01	7.71	3.31	5.61	3.70	10.54	1.12	7.10	10.80	5.62	2.20	69.87
Sloan	4.57	4.45	4.36	1.72	6.80	5.70	5.66	4.32	3.95	3.47	2.70	2.36	50.06
Smithfield	3.45	5.81	7.21	2.67	5.19	4.85	6.48	3.61	5.93	12.24	5.42	2.92	65.78
Southern Pines	2.35	8.25	7.85	4.53	7.96	9.05			2.07	10.09	3.85	3.47	
Southport	5.45	6.60	2.63	1.82	5.21	3.55	3.84	10.51	9.29	8.09	3.33	5.33	65.85
Star	2.63	8.02	6.49	3.15	5.57	5.48	4.01	5.05	4.81	6.50	2.40	1.94	
Statesville	2.43	7.39	5.56	3.58	3.72	4.19	5.78	3.53	3.40	11.85	5.32	3.27	59.82
Stonewall	7.71	6.36	4.23	1.20	6.81	7.83	8.68	5.12	4.21	4.20	3.96	3.76	64.06

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
North Carolina—Continued													
Swansboro	3.96	5.44	3.81	0.98	8.52	2.58	8.00	7.47	4.91	4.30	2.63	2.92	55.52
Tapoco									8.88	3.16	7.23	2.86	
Tarboro	3.92	5.96	5.80	1.94	6.13	5.72	4.87	3.02	4.73	8.62	5.23	3.17	59.11
Tryon	4.13	9.78	9.70	5.42	7.65	2.50	6.33	2.18	13.62	8.79	5.47	3.23	78.80
Waynesville				4.53	6.27	2.70	4.61	1.35	5.59	4.70	4.18	2.88	
Weldon	2.13	5.32	4.74	2.25	5.86	8.10	4.52	4.49	2.19	7.97	4.01	1.95	53.53
Wenona	6.38	5.50	3.67	0.74	9.04	10.50	5.56	3.90	5.82	6.89	2.90	3.05	63.95
Willard	6.05	6.05	3.79	0.88	8.76	5.61	2.90	4.04	5.75	7.36	2.41	4.41	58.01
Wilmington	5.64	5.21	2.06	1.64	5.25	2.87	5.03	7.80	6.56	5.81	1.63	4.27	53.77
Winston-Salem	1.90	6.42	4.03	4.70	3.35	6.46	5.51	3.71	2.84	8.23	4.45	2.80	54.40
North Dakota													
Alpha	0.56	0.13	0.91	0.44	6.27	3.50	1.83	0.39	1.95	0.81	0.29	0.42	17.50
Amenia	0.88	0.20	0.40	1.55	2.13	0.48	0.98	1.40	1.56	2.87	1.05	0.10	13.60
Arnegard	0.75	0.45	1.40	0.62	5.82	1.54	0.46	0.12	1.27	0.29	0.85	1.95	15.52
Ashley	0.72	0.20	0.65	1.40	1.83	1.18	3.08	1.25	1.51	3.13	0.26	0.40	15.67
Beach	0.65	0.15	1.26	0.47	5.53	7.99	1.20	1.36	1.42	0.89	0.60	0.84	22.36
Berthold Agency	0.37	0.10	0.75	0.20	4.17	1.21	0.35	0.52	0.65	1.10	0.13	1.30	10.85
Bismarck	0.69	0.32	1.61	1.87	2.37	1.09	1.06	0.75	1.69	1.82	0.25	0.81	14.33
Bottineau	0.61	0.23	0.31	1.38	2.66	1.66	1.17	0.95	1.54	1.28	0.64	0.45	12.88
Bowman	0.26	0.20	1.30	0.78	5.21	2.33	1.31	0.02	1.16	1.45	0.87	0.63	15.52
Cando	0.55	0.09	0.47	1.58	2.24	1.25	1.75	0.78	1.53	1.14	0.45	2.10	13.93
Carrington								0.89	1.45	1.60	0.10	0.55	
Carson	1.00	0.18	1.38	2.07	1.39	1.24	0.33	2.05	1.48	1.87	0.24	0.80	14.03
Cavalier	0.85	0.30	0.77	1.63	1.47	1.07	1.19	0.44	1.95	1.76	0.09	1.85	13.37
Cooperstown				1.52	2.12	1.47	0.97	1.90	1.33	1.68			
Corinth	0.19	0.38	0.20	0.37	3.17	1.08	1.13						
Crosby	0.24	0.12	0.17	2.03	3.74	1.51	0.17	0.96	0.84	1.34	0.47	0.70	12.29
Devils Lake	0.41	0.12	0.76	1.54	2.17	5.26	3.41	1.55	2.73	2.12	0.78	0.87	21.72
Dickinson	1.82	0.39	2.12	0.60	3.48	2.89	0.54	0.09	1.67	1.40	0.63	1.58	17.21
Dogden Butte	0.27	0.34	0.62	1.93	2.98	1.17	0.27	0.49	1.84	1.33	0.67	0.83	12.74
Drake				2.54	3.41	1.90			2.97				
Dunn Center	0.92	0.15	0.65	0.83	4.29	0.93	0.79	0.28	1.51	0.94	0.32	1.50	13.11
Dunseith	0.23	0.10	T.	0.18	1.47	1.63	2.05	1.16	2.73	1.40	0.95	0.85	12.75
Eckman	0.26	0.20	0.14	0.58	3.15	1.45	0.63	0.11	1.68	1.00	0.19	0.58	10.27
Edgeley	0.80	0.55	0.82	1.40	1.49	1.18	1.96	0.58	0.64	4.05	0.30	0.55	14.32
Ellendale	0.74	0.32	0.78	2.51	1.42	0.47	2.79	1.70	1.40	3.30	0.21	0.23	15.87
Energy	0.35	0.07	0.64	1.33	3.18	0.51	0.68	0.89	1.77	1.04	0.33	1.28	12.07
Epping	0.63	0.39	1.32	1.66	3.31	1.85	0.53	0.31	1.10	0.73	0.50	0.86	13.19
Fairfield	0.70	0.25	1.03	0.04	4.72	2.05	1.28	0.53	1.38	0.45	0.72	0.75	13.90
Fessenden	0.42	0.28	0.89	1.13	2.00	1.16	1.10	0.94	2.06	1.56	1.60	0.97	14.11
Forman	0.92	0.40	0.46	1.53	2.08	0.98	1.17	0.96	1.78	3.69	0.20	0.90	15.07
Fort Yates	1.01	0.30	2.00	2.07	1.71	1.95	0.33	0.57	1.89	3.30	0.25	0.50	15.88
Foxholm	0.09	0.68	0.76	1.28	2.97	1.27	0.52	0.30	1.09	1.12	0.62	0.48	11.18
Fryburg	1.67	0.67	2.01	0.33	4.22	3.39	0.71	0.05	1.60	1.22	0.90	1.28	18.05
Fullerton	2.27	0.76	1.21	3.03	2.37	1.13	3.19	0.90	1.41	4.56	0.41	0.83	22.07
Garrison	0.09	0.12	0.24	1.72	3.39	0.92	0.50	0.65	2.90	0.67	0.20	0.80	12.20
Grafton	0.77	0.17	0.72	1.46	1.78	0.96	3.62	0.64	1.48	1.83	0.42	0.60	14.45
Grand Forks	0.74	0.18	0.85	1.70	2.31	1.56	2.66	1.16	1.49	2.34	0.75	0.65	16.39
Granville	0.06	0.05	0.62	1.89	2.72	1.14	0.21	0.18	2.05	1.07	0.83	2.00	12.82
Hankinson				1.77	3.68	1.77	3.56	1.94	4.31	3.16	0.34	0.31	
Hannah	0.44	0.02	0.03	1.36	1.89	0.83	2.22	1.19	2.50	0.77	1.38	0.53	13.16
Hansboro	0.90	0.40	0.50	2.61	2.16	1.60	2.57	0.70	2.50	2.20	0.73	1.11	17.98
Hettinger	0.55	0.04	1.55	0.55	4.30	2.61	1.28	0.28	2.19	1.31	0.24	0.24	15.14
Hillsboro	1.15	0.25	0.30	2.12	2.27	0.60	1.91	0.94	1.01	2.81	0.57	0.21	14.14
Howard	0.34	0.51	0.40	0.70	4.52	1.24	0.78	0.02	0.71	1.23	0.43	0.62	11.50
Jamestown	0.51	0.58	1.82	1.98	2.69	0.95	1.94	0.63	1.92	3.67	0.52	1.00	18.21
Lamoine	0.65	0.38	0.86	0.71	2.47	1.22	2.91	1.55	1.54	1.98	0.60	0.70	15.57
Langdon	0.95	0.80	0.65	1.80	2.03	1.33	0.88	0.90	2.16	0.95	1.60	0.65	14.70
Larimore	0.96	0.40	1.07	2.13	3.14	3.37	2.44	1.04	1.79	2.89	1.32	1.30	21.85
Linton	0.99	0.80	0.71	1.61	1.25	0.53	1.34	0.83	2.23	2.27	0.04	1.25	13.85
Lisbon	0.50	0.50	0.75	0.67	1.75	0.83	1.24	1.07	1.29	3.82	0.25	0.40	13.07
McClusky	0.48	0.67	0.90	1.29	2.32	1.23	1.84	1.87	2.10	1.77	0.71	1.56	16.74
McKinney	0.24	0.45	0.45	1.59	4.30	1.39	0.15	1.11	0.80	1.17	0.50	1.43	13.58
McLeod	1.11	0.19	0.54	1.25	1.90	0.91	1.22	0.24	1.50	4.22	0.17	0.37	13.62
Maddock	0.80	0.02	0.53	1.82	2.16	1.37	0.67	0.93	2.29	1.30	0.84	0.44	13.17
Mandan	0.80	0.31	1.47	1.63	2.80	0.99	1.20	0.81	1.56	1.67	0.21	0.77	14.22
Manfred	0.47	0.46	0.78	1.07	1.80	1.52	1.07	0.83	2.40	2.10	0.85	0.77	14.12
Marmarth	0.69	0.59	1.91	0.26	7.29	1.15	1.52	1.14	1.12	1.04	0.77	0.29	17.77
Mary	0.80	0.17	0.71	0.22	5.35	1.54	0.44	0.38	0.86	0.75	0.53	0.71	12.46
Max					3.27	0.56	0.29	0.36	2.47	0.28	0.74	1.15	
Mayville	0.42	0.10	0.71	2.66	1.90	0.76	1.99	0.95	0.21	1.68	0.76	0.95	13.69
Melville	0.50	0.06	0.38	1.20	0.65	0.35	1.30	1.25	1.98	2.56	0.61	0.71	11.55
Metigoshe	1.05	T.	0.20	0.87	2.59	1.97	1.39	2.03	1.56				
Michigan	0.24	T.	T.	2.06	1.94	2.64	2.98	1.02	1.19	2.39			
Minot	0.10	0.14	0.29	0.23	3.19	1.16	0.46	0.17	1.31	1.78	0.26	0.57	9.66
Mott	1.57	0.70	3.00	0.76	3.95	2.07	0.22	1.18	1.46	2.08	0.36	1.00	18.35
Napoleon	0.87	0.27	1.05	1.99	2.59	0.87	3.26	0.53	2.38	2.99	0.68	0.76	18.24
New England						2.32	0.32	0.00	1.51	0.98	0.27	0.85	
New Salem	0.64	0.37	1.48	1.11	3.04	0.98	0.56	1.30	1.49	1.47	0.17	1.39	14.00
Oakes	1.12	0.26	0.54	1.80	1.97	0.62	2.21	1.66	1.47	4.75	0.62	0.29	17.31
Park River	0.74	0.18	0.77	1.57	1.39	0.70	3.22	0.70	1.24	1.49	0.23	0.70	12.93
Parshall	0.21	0.18	0.70	1.00	4.56	1.14	0.71	0.41	1.27	0.88	0.30	1.50	12.86
Pembina	0.95	0.02	0.00	1.20	2.10	0.15	1.40	0.35	1.80	1.90	1.00	1.10	11.97
Pettibone	0.18	0.51	0.52	0.55	2.20	1.02	1.42	0.91	1.47	2.78	0.47	0.90	12.93
Portal	0.24	0.19	0.70	0.71	4.57	0.65	0.00	T.	1.02	0.90	0.80	0.40	10.18
Power	1.00	0.80	1.00	1.36	1.35	1.13	0.49	0.11	1.35	4.00	0.60	1.00	14.19
Powers Lake	0.22	0.61	1.25	1.58	4.87	1.51	0.78	0.22	0.82	1.66	1.13	0.81	15.46
Richardton	0.23	T.	1.69	0.42	3.76	2.24	0.56	0.74	1.35	1.09	0.26	0.55	12.89
Rugby	0.25	0.20	0.20	1.42	1.63	0.87	0.96	0.11	1.85	1.42	0.10	0.80	9.81
Ryder	0.09	0.08	T.	0.81	4.77	0.90	0.85	0.25	1.03	0.36	0.80	0.80	10.74
Sanish								0.15	0.63				
Sharon	0.44	0.11	0.48	1.77	2.82	2.36	1.42	0.56	1.25	2.80	0.55	0.73	15.29
Stanton	0.35	0.50	0.72	1.31	2.45	0.83	0.49	2.06	1.78	1.11	0.16	0.62	12.38

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
North Dakota—Continued													
Steele	1.00	0.30	0.45	1.62	3.90	0.85	1.07	1.51	2.26	3.22	0.29	1.70	18.17
Stowers	0.37	0.05	0.74	0.90	2.60	1.96	0.60	0.11	1.61	1.97	T.	0.17	11.08
Tagus	0.05	0.05	0.08	0.57	3.80	1.32	0.70	0.17	0.84	0.42	0.12	0.17	8.29
Tioga	T.	0.20	0.20	0.30	4.39	1.59	0.28	0.41	1.38	1.24	0.60	1.20	11.88
Towner	0.80	0.20	0.40	1.30	1.90	0.80	1.30	0.18	2.52	1.05	0.83	1.41	12.69
Trotters	0.74	0.43	1.57	0.80	4.93	4.44	0.51	0.32	1.12	0.33	0.79	1.03	17.01
Turtle Lake	0.48	0.30	0.75	1.95	3.65	1.30	0.56	1.40	2.05				
Valley City	0.67	0.48	0.58	0.87	2.12	0.21	1.06	0.89	1.77	2.86	0.63	0.33	12.47
Velva	0.30	0.19	0.63	1.99	2.83	1.29	0.57	0.37	2.07	1.24	0.58	0.65	12.71
Verona	0.65	0.20	0.23	1.46	1.63	1.57	3.12	0.25	1.92	3.48	0.47	0.30	15.28
Wahpeton	0.11	0.08	0.47	1.24	2.94	0.66	1.46	1.03	2.06	2.99	0.42	0.42	13.88
Washburn	0.49	0.60	0.75	1.23	3.74	1.06	0.75	1.50	2.12	1.75	0.23	0.78	15.00
Westhope	0.10	T.	T.	1.01	4.33	0.77	1.33	0.67	0.82	1.28	0.07	0.25	10.63
Williston	0.90	0.46	1.32	1.84	3.64	1.72	0.61	0.58	1.25	0.45	0.59	1.29	14.65
Willow City	0.76	0.36	0.47	1.75	1.82	1.02	1.11	0.79	3.60	1.26	0.80	0.60	14.34
Wilton	0.70	0.50	0.35	1.68	2.70	1.06	1.75	1.60	2.23	1.31	0.25	0.81	14.94
Wishek				1.19	1.39	0.99	1.33	0.54	1.82	2.82	0.33	0.53	
Zap				0.56	3.56	0.87	0.63	0.34	1.57	0.92	0.40	0.36	
Ohio													
Akron	5.75	1.97	2.76	7.58	4.49	3.17	5.72	0.92	3.58	2.78	2.74	3.29	44.75
Alliance	4.45	2.33	2.72	5.41		2.62	5.73	0.80	3.26	2.72	5.06	2.98	
Amesville	2.95	2.41	2.33	3.61	5.74	2.87	2.25	5.44	2.86	4.45	3.96	2.37	41.24
Ashland	6.36	2.24	3.56	4.50	4.46	6.18	6.71	1.44	2.47	4.86	3.08	4.30	50.16
Athens	2.89	2.19	2.15	2.86	4.78	2.47	2.11	3.26	3.38	4.09	3.48	1.92	35.58
Bangorville	7.21	3.07	3.44	5.95	7.55	4.83	7.59	3.40	1.92	3.58	4.24	4.45	57.23
Batavia	3.40	1.58	2.01	4.16	9.08	5.17	7.60	1.81	6.17	2.94	4.85	2.57	51.34
Bellefontaine	5.06	2.45	4.01	3.93	4.42	3.72	4.23	5.95	3.17	4.04	2.14	3.76	46.88
Bellpoint	4.74	2.84	2.49	4.73	5.27	3.40	5.70	4.98	2.66	4.23	2.87	3.76	47.67
Beverly	3.15	1.92	3.06	3.81	4.98	2.37	2.46	3.51	1.94	3.65	4.54	2.53	37.92
Bowling Green	3.67	0.89	2.80	5.24	4.18	2.55	5.52	1.60	2.34	4.81	3.73		
Brecksville								1.70	1.60	2.37	2.87	3.27	
Bucyrus	6.09	2.75	3.19	4.96	3.32	4.06	8.66	3.65	2.90	5.36	3.23	3.90	52.07
Cadiz	3.68	3.05	2.47	4.97	6.22	2.91	5.41	2.21	3.44	4.49	4.44	3.91	47.23
Cambridge	3.89	2.41	2.81	4.60	5.80	4.39	3.91	4.54	3.03	3.23	5.30	3.68	47.59
Canfield	1.66	1.76	3.34	6.31	6.78	3.34	4.58	1.59	3.67	3.04	5.11	1.87	43.05
Canton	3.95	3.28	3.91	4.93	6.04	3.33	9.92	1.56	3.28	2.99	4.37	3.10	50.66
Catawba Island	3.57	1.31	2.76	5.19	3.87	2.79	3.63	1.12	2.49	4.60	3.48	3.06	37.87
Charlestown		1.85	3.25	6.19	5.25	2.57	6.03	1.38	2.10	2.58	3.83	2.92	
Chillicothe	4.43	2.31	3.38	4.99	5.09	3.59	2.93	2.45	4.76	3.76	4.86	2.58	45.13
Chilo	4.02	1.94	3.22	4.23	8.30	4.55	3.47	2.39	3.56	3.37	4.01	3.37	46.43
Cincinnati (Abbe Observatory)	4.60	1.58	2.51	3.98	7.74	4.98	4.54	1.80	5.17	3.24	4.19	2.43	46.76
Cincinnati (Government Building)	3.86	1.39	2.56	4.01	7.12	5.14	3.12	0.96	4.91	3.27	4.24	2.31	42.89
Circleville	3.78	2.39	2.41	4.31	6.02	4.16	6.00	4.82	3.28	3.79	4.55	3.75	49.26
Cleveland (Weather Bureau)	5.23	1.98	3.54	5.26	3.41	4.17	6.30	1.98	1.62	2.68	2.92	2.68	41.77
Cleveland (Carroll University)	5.75	2.11	3.81	5.18	3.27	4.58	7.31	2.10	1.76	2.27	3.60	2.76	44.50
Columbus (Weather Bureau)	3.54	3.36	1.76	3.71	4.55	4.76	2.91	3.78	2.28	4.09	3.72	3.81	42.27
Columbus (No. 2)	4.64	4.04	2.27	3.93	6.41	5.13	3.17	3.69	3.23	4.21	3.74	3.82	48.28
Cortland	3.72	1.72	3.01	7.58	5.41	2.05	5.37	1.09	2.74	2.41	4.90	3.89	43.89
Coshocton	4.10	3.76	3.11	4.75	5.90	4.05	2.34	2.80	4.20	2.56	4.92	4.28	46.77
Dam No. 28 (Ohio River)	3.33	2.84	4.53	2.46	5.72	3.11	4.88	2.63	2.19	5.01	3.31	2.01	42.02
Danbury	3.71	1.62	2.85	5.16	4.12	4.98	4.36	1.22	2.62	4.30	3.30	3.01	41.25
Dayton	4.34	3.43	2.45	4.01	7.41	5.30	5.32	1.21	3.04	3.64	2.97	3.21	46.33
Defiance	3.65	0.91	2.57	6.51	3.97	3.12	4.25	2.38	2.66	5.08	3.17	3.76	42.03
Delaware	5.16	2.93	2.25	4.21	5.97	5.06	3.72	3.94	1.83	4.55	3.27	4.40	47.29
Demos	3.59	2.47	2.22	4.91	5.41	2.44	3.68	2.30	2.62	5.34	5.05	3.72	43.75
Dennison	4.01	2.70	3.08	4.19	5.89	3.74	5.11	1.93	3.78	3.78	4.74	2.96	45.91
Dover	3.40	3.15	3.01	5.20	6.03	2.69	6.05	1.81	4.48	3.35	4.48	2.83	46.48
Eaton	5.91	3.33	3.15	4.36	7.30	6.37	7.00	3.08	2.32	3.50	3.75	3.81	53.88
Ellsworth	2.06		3.12	4.90	6.72	2.50	5.50	0.71	4.04	3.24	4.87		
Fernbank	4.68	2.39	2.44	4.48	7.77	4.03	3.59	1.81	4.37	2.86	4.42	2.61	45.45
Findlay	3.46	1.35	1.98	4.60	3.78	4.74	4.02	2.84	2.91	5.07			
Franklin	3.77	3.07	3.20	4.74	7.12	5.24	5.04	1.71	3.92	4.25	3.77	3.25	49.08
Fremont	4.60	1.86	3.01	5.35	3.84	2.58	5.74	1.93	3.15	5.79	3.51	4.36	45.72
Gallipolis	2.73	2.82	4.15	2.45	5.25	2.06	3.51	3.24	2.99	4.77	4.36	2.48	40.81
Germantown	6.15	4.00	2.76	3.64	7.66	5.17	4.90	1.53	3.19	3.67	3.58	3.08	49.33
Granville	4.30	3.49	2.78	5.50	6.81	5.52	3.50	4.36	3.38	5.45	4.63	3.67	53.39
Greenville		2.61	3.49	3.94	5.46	8.91	3.53	2.25	2.21	4.13	2.39	4.29	
Hamilton (No. 1)	4.45	3.17	3.48	4.14	9.23	5.35	6.85	2.08	4.11	4.02	4.03	3.41	54.32
Hamilton (No. 2)	4.41	3.17	2.93	4.44	9.51	4.67	6.99	2.16	4.01	4.84	4.18	3.24	54.55
Hillsboro	5.27	2.52	2.99	3.96	7.27	4.99	6.62	2.48	3.46	3.88	4.64	3.12	51.20
Hiram	5.35	2.08		7.62	6.12	3.01	5.49	1.42	2.37	2.87	4.39	3.22	
Holgate						4.22	5.55	2.03	2.45	6.08	3.11	3.45	
Ironton	3.58	2.77	4.17	2.16	6.98	3.58	4.31	2.50	1.48	5.97	4.49	2.58	44.57
Jackson	3.81	2.49	2.98	3.48	6.86	3.48	4.52	3.08	2.76	4.24	4.18	2.27	44.15
Kenton	4.76	2.13	2.86	4.28	4.52	6.30	5.07	2.66	2.37	5.57	2.36	3.81	46.69
Kings Mills							11.64	2.29	4.60	3.53	4.27	2.91	
Kinsman	3.47	1.08	3.80	6.70	6.49	2.46	5.91	2.10	3.11	2.68			
Lake Milton	3.29	2.03	3.40	5.29	6.36	1.55	4.95	1.40	2.29	2.60	4.44	2.53	40.13
Lakeview	4.19	2.15	2.03	4.35	5.46	3.25	6.43	4.60	1.47	3.48	2.28	4.05	43.74
Lancaster	4.34	2.40	2.50	4.40	4.90	2.56	1.48	6.07	3.93	3.91	5.34	3.20	45.03
Larue				4.10	3.85	3.10	5.50	3.53	2.07	4.17	2.35	2.86	
Lima	4.92	1.60	3.20	4.63	4.26	3.86	6.14	3.28	2.91	6.21	2.61	4.60	48.22
London	5.15		3.23	4.78	7.40	2.32	5.58		3.66	4.80	4.15		
Lowell									2.81	3.95	3.92	2.52	
McArthur	4.03	1.90	2.41	2.84	5.62	4.08	4.55	3.65	3.32	4.07	4.35	2.19	43.01
McConnelsville (No. 1)	4.10	3.16	2.30	4.49	6.64	3.60	3.21	7.34	2.42	3.21	4.26		
McConnelsville (No. 2)									2.14	3.36	4.30	2.42	
Madison	4.29	1.49	2.84	7.04	3.05	3.43	2.41	1.36	2.93				
Mansfield	5.08	2.36	4.26	5.71	5.35	3.18	8.96	3.14	2.48	3.73	3.97	4.17	52.39
Marietta (No. 1)	3.31	2.69	2.66	4.08	4.73	5.12	1.74	3.59	3.21	4.63	3.57	3.02	42.35
Marietta (No. 2)	3.17	2.73	2.88	3.84	5.02	4.32	2.06	3.36	3.52	4.06	4.37	3.10	42.43

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Ohio—Continued													
Marion	5.09	2.64	4.26	6.35	4.60	4.98	4.36	3.10	2.82	7.23	3.18	5.42	54.03
Marysville	5.24	3.00	2.41	3.81	5.95	5.29	7.33	4.09	3.42	5.40	4.42	4.30	54.66
Medina	5.36	2.38	2.95	5.40	5.14	4.97	5.20	0.94	3.65	3.07	3.24	3.40	45.70
Miamisburg	5.38	3.86	3.52	3.72	7.45	4.83	7.45	1.77	3.93	4.09	4.09	4.02	54.11
Middleport	3.37	2.90	3.62	3.75	5.97	2.83	4.24	4.25	3.61	5.03	5.05	2.27	46.89
Middletown	4.71	3.32	3.23	3.85	8.02	4.94	5.28	1.78	4.21	3.47	4.19	3.48	50.48
Millersburg	4.18	3.15	2.68	7.29	4.07	2.38	5.36	1.87	1.67	2.40	3.71	3.34	42.10
Millport	3.94	2.74	2.21	5.06	6.50	2.90	5.34	1.61	4.23	3.66	5.17	2.77	46.13
Mineral Ridge	3.54	2.25	2.72	6.37	5.70	2.00	6.11	0.93	2.49	2.18	4.49	2.98	41.76
Montpelier	3.70	1.18	3.00	6.99			1.73	1.64	3.23	5.49	3.22	3.05	
Mount Healthy	4.50	2.50	2.83	4.97	9.63	3.76	6.48	1.97	4.33	4.29	4.38	2.08	51.72
Mount Vernon (near)	3.45	2.41	1.87	4.58	4.26	5.36	4.59	2.41	2.50	4.17	4.57	5.33	45.50
Napoleon	3.95	0.89	3.03	7.11	4.28	4.73	4.23	0.91	3.32	6.52	3.47	3.89	46.33
New Bremen	4.91	2.62	2.19	3.68	4.58	6.15	6.20	3.63	2.56	3.70	2.17	5.29	47.68
New Carlisle										2.53	3.93	3.39	
Newcomerstown	3.73	2.94	2.70		6.20	3.96	3.84	2.58	3.25	2.50	4.82	2.77	
North Bass Island	2.48	0.76	1.38	5.81	3.25	1.62	1.86	1.34	2.72	3.73		2.66	
Norwalk	4.65	1.73	2.39	5.73	4.02	7.17	7.04	1.06	2.36	4.84	2.41	3.66	47.06
Oberlin	4.45	1.98	2.53	6.48	4.08	3.32	7.21	1.02	2.53	3.27	2.74	3.91	43.52
Ohio State University	4.40	3.47	2.33	4.32	5.98	6.34	2.91	3.56	2.91	4.75	3.91	3.37	48.25
Ottawa	3.32	1.23	4.49	4.00	3.83	4.92	4.08	3.76	1.93	4.45	2.86	4.18	43.05
Oxford	4.82	3.26	3.12	3.81	7.55	5.02	4.80	2.85	3.00	3.60	3.56	3.20	48.59
Pataskala	4.00	3.23	3.02	3.80	4.45	3.93	3.90	4.35	2.90	3.94	4.31	3.38	45.27
Paulding	4.36	1.21	3.04	6.06	5.50	4.66	3.58	2.07	3.25	5.57	2.76	3.38	45.44
Peebles (near)	4.86	1.82	2.55	4.50	7.86	2.98	2.94	1.89	5.98	2.61	4.53	2.39	44.91
Phalanx	5.10	3.02	4.09		5.18	2.66	5.35	1.30	2.80	2.09	4.54		
Philo (No. 1)	3.22	2.09	1.85	3.98	4.94	2.63	2.18	5.30	2.29	3.16	5.04	3.20	39.88
Philo (No. 2)	3.52	2.09	2.44	5.29	5.68	3.89	2.57	5.98	2.84	3.87	5.40	3.50	47.07
Piqua	5.65	2.58	3.21	4.24	5.55	5.54	4.76	3.35	1.90	3.62	3.16	3.23	46.79
Pleasant Hill	5.22	2.41	3.02	3.70	5.48	3.65	6.53	3.78	2.60	3.34	2.39	3.13	45.25
Portsmouth (No. 1)	2.93	2.78	3.42	3.18	6.14	2.49	5.60	4.72	2.29	3.46	2.85	1.86	42.72
Portsmouth (No. 2)	3.77	2.73	3.65	3.34	5.55	2.80	4.44	3.03	2.31	3.44	3.10	2.15	40.31
Prospect	4.71	2.32	3.04	4.28	5.62	4.69	3.62	3.29	2.28	4.91	3.39	3.47	45.62
Put-in-Bay	3.69	1.19	2.77	4.98	3.23	1.56	1.91	1.46	3.11	3.55	3.25	3.17	33.87
Russellville		1.97	2.48	3.81	6.99	3.48	4.80	2.62	4.80	3.43	4.98		
Saint Paris										4.04	3.22	3.44	
Sandusky	4.00	1.79	3.01	5.76	4.43	4.12	4.15	1.58	2.53	5.00	2.74	3.82	42.93
Sidney	7.30	2.50	2.43	3.36	5.90	4.64	4.46	3.81	2.02	3.97	2.59	4.25	47.23
Springfield (No. 1)	5.90	3.62	2.33	4.26	5.84	8.23	5.44	3.51	3.20	3.89	4.21	3.06	53.49
Springfield (No. 2)	5.32	4.51	3.16	4.36	7.23	8.25	8.60	5.07	3.67	3.72	3.80	3.96	61.65
Summerfield	3.79	2.17	1.68	4.70	5.12	3.40	3.53	5.00	2.40	3.88	4.53	3.31	43.61
Tiffin	4.35	2.01	3.37	6.04	3.57	2.65	5.43	2.83	3.22	5.83	2.64		
Tippecanoe City	5.25	3.28	2.66	4.08	7.08	4.23	8.17	3.22	3.26	3.21	3.56	3.03	51.03
Toboso	4.80	4.60	2.53	3.98	4.77	4.26	3.65	4.93	4.59	3.50	4.10	3.20	48.91
Toledo	3.72	1.08	2.76	7.13	3.62	3.03	3.98	1.30	3.21	5.70	3.77	3.42	42.72
Toledo (near)	3.51		2.05	6.60	3.24	2.74	3.32	0.96	3.23	3.92	3.61	3.29	
Upper Sandusky	5.22	2.33	3.23	5.36	3.35	5.18	4.53	3.50	2.86	4.99	2.79	4.12	47.46
Urbana	5.14		2.75	4.79	5.71	5.89	5.94	4.41	3.22	4.64	3.61	2.77	
Valley Crossing	3.74	3.55	2.01	4.27	4.67	4.02	3.35	3.21	3.21	3.79	3.89	3.47	43.18
Van Wert	3.12	1.02	2.89	4.89	5.34	1.95	5.24	3.80	2.72	6.33	2.78	3.69	43.77
Versailles	6.25	2.61	3.05	4.84	6.03	5.26	5.83	4.23	1.63	3.83	3.07	3.62	50.25
Vickery	3.64	1.47	2.74	4.52	3.41	2.45	5.39	1.30	2.18	4.34	2.63	3.62	37.69
Walhonding	4.80	2.85	2.09	5.08	3.79	4.86	2.36	2.89	2.29	2.86	3.67	3.19	40.73
Wapakoneta	4.07	1.71	2.42	3.91	3.51	4.07	3.12	4.49	1.60	4.69	2.29	4.98	40.86
Warren	4.20	2.95	3.13	6.26	6.24	2.03	7.18	1.70	2.22	2.14	5.32	3.45	46.82
Washington Courthouse	3.86	2.33	2.37	3.69	6.42	3.64	3.71	2.33	4.13	3.80	3.77	2.55	42.60
Wauseon	4.95	0.76	3.62	7.12	3.52	3.66	3.14	1.98	2.93	5.76	3.31	3.29	44.04
Waverly	4.23	2.17	2.41										
West Manchester				5.15					3.39	3.75	3.48	4.75	
Willoughby	3.97	2.00		7.37	3.08	2.59	6.53	1.45	2.27	1.99	3.24	2.92	
Wilmington	5.74	4.64	3.12	4.22	7.25	4.51	9.62	5.07	4.62	3.71	5.28	3.83	61.61
Wooster (No. 1)	5.29	2.62	3.18	5.58	4.84	4.10	6.79	1.26	1.66	2.37	3.54	3.12	44.35
Wooster (No. 2)	4.88	2.46	2.63	6.02	4.98	3.97	6.79	1.36	1.84	2.26	3.48	2.93	43.60
Xenia												3.10	
Youngstown	3.23	2.07	2.90	6.23	7.02	1.59	5.54	1.33	2.11	2.48	4.29	3.43	42.22
Zanesville	3.44	2.44	2.61	5.28	7.41	3.89	2.98	5.03	4.04	3.28	4.65	2.92	47.97
Oklahoma													
Ada	2.31	0.94	2.54	1.72	9.54	1.93	1.46	T.	5.08	6.55	2.03	1.30	35.40
Altus	0.20	0.35	4.11	0.50	4.79	2.09	1.78	0.37	5.22	2.00	3.12	0.80	25.33
Alva	1.54	0.59	2.04	0.83	6.73	1.96	3.18	2.79	3.72	2.48	3.73	0.13	29.72
Antlers	4.10	3.35	1.95	1.48	11.43	2.92	3.66	0.38	9.16	7.41	1.77	5.56	53.17
Apache	1.36	0.83	4.76	3.69	8.73	5.24	2.03	1.43	4.21	1.29	1.57	0.11	35.25
Arapaho	1.16	1.20	5.15	0.64	5.86	2.49	1.55	2.53	6.00	3.05	3.45	0.05	33.13
Ardmore	2.66	1.17	2.04	2.41	9.96	5.28	1.98	1.85	4.68	3.86	1.51	0.83	38.23
Arnett	0.86	0.54	2.07	1.29	2.80	0.59	3.07	1.09	3.16	1.63	3.15	0.02	20.27
Atoka	3.98	1.90	2.71	1.40	8.61	2.39	0.91	0.45	8.50	7.68	2.09	2.55	43.17
Bartlesville	1.01	1.38	3.46	6.35	7.89	7.25	4.17	0.50	1.10	4.91	1.42	0.19	39.63
Beaver	0.33	0.72	1.25	1.18	2.80	1.37	2.25	2.38	0.97	1.57	2.32	T.	17.14
Blackwell	1.23	0.77	2.00	3.43	8.02	4.66	1.23	0.34	1.59		1.73	0.08	
Boise City	T.	0.45	0.97	0.31	1.68	0.59	2.13	2.85	1.18	0.36	1.55	0.20	12.27
Bristow	2.38	1.79	3.07	3.90	9.20	4.47	2.33	0.31	4.29	4.92	1.45	1.77	39.88
Broken Arrow	2.55	1.13	4.13	6.79	7.02	5.95	3.07	0.43	3.07	4.82	1.39	1.23	41.58
Buffalo	0.90	0.60	1.20	0.90	3.38	1.66	2.90	1.54	2.68	1.75	3.30		
Calvin	2.78	1.42	3.07	1.87	7.89	3.89	2.04	2.00	6.76	6.85	2.54	1.08	42.19
Camargo	1.55	1.55	2.32	0.33	2.03	2.58	2.20	0.16	4.66	2.56	3.03	T.	22.97
Canton	1.30	0.72	2.80	1.07	5.64	1.00	1.30	0.12	2.10	5.30	2.30	T.	23.45
Carnegie	0.28	0.54	4.65	2.46	7.29	4.30	1.22	0.46	7.57	1.47	2.02	T.	32.26
Chandler	1.90	1.58	4.70	3.17	7.95	2.06	2.82	0.25	3.76	2.34	2.43	0.87	33.83
Chattanooga	0.24	1.05	1.48	0.10	8.64	1.65	3.05	0.20	4.48	1.72	0.94	T.	23.55
Cherokee		0.67	1.60	1.74	4.87	3.41	2.90	1.94	2.02	3.72	2.72	0.41	
Cheyenne	0.70	1.06	3.34	0.03	3.53	2.19	1.13	0.63	8.23	1.55	3.14	0.14	25.67
Chickasha	1.49	1.20	0.72	2.81	7.59	2.91	2.00	0.36	6.29	1.93	1.55	0.19	35.04
Claremore	1.21	1.47	3.16	5.91	6.87	5.54	3.40	0.10	2.21	4.97	1.37	1.37	37.58
Cleveland	2.00	1.57	3.35	5.15	9.16	8.97	5.65	0.72	1.54	4.18	1.32	0.51	44.12

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Oklahoma*—Continued**													
Cloud Chief	0.73	0.89	6.00	1.85	5.48	3.24	1.73	1.52	7.99	2.87	2.67	0.10	35.07
Durant	2.86	1.98	2.95	2.27	10.69	2.52	1.59	0.45	6.58	6.82	1.40	3.09	43.20
Elk City	0.77	1.15	5.10	0.50	4.00	2.00	0.93	0.35	4.80	1.85	2.30	T.	23.75
Enid	1.15	1.74	3.27	2.96	10.58	3.97	1.55	0.36	1.67	4.04	1.78	0.02	33.00
Erick	0.30	0.50	4.00	0.69	4.77	1.61	1.98	2.25	4.35	1.31	2.24	0.14	24.14
Eufaula	5.41	3.60	5.06	1.50	11.72	6.96	3.37	1.25	4.89	5.97	2.82	2.97	55.52
Fort Gibson	3.78	1.84	2.74	2.84	10.72	4.59	2.72	0.16	2.22	5.14	1.41	1.56	39.72
Fort Reno	1.28	0.81	5.15	4.08	8.18	2.61	2.20	0.55	2.30	------	2.41	0.00	------
Frederick	0.52	0.83	2.22	0.05	5.77	1.12	2.62	0.48	3.86	1.54	1.28	0.09	20.38
Geary	0.74	1.39	4.31	3.61	8.07	1.28	2.12	0.24	4.34	2.96	3.45	0.05	32.56
Goodwell	0.30	0.22	2.02	0.24	2.22	2.28	4.62	2.64	0.91	1.14	1.77	0.01	18.37
Guthrie	1.19	1.13	4.16	3.99	7.87	1.33	2.24	T.	3.04	3.10	2.14	1.42	31.61
Hammon	0.86	0.97	3.56	0.05	3.70	1.83	1.75	1.14	6.27	2.02	3.30	0.06	25.51
Hennessey	1.10	1.37	2.57	2.64	9.31	2.21	1.77	0.20	1.68	4.28	2.11	0.00	29.24
Hobart	0.55	2.71	6.29	2.81	5.46	2.72	1.75	0.61	5.47	2.24	1.61	0.12	32.34
Holdenville	3.10	1.57	4.08	2.54	7.42	3.85	2.29	1.22	6.79	7.94	1.94	1.33	44.07
Hollis	0.48	0.55	5.85	0.35	3.23	3.75	0.30	1.09	4.50	2.56	1.15	0.20	24.01
Hooker	0.65	1.18	1.47	0.05	3.57	2.31	5.64	1.39	1.80	1.51	2.44	0.00	22.01
Hugo	5.16	3.08	1.80	2.55	10.34	3.90	1.44	0.57	5.91	6.43	2.62	4.16	47.96
Idabel	6.32	3.45	2.52	3.47	8.24	2.36	2.49	0.00	5.73	4.53	2.34	3.82	45.27
Jefferson	1.48	0.94	1.52	1.93	5.51	3.02	2.43	0.58	1.97	2.55	1.99	0.24	24.16
Kenton	0.16	0.44	1.00	0.06	2.38	0.77	3.16	3.02	1.61	0.35	1.66	0.23	14.84
Kingfisher	0.45	1.79	3.87	4.11	8.01	1.64	3.34	0.12	2.77	4.82	2.74	0.00	33.86
Lawton	1.24	0.93	3.35	0.07	14.78	2.23	4.30	0.66	5.24	2.43	1.54	0.10	36.87
McAlester	4.42	2.46	3.55	1.70	16.25	7.24	2.94	0.90	7.24	8.30	1.96	2.51	59.47
Mangum	0.60	0.70	6.25	1.32	4.04	1.79	0.69	1.54	3.50	2.33	1.58	0.15	24.49
Marlow	1.50	1.28	3.90	0.41	7.67	4.13	4.46	0.32	5.47	3.08	1.09	0.31	33.62
Meeker	2.58	1.65	6.57	3.28	8.70	2.92	3.03	0.23	2.50	4.45	1.77	0.56	38.24
Miami	4.68	1.49	2.05	7.72	9.05	7.01	3.78	3.68	3.62	4.08	1.50	0.42	49.08
Muskogee	4.14	2.12	3.28	2.49	9.97	4.98	2.78	0.97	2.33	4.81	2.00	1.61	41.48
Mutual	1.39	0.76	2.62	0.46	2.49	1.83	2.02	0.62	4.87	3.67	3.61	------	------
Newkirk	1.71	1.33	1.95	4.24	7.54	6.90	1.76	0.13	1.32	1.90	1.92	0.07	30.77
Norman	2.41	1.49	5.56	2.47	12.90	1.64	1.32	1.65	5.99	4.32	1.49	0.32	41.56
Oakwood	1.81	0.92	3.30	1.35	5.71	1.30	1.52	0.21	3.54	3.09	1.95	0.00	24.70
Okay	3.51	2.10	3.34	4.53	10.00	4.07	2.60	0.20	2.85	4.98	1.80	0.86	40.84
Okeene	1.17	1.35	2.28	1.30	7.78	2.17	3.14	0.07	2.06	4.42	2.61	T.	28.35
Okemah	2.94	1.14	5.31	1.59	7.75	3.96	2.76	0.02	3.01	4.87	1.71	0.98	36.04
Oklahoma City	1.61	0.93	5.05	2.08	6.67	1.60	3.37	0.93	2.69	4.49	1.74	0.57	31.78
Okmulgee	3.62	1.23	5.22	5.14	9.19	3.00	2.03	1.19	3.60	4.50	1.92	2.46	43.10
Pauls Valley	2.29	1.05	3.52	0.83	8.44	3.05	0.81	0.03	5.14	5.37	1.71	0.64	32.88
Pawhuska	1.92	2.32	3.60	7.26	7.86	9.66	4.87	0.27	1.62	3.28	1.52	0.41	44.59
Pensacola	1.98	0.72	3.76	6.57	7.60	6.14	3.12	0.98	2.83	7.52	1.31	1.14	43.67
Perkins	1.92	2.14	3.88	4.82	8.18	3.37	4.44	0.60	2.56	3.07	1.69	0.82	37.49
Perry	1.57	2.45	3.47	7.73	8.75	3.02	4.95	0.40	2.72	5.46	2.54	0.42	43.46
Poteau	4.01	3.31	2.54	4.17	11.89	6.26	2.49	1.02	5.32	3.92	------	3.09	------
Pryor	1.92	2.10	3.25	7.77	9.08	6.28	3.90	0.31	3.11	4.36	1.86	1.35	45.29
Purcell	2.97	1.60	5.97	1.41	10.28	1.69	2.55	0.26	6.29	4.37	1.20	T.	38.59
Ralston	1.65	1.74	2.89	5.83	12.04	6.36	1.81	T.	0.68	2.63	1.73	0.34	37.70
Reno Junction	1.73	------	5.12	2.29	8.09	2.36	2.94	0.25	------	------	------	------	------
Sageeyah	2.08	1.48	3.08	5.82	6.20	6.59	3.57	0.00	1.88	5.86	1.47	0.99	39.02
Sallisaw	4.73	4.16	4.35	5.07	9.02	6.06	4.02	T.	3.07	7.08	1.91	3.00	52.47
Shawnee	2.38	1.26	5.76	3.04	12.48	2.09	2.10	T.	2.79	4.50	2.11	0.38	38.89
Smithville	6.75	5.36	3.14	4.33	9.15	3.62	3.57	0.25	6.18	8.97	2.84	4.48	58.64
Spavinaw	3.33	1.78	1.77	7.18	8.85	8.56	4.69	0.58	1.98	5.38	1.54	1.12	46.78
Stillwater	------	1.66	4.19	7.97	8.99	2.11	2.66	0.43	2.66	4.38	1.80	0.10	------
Sulphur	2.04	1.22	3.52	1.87	10.46	2.49	1.84	0.14	5.05	6.76	2.36	2.78	40.53
Supply	0.68	0.19	1.91	0.35	2.17	0.35	2.99	2.16	4.58	3.38	2.49	T.	21.25
Tahlequah	1.51	------	1.56	4.24	6.40	3.83	3.66	1.10	3.18	5.20	2.15	1.69	------
Tishomingo	2.43	1.58	2.67	1.77	10.42	1.84	1.28	0.00	4.60	6.01	2.94	1.24	36.78
Tulsa	2.16	1.65	3.80	7.55	6.58	6.85	2.88	0.47	3.96	5.72	1.31	0.94	43.87
Tuskahoma	5.90	3.17	2.19	2.43	13.44	4.71	3.96	1.46	5.11	5.23	1.61	4.68	53.89
Union City	1.72	0.80	6.08	1.22	8.88	1.59	2.20	0.14	4.32	4.34	1.79	0.26	33.34
Vinita	2.46	2.14	2.75	8.31	7.99	5.13	4.15	0.52	1.87	4.20	1.58	1.12	42.23
Walters	1.22	2.02	1.52	0.51	6.50	2.09	3.34	0.02	6.42	2.55	1.22	0.00	27.41
Watonga	1.22	1.56	5.16	3.04	6.11	0.92	5.79	0.61	2.52	2.60	3.24	0.09	32.86
Watts	4.19	3.57	2.40	4.86	9.25	4.98	5.77	T.	5.35	4.80	1.42	1.78	48.87
Waukomis	1.00	1.83	3.05	3.05	10.43	1.97	1.81	T.	2.32	3.91	2.03	0.05	31.45
Waurika	2.24	1.12	1.81	1.22	6.77	2.21	5.74	0.49	5.46	1.68	1.40	0.18	30.32
Weatherford	0.95	1.16	5.49	2.83	8.44	3.14	2.04	0.82	5.72	4.46	3.67	0.08	38.80
Webbers Falls	3.47	2.46	4.74	3.14	8.18	4.63	4.48	0.26	2.23	4.39	2.12	3.05	43.15
Wichita National Forest	0.52	0.27	3.20	1.69	6.85	1.84	5.78	0.24	1.57	2.34	1.55	0.00	25.85
Woodward	1.08	1.76	2.61	0.61	3.75	0.84	3.30	1.83	5.52	1.95	3.19	0.04	26.48
Wyandotte	2.06	0.82	2.25	9.94	9.33	9.38	3.30	2.05	1.23	2.98	1.25	0.67	45.26
Oregon													
Albany	3.58	0.57	2.49	3.83	1.49	1.88	0.00	0.04	0.10	1.03	0.53	11.13	26.67
Andrews	0.70	0.24	0.70	0.91	0.05	1.57	0.11	0.14	0.35	0.01	T.	0.35	5.13
Antelope	1.15	0.66	0.50	1.27	1.04	0.67	0.00	0.00	0.03	0.13	0.03	3.94	9.42
Arlington	2.21	0.31	0.44	0.20	T.	0.23	0.00	T.	0.12	0.16	0.00	3.24	6.91
Ashland	2.35	0.50	1.71	1.57	0.68	1.49	0.00	0.00	0.10	0.83	T.	6.43	15.66
Astoria	5.80	3.29	8.79	7.23	2.42	4.43	0.69	0.67	0.81	2.60	2.08	13.72	52.62
Austin	------	0.10	1.68	1.60	0.60	1.42	0.00	0.74	0.83	0.43	0.57	4.58	------
Baker	1.98	0.15	0.47	1.12	0.59	1.61	0.03	0.25	0.28	0.16	0.10	1.59	8.33
Bear Creek	1.55	0.02	1.02	0.76	0.18	0.68	T.	0.00	0.07	0.17	0.02	3.49	7.96
Bear Valley	2.75	0.39	1.13	1.20	0.50	1.53	0.05	0.21	0.17	0.25	0.27	3.77	12.22
Beech Creek	2.51	0.41	0.92	2.27	0.60	2.19	0.00	T.	0.48	0.30	0.40	4.79	14.87
Bend	1.09	0.31	0.52	1.80	0.93	2.33	0.41	T.	0.22	0.11	0.04	5.72	13.48
Big Eddy	2.54	0.12	0.31	0.30	0.14	0.40	0.00	0.00	0.13	0.17	0.00	5.18	9.29
Blitzen	1.15	0.54	1.32	1.73	0.09	2.05	0.00	0.00	0.42	0.00	0.07	0.78	8.15
Brookings	9.39	1.94	3.95	8.43	1.27	3.84	T.	0.36	0.00	1.67	0.20	15.45	46.50
Cascade Locks	10.40	4.31	5.92	7.27	1.84	2.89	0.10	0.32	1.05	2.17	0.86	18.82	55.95
Cascade Summit	9.89	0.78	3.73	5.03	1.42	0.61	0.00	T.	0.12	2.24	0.69	14.83	39.34
Cascadia	10.02	3.31	7.64	7.81	5.13	4.57	T.	0.03	0.12	3.15	1.04	16.45	59.27
Cazadero	5.18	1.34	4.53	6.31	2.83	4.67	0.01	0.24	0.37	2.34	1.12	13.72	42.66

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Oregon—Continued													
Chiloquin	1.77	0.31	0.37	1.33	0.28	0.78	0.00	0.00	0.06	1.15	0.01	6.10	12.16
Condon	2.29	0.80	0.35	0.95	1.14	0.84	0.00	T.	0.15	0.48	0.17	2.93	10.10
Coquille River	7.19	1.45	3.51	5.06	0.96	3.12	0.04	0.05	0.10	1.36	0.61	11.63	35.08
Cornucopia	5.97	2.66	3.83	6.21	1.21	4.43	0.11	1.22	0.32	1.30	0.20	8.29	35.75
Corvallis	3.60	0.36	2.49	3.63	0.40	1.28	T.	0.03	0.26	0.66	0.30	11.44	24.45
Cottage Grove	7.19	0.67	3.05	5.46	1.29	2.90	0.00	0.06	0.25	1.29	0.69	13.27	36.12
Cove	3.06	0.73	2.14	1.33	0.73	3.97	0.00	1.32	0.36	1.28	0.39	2.94	18.25
Crater Lake								0.00		2.35	0.53	7.37	
Crossett							0.52	0.41	0.50	2.26	1.23	14.92	
Cruzatte	12.36	2.39	9.55	11.73	5.23	5.52	0.08	0.00	0.34	3.41	1.06	19.58	71.25
Danner						2.26	0.00	0.00		0.21		0.83	
Dayville	1.21	0.08	0.69	0.88	0.63	1.53	T.	0.09	0.57	0.17	0.21	3.31	9.37
Detroit	8.75	3.07	6.14	7.70	2.24	3.88	0.00	0.00	1.04	1.70	0.56	20.11	55.19
Diamond Lake	4.61	0.38	1.57	3.19	0.91								
Doraville	5.06	2.04	5.32	4.20	1.73	1.88	0.14	0.72	0.63	1.31	0.77	9.78	33.58
Drain	6.52	1.46	3.07	4.32	1.13	2.25	0.01	0.10	0.14	1.07	0.72	13.09	33.88
Drewsey	1.13	0.25	0.54	0.65	0.30				0.16				
Dufur	2.24	0.09	0.25	0.45	0.22	0.58	0.00	0.00	T.	0.16	T.	3.83	7.82
Echo	2.89	0.44	0.26	0.42	0.35	1.02	0.00	T.	0.17	0.45	0.14	2.90	9.04
Eugene	3.52	1.42	2.88	4.15	0.76	3.55	0.04	0.08	0.28	1.24	0.80	13.38	32.10
Eula	5.51	1.81	5.37	6.33	1.57	3.30	0.00	0.00	0.18	1.10	0.69	14.03	39.89
Fall River	3.68	0.73	1.54	1.69	0.91	1.03	0.01	0.05	0.02	0.51	0.04	7.79	18.00
Falls City	5.80	1.37	3.22	7.37	1.00	1.98	T.	0.00	0.40	1.15	0.60	15.66	38.55
Fish Lake	6.49	1.28	4.85	6.94	1.07	1.89	0.00	0.00	0.00	1.22	0.30	8.90	32.94
Forest Grove	3.51	0.80	2.40	4.02	0.87	2.05	0.09	0.24	0.19	0.86	0.53	10.55	26.11
Fossil	1.70	0.80	0.96	2.13	1.47	1.27	T.	T.	T.	0.44	0.18	3.23	12.18
Fremont	0.39	0.27	0.34	1.02	0.03	0.90	T.	T.	0.01	0.56	0.62	3.09	6.63
French Glen	1.01	0.54	1.02	2.03	0.12	2.38	T.	0.00	0.44	T.	T.	1.75	9.29
Friend	2.68	0.19	0.38	1.24	0.45	0.63	0.00	0.00	0.08	0.10	T.	4.95	10.70
Gerber Dam	1.41	0.44	0.63	2.24	0.08	1.29	0.00	0.00	0.01	0.67	0.00	3.80	10.57
Gold Beach									T.	1.45	0.30	15.43	
Government Camp	15.10	4.85	10.39						1.17	2.15		17.00	
Grande Ronde	7.36	1.63	4.07	6.41	1.28	2.11	0.00	0.05	0.54	1.46	0.78	14.78	40.53
Grants Pass	2.24	0.90	2.09	2.94	0.05	2.53	0.00	0.00	0.00	1.23	T.	10.06	22.04
Harney Branch Experiment Station	0.50	0.41	0.28	1.20	0.10	1.32	T.	T.	0.01	0.04	0.02	1.72	5.60
Harper	1.09	0.27	0.77	0.61	T.	1.90	T.	0.03	0.05	0.03	0.02	1.66	6.43
Harrisburg	3.18	0.77	2.69									13.86	
Hay Creek	1.07	0.31	0.51	0.88	1.45	0.88	0.00	0.00	0.00	0.13	0.19	3.83	9.25
Headworks	8.62	2.98	7.50	7.79	3.78	3.74	0.09	0.38	1.56	2.64	1.35	15.24	55.67
Hendricks Bridge	7.43	1.99	5.07	6.45						2.60	1.05	12.73	
Heppner	2.07	0.69	0.59	0.98	0.53	1.48	T.	T.	0.14	0.73	0.19	3.03	10.43
Hermiston	1.46	0.24	0.17	0.20	0.35	0.81	0.00	0.04	0.05	0.37	0.10	2.75	6.54
Hillcrest Orchard	1.86	0.42	0.91	1.93	0.38	2.96	0.00	0.00	0.00	1.15	0.05	5.79	15.45
Hillsboro											0.57	8.16	
Hood River	4.58	0.47	1.21	1.81	0.44	0.63	0.00	0.00	0.07	0.28	0.00	9.51	19.00
Howardville	5.23	1.56	2.02	1.93	0.84	3.34	T.	0.48	0.40	1.08	0.36	3.80	21.04
Huntington	2.05	0.33	0.60	1.33	0.12	2.39	0.00	0.20	0.03	0.15	0.07	2.02	9.29
Intake	6.86	1.14	3.02	4.25	2.95	3.88	0.00	0.02	1.34	1.37	0.67	10.85	36.35
Jacksonville	2.83	0.43	1.42	2.31	0.33	2.41	0.00	0.00	T.	1.10	0.04	7.98	18.85
Jefferson	3.88	0.62	3.17	4.07						1.21	0.58	11.69	
Jewell	8.25	3.73	7.02	6.62	2.92	3.08	0.45	0.51	1.16	2.57	1.32	15.03	52.66
Joseph	2.06	1.43	1.30	1.58	0.67	2.82	T.	0.27	0.10	0.84	0.15	2.41	13.63
Juniper Ranch	1.50	0.22	1.26	1.37	0.10	1.02	0.22	0.02	0.57	0.07	0.25	1.72	8.32
Keno	2.20	0.43	0.95	1.87	0.22	0.88	0.00	T.	0.00	0.93	0.06	7.60	15.14
Kent	1.18	0.66	0.29	0.68	1.00	0.68	0.00	T.	0.14	0.42	0.16	2.89	8.10
Kingman	1.20	0.66	0.52	1.02	0.35	2.20	0.00	T.	0.17	0.03	T.	1.09	7.24
Klamath Falls	1.73	0.10	0.57	0.51	0.05	0.23	0.00	0.00	0.00	1.09	0.03	4.25	8.56
La Grande	3.79	0.85	2.03	1.37	1.33	2.31	0.05	0.46	0.20	0.80	0.59	3.18	16.96
Lake	0.33	0.02	0.22	1.03	0.34	0.74	0.00	T.	0.10	0.40	T.	1.66	4.84
Lake Creek	5.23	1.38	3.52	4.97	1.46	2.06	0.00	T.	0.00	1.62	0.00	8.22	28.46
Lakeview	1.00	0.50	0.69	2.04	0.02	1.31	0.00	0.02	0.16	0.45	T.	3.22	9.41
McMinnville	3.16	0.75	2.32	4.28	0.94	1.87	T.	0.19	0.17	0.98	0.64	9.22	24.52
Madras	0.89	0.19	0.16	0.76	1.09	6.65	T.	T.	0.02	0.09	0.04	3.96	7.85
Malin	0.85	0.28	0.88	1.51	0.16	0.31	0.00	0.00	0.00	0.73	0.00	2.37	7.09
Mapleton	3.11	1.85	6.46	8.41	1.48	4.41	0.00	0.10	0.48	0.71	0.46	15.32	44.79
Marshfield	10.42	1.97	5.73	6.43	1.28	3.33	0.00	0.10	0.22	1.70	0.82	15.54	47.54
Meacham	8.15	1.95	3.72	3.51	1.38	2.90	0.60	0.25	0.58	1.44	0.92	3.73	28.53
Medford	1.47	0.24	0.93	1.54	0.41	2.54	0.00	0.00	0.00	1.14	0.02	6.45	14.74
Mehama	7.51	2.10	6.41	7.96	3.23	3.24	0.04	0.09	0.83	1.80	0.84	17.00	51.05
Mikkalo	1.79	0.09	0.39	0.21	0.33	0.71	0.00	0.00	0.09	0.41	0.02	2.74	6.78
Milton	3.75	0.00	1.00	0.38	0.97	1.96	T.	0.05	0.58	0.43	0.23	3.17	12.52
Modoc Orchard	2.55	0.41	1.13	1.62	0.26	2.55	0.00	0.00	0.00	1.44	0.03	7.78	17.77
Morgan	1.66	0.38	0.42	0.09	0.51	0.64	T.	0.01	0.02	0.42	0.08	3.00	7.23
Moro	2.02	0.36	0.44	0.46	0.30	0.62	0.00	0.06	0.31	0.38	0.04	3.47	8.46
Newport	5.14	1.53	5.01	6.80	1.32	3.53	0.33	0.22	1.14	2.02	0.86	10.55	38.45
Oakridge	6.64	1.52	4.41	2.63	2.70	3.47	0.00	0.00	0.66	1.59	0.50		
Olive Lake	7.92	1.76	4.30	3.29	1.47	2.45	T.	1.24	1.00	0.24	1.00	6.28	30.95
Oregon City	3.50	1.24	3.27	4.37						1.29	0.70	11.34	
Paisley	0.30	0.14	0.40	0.95	0.06	1.45	0.00	0.02	0.00	0.37	0.00	3.97	7.66
Parkdale	8.15	1.46	2.77	3.62	1.82	1.26	0.00	0.02	0.41	1.02	0.13	15.46	36.12
Pendleton	2.39	0.38	0.62	0.26	0.76	1.33	0.00	0.09	0.18	0.53	0.12	2.98	9.64
Pilot Rock	3.08	0.99	0.89	0.76	1.14	2.22	T.	0.14	0.22	0.64	0.25	2.82	13.15
Pittsburg	1.43	1.10	2.22	1.64	1.07	2.08	0.00	0.10	0.16		0.30	2.28	
Portland	3.50	0.97	2.90	4.06	1.14	2.19	0.02	0.23	0.31	1.33	0.67	8.79	26.11
Port Orford	10.25	1.29	6.04	7.48	1.38	3.43	0.06	0.06	0.00	1.34	0.52	12.79	44.64
Power House	3.39	0.47	1.66	1.04	1.14	3.16	0.00	0.11	0.74	1.06	0.32	4.15	17.24
Prairie City	3.90	0.62	1.29	1.86	0.96	2.01	T.	0.07	0.65	0.52	0.23	2.52	15.23
Prineville	0.45	0.21	0.31	0.93	0.25	0.85	T.	T.	0.15	0.11	0.08	3.32	6.66
Prospect	5.57	1.20	3.78	4.88	0.90	2.53	0.00	0.00	T.	1.54	0.18	13.36	39.94
Riddle	3.84	1.64	2.20	2.86	0.41	2.75	0.04	T.	T.	1.66	0.43	11.69	27.52
Riverside	0.43	0.20	T.	1.45	T.	1.45	T.	T.	0.06	0.08	0.00	1.19	4.86

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Oregon—Continued													
Rock Creek	4.77	0.76	1.49	1.91	1.36	3.28	T.	0.49	0.40	0.42	0.25	4.99	20.12
Roseburg	3.95	1.11	2.02	3.15	0.65	2.67	0.01	0.01	0.03	1.21	0.25	7.94	23.00
Round Grove	1.26	0.47	0.64	1.92	0.04	1.54						4.09	
Rujada	5.85	2.26	5.91	5.63	2.49	3.97	T.	0.02	0.51	2.29	0.76	14.19	43.88
Salem	2.50	1.28	2.51	4.09	1.10	1.29	0.00	0.05	0.27	1.17	0.63	11.09	25.98
Sand Creek				3.26	0.13	1.28	T.	0.00	0.19	1.21	0.01	9.99	
Siskiyou	3.61	0.74	2.78	3.69	0.78	2.00	0.00	0.00	0.15	0.69	0.10	11.30	25.84
Summit	8.02	2.14	5.54	6.71	1.71	2.11	0.11	0.17	0.20	1.04	0.69	14.60	43.04
Talent	1.75	0.35	1.11	1.47	0.43	2.52	0.00	0.00	0.12	1.42	0.01	5.86	15.04
The Dalles	2.24	0.02	T.	0.40	T.	0.55	0.00	T.	0.13	0.23	0.02	4.96	8.55
Three Links	8.21	1.94	5.04	6.36	3.62	4.12	0.00	0.09	1.28	1.91	1.18	16.68	50.43
Ukiah	3.55	0.53	1.27	1.74	0.59	2.51	0.00	0.14	0.24	0.73	0.17	4.30	15.77
Umatilla			0.15	0.14	0.28	0.50	0.00	0.00	0.08				
Umpqua	7.40	2.63	5.76	5.81	1.31	4.12	0.07	0.60	0.36	1.85	0.71	13.54	44.16
Union	1.46	0.30	1.47	0.48	0.21	2.70	0.02	1.52	0.28	0.57	0.23	1.75	10.99
Vale	2.35		0.91	1.11	T.	1.49	0.00	0.00	T.	0.00	0.00		
Valley Falls	0.68	0.26	1.13	2.05	0.05	1.32	0.00	0.11	0.22	0.55	T.	2.79	9.16
Valsetz		4.61	9.51	12.28	3.10	5.22	0.10	0.50	0.30	2.10	0.91	23.18	
Waldo	4.96	1.63	2.10			1.48	0.00	0.00	0.00		0.64	15.34	
Wallace Orchard	3.98	1.13	2.21	4.10	1.15	1.59	0.00	0.14	0.23	0.53	0.66	10.89	26.61
Wallowa	1.22	0.24	0.31	0.31	0.47	2.13	0.22	0.12	0.14	1.12	0.19	2.01	8.48
Warmspring		0.10	0.06	0.23		0.20	T.		0.00				
Warmspring Reservoir	0.56	0.26	0.12	1.01	0.12	1.17	T.	T.	0.03	0.01	0.00	1.91	5.19
Wasco	1.82	0.07	0.43	0.48	0.04	0.60	0.00	0.00	0.17	0.28	T.	3.94	7.83
Waterloo	2.03	0.52	3.70	4.74	0.80	2.26	0.00	0.04	0.22	1.32	0.62	14.19	30.44
Welches	11.46	3.50	8.95	8.33			0.00	0.60					
Weston	3.18	0.53	1.10	0.99	0.44	2.35	T.	0.14	0.32	0.48	0.23	3.31	13.07
Wicopee		1.50	5.19	5.29	3.61	3.89	0.00	T.	0.49	2.58	0.47	13.25	
Williams	3.06	0.64	1.61	2.99	0.47	2.30	0.00	0.00	T.	1.40	0.12	9.76	22.35
Willow Creek	10.88	1.31	5.36	10.45	1.82	4.37	0.00	0.00	0.23	1.90	0.90	19.44	56.66
Wolf Creek	4.22	1.38	2.86	3.70	0.24	2.26	T.	T.	T.	1.55	0.17	12.92	29.30
Yonna	1.30	0.48	0.79	1.55	0.25	1.21	0.00	0.00	0.00	0.83	0.01	3.96	10.38
Pennsylvania													
Allentown	3.39	3.25	2.54	7.31	2.66	3.29	1.83	4.10	5.09	4.67	3.19	2.86	44.18
Altoona	4.12	2.43	2.22	7.67	4.87	2.60	2.18	1.28	2.70	9.39	3.65	2.74	45.86
Ansonia	3.17	1.77	2.12	7.22	6.23	2.84	4.60	0.41	3.86	4.19	2.56	2.43	41.40
Arendtsville							0.88	1.87	2.28	6.43	2.75	2.25	
Bakers Summit	3.21	2.51	2.19	5.58	5.19	3.60	0.83	1.48	2.83	7.61	2.58	2.67	40.28
Beaver Dam	2.91	2.63	2.67	4.05	5.52	3.40	3.95	2.54	2.93	3.78	4.01	2.57	40.96
Beaver Falls	2.83	2.59	2.62	3.67	4.52	3.22	2.83	1.64	3.46	3.20	3.49	2.83	36.90
Bellefonte	2.46	2.28	1.83	5.34	4.41	2.68	1.51	1.22	3.19	7.44	2.66	1.96	36.98
Bethlehem	3.19	3.73	2.44	5.23	2.66	3.90	2.24	3.70	3.92	4.35	3.09	2.44	40.89
Bloserville	2.48	1.93	2.53	6.90	4.12	5.15	1.22	1.56	3.70	6.80	3.22	1.75	41.42
Bradford		2.69	3.95	6.77	5.73	1.95	4.20	0.56	4.57	4.47	3.22	3.73	
Brookville	4.32	2.94	3.41	6.37	6.00		5.05	0.50	2.55	7.39	3.40	3.36	
Butler	3.12	2.51	3.04	7.60	5.49	3.00	4.56	2.43	5.98	4.68	4.21	3.34	49.96
Carlisle	3.68	3.43	2.62	7.22	4.62	6.64	1.65	2.52	3.09	7.73	3.13	2.38	48.71
Catawissa	2.15	2.67	2.29	5.64	4.32	2.88	1.90	2.03	4.32	5.40	2.95	2.54	39.09
Cedar Run	3.32	2.44	2.79	6.19	5.29	2.90						2.80	
Center Hall	2.35	2.83	1.86	3.31	4.74	1.99	1.76	1.80	3.95	6.47	4.22	1.69	36.97
Chambersburg	3.40	2.95	2.87	6.31	4.32	3.14	1.74	4.12	3.94	6.30	3.22	2.17	44.48
Claysville	2.70	2.36	2.50	5.92	6.05	6.30	4.12	3.26	2.45	6.01	4.17	2.41	48.25
Clearfield	5.14	1.89	3.25	6.55	8.43	3.49	3.60	1.79	3.21	6.19	3.45	4.95	51.94
Cloe	3.49	2.52	3.18	6.90	4.58	4.86	5.47	1.03	3.10	6.51	2.96	2.60	47.20
Clymer	4.14	2.90	3.17	7.19	4.53	3.87	4.00	1.60	2.21	5.27	3.89	3.32	46.18
Coatesville	3.84	4.58	2.88	6.72	4.55	2.52	3.21	4.67	3.39	6.11	3.22	2.57	48.25
Colebrook	3.18	3.15	2.88	6.80	3.08	5.28	3.15	2.69	6.57	6.13	2.93	2.58	48.42
Confluence	3.59	2.32	2.32	7.15	4.44	4.45	1.95	6.49	5.29	6.14	4.19	2.52	51.85
Conshohocken	3.44	5.16	2.64	5.57	3.85	2.86	1.46	4.29	3.32	4.06	2.43	2.18	41.20
Coraopolis	3.39	2.45	2.75	4.25	4.69	2.57	5.02	1.30	2.11	5.35	3.64	2.28	39.80
Corry	5.03	2.63	4.38	6.14	5.29	2.92	4.61	1.43	3.71	4.78	4.39	2.42	47.73
Coudersport	4.77	2.03	3.71	5.32	5.45	4.20	4.82	0.73	3.78	4.87	2.88	3.22	45.78
Creekside	4.14	2.53	2.62	7.06	5.71	4.00	6.10	1.55	2.16	5.04	3.87	2.43	47.21
Cresson	3.46	2.81	2.10	8.33	6.57	3.44	3.77	1.33	2.32	9.92	3.32	2.90	50.27
Derry	2.84	3.18	3.18	8.04	5.54	3.01	1.61	3.81	2.04	4.43	3.59	3.36	44.63
Donora	2.70	3.16	2.49	6.24	5.61	3.09	2.84	4.58	2.01	5.67	3.56	2.28	44.23
Doylestown	2.91	4.30	2.01	5.93	3.74	2.21	2.09	3.02	4.26	4.05	2.64	3.46	40.62
Driftwood	6.86	3.39	3.20	6.60	4.16	3.38	3.34	1.42	4.81	5.84	3.72	2.30	49.02
Ebensburg	2.37	2.38	1.37	5.98	4.48	4.89	4.33	2.53	2.49	6.02	3.92	2.85	43.61
Elk Lick	2.72	2.12	2.52	8.94	5.11	5.73	2.55	4.95	2.20	7.94	4.12	4.13	53.03
Emporium	4.47	3.06	4.08	7.33	5.35	3.89	5.62	1.46	2.14	5.07	3.48	3.93	51.88
Ephrata	3.00	2.89	2.56	5.27	2.48	4.08	2.39	1.65	4.79	4.16	3.19	2.22	38.68
Erie	3.26	1.36	3.05	5.57	3.89	1.38	1.99	0.29	1.89	1.65	4.65	4.38	33.36
Falls Creek	5.20	2.83	3.48	6.02	6.32	3.03	4.77	1.14	2.47	6.14	3.08	3.51	47.99
Forest City	1.91	2.69	2.34	6.43	4.47	3.21	4.17	1.83	2.50	4.85	2.58	2.86	39.84
Franklin	4.51	2.56	4.29	6.89	6.30	2.79	6.97	1.20	3.18	5.07	4.28	3.11	51.15
Freeland	3.99	3.09	3.75	6.27	4.87	4.76	2.42	2.65	5.09	7.88	3.84	3.62	52.23
Freeport	3.79	2.83	2.79	5.62	5.51	1.65	3.82	2.35	2.89	5.52	3.37	2.67	42.81
George School	2.87	3.00	1.69	6.32	4.89	1.79	1.24	2.72	5.93	4.15	2.52	3.20	40.42
Gettysburg	4.35	2.96	2.91	7.00	5.93	3.70	2.85	1.87	2.16	6.01	3.03	2.43	45.20
Girardville	3.48	2.85	3.14	6.06	4.17	2.36	2.12	3.59	4.21	7.06	3.22	2.83	45.09
Gordon	4.57	2.68	2.97	6.34	3.89	3.75	2.74	4.65	3.48	6.31	3.20	3.42	48.00
Gouldsboro	3.34	2.62	3.15	4.09	3.50	2.42	1.87	2.40	4.91	6.25	3.95	2.76	41.26
Graterford	2.73	2.82	1.97	5.24	4.02	3.40	2.41	3.37	4.09	5.46	4.09	2.82	43.02
Greensboro	2.76	2.86	2.66	6.11	5.74	3.19	1.88	4.06	5.49	5.65	3.62	2.43	46.45
Greensburg	3.23	3.61	3.31	6.88	5.85	3.88	1.81	3.31	2.06	4.22	3.92	3.72	45.80
Greenville	3.63	1.80	4.17	6.80	6.82	2.94	3.94	1.72	1.95	4.07	4.99	3.52	46.35
Grove City	3.35	2.55	4.45	6.55	6.30	3.38	6.54	1.24	3.64	4.60	4.27	2.87	49.75
Hamburg	3.01	3.39	2.69	5.01	4.20	3.93	1.56	2.74	7.12	3.58	3.26	1.93	42.42
Hanover	3.41	3.38	2.85	6.95	5.96	5.82	2.01	1.20	4.53	6.33	3.50	2.32	48.26
Harrisburg	3.16	3.21	2.19	6.03	4.14	5.74	3.01	2.49	5.10	7.10	2.82	2.40	47.39
Hawley	3.15	3.16	2.46	5.81	4.62	1.92	1.58	1.35	2.80	5.85	3.09	3.00	38.79

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Pennsylvania—Continued													
Herrs Island Dam	3.55	2.09	2.24	4.62	5.66	2.69	2.28	1.85	1.20	5.13	3.60	2.01	36.92
Hollisterville	2.79	3.07	2.39	5.63	4.24	2.60	1.23	1.27	8.59	6.24	3.07	3.25	44.37
Holtwood	2.97	2.94	1.76	4.37	2.28	2.76	1.83	3.78	3.85	5.60	3.12	1.74	37.00
Huntingdon	3.55	2.91	2.33	6.20	3.59	3.20	1.78	2.36	2.38	7.80	2.64	2.22	40.96
Hyndman	2.15	2.02	1.88	6.30	3.62	4.77	1.22	2.63	2.08	7.03	3.02	1.62	38.34
Ingram	3.61	2.81	2.45	5.09	6.12	2.85	2.80	2.03	1.43	6.37	3.89	2.44	41.89
Irwin	2.96	2.74	1.87	5.01	3.91	2.75	2.83	3.09	1.92	3.28	3.11	2.89	36.36
Johnstown				7.58	6.08	6.64	1.41	3.24	2.83	6.27	3.88	3.70	
Kregar	3.34	3.09	3.28	7.86	4.79	5.20	2.97	4.69	3.07	5.93	3.32		
Kylertown								0.96	2.55	6.14	2.63	2.00	
Lakeville	3.38	3.42	2.68	6.19	5.45	1.95	1.65	0.80	4.10	5.88	3.32	2.84	41.66
Lancaster	2.82	3.42	3.10	4.98	3.33	4.65	2.98	2.55	3.32	4.65	2.90	1.83	40.53
Lansford	4.06	2.34	2.35	5.27	4.29	4.46	1.39	5.41	4.30	6.10	3.22	2.35	45.54
Lawrenceville	2.21	1.85	1.82	5.73	6.34	2.66	3.40	0.85	3.83	3.87	3.83	2.19	38.58
Lebanon	3.31	2.37	2.41	6.12	2.91	4.09	4.22	3.08	6.23	5.50	3.25	2.58	46.07
Lewisburg	3.50	3.33	2.07	5.61	5.66	2.66	1.83	1.41	4.05	6.87	3.10	3.05	43.14
Linesville										3.27	3.55	1.85	
Lloyd	3.77	1.92	1.54	7.53	4.38	1.10	1.04	0.20	2.03	5.75			
Lock Haven	2.88	2.41	2.14	4.60	4.07	5.43	1.46	0.98	2.61	5.57	2.83	2.49	37.47
Lock No. 4 (Ohio River)	3.02	2.96	2.89	6.76	6.35	3.32	1.94	4.42	2.24	5.66	3.82	2.26	45.64
Lycippus	3.04	2.02	3.53	8.11	8.36	4.81	2.02	4.35	3.42	4.58	2.67	3.53	50.44
Lykens	3.80	2.62	2.77	6.86	3.71	4.71	4.89	3.86	6.29	9.04	3.69	2.31	54.05
Mauch Chunk	4.14	3.09	3.48	5.88	3.94	3.84	2.18	3.74	5.33	5.77	3.59	3.06	48.04
Meadville	4.97	1.67	3.94	5.83	7.48	2.80	5.49	0.54	2.90	2.98	4.90	3.26	46.76
Mifflintown	3.07	2.38	2.33	5.68	3.42	5.56	1.14	2.12	4.45	8.06	2.86	2.13	43.20
Montrose	2.23	2.30	3.13	7.11	5.29	1.72	2.84	3.12	2.40	3.85	3.74	3.75	41.48
Morris Run	3.02	2.77	2.35	7.31	6.04	4.08	2.64	0.36	2.31	5.47	3.02	2.77	42.14
Mount Lebanon	3.07	2.78	2.20	5.23	7.21	3.27	3.27	2.84	1.55	5.72	4.09	2.39	43.62
Mount Pocono	4.08	5.17	2.56	4.29	4.09	4.45	3.02	4.13	7.43	8.23	4.16	3.45	55.06
Muncy Valley	4.04	2.32	2.68	7.38	7.27	4.73	0.95	2.66	3.57	4.92	3.65	3.31	47.48
Narberth	3.01	4.24	2.49	7.22	3.51	2.69			5.47	5.03	3.20	3.15	
Natrona	4.25	2.78	3.32	6.20	5.12	2.27	3.67	2.82	1.93	5.73	3.50	2.30	43.89
Neshaminy Falls	2.52	3.71	2.57	6.99	3.75	2.52	1.62	4.22	6.21	4.96	2.43	2.32	43.82
New Castle	4.03	3.33	3.34	7.18	7.57	3.59	6.92	1.41	2.96	4.63	4.07	3.81	52.84
Newell	2.54	2.41	1.84	5.38	3.84	1.87	1.51	2.36	2.31	4.20	3.66	1.21	33.13
New Park	3.43	3.77	2.71	7.14	4.37	4.09	1.01	2.48	5.34	4.96	3.07	2.62	44.99
Palmerton	2.95	2.56	1.81	4.49	3.83	3.55	2.09	5.32	3.80	5.65	2.65	1.32	40.02
Parkers Landing	5.82	3.05	4.15	7.90	6.80	4.00	6.31	1.79	4.58	5.94	4.33	4.02	58.69
Paupack	3.45	3.11	2.03	5.00	4.65	2.28	1.46	1.15	5.33	6.02	2.68	3.32	40.48
Penn Line	3.43	1.69		6.87	6.20	3.24	4.58	1.01	3.48	2.55	5.07	3.06	
Philadelphia (Weather Bureau)	2.70	4.24	2.22	6.44	2.28	2.74	1.53	3.22	6.51	3.59	3.11	2.98	41.56
Philadelphia (Germantown)	2.84	4.38	2.16	6.10	2.12	3.71	1.63	3.38	6.78	3.75	2.66	2.94	42.45
Philadelphia (Navy Yard)	2.96	3.78	2.33	5.62	1.96	3.02	1.20	2.96	5.40	4.75	2.75	2.50	39.13
Philadelphia (Point Breeze)	2.82	3.97	2.27	5.56	2.16	2.96	1.41	2.75	6.38	3.13	3.17	3.17	39.75
Phoenixville	3.54	4.80	2.29	5.95	4.47	2.98	2.18	7.20	4.68	6.37	3.75	2.93	51.14
Pine Grove	3.63	3.98	2.87	6.59	2.97	6.77	2.36	3.62	4.76	5.82	2.94	2.53	48.84
Pittsburgh	3.33	2.62	2.15	4.29	5.38	2.21	3.50	1.79	1.05	5.07	3.38	2.15	36.92
Pleasant Mount	3.28	3.20	4.01	7.74	4.83	3.96	3.71	2.43	2.09	5.29	4.31		
Pottstown	2.51	4.13	2.39	5.54	4.20	2.24	2.96	3.72	3.35	5.86	2.99	2.29	42.28
Pottsville	4.29	3.88	3.79	5.81	3.55	3.24	3.19	3.63	7.30	7.02	3.43	2.99	52.22
Quakertown	3.17	3.56	2.40	6.12	3.95	4.09	1.80	6.70	5.23	5.04	3.09	2.92	48.07
Reading	3.57	3.76	2.66	5.32	3.48	3.65	2.10	3.41	4.31	5.45	2.95	2.51	43.17
Renovo	3.83	3.08	2.60	6.61	4.99	2.90	3.38	2.42	2.80	5.78	2.38	2.57	43.38
Ridgway	4.93	3.08		4.54	4.36	2.58	6.69		3.66	5.10	4.12	2.85	
Saltsburg	3.14	2.87	2.26	6.94	6.96	1.95	2.60	2.98	1.32	4.53	3.87	3.06	42.48
Scranton	1.84	1.85	1.95	4.68	3.70	3.43	1.06	3.29	3.26	4.20	2.62	3.25	35.13
Selinsgrove	3.04	2.68	2.42	5.93	4.92	3.43	1.12	2.51	3.83	7.30	3.13	3.25	43.56
Sharon	2.95	2.05	2.58	6.24	5.60	1.97	5.17	0.99	1.75	2.74	4.80	2.92	39.76
Shawmont	3.03	3.91	1.91	7.01	3.26	2.96	1.79	4.30	4.64	4.45	2.86	3.02	43.14
Smethport											2.42	2.57	
Snow Hill	4.67	3.87	2.50	5.58	3.60	2.54	1.86	2.86	5.44	6.36	3.51	2.48	45.27
Somerset	2.32	2.43	2.74	7.48	5.41	3.62							
Springdale	3.38	2.69	2.77	5.50	5.88	3.17	3.15	3.13	1.81	4.96	3.94	2.39	42.77
State College	3.33	2.53	1.67	5.71	4.43	3.47	1.39	1.48	3.85	7.06	2.65	2.34	39.91
Stroudsburg	3.37	3.11	2.29	6.19	4.73	2.95	0.19	2.88	3.51	4.98	3.58	2.35	40.13
Sunbury	2.80	2.26	2.00	5.87	5.39	2.79	2.99	2.98	4.55	5.52	3.25	3.09	43.49
Towanda	1.12	2.09	2.04	6.55	4.97	2.43	1.90	1.42	3.44	4.22	2.83	2.46	35.47
Uniontown	2.40	1.92	3.19	5.85	4.35	5.40	2.42	4.99	3.74	5.24	3.64	2.72	45.86
Unity Reservoir	3.24	2.79	3.12	7.25	6.17	4.04	3.02	3.33	2.49	3.92	3.79	3.62	46.78
Vandergrift	2.86	2.45	1.89	4.48	4.79	3.67	2.69	3.19	1.35	5.16	3.25	2.10	37.88
Warren	4.74	1.38	4.50	7.58	6.36	3.85	5.10	1.20	4.50	5.16	4.34	2.82	51.53
Welkert	3.72	2.79	2.60	6.35	4.12	3.60	1.98	0.75	3.15	10.40	1.89	2.09	43.44
Wellsboro	2.10	1.79	1.52	5.92	5.63	2.70	2.08	0.25	4.27	5.89	2.30	2.46	36.91
West Chester	2.99	4.29	2.53	6.29	5.34	4.45	2.04	4.52	4.90	5.51	3.70	3.22	49.78
Westford	4.53	2.59	4.21	5.04	6.10	3.56	5.29	1.96	4.06	3.27	4.89	2.02	47.54
Westgrove				4.46		5.79		0.80	3.53	5.86	3.46	2.22	
West Newton	2.81	2.87	2.03	6.12	6.07	3.51	3.13	3.25	2.17	3.73	3.75	3.04	42.48
Wilkes-Barre	1.74	2.20	2.97	5.31	4.33	5.46	1.22	3.96	2.55	6.15	2.22	3.84	42.05
Williamsport	3.77	2.72	2.23	6.14	4.84	3.95	1.32	0.88	2.64	8.81	2.96	2.93	43.19
York	3.44	2.89	2.46	6.59	3.92	6.23	2.50	1.21	3.98	8.55	2.75	2.09	46.61
York Haven	2.43	2.42	2.31	6.09	3.18	5.76	6.25	1.09	5.20	6.78	2.67	1.98	46.16
Zellenople	4.17	1.41	3.75	3.62	5.34	2.71	5.02	1.68	8.72	7.65	4.46	4.64	53.17
Porto Rico													
Adjuntas	1.99	2.44	6.60	7.18	13.32	4.22	6.09	4.77	19.65	9.94	1.74	4.62	82.56
Aguas Buenas								9.05	4.33	3.80	4.15	4.26	
Aguirre	1.61	0.79	1.13	0.24	3.63	2.28	1.22	6.13	8.39	3.87	2.43	1.49	33.21
Arecibo	4.74	3.40	3.31	1.93	8.60	3.46	4.42	6.30	5.10	2.20	3.85	4.52	51.83
Barceloneta	6.64	3.35	3.34	1.31	5.37	2.92	2.67	8.35	5.53	5.83	4.04	3.56	52.91
Barros	4.51	3.82	7.89	2.97	5.37								
Bayaney										12.50	2.37	3.71	
Bayamon	3.72	2.37	4.64	1.75	8.08	7.07	3.72	14.81	6.26	4.03	3.23	5.59	65.27
Cabo Rojo	0.10	2.80	3.03	2.26	6.27	4.80	4.50	9.41	7.04	7.72	6.75	1.80	56.48
Caguas	3.38	1.93	5.19	1.79	7.37	4.87	1.89	8.43	6.51	3.73	3.42	2.33	50.84

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Porto Rico*—Continued**													
Camuy								8.06	6.87	3.81	4.30	2.52	
Canovanas	5.33	1.80	4.27	2.29	17.38	6.55	2.54	9.50	8.09	5.18	6.25	4.42	73.60
Carite Camp	7.37	2.83	8.10	1.85	9.89	7.76	4.17	11.85	10.96	9.50	4.72	6.30	85.30
Cayey	4.01	1.27	5.28	1.96	7.11	3.09	3.00	6.42	5.59	3.60	3.86	2.73	47.92
Cepero	3.70	2.10	5.44	2.53	9.89	8.60	2.98	13.08	5.11	4.37	2.88	4.95	65.63
Cidra	6.60	2.41	6.68	3.54	9.77	4.60	7.47	7.04	6.60	4.35	3.94	5.21	68.21
Coamo	0.52	0.56	1.08	0.15	1.62	0.79	0.00	2.41	5.70	2.55	0.60	0.26	16.27
Coloso	1.02	2.25	2.45	2.90	8.40	4.60	6.25	21.90	9.50	5.58	1.10	2.70	68.65
Comerio Falls	4.59	2.75	7.43	5.30	7.08	3.69	4.88	14.36	9.14	7.04	4.17	4.88	75.31
Corozal	5.70	1.24	5.15	3.23	7.81	6.26	4.95	6.93	7.26	6.01	2.81	3.75	61.19
Dorado	6.44	3.04	2.80	1.48	8.20	6.54	4.11	6.26	7.94	2.74	4.98	5.81	60.34
Ensenada	0.00	2.80	5.12	0.91	2.32	0.25	0.68	2.93	5.25	1.44	0.87	0.98	23.55
Fajardo	2.87	1.35	2.69	1.89	10.47	5.71	1.85	11.27	9.10	8.28	4.06	1.80	61.34
Guayama	3.50	0.82	2.54	0.32	4.78	3.87	2.44	9.06	6.24	4.65	3.61	2.02	43.85
Guineo Reservoir	4.44	4.23	8.16	5.81	8.26	4.72	2.35	11.00	23.42	9.21	2.68	3.39	87.67
Humacao	6.34	1.92	5.00	2.11	13.44	6.69	3.55	12.63	15.33	5.03	8.26	5.92	86.22
Isabela	3.75	4.60	3.95	0.30	6.55	1.70	1.20	6.20	4.15	2.48	2.01	1.12	38.01
Jajome Alto	7.76	3.58	12.14	3.13	10.55	7.65	4.61	16.24	14.25	7.05	5.82	5.87	98.65
Jayuya	0.77	2.31	6.29	4.27	6.71	1.31	3.50	9.70					
Josefa			4.38	0.00	3.14	4.39	4.16	8.06	11.21	4.68	3.54	2.16	
Juana Diaz [6]	0.46	1.20	2.23	0.35	2.84	1.17	0.44	4.18	5.60	2.94	0.87	0.21	22.49
Juncos	2.17	2.26	6.44	0.65	8.76	2.78	3.09	9.32	7.04	5.80	3.90	3.52	55.73
La Isolina	4.15	4.52	7.10	2.82	13.61	2.21	1.64	10.08	7.60	8.69	4.41	4.30	71.13
Lares	1.43	3.37	4.25	3.38	10.06	5.64	5.19	16.91	9.80	14.60	1.42	1.81	77.86
Manati	4.46	2.37	3.95	0.98	7.71	3.13	2.41	5.68	5.03	4.70	4.91	3.08	48.41
Maricao	0.00	3.35	8.65	9.90	8.40	7.45	13.60	25.25	24.61	29.30	3.50	4.45	138.46
Maunabo	8.77	3.18	4.12	1.01	10.78	4.24	4.22	10.80	7.73	11.35	8.42	5.95	80.57
Mayaguez	2.55	1.88	6.90	6.04	13.69	7.34	5.23	15.04	8.25	6.90	3.68	2.92	80.42
Mona Island	0.99	0.94	0.54	2.81	5.87	0.90	2.97	2.59	6.88	1.90	4.10	1.60	32.09
Patillas Dam	4.35	1.33	4.74	0.45	7.58	5.01	3.40	8.78	8.44	5.63	5.13	4.10	58.94
Ponce	0.05	0.56	0.54	1.67	2.03	0.89	0.20	2.52	7.75	1.74	0.87	0.97	19.79
Potala													
Rio Blanco										5.56	16.46	10.39	
Rio Grande	11.37	0.56	12.08	3.36	14.19	11.13	6.16	16.25	14.43	8.47	13.47	15.99	127.46
Rio Piedras	4.76	1.98	5.33	1.94	11.31	7.77	4.65	13.72	5.51	3.97	3.29	3.94	68.17
San German	0.47	3.59	5.98	2.79	9.72	2.87	5.88	5.67	5.45	7.09	3.24	1.24	53.98
San Juan	3.60	1.30	2.47	1.34	7.97	5.56	1.10	7.53	5.84	2.11	3.62	2.88	45.32
San Lorenzo (town)	5.17	2.91	8.30	0.51	13.70	8.24	4.19	9.24	9.06	5.70	5.37	4.63	77.02
San Lorenzo (Valdez Farm)				0.85	14.67	6.89	3.05	11.13	8.82	5.10	5.81	5.95	
San Sebastian	0.40	2.50	2.80	6.00	14.83	8.69	4.21	21.08	7.23	16.76	1.65	3.31	89.46
Santa Isabel	0.96	1.16	0.82	0.11	2.12	0.98	0.42	2.42	5.21	1.94	0.85	0.60	17.59
Santa Rita									4.15	1.70	2.45	0.48	
Toro Negro Reservoir	3.79	5.70	9.01	3.49	6.69	3.06	2.41	9.21	20.47	7.63	1.98	3.47	77.51
Utuado	1.15	2.38	4.43	3.78	2.92	3.34	3.57	11.21	11.61	11.21	2.96	3.99	62.55
Vieques (Colonia Resolucion)	2.45	1.23	1.55	1.12	8.29	2.90	2.04	7.72	8.99	5.75	3.37	2.21	47.62
Vieques (Playa Grande)	4.25	1.43	2.75	2.45	9.17	3.73	4.80	9.03	7.86	6.20	4.10	2.90	58.67
Yabucoa	6.16	2.18	7.63	2.90	13.75	6.13	3.21	12.71	9.66	6.60	9.94	6.79	87.66
Rhode Island													
Block Island	3.21	3.28	4.59	5.66	4.81	1.09	0.90	1.28	3.57	1.96	3.48	4.47	38.30
Kingston	4.56	4.29	4.99	8.57	4.20	0.75	2.52	5.29	5.25	3.01	3.35	6.01	52.79
Pawtucket	5.01	4.25	4.52	7.08	4.06	3.59	2.23	1.72	3.18	3.12	3.60	3.67	46.03
Providence	4.49	3.04	3.17	5.94	3.45	0.96	1.41	2.44	2.27	2.70	2.47	3.84	36.18
South Carolina													
Aiken	4.26	9.11	5.96	4.45	6.28	6.91	3.81	0.79	8.40	9.45	2.90	4.79	67.11
Anderson	3.92	9.38	9.70	4.09	6.95	3.63	2.26	0.87	9.43	7.98	4.01	3.23	65.45
Beaufort (near)	3.58	5.94	2.07	3.08	1.13	6.50	6.96	4.52	5.46	0.88	2.55	6.00	48.67
Blackville	4.37	6.30	3.73	4.07	5.44	4.14	4.25	3.04	4.87	2.72	1.79	5.63	50.35
Blairs	3.47	10.53	8.94	4.00	6.47	6.77	2.93	5.51	2.11	8.47	3.66	4.19	67.05
Caesar's Head	6.91	9.15	12.57	4.80	6.19	5.40	8.13	2.12	14.57	10.73	9.22	6.24	96.03
Calhoun Falls	4.58	11.42	11.67	4.28	5.97	4.28	3.29	0.85	13.91	12.17	4.76	2.54	79.72
Camden	4.43	8.23	7.37	4.28	7.16	9.72	7.95	2.71	4.21	11.80	2.96	5.11	75.93
Catawba	2.89	8.70	9.30	3.25	5.47	5.24	5.52	2.62	2.53	10.24	4.61	3.42	63.79
Chappells	3.97	9.28	10.53	7.47	10.85	4.68	3.65	1.39	9.12	9.66	3.31	3.97	77.88
Charleston	4.66	4.86	2.05	1.88	4.30	4.81	6.07	5.22	3.86	1.71	2.00	3.54	44.96
Cheraw	3.70	6.86	7.63	3.02	6.06	11.68	4.32	4.88	3.05	9.07	4.17	3.49	67.93
Cherokee (near)	3.62	8.25	7.86	4.43	5.20	5.13	2.91	1.06	9.64	8.36	5.11	3.36	64.93
Chester	7.60		9.67	5.86	8.62						5.55		
Clemson College	4.40	10.23	8.92	6.46	8.22	5.68	2.89	1.67	8.24	6.01	5.45	3.20	71.37
Columbia	2.82	6.96	5.27	4.20	5.49	4.24	7.62	6.05	3.27	5.62	2.06	3.97	57.67
Conway	7.16	4.07	3.31	3.02	6.76	6.30	2.37	3.82	3.29	3.97	2.72	4.26	51.05
Crescent	3.20	10.56	9.76	4.98	4.76	6.07	4.97	6.85	15.64	11.39	7.43	4.55	90.16
Darlington	3.15	7.32	5.46	3.27	10.67	6.91	3.93	5.01	2.30	6.18	3.24	4.40	61.84
Due West	3.05	9.69	10.94	5.44	4.99	5.20	4.16	0.66	15.44	8.78	5.27	3.87	77.49
Edgefield	3.63	9.07	9.10	3.59	10.55	3.69	5.96	2.81	14.71	9.71	4.58	5.31	82.71
Effingham	4.57	5.06	6.44	2.91	6.88	6.32	5.16	6.65	4.01	4.98	2.10	4.78	59.86
Ferguson	4.86	6.16	6.11	4.57	5.95	5.78	3.56	8.70	4.85	4.03	1.66	4.54	60.77
Florence (No. 1)	4.23	6.16	5.14	3.43	6.39	9.23	1.74	3.23	1.67	3.43	2.04	3.83	50.62
Florence No. 2)	3.16	6.01	5.57	3.15	5.41	8.20	1.89	1.99	1.98	3.71	2.73	4.29	48.09
Garnett	4.43	6.26	5.90	3.53	3.42	6.51	5.19	4.68	16.53	3.54	3.20	3.71	66.90
Gaston Shoals	3.03	10.39	7.85	4.15	4.59	3.74	5.71	1.41	6.50	9.92	4.92	3.50	65.71
Georgetown											3.25	4.17	
Greenville	3.82	9.16	9.03	5.73	3.66	2.97	1.62	1.35	12.95	7.58	5.50	3.44	66.81
Greenwood	4.38	9.22	10.75	5.91	7.01	5.49	4.25	1.03	14.31	12.69	3.34	4.15	82.53
Heath Springs	3.37	7.89	7.87	4.56	7.34	5.98	6.60	2.89	5.49	8.88	2.79	4.24	67.90
Hogback Mountain	2.25	9.70	10.97	6.33	6.08	4.28	4.22	1.31	11.77				
Kershaw	2.32	6.86	11.00	4.84	7.67	4.98	5.18	3.93	6.07	9.96	3.45	3.33	69.59
Kingstree	4.81	5.21	5.32	3.50	8.36	8.19	3.94	2.47	3.54	3.61	1.91	4.49	55.35
Landrum	4.61	5.26	8.92	6.03	7.79	3.05	4.70	0.60	10.02	9.70	6.33	3.88	70.89
Laurens	3.88	9.43	10.05	5.03	4.99	4.06	4.42	0.94	14.26	9.94	4.05	4.42	75.47
Little Mountain	4.34	10.07	12.47	5.80	5.86	5.64	5.02	5.22	3.72	8.33	3.67	4.52	74.66

[6] Name changed from Guayabal Reservoir.

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
South Carolina—Continued													
Marion	4.11	5.16	3.49	2.72	7.08	6.03	3.61	3.17	4.87	4.83	1.92	4.94	51.93
Mars Bluff	4.37	5.95	6.01	2.86	7.14	5.91	2.48	4.93	5.16	4.87	2.80	4.69	57.17
Newberry	3.59	10.40	9.82	5.93	7.54	4.40	3.44	5.86	3.88	11.44	4.50	4.48	75.28
Orangeburg	4.42	6.18	4.00	2.54	6.49	2.94	2.47	6.73	5.15	2.76	1.75	4.87	50.30
Pelzer	4.26	8.60	9.56	4.02	5.58	4.76	1.78	1.54	9.76	8.89	5.66	3.48	67.89
Pinopolis	4.30	6.07	4.42	4.22	5.16	----	3.78	5.05	2.87	----	1.20	3.20	----
Rimini	4.10	6.36	4.52	4.67	13.61	4.93	1.50	3.70	7.30	4.03	2.62	4.20	60.88
Saluda	3.91	10.57	9.88	5.58	7.74	5.81	6.09	1.17	6.77	11.79	5.45	4.89	79.65
Santuck	4.03	9.45	9.83	4.57	6.51	6.44	6.49	2.09	6.53	9.39	5.42	3.92	74.67
Society Hill	5.09	7.95	7.46	4.97	6.71	10.94	5.84	5.01	3.77	6.64	3.88	4.28	72.50
Spartanburg	3.48	9.14	8.60	4.24	4.61	5.13	3.42	4.06	10.38	11.50	6.25	3.12	73.93
Summerville	4.39	5.23	3.69	3.73	5.15	6.26	2.91	4.56	4.93	2.49	3.17	4.87	51.38
Sumter	----	----	----	----	----	----	----	----	----	----	2.71	5.75	----
Trenton	3.61	10.27	9.33	3.13	6.50	4.54	8.49	1.04	10.65	9.69	3.87	3.29	74.41
Walhalla	4.76	9.07	10.94	5.55	7.25	2.46	1.97	2.51	14.34	5.18	6.87	3.16	74.06
Wedgefield	3.44	5.58	4.15	3.48	7.73	5.53	1.98	2.65	2.07	5.50	1.80	2.90	46.81
Winnsboro	3.73	8.05	10.48	4.15	7.05	7.44	7.15	2.97	2.74	9.03	3.69	4.39	70.87
Winthrop College	2.64	9.21	8.78	2.94	5.41	6.31	2.40	2.87	3.76	8.49	5.61	2.39	60.81
Yemassee	4.26	5.40	5.16	3.24	4.05	9.46	6.87	4.78	7.94	1.74	3.14	3.72	59.76
South Dakota													
Aberdeen	2.04	0.77	1.10	2.82	2.52	0.07	3.26	0.94	2.18	2.87	1.35	0.57	20.49
Academy	----	0.90	1.27	2.22	3.00	3.38	3.47	0.28	2.39	3.95	1.00	0.00	----
Alexandria	0.67	0.63	0.91	2.92	3.09	4.86	4.35	1.33	5.31	1.40	0.53	0.12	26.12
Ardmore	0.09	0.17	1.31	1.41	2.18	2.21	2.90	1.49	2.71	0.74	0.20	0.05	15.46
Arlington	0.61	0.71	1.42	4.89	1.71	1.47	3.30	1.69	5.76	2.54	0.35	0.19	24.64
Armour	1.50	0.80	1.98	4.57	3.83	2.73	1.86	0.93	3.70	2.73	0.69	0.10	25.42
Ashton	1.46	0.41	1.90	2.90	2.08	0.24	1.18	2.48	2.82	2.64	0.29	0.16	18.56
Belle Fourche	0.51	0.41	2.11	1.81	4.29	2.11	1.77	2.06	2.61	1.24	0.35	0.08	19.35
Belvidere	0.60	0.51	3.29	4.64	1.96	2.44	1.09	3.60	1.91	4.06	0.64	0.30	25.04
Bowdle	2.20	0.80	2.01	2.41	2.25	1.45	1.64	0.53	1.86	3.62	0.26	0.50	19.53
Britton	0.98	0.34	0.35	1.40	1.03	0.75	4.17	1.19	1.66	2.90	0.22	0.18	15.11
Brookings	0.96	0.45	0.68	3.32	2.11	1.12	3.25	2.33	4.80	2.41	0.04	0.07	21.54
Camp Crook	0.40	0.80	2.10	0.10	5.18	2.35	1.00	0.44	2.04	1.60	1.42	0.40	17.83
Canistota	1.16	1.05	0.97	3.20	4.66	2.14	2.46	2.58	6.01	2.34	0.36	0.21	27.14
Canton	1.00	1.05	0.52	3.28	4.37	3.59	3.20	1.74	6.77	2.48	T.	0.18	28.18
Castlewood	1.06	0.57	1.03	2.51	1.50	1.31	6.35	2.46	3.98	1.82	0.29	0.17	23.05
Cedar View	0.32	0.39	1.82	2.37	1.85	1.91	2.65	1.02	1.52	3.84	0.81	0.07	18.57
Centerville	0.45	0.30	0.50	2.58	2.63	3.44	2.84	1.60	3.95	2.28	0.17	0.10	20.84
Clark	2.05	0.70	2.06	2.70	1.34	1.03	1.53	1.35	3.48	2.62	0.71	0.25	19.82
Cottonwood	0.46	0.04	2.68	2.51	2.20	3.56	1.74	0.89	1.44	1.43	0.90	0.30	18.15
Crow Creek	1.50	0.65	2.78	1.79	----	----	----	0.57	2.96	----	----	----	----
Custer	0.55	0.66	1.54	1.55	3.49	2.54	6.24	2.70	2.93	0.88	0.16	0.09	23.33
Deerfield	0.68	1.14	2.41	2.11	4.53	5.82	3.69	2.03	3.21	0.70	0.98	0.23	27.53
De Smet	3.00	1.00	1.58	----	----	----	3.58	----	5.72	2.12	----	----	----
Dowling	0.25	0.38	2.40	1.44	1.70	2.09	----	0.78	1.35	1.16	0.37	0.03	----
Dumont	0.86	1.90	2.99	2.01	2.48	1.59	2.00	1.72	1.69	1.01	3.34	0.50	22.09
Dupree	1.78	1.29	1.94	1.83	1.35	1.20	1.10	0.03	1.69	0.96	1.11	0.43	14.71
Eales	0.78	0.20	1.27	1.95	3.01	1.00	2.17	1.74	1.56	2.36	0.41	0.12	16.57
Eureka	0.61	0.24	0.36	1.16	1.57	0.77	2.42	0.70	1.55	2.57	0.17	0.10	12.22
Fairfax	0.40	0.30	0.90	3.54	1.80	4.31	1.24	0.88	4.38	3.04	0.72	0.10	21.61
Faith	0.52	0.74	2.08	1.37	1.52	2.11	1.24	0.04	3.95	1.31	0.96	0.10	15.94
Faulkton	1.58	0.20	2.33	2.58	1.29	0.50	1.10	0.54	1.75	2.73	0.10	0.20	14.90
Flandreau	0.73	1.10	0.33	3.39	2.53	1.23	3.98	1.85	5.11	2.58	0.15	0.07	23.05
Forestburg	1.19	0.21	1.85	2.73	1.44	1.45	2.91	0.77	6.47	1.79	0.50	T.	21.31
Gannvalley	1.70	0.54	2.11	2.01	2.67	1.49	2.46	0.58	3.15	2.36	0.35	0.00	19.42
Glenham	0.75	0.20	1.43	0.84	1.08	1.72	0.51	0.99	1.59	1.41	0.38	0.19	11.09
Gregory	0.29	0.40	1.22	3.50	2.78	4.71	1.24	0.96	2.67	3.96	0.60	0.08	22.41
Hardy Ranger Station	0.95	2.00	1.81	1.78	4.26	2.45	1.41	1.77	2.77	1.66	2.10	1.09	24.05
Harveys Ranch	2.10	2.20	4.25	2.67	4.36	5.92	4.25	3.45	2.55	2.05	3.05	0.35	37.20
Hermosa	0.29	0.36	1.53	2.56	2.67	4.74	4.94	2.43	2.52	1.82	0.34	0.26	24.46
Highmore	0.67	0.22	1.75	2.76	1.89	1.71	0.69	1.55	1.76	3.08	0.33	0.05	16.46
Hopewell	1.12	0.12	1.47	3.12	2.57	1.26	0.45	0.12	1.31	2.33	1.14	0.10	15.11
Hot Springs	1.00	1.00	1.40	1.60	1.92	3.16	3.36	2.55	2.47	1.48	0.75	0.15	20.84
Howard	1.37	1.44	1.22	3.33	1.36	1.44	4.47	1.10	5.35	1.92	0.52	0.03	23.55
Huron	1.50	0.51	1.50	3.41	1.17	0.89	1.69	1.99	2.79	1.62	0.36	0.08	17.51
Ipswich	1.01	0.33	0.58	2.13	1.45	T.	1.73	0.52	2.36	3.33	0.08	0.20	13.72
Kennebec	1.15	0.60	2.07	1.90	1.50	1.87	0.85	0.58	2.94	4.46	0.76	0.25	18.87
LaDelle	1.49	0.80	2.19	3.38	0.97	0.81	1.45	2.12	2.62	2.58	0.79	0.30	19.50
Lead	0.84	1.15	2.83	3.38	4.66	2.23	4.45	1.84	2.44	1.65	2.01	0.57	28.05
Lemmon	0.90	0.20	3.00	0.73	2.12	2.32	0.81	0.61	1.62	1.76	----	0.70	----
Leola	0.28	0.48	0.76	1.78	1.45	0.64	3.77	0.92	2.25	3.14	0.12	0.09	16.18
Ludlow	0.30	0.16	1.46	0.38	3.98	1.09	0.83	0.50	2.16	1.41	0.15	0.65	13.07
McIntosh	1.15	0.20	2.25	----	----	----	----	----	2.20	3.50	0.05	0.40	----
McLaughlin	1.10	0.60	3.22	1.77	1.61	1.08	0.43	0.42	1.99	2.74	----	0.20	----
Marion	0.61	1.10	2.13	3.29	5.58	2.26	4.53	2.54	7.26	3.07	0.30	0.14	32.91
Mellette	2.95	1.47	2.03	3.46	2.10	0.46	1.42	1.33	2.37	1.94	0.30	0.40	20.23
Menno	1.45	1.58	1.55	3.10	3.75	3.03	2.16	1.08	3.79	1.88	0.73	0.38	28.08
Milbank	1.81	1.37	1.48	3.07	2.02	0.61	4.91	1.56	4.20	2.30	0.25	0.80	24.38
Miller	0.63	0.40	1.28	2.38	2.51	1.20	1.30	0.50	2.75	2.04	0.17	0.10	15.26
Mitchell	0.62	0.89	1.26	3.07	2.03	2.59	6.66	1.33	5.28	2.56	0.48	0.10	26.87
Mobridge	0.65	0.20	3.73	1.53	1.16	1.51	1.01	1.70	2.11	2.30	0.50	0.20	16.60
Murdo	0.95	0.92	1.73	3.05	2.29	3.48	1.12	1.72	2.34	5.31	0.70	0.35	23.96
Newell	0.19	0.47	2.00	1.36	4.45	3.05	3.23	0.82	4.01	2.25	0.41	0.11	22.35
Oelrichs	1.50	0.55	3.80	2.40	2.62	3.23	3.27	2.40	3.79	1.47	0.83	0.10	25.96
Onaka	1.45	0.30	2.59	2.01	1.00	0.63	0.77	0.90	2.50	2.58	0.50	0.25	15.48
Onida	0.23	0.27	1.54	2.93	1.26	1.76	0.97	2.92	2.20	2.52	0.20	----	----
Orman	----	0.51	1.73	1.24	3.78	1.12	1.44	1.18	2.91	1.73	0.47	0.12	----
Ottumwa	0.40	----	1.45	1.39	1.20	1.15	1.29	0.07	0.94	2.14	0.63	----	----
Parkston	0.66	0.47	1.63	2.81	3.27	2.65	1.57	1.22	5.47	1.94	0.52	0.07	22.28
Pierre	0.95	0.59	1.27	3.16	1.66	1.83	0.79	0.68	1.28	2.92	0.58	0.08	15.79
Pollock	1.80	0.20	1.20	0.53	1.25	1.30	0.92	6.82	2.87	2.45	0.51	0.30	13.85
Pukwana	0.70	0.42	1.84	1.51	1.88	1.00	2.22	0.51	4.00	3.26	0.40	0.02	17.86

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
South Dakota—Continued													
Rapid City	0.44	0.49	2.69	3.48	4.21	3.83	3.53	1.29	1.80	1.73	0.71	0.24	24.44
Redfield	1.20	0.25	1.85	1.89	1.44	0.99	1.51	0.97	2.90	2.52	1.04	0.56	17.12
Redig	0.70	0.80	3.25	0.80	4.70	1.35	0.75	0.39	2.63	1.84	1.15	0.12	17.85
Rochford	0.94	1.01	2.03	2.93	4.27	4.08	3.61	3.72	3.28	1.75	1.61	0.39	29.62
St. Francis	0.16	0.27	1.67	2.41	2.85	2.90	1.39	0.98	2.18	2.39			
Sioux Falls	1.68	1.36	0.78	4.57	3.68	2.10	6.41	1.19	8.28	3.48	0.50	0.06	34.00
Spearfish	1.53	1.10	2.92	3.46	5.25	2.04		1.31	3.22	2.07	1.23	0.32	
Strool	0.79	0.10	2.84	0.85	4.88	1.35	0.51	0.12	2.34	1.95	0.20	1.00	16.93
Timber Lake	0.62	0.23	1.68	2.09	1.25	1.94	3.10	0.41	2.31	1.84	0.32	0.11	15.90
Tyndall	1.05	0.67	1.46	3.02	3.62	4.59	2.18	1.47	5.85	3.21	0.64	0.19	27.95
Vale	0.48	0.54	3.33	1.96	4.13	1.24	2.09	1.67	3.67	2.06	0.38	0.12	21.67
Vermilion	0.56	0.78	1.22	4.15	2.63				2.93	1.58	0.36	0.16	
Victor	0.78	0.29	0.84	2.77	2.46	1.15	3.00	0.87	2.59	2.66	0.61	0.40	18.42
Vivian	0.75	1.04	1.29	4.17	2.01	2.27	0.37	0.42	2.33	5.59	0.57	0.13	20.94
Wagner	1.10	0.90	1.50	3.84	4.86	4.33	3.58	1.01	6.52	3.41	0.80	0.10	31.95
Waters Ranch	0.58	0.93	4.18	0.84	3.70	2.59	1.34	1.27	4.47	2.16	0.85	0.22	23.13
Watertown	0.85	0.45	0.93	2.31	1.35	1.27	2.77	1.91	3.17	2.10	0.45	0.20	17.76
Webster (near)	0.90	0.55	0.79	1.90	2.47	0.61	5.62	1.24	2.56	1.68	0.40	0.60	19.32
Wentworth	0.93	1.00	1.58	4.55	2.86	1.69	4.58	3.58	5.35	2.78	0.17	0.62	29.69
Wessington								0.70	2.94	2.24	0.23	0.11	
White Lake	0.73	0.64	1.00	2.62	1.85	2.27	4.55	0.51	3.29	3.28	0.26	0.02	21.02
Winner	0.64	0.58	2.20	3.87	1.83	3.83	1.55	2.46	2.66	4.51			
Wood	0.33	0.47	1.49	2.60	2.62	3.74	2.11	2.42	2.28	3.32	0.61	0.08	22.07
Yankton	0.55	0.63	0.79	3.20	4.94	3.11	2.73	1.68	4.57	2.70	0.33	0.14	25.37
Tennessee													
Altamont									6.96	3.59	8.01	1.40	
Ashwood	5.00	4.95	9.60	4.65	8.95	4.90	5.85	0.85	3.35	3.75	6.65	2.75	61.25
Bluff City	2.83	4.34	6.29	2.34	7.92	3.04	8.13	0.93	2.12	6.22	3.95	2.16	50.27
Bolivar	3.68	4.88	6.89	7.22	8.41	4.50	0.70	4.29	3.84	4.65	5.30	3.32	57.68
Bristol	3.37	2.92	5.70	2.46	8.06	5.59	4.36	1.20	1.76	4.44	3.73	1.79	45.28
Brownsville	4.79	3.89	4.43	8.17	7.07	4.26	4.57	4.22	3.32	4.69	4.77	2.86	57.04
Buffalo Valley	6.20	4.60	10.30	4.40	5.35	5.40	2.65	2.44	6.10	5.85	5.41	3.60	62.36
Carthage	6.61	4.19	8.70	4.63	6.55	4.43	4.80	1.71	5.40	5.33	5.86	4.19	62.40
Cedar Hill	4.84	6.59	5.87	7.27	7.80		4.58	1.19	2.01	5.36	4.80	4.17	
Celina	6.75	3.63	7.90	5.79	6.45	3.47	3.70	3.23	5.22	3.61	6.46	2.71	58.92
Charleston	3.74	6.76	10.01	5.09	7.17	5.54	3.75	1.59	5.24	2.64	10.10	3.37	65.00
Chattanooga	5.72	5.83	10.80	6.70	12.90	4.39	3.21	0.45	5.66	3.12	11.60	2.89	72.37
Clarksville	5.44	4.60	4.48	5.40	5.89	4.95	1.09	3.14	2.89	3.88	2.48	3.22	47.46
Clinton	6.88	6.33	9.97	3.31	8.25	9.59	3.05	1.33	5.08	1.28	8.07	3.23	66.37
Coldwater	7.11	5.05	13.43	6.25	8.28	2.80	1.12	0.31	7.52	4.55	7.64	3.58	67.64
Cookeville	6.32	4.36	10.00	4.38	5.42	4.92	5.37	1.10	4.78	2.14	5.96	3.40	59.15
Copperhill	5.74	8.00	8.30	7.37	10.43	5.11	1.71	3.07	8.49	1.87	10.48	2.81	73.38
Covington	5.09	4.56	4.75	7.99	7.96	2.97	4.36	2.73	1.69	4.29	6.35	2.80	55.54
Crossville							8.90	1.31	4.92	2.28	5.07	3.99	
Dandridge	3.43	4.34	7.32	3.05	8.63	3.71	9.12	1.86	5.12	1.36	6.47	2.50	56.31
Decatur	5.78	6.56	9.33	4.24	10.01	4.24	5.72	0.89	7.79	2.90	10.60	2.79	69.95
Dickson	4.84	5.08	5.01	4.90	9.67	5.95	4.17	1.69	2.98	3.81	4.48	2.50	55.08
Dover	4.40	4.97	4.54	5.53	4.05	4.10	3.32	2.89	3.81	3.53	2.45	4.04	47.53
Dresden	4.99	5.58	5.10	7.99	6.00	5.67	2.62	4.88	2.45	1.66	5.22	4.87	57.03
Elizabethton	1.43	3.37	5.90	2.55	6.59	5.63	5.86	2.83	3.97	5.75	4.36	3.90	52.14
Elkmont	4.85	5.89	7.22	4.52	9.01	7.41	6.39	2.39	7.97	2.66	6.40	4.00	68.71
Embreeville	2.35	3.29	5.35	2.04	7.57	8.22	6.89	3.11	3.82	6.64	3.19	2.05	54.52
Erwin	2.39	3.00	6.01	2.75	9.62	4.28	7.16	5.49	4.22	7.83	2.92	2.04	57.71
Etowah	3.87	5.83	8.21	4.99	7.68	2.89	3.34	0.76	4.90	1.59	10.20	3.65	57.91
Fayetteville	6.82	5.06	13.03	4.83	6.72	3.08	2.68	1.16	7.38	5.40	6.91	3.38	66.45
Florence	5.09	5.08	10.15	4.47	9.50	6.38	2.75	0.36	3.75	3.66	5.19	2.14	58.52
Franklin	5.37	4.23	8.72	3.94	5.15	4.46	6.01	0.48	4.71	3.33	7.79	1.83	56.02
Halls	4.32	4.64	4.24	8.58	6.02	3.50	2.69	4.99	1.90	2.20	4.47	3.70	51.25
Halls Hill	5.97	4.86	11.51	3.92	5.72	6.16	5.33	0.64	5.23	5.38	4.13	2.62	61.47
Hohenwald	4.72	4.42	8.33	6.00	7.32	4.86	3.82	4.37	3.39	3.30	6.52	3.28	60.43
Jackson	5.06	5.21	4.68	6.02	6.71	2.09	3.22	4.33	3.46	5.80	3.05	2.25	51.88
Jackson (No. 2)	4.24	4.18	6.38	7.88	6.15	3.52	2.96	4.32	3.08	6.90	2.99	2.68	55.28
Jefferson City	4.70												
Johnson City	1.91	4.62	6.46	1.75	10.99	4.48	6.20	1.29	3.42	5.79	4.14	2.68	53.73
Johnsonville	5.26	3.82	5.04	6.90	8.56	5.76	5.48	5.62	4.30	3.82	3.26	3.74	61.76
Kenton	4.45	4.18		8.60	5.63	4.93	4.89	6.73	1.45	3.06	2.68		
Kingsport	3.88	5.04	5.12	3.33	14.14	5.02	5.23			5.20	5.05	1.81	
Kingston	7.27	6.66	8.08	3.37	10.13	4.05	3.46	2.26	8.45	1.55	10.23	3.21	68.72
Knoxville	4.34	5.75	6.69	3.46	7.66	6.29	5.39	2.12	4.39	1.33	8.55	2.73	58.70
Lebanon	3.59	4.17	9.25		6.24						5.13		
Lewisburg	5.05	4.78	9.55	5.39	5.98	5.77	4.34	0.60	3.63	4.54	5.48	2.94	58.05
Lexington	4.17	5.20	5.26				5.02	3.28					
Liberty	6.51	5.30	10.88	5.99	5.26	5.92	3.68	2.99	6.08	5.12	5.58	3.22	66.54
Loudon	4.64	7.02	9.04	3.10	7.14	5.84	1.16	2.38	6.60	1.82	10.64	3.22	62.60
Lynnville	5.15	4.99	10.94	5.97	6.82	7.47	3.19	1.42	6.41	4.56	5.74	3.19	65.85
McGhee	4.10	6.57	7.27	3.38	8.80	3.38	2.51	2.58	5.19	1.76	7.94	2.40	55.88
McKenzie	4.28	4.78	4.13	6.65	4.30	4.87	1.93	3.31	5.26	4.56	2.68	3.24	49.99
McMinnville	6.73	5.35	12.28	4.19	5.82	6.10	7.51	0.19	7.23	4.41	4.87	3.13	67.81
Madison	3.93	4.56	7.35	4.18	6.87	3.90	3.35	0.44	3.59	4.73	7.02	4.21	54.13
Memphis	3.95	3.48	3.63	8.50	4.88	1.60	5.77	4.45	1.62	6.88	3.33	3.25	51.24
Milan	4.78	6.31	4.71	7.62	7.69	5.31	5.29	5.68	3.72	3.00	5.92	3.49	63.47
Moscow	4.79	5.08	5.33	6.36	5.84	3.74	6.40	1.41	2.51	3.94	6.47	3.44	55.31
Nashville	3.85	3.81	6.48	3.93	6.46	2.02	6.59	0.51	4.85	4.05	4.79	3.33	50.67
Newbern	4.82	4.77	3.95	7.68	5.46	3.61	2.53	4.57	3.96	1.78	3.23	3.44	49.81
Newport	3.22	5.09	6.62	3.43	7.94	4.09	7.38	3.70	3.66	2.01	4.92	2.61	54.67
New River	7.77	4.51	12.13	4.52	7.61	2.37	4.43	1.76	4.36	2.04	8.15	3.67	64.32
Palmetto	3.66	4.58	8.26	5.86	6.57	5.94	5.07	0.84	5.92	3.85	5.19	2.65	58.39
Parksville	3.90	5.39	7.93	7.45	10.26	7.54	4.52	3.90	5.23	1.54	11.86	3.39	72.01
Perryville	4.74	5.15	6.41	5.59	6.28	5.75	6.85			5.61	3.45	3.90	
Pheasant Field		6.80	10.89	8.76	14.99						10.75	2.85	
Rock Island	6.56	5.71	14.64	3.92	6.42	5.15	8.47	0.12	6.08	4.00	7.82	3.71	72.67
Rockwood	6.94	7.22	10.49	2.39	7.49	4.34	2.91	1.53	7.12	1.89	10.21	2.80	65.33
Rogersville	3.73	4.58	6.47	2.49	8.42	3.18	6.28	1.04	4.07	1.70	5.87	2.05	49.82

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Tennessee—Continued													
Rugby	6.23	6.02	10.91	4.81	6.91	5.20	7.13	1.58	5.88	1.31	13.57	4.11	73.66
Savannah	4.97	3.38	11.50	6.40	8.42	3.67	1.65	3.42	6.20	6.23	6.28	2.64	64.76
Selmer	3.66	4.67	9.94	5.55	10.32	3.60	2.78	3.74	5.51	5.41	5.55	4.15	64.88
Sevierville	3.48	5.49	6.97	4.06	10.66	4.11	2.29	1.73	6.37	2.26	6.08	2.51	56.01
Sewanee	7.44	5.86	9.52	5.99	11.35	6.87	3.23	0.93	9.69	4.86	8.40	3.03	77.17
Tellico Plains			7.47	6.18	10.44	3.33	4.12	3.35	7.84	3.36	10.35	3.01	
Tiptonville	5.42	4.76	4.17	5.89	6.29	2.71	3.75	4.24	4.48	1.63	2.78	2.94	49.06
Tullahoma				6.90	5.14	2.04	3.19	0.22	6.37	4.91	7.23	4.11	
Union City	4.57	5.05	4.33	5.88	5.98	2.48	4.93	4.83	4.61	1.39	3.93	3.43	51.41
Waynesboro	4.70	4.97	10.03	8.83	9.85	2.85	3.02	3.35	4.58	3.67	5.27	3.23	64.35
Worsham	3.26	4.86	7.12	5.87	6.05	4.50	3.35	0.55	2.84	4.52	5.89	3.40	52.21
Texas													
Abilene	0.48	1.40	2.72	1.18	4.22	0.13	0.64	0.05	4.37	3.28	0.50	0.14	19.11
Albany	0.50	1.91	2.52	1.81	4.67	0.12	1.53	0.09	2.95	3.41	1.12	0.18	20.81
Alice	0.53	0.90	0.72	1.89	3.62	2.89	2.91	0.35	0.24	1.96	2.46	1.52	19.99
Alpine				0.60	1.23	2.22	0.74	1.65	2.79	2.31	0.38	0.12	
Alvin	6.05	2.12	5.00	5.05	5.62	1.10	5.89	0.26	0.45	2.89	6.57	4.18	45.18
Amarillo	0.16	0.34	1.84	T.	3.19	0.77	1.76	4.54	1.97	3.28	0.91	0.11	18.87
Anderson	4.39	2.02	3.73	5.07	14.78	1.87	6.15	0.05	0.15	4.11	6.84	2.09	51.25
Angleton	4.54	1.29	5.08	2.94	8.35	2.21	4.45	3.17	1.82	5.41	6.71	5.08	51.05
Arthur City	4.02	1.75	1.60	3.12	7.02	2.78	0.83	1.06	6.57	5.71	1.89	4.07	40.42
Aspermont	0.40	0.95	1.17	0.82	3.74	1.37	3.75	0.03	3.08	1.88	0.73	0.07	17.99
Austin	1.85	0.82	3.62	2.72	12.75	0.97	2.45	0.01	2.63	1.90	5.87	2.48	38.07
Austwell	2.64	0.00	0.81	1.94	13.39	3.00	5.41	1.60	0.59	7.26	6.77	6.35	49.76
Ballinger	0.30	1.22	2.10	2.00	4.70	0.35	1.50	0.10	1.52	4.15	0.30	0.25	18.49
Balmorhea	0.00	0.77	0.93	0.84	1.28	1.33	0.59	0.92	2.13	1.81	0.33	0.23	11.16
Beaumont	6.17	5.38	6.44	4.10	6.56	2.03	4.07	1.10	3.12	2.55	15.32	3.04	59.88
Beeville	3.88	0.24	4.08	1.46	8.87	1.57	5.52	1.20	0.32	2.35	3.77	5.12	38.38
Big Spring	0.32	0.85	2.89	0.13	3.18	1.08	2.81	1.72	5.44	3.28	0.74	0.00	22.44
Big Wells	0.16	0.05	1.74	0.79	4.70	0.00	1.20	0.00	2.35	1.53	1.15	2.07	15.74
Blanco	1.23	0.69	2.57	5.43	12.77	1.28	5.32	0.21	0.47	2.26	3.99	1.31	37.53
Boerne	1.58	0.62	1.34	2.42	8.04	1.28	6.83	0.64	2.02	2.86	3.17	3.26	34.06
Bonham	3.72	3.68	1.54	2.92	10.50	1.66	2.09	0.18	5.92	2.21	1.74	4.83	41.09
Bon Wier	6.34	5.45	8.62	2.31	16.99	2.11	1.50	1.00	1.00	0.40		1.80	
Booker	0.10	0.25	1.22	0.43	2.32	1.77	2.35	2.60	2.35	3.35	1.75	0.00	18.49
Brazoria	4.96	1.28	4.28	2.56	17.66	2.56	7.13	1.43	0.25				
Brazos	2.11	2.21	1.45	4.91	6.13	0.00	1.15	0.00	2.10	4.32	1.27	1.98	27.63
Breckenridge	0.60	1.58	1.43	0.93	5.34	0.18	0.79	0.00	2.01	2.82	1.59	0.27	17.54
Brenham	3.29	1.96	3.44	8.43	12.00	2.43	5.32	0.36	0.60	2.88	8.62	1.70	51.03
Bridgeport	2.65	1.22	1.68	1.91	6.50	0.85	1.50	T.	2.10	1.55	2.30	2.01	24.27
Bronson	3.80	5.30	6.50	6.28	18.04	2.33	3.96	2.14	1.98	1.55	7.50	4.10	63.48
Brownfield			1.60	0.00	4.69	1.95	0.60	1.03	2.48	3.64	1.05	0.10	
Brownsville	0.46	0.27	0.26	0.88	8.60	1.54	4.69	3.29	5.16	1.23	1.72	0.62	28.72
Brownwood	2.40	1.67	1.51	2.50	6.28	0.54	0.32	T.	1.96	2.13	1.16	1.95	22.42
Buena Vista	T.	0.95	1.80	T.	1.06	2.12	0.62	0.26	1.65	2.22	T.	0.30	10.98
Cameron	2.25	1.88	2.88	4.18	9.49	0.33	1.72	0.05	2.23	5.31	6.62	0.82	37.76
Canadian	0.11	0.50	2.30	0.20	3.75	0.85	0.48	0.75	5.75	1.65	3.25	0.10	19.69
Canyon	0.00	0.52	2.00	0.05	3.60	0.00	1.41	5.93	1.61	0.73	1.10	0.15	17.10
Carrizo Springs		0.11	2.02	1.23	3.21	0.85	0.79	0.00	1.05	2.62	0.14	0.55	
Carrollton	3.27	2.46	1.40	2.86	8.16	0.50	1.93	0.86	2.06	3.46	1.53	1.22	29.71
Childress	0.48	0.21	5.12	0.14	3.18	0.70	1.07	1.10	4.49	1.11	1.31	0.00	18.91
Chillicothe	0.35	0.61	2.33	0.28	7.60	4.12	5.80	0.28	4.96	1.49	1.60	0.20	29.62
Clarendon	0.60	0.32	3.48	0.50	5.02	2.05	0.20	2.21	7.80	2.20	1.80	0.40	26.58
Clarksville	7.28	3.59	2.60	2.34	7.39	2.96	1.63	T.	5.06	5.14	2.72	3.35	44.06
Claude	0.07	0.25	1.78	0.00	4.18	0.45	0.48	0.92	4.35	2.87	1.22	0.40	16.97
Cleburne	2.43	2.63	2.24	9.58	7.26	0.13	0.10	0.00	4.20	3.24	2.41	1.59	35.81
Clifton	2.86	2.90	2.15	2.60	6.37	0.25	0.53	T.	5.86	0.97	3.35	3.08	30.92
Clint	T.	0.10	0.05	0.00	0.79	0.01	1.33	1.21	0.17	3.90	0.77	0.12	8.47
Coleman	0.56	1.59	2.32	3.96	7.01	0.76	0.24	T.	2.70	1.34	1.42	0.99	22.89
College Station	3.72	1.98	2.54	7.64	14.70	0.17	6.04	0.39	0.02	3.06	9.28	0.83	50.37
Colorado	0.54	0.95	3.05	0.60	3.98	0.72	0.58		4.52	3.76		0.00	
Columbus	5.34	0.80	4.54	2.58	16.12	0.99	5.09	1.29	1.13	1.51	9.26	1.56	50.21
Comanche	0.78	1.94	1.46	4.90	5.88	0.63	1.42	T.	4.74	2.34	1.04	0.75	25.88
Conroe	4.58	2.36	5.31	7.84	20.46	3.85	4.69	1.06	2.08	3.30	4.95	2.17	62.62
Copperas Cove	1.45	2.35	2.90	2.65	7.22	0.45	0.73	0.11	4.93	1.30	3.75	1.20	29.74
Corpus Christi	0.64	0.06	1.06	0.86	5.34	1.59	3.98	1.59	3.65	1.69	3.07	2.14	25.67
Corsicana	4.24	2.46	3.15	3.83	8.84	0.57	1.58	0.00	2.36	1.87	4.31	4.10	37.31
Cotulla	0.00	0.11	2.86	1.39	10.47	1.08	1.35	0.00	0.70	0.14	1.20	2.23	21.53
Crane (near)	0.00	0.79	2.18	0.00	1.24	1.35	3.43	0.28	3.35	3.91	0.23	0.10	16.86
Crockett	4.17	4.13	4.37	5.31	15.98	0.10	2.20	0.00	0.00	5.38	7.26	1.65	50.55
Crosbyton	0.80		2.30	0.28	4.02	0.62	1.56	0.93	3.52	3.47	1.50	0.13	
Crowell	0.85	0.22	2.35	0.35	8.85	2.10	5.15	0.20	4.32	1.50	1.60	0.00	27.49
Cuero	3.56	0.35	3.29	2.35	12.32	3.10	12.55	0.07	0.66	5.31	7.74	2.97	54.27
Dalhart	0.09	0.54	2.43	0.40	2.21	2.91	1.60	5.66	1.53	1.04	1.66	0.09	20.16
Dallas	3.32	1.75	2.43	2.64	10.38	0.33	0.53	0.04	2.23	1.63	1.58	1.54	28.40
Danevang	4.41	0.77	3.18	1.43	15.87	5.39	6.29	2.30	1.72	2.03	5.60	3.94	52.93
Del Rio	0.42	0.18	0.72	1.17	4.41	3.32	1.32	T.	1.47	1.19	0.08	2.01	16.29
Denison (near)	2.17	0.17	1.16	1.22	12.42	1.07	0.07	0.03	3.14	1.19	0.11	2.07	24.82
Denton	2.66	1.11	1.30	2.51	8.75	0.69	1.39	0.23	2.46	3.26	1.45	2.95	28.76
Dialville	5.04	2.27	3.19	3.01	10.71	0.38	2.22	1.69	3.49	3.00	6.94	4.58	46.52
Dilley	0.71	0.06	3.14	0.44	8.95	0.23	2.14	0.10	0.75	4.50	1.66	1.42	23.98
Dimmitt	0.17	0.16	2.21	0.20	4.99	1.38	0.93	5.06	2.16	3.20	0.81	0.09	21.36
Dublin	1.64	2.69	1.93	7.28	4.62	0.17	2.26	T.	2.72	1.13	1.22	0.92	26.58
Dundee (near)	0.28	0.97	2.68	1.07	6.68	0.76	5.55	0.66	3.25	1.72	2.26	0.14	26.02
Eagle Pass	0.30	0.18	0.94	0.80	2.98	0.36	1.36	T.	7.23	1.93	0.45	1.79	18.32
Eastland	2.17	2.19	1.68	2.72	4.54	0.02	0.29	0.15	1.60	2.56	1.21	0.13	19.26
Edna	5.75	0.45	2.56	1.26	17.86	2.44	8.44	2.35	1.09	3.36	5.14	5.91	56.61
El Paso	T.	0.29	0.21	T.	1.51	0.54	3.01	1.18	0.12	1.60	0.33	0.50	9.29
Encinal	0.24	0.10	2.31	0.70	3.20	1.12	0.63	0.04	1.26	0.42	3.53	2.37	15.92
Fairland	0.69	1.33	2.25	1.91	8.60	0.65	1.90	0.31	0.50	2.35	3.66	0.94	25.18
Fairlie	0.72	T.	1.79	1.40	3.31	2.81	5.62	0.96	2.18	1.54	2.03	0.78	23.11
Fairurrias	4.07	3.03	2.93	3.80	6.27	1.18	3.93	2.33	2.36	2.65	2.78	2.04	37.37
Finley	1.72	0.72	5.29	2.70	12.67	1.89	5.10	0.20	0.47	5.29	5.80	1.48	43.33
Flatonia													

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Texas—Continued													
Flint	4.69	2.18	3.08	3.83	6.62	1.60	2.82	0.32	2.65	1.70	7.03	2.94	39.46
Floresville	1.02	0.45	3.14	2.11	7.04	3.12	2.55	0.00	1.36	3.07	4.01	0.97	28.84
Fort Clark	0.37	0.12	0.37	1.06	4.48	0.26	2.90	T.	3.50	0.95	0.18	2.96	17.15
Fort Davis	0.00	0.50	0.10	1.38	1.34	0.38	3.22	2.00	1.24	3.50	0.12	0.25	14.03
Fort McIntosh	0.12	0.28	1.53	1.41	4.87	1.51	0.87	0.00	2.22	0.49	1.20	1.15	15.65
Fort McKavett (near)	0.32	0.59	1.69	0.13	3.26	1.08	0.65	0.00	3.25	4.15	0.13	1.40	16.65
Fort Stockton	0.00	1.05	1.40	0.42	1.89	2.60	0.74	0.67	5.05	2.03	0.20	0.25	16.30
Fort Worth	2.08	2.78	1.39	2.06	5.83	0.20	0.43	T.	2.29	2.12	0.50	0.41	21.09
Fowlerton	0.00	0.00	3.50	3.33	7.07	1.15	1.43	0.60	0.85	0.72	2.48	2.16	23.29
Freeport	5.43	2.54	2.83	2.19	8.18	0.90	6.47	3.58	0.60	6.62	6.04	4.21	48.99
Friona (near)	0.43	0.53	1.62	0.16	4.01	1.24	1.01	2.22	1.72	1.71	1.01	0.10	15.76
Gainesville	2.09	1.39	1.85	3.03	10.22	0.75	1.77	0.31	7.94	3.72	1.29	1.76	36.12
Galveston	5.53	2.73	3.57	9.92	10.50	1.96	7.17	0.94	0.44	4.02	7.68	3.28	57.74
Garden City	0.44	0.88	4.00	1.10	4.32	1.98	1.37	1.00	5.77	2.76	0.91	T.	24.53
George West	1.65	0.22	2.56	1.61	6.51	2.99	4.31	0.60	2.15	0.43	2.95	4.26	30.22
Gilmer (near)				3.78	5.12	3.80	1.36	0.01	3.17	1.55	2.57	2.52	
Goliad	5.58	0.28	3.17	2.59	9.46	2.96	5.11	1.47	2.35	3.96	5.86	1.83	44.62
Gonzales	1.51	0.43	6.39	6.29	7.77	1.90	4.18	0.24	0.73	4.29	4.03	2.35	40.02
Goose Creek	6.06	1.63	4.47	8.87	8.86	4.60	2.88	4.63	1.29	2.18	9.50	4.16	59.13
Graham	1.20	0.70	1.95	0.60	7.10	0.09	1.94	0.00	4.40	3.52	0.14	0.00	21.55
Grandfalls	0.00	1.40	1.25	0.00	0.65	2.62	0.85	0.60	3.10	2.37	0.00	0.30	13.14
Greenville	6.86	3.05	2.59	2.77	10.77	1.46	1.02	0.50	7.36	1.70	2.81	2.35	43.24
Groesbeck	3.84	1.74	2.31	3.45	16.59	0.37	3.13	0.13	2.19	2.36	6.62	1.47	44.20
Groveton	6.88	3.96	3.34	4.94	22.49	1.98	6.46	1.00	1.18	4.62	5.93	3.78	66.56
Hallettsville	3.06	0.72	5.47	4.20	10.95	1.65	7.80	0.00	0.70	2.15	6.56	1.30	44.56
Hamilton	1.72	1.30	2.85	3.37	5.88	0.25	1.00	0.00	5.75	1.20	1.65	1.45	25.82
Harlingen	0.12	0.35	1.05	1.30	6.26	0.30	2.05	2.92	3.80	3.05	4.00	0.90	26.10
Harrisburg	4.18	1.41	3.17	11.13	11.20	3.25	5.91	0.59	1.25	2.20	7.75	2.10	53.95
Haskell	0.42	1.00	1.34	2.52	4.27	1.53	1.45	0.07	4.50	1.24	0.78	0.10	19.22
Hebbronville	0.45	0.00	0.71	2.11	1.97	1.04	3.11	1.96	0.17	0.40	1.60	0.98	14.50
Hempstead	2.89	1.77	5.12	6.90	10.78	1.20	5.81	1.10	0.45	2.90	9.81	1.30	50.03
Henderson	4.96	3.10	4.35	3.89	7.87	1.51	2.36	1.18	5.36	1.99	5.20	4.35	46.12
Henrietta	0.80	0.75	1.68	0.55	4.97	0.70	1.80	0.67	5.55	2.42	1.05	0.00	20.94
Hewitt	2.13	2.10	2.20	4.25	9.12	0.04	0.81	0.12	1.89	1.12	3.74	1.09	28.01
Hico	0.83	2.27	1.37	6.17	4.64	0.27	0.57	0.00	5.44	1.16	1.97	0.99	25.68
Hillsboro	3.09	1.98	1.95	2.67	6.75	0.22	1.03	0.75	3.98	1.64	5.72	4.86	34.64
Hill's Ranch	2.85	0.47	4.26	3.70	14.26	1.45	3.19	0.04	1.18	3.02	4.68	2.03	41.13
Hondo	0.59	0.44	2.05	2.42	8.55	2.50	2.13	0.26	2.13	2.12	1.83	2.62	27.64
Honey Grove	5.31	3.95	2.02	2.98	7.35	3.33	4.14	0.44	7.04	4.55	2.06	2.93	46.10
Houston	4.12	1.43	2.33	8.02	12.08	3.20	3.84	1.33	0.15	2.97	5.30	1.68	46.40
Hovey (near)	0.00	0.71	1.12	0.35	2.20	1.50	0.11	1.09	0.65	2.96	0.30	0.20	11.19
Huntsville	5.10	3.80	3.70	5.20	19.00	1.00	7.00	1.00	1.00	4.90	5.10	1.70	58.50
Jarrell	2.17	2.22	2.72	5.26	13.30	0.06	0.73	0.14	1.25	2.64	6.69	2.70	39.88
Jefferson	5.55	3.62	3.78	5.71	6.45	2.97	1.74	0.04	1.74	2.74	4.79	5.12	44.25
Junction	0.25	0.85	2.08	2.02	5.35	0.76	2.17	0.51	2.60	1.64	0.65	2.30	21.18
Karnes City	2.06	0.44	6.52	3.20	10.44	4.50	4.82	1.19	0.32	3.04	3.55	2.19	42.27
Kaufman	6.10	2.38	2.53	7.30	12.54	1.63	1.90	0.00	6.35	3.28	4.34	4.74	53.09
Kent											0.00	0.25	
Kerrville	1.89	0.88	1.88	1.29	10.45	1.78	2.56	0.15	3.57	2.75	2.44	2.45	31.79
Kingsville	0.70	0.00	1.07	1.13	5.91	2.54	3.62			3.02	2.43	1.50	
Kirbyville (near)	5.42	4.54	6.06	2.22	18.99	0.93	2.87	1.22	1.30	3.32	9.85	2.65	59.37
Knickerbocker	0.40	1.30	2.85	0.50	3.90	0.70	0.65	0.00	2.10	4.60	0.20	0.72	17.92
Kopperl	0.74	1.50	1.36	3.80	6.76	T.	0.16	T.	2.94	2.40	1.90	1.30	22.86
Lagrange	1.94	1.10	5.44	8.96	12.62	0.89	3.31	T.	1.17	3.37	6.05	1.99	46.84
Lamesa (near)	0.30	0.35	1.58	0.07	1.86	1.47	0.54	0.55	2.21	3.06	0.00	0.10	12.09
Lampasas	2.05	1.48	2.60	3.55	5.70	0.58	0.57	0.00	4.21	2.84	2.81	1.67	28.06
Langtry	0.08	0.59	0.96	0.34	1.21	1.62	1.62	0.00	0.00	0.77	0.03	1.07	8.29
La Parra	1.43	0.00	1.46	1.53	5.77	2.63	4.62	0.90	5.04	1.56	2.76	2.84	30.54
La Pryor	0.37	0.13	1.53	1.95	5.72	1.23	2.84	0.03	2.49	4.62	0.66	0.54	22.11
Laredo	0.23	0.62	1.77	1.49	4.88	0.98	0.88	T.	1.59	0.85	1.31	1.62	16.22
Liberty	5.65	2.72	3.25	4.53	13.18	1.91	3.95	0.57	2.60	1.92	10.21	2.78	53.27
Littlefield	0.23	0.63	3.25	0.05	5.79	1.80	0.75	4.85	1.96	3.71	1.19	0.12	24.33
Little River	1.79	2.82											
Llano	1.07	1.11	1.94	1.14	8.86	0.31	2.17	0.23	4.91	2.50	2.10	1.28	27.62
Longfellow (near)									4.15	1.30	0.00	0.50	
Long Lake	4.58	1.78	2.99	4.51	8.82	0.42	1.10	0.00	2.01	2.68	8.07	3.25	40.21
Longview		1.85		5.12	6.55	3.05	0.72	0.63	3.09	2.13	4.83	3.61	
Lubbock	0.48	0.34	2.03	0.15	6.91	0.90	0.20	1.68	1.36	3.56	1.00	0.07	18.63
Lufkin	9.36	2.80	3.41	4.24	13.08	1.95	4.37	0.57	1.31	1.02	7.40	4.35	53.86
Luling	1.80	0.82	3.89	3.91	17.18	2.16	2.55	0.20	1.34	2.61	2.78	3.86	43.10
McGregor	2.39	2.15	3.14	2.75	6.79	0.00	0.70	0.00	3.43	1.60	2.87	1.57	27.30
McKinney	3.99	2.71	1.90	1.86	10.68	0.92	1.64	0.40	3.77	3.64	1.44	0.73	33.68
Marble Falls	0.86	1.18	2.39	1.76	11.04	0.70	2.16	0.11	0.42	1.69	3.24	1.22	26.77
Marshall	4.28	2.57	3.49					0.20	2.91				
Matagorda	0.66	0.52	0.90	2.02	17.34	1.50	3.62	2.04	1.35	3.33	6.50	4.88	46.87
Memphis	1.30	0.60	3.55	0.11	4.30	1.60	1.73	0.95	4.70	2.10	0.90	1.10	22.94
Menard	0.47	0.60	1.73	0.45	7.59	0.48	1.45	0.00	2.51	3.79	0.00	3.08	22.05
Mercedes	0.40	T.	1.13	1.45	8.85	0.98	2.12	3.17	2.35	3.62	3.35	0.83	28.25
Mexia	4.50	2.16	2.32	3.46	13.79	0.56	0.76	T.	1.41	2.21	6.70	0.92	38.79
Miami	0.68	0.70	1.97	0.25	4.93	2.70	1.47	5.39	3.72	2.57	2.45	0.10	26.83
Midland	0.13	1.39	2.40	0.04	1.99	0.75	1.90	0.15	4.78	3.04	0.35	0.00	16.92
Mission	0.35	0.02	1.23	2.58	2.40	1.73	1.42	0.24	2.33	2.06	3.76	0.39	18.51
Montell	0.42	0.20	1.88	1.57	4.00	1.40	6.86	0.20	3.24	2.64	0.99	3.61	27.11
Morris Ranch	0.80	1.13	2.09	1.41	9.12	1.29	4.06	0.65	1.30	1.94	0.88	2.12	26.79
Mount Pleasant	4.57	3.93	2.34	3.54	7.30	0.90	1.05	0.52	3.72	2.92	2.46	2.66	35.91
Muleshoe	0.28	0.00	2.25	0.15	5.16	2.39	0.67	2.27	3.82	1.36	0.57	0.00	19.07
Munday	0.30	1.35	1.34	0.81	4.30	1.56	2.01	0.15	5.32	1.34	1.55	0.01	20.04
Nacogdoches	3.76	4.63	3.00	4.67	12.73	3.28	3.98	0.89	1.47	1.55	7.69	7.39	55.04
Navasota	4.05	1.42	3.38	7.75	13.68	2.07	7.11	0.00	0.11	3.09	6.75	1.13	50.54
New Braunfels	2.47	0.35	4.69	2.59	11.39	2.02	5.37	0.64	1.85	3.69	3.35	1.74	40.15
Nixon	2.28	0.33	5.85	3.01	11.71	3.33	3.22	0.67	2.16	2.46	2.28	2.20	39.50
Olton	T.	0.80	2.92	1.20	4.26	1.43	0.76	1.76	3.66	2.41	0.70	0.15	20.05
Orange				4.96	10.28	3.04	4.45	1.70	4.10	2.78	14.47	3.62	
Paducah	0.48	0.22	2.45	0.08	5.85	2.08	1.43	1.32	1.27	3.63	1.18	0.51	21.50
Paint Rock	0.51	1.62	2.92	2.84	4.23	0.29	0.39	0.00	3.73	4.53	1.36	0.74	23.16

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Texas—Continued													
Palestine	5.39	1.59	3.21	3.75	8.55	2.88	0.73	T.	3.23	3.38	6.56	3.21	42.48
Pampa	0.78	1.08	2.90	0.20	6.26	1.52	0.68	3.74	5.40	3.17	0.49	0.49	26.71
Paris	5.98	3.65	2.37	2.38	8.22	3.11	2.98	0.16	6.00	3.66	2.82	3.48	44.81
Pearsall	0.07	0.34	1.75	0.29	10.05	0.59	2.22	0.51	1.31	1.47	1.49	1.52	21.61
Perryton	0.55	0.77	2.00	0.63	3.81	1.07	2.25	4.12	2.52	1.83	2.33	0.00	21.88
Pierce	8.30	0.81	1.81	1.10	13.07	3.30	9.52	1.81	4.09	2.18	5.64	2.96	54.59
Plains			3.00		3.23	1.90	0.60	0.35	2.60	3.74			
Plainview	0.40	0.55	3.32	0.10	2.69	1.87	0.87	1.34	1.41	2.49	1.40	0.20	16.64
Point Isabel	2.00	0.13	0.08	2.81	5.60	0.59	0.58	1.23	6.63	1.83	3.72	1.54	26.74
Port Arthur	7.34	5.64	1.60	2.45	6.47	3.33	5.80	3.65	1.72	2.85	12.87	4.56	58.28
Post	0.45	0.00	1.37	1.37	3.31	1.37	0.93	0.33	2.35	1.87	1.09	0.20	14.64
Presidio	0.00	0.19	0.05	0.53	1.33	0.73	1.35	0.62	1.83	1.65	T.	0.16	8.44
Putnam	0.76	1.76	1.57	0.85	4.28	0.15	1.10	0.00	3.21	1.66	1.10	0.19	16.63
Quanah	0.60	0.60	3.10	0.15	5.80	2.71	2.17	0.84	2.94	1.43	1.45	0.15	21.94
Raymondville	0.69	0.21	2.94	3.22	4.46	1.25	3.04	2.62	1.72	2.30	4.11	0.99	27.55
Reagan (near)	3.35	2.12	2.25	3.64	12.20		2.65	T.			5.05	4.60	
Ricardo	0.76	0.00	1.99	1.04	7.20	0.98	0.38	1.00	7.30	1.57	2.25	5.37	29.84
Ringo Crossing	7.60	2.72	2.05	2.65	6.25	2.43	1.57	0.46	5.31	2.95	2.69	2.95	39.63
Riogrande	0.70	0.05	1.56	2.81	1.09	0.68	2.59	1.55	0.64	1.26	1.56	0.68	15.17
Riomedina	0.48	0.43	2.16	0.94	8.47	1.94	4.77	0.23	0.70	1.60	1.59	1.20	24.51
Riverside	4.21	3.12	3.10	3.39	17.92	0.63	6.52	0.81	0.98	3.28	5.54	1.53	51.03
Robstown (near)	0.67	0.00	1.00	1.52	4.01	2.22	2.49						
Rochelle	0.53	0.51		3.11	6.87	0.70	T.	1.00	4.38	0.64	1.02	1.55	
Rockland	5.01	4.68	4.74	3.89	22.55	3.15	3.47	0.34	5.95	0.97	8.76	3.04	66.55
Romero	0.00	1.25	2.92	1.46	4.31	1.40	0.80	6.62	0.15	0.64	2.05	0.00	21.60
Rosenberg	6.22	0.60	1.63	2.39	12.09	1.60	3.45	1.40	3.10	3.63	5.41	1.10	42.62
Rotan	0.56	0.96	1.90	1.00	3.88	0.26	2.51	0.06	6.79	0.70	0.54	0.18	19.34
Runge	4.14	0.22	3.12	3.62	7.53	3.10	4.35	0.23	1.30	3.01	2.91	1.37	34.90
Sabinal	0.74	0.41	1.96	1.48	6.07	1.72	3.52	0.56	3.14	3.65	1.25	2.30	26.80
San Angelo	0.35	0.66	2.41	1.97	3.43	0.96	0.57	0.47	1.99	2.99	0.06	0.70	16.56
San Antonio	2.21	0.16	3.12	2.37	7.73	2.19	2.58	0.01	2.02	1.60	3.17	2.08	29.24
San Benito	0.42	0.10	0.28	0.52	6.39	1.27	1.98	1.44	3.86	1.29	2.33	0.82	20.70
Sanderson	0.05	0.27	0.71	0.40	2.68	0.36	0.50	0.00	2.98	1.41	0.00	1.65	11.01
San Marcos	1.27	0.16	4.93	3.99	14.35	1.00	4.59	0.00	0.99	3.09	3.07	2.35	39.79
Sealy	4.13	1.08	3.24	4.57	14.27	1.01	5.15	0.02	2.62	1.73	11.00	2.43	51.25
Seguin	1.98	0.11	3.75	3.56	17.09	3.07	3.36	T.	4.88	2.77	2.20	0.59	43.36
Seminole	0.12	T.	1.63	T.	3.03	1.80	0.51		1.28	3.52			
Seymour	0.26	1.05	2.04	1.55	3.85	1.88	2.94	0.14	7.08	1.84	0.98	0.07	23.88
Shamrock							0.80	2.13	4.87	2.06	2.55	0.15	
Sherman	4.90	1.83	2.61	2.66	15.29	2.23	3.48	0.00	8.05	3.54	1.61	2.52	48.72
Sinton	2.33	0.55	0.60	1.23	9.07	1.87	5.06	5.10	1.39	1.65	3.51	3.34	35.70
Smithville	1.36	0.98	3.40	5.24	12.95	1.37	6.38	T.	0.36	3.05	4.59	1.16	40.84
Snyder	0.60	0.00	1.99	1.05	3.97	0.50	2.76	0.61	2.51	1.61	0.52	0.10	16.22
Southland	0.89	0.33	1.66	0.16	2.58	1.70	0.77	0.58	3.15	3.15	0.97	0.20	16.14
Spearman	0.58	0.30	2.30	0.90	1.83	1.80	3.50	0.70	2.68	3.52	1.13	0.10	19.34
Spur	0.27	0.21	1.19	0.02	2.80	1.23	1.17	0.33	3.74	3.07	0.40	0.03	14.76
Stamford	0.39	0.80	1.85	1.05	7.23	0.83	1.15	0.00	4.01	3.04	0.47	0.15	20.97
Sterling City	0.00	1.10	5.55	0.25	5.04	1.06	1.16	0.12	1.73	4.15	0.00	0.00	20.16
Stinnett		0.20	2.50	0.00	1.91								
Stratford	0.51	0.79	2.00	0.23	1.92	2.25	2.84	3.63	1.72	0.96	1.04	0.10	17.99
Study Butte	0.00	0.10	0.99	0.96	1.36	2.26	2.51	0.17	0.25	1.85	0.00		
Substation No. 14	0.33	0.46	1.90	0.67	4.99	2.31	2.06	0.12	1.67	3.22	0.25	4.67	22.65
Sugarland	4.45	1.53	2.16	4.49	16.49	1.58	4.22	1.15	2.28	3.54	5.17	1.61	48.67
Sulphur Springs	3.84	2.99	2.36	1.64	7.88	0.98	1.65	0.00	5.90	1.58	2.14	1.36	32.32
Tahoka	0.58	0.30	1.16	0.26	3.34	2.96	1.29	0.50	3.41	2.18	0.55	0.20	16.73
Taylor	2.46	1.22	3.30	3.47	10.34	0.62	1.47	0.27	0.65	3.64	5.49	1.83	34.76
Temple	2.74	2.12	2.47	5.81	14.51	0.71	1.14	0.60	1.78	1.93	4.50	1.58	39.92
Three Rivers	0.74	0.19	6.45	2.30	6.37	1.90	3.54	1.25	0.45	0.64	2.43	3.03	29.29
Throckmorton	0.14	1.90	2.42	1.09	5.32	0.35	2.08	T.	4.56	2.30	1.56	0.03	21.75
Trinidad	3.00	1.97	2.69	3.15	8.61	0.00	1.25	0.00	1.91	1.97	3.58	5.89	32.02
Troup	5.19	2.77	2.46	4.54	6.14	1.56	3.72	0.49	3.88	2.32	5.79	3.09	41.75
Tulia	0.40	0.40	2.24	0.00	3.06	1.21	0.00	2.29	1.58	3.50	1.08	0.40	16.16
Uvalde	0.45	0.27	2.07	0.74	5.60	2.03	1.90	0.10	5.45	2.30	0.82	1.60	23.33
Valley Junction	2.03	2.25	3.75	2.86	10.26	0.20	2.23	0.25	2.15	3.41	7.74	0.77	37.90
Vega	0.23	0.24	2.19	0.01	4.73	1.70	1.17	4.00	1.55	2.35	1.37	0.18	19.72
Victoria	6.76	0.23	5.22	1.42	13.89	5.13	7.58	0.29	0.27	6.62	4.46	1.94	51.81
Waco	2.45	2.18	2.50	5.87	9.70	0.15	1.86	T.	3.82	1.58	3.68	1.10	32.91
Waxahachie	3.11	1.93	2.31	3.89	12.47	0.84	0.59	0.00	6.48	2.34	3.81	2.68	40.45
Weatherford	2.39	1.82	1.57	3.36	8.78	0.44	2.31	0.36	1.22	1.73	1.42	1.84	27.24
Whitsett	2.00	0.00	5.75	1.52	6.32	0.57	2.76	0.00	1.71	2.53	2.01	2.26	27.43
Wichita Falls	1.43	0.97	2.08	0.46	7.33	1.54	3.71	1.05	3.53	1.80	1.09	0.18	25.17
Wiergate	5.10	6.07	7.11	3.66	12.46	0.99	0.35	0.00	0.15	1.78	6.91	2.90	46.58
Winfield (near)	6.00	5.97	5.55	3.25	8.07	2.40	1.70	1.40	2.20	2.75	2.85	2.85	44.99
Winters (near)	0.65	1.13	3.50	1.35	6.51	1.47	1.30	0.02	2.65	2.56	0.34	0.12	21.60
Woodsboro	3.98	0.00	0.85	1.53	7.75	1.39	4.00	3.47	1.34	2.63	4.65	2.00	33.59
Yoakum	2.60	0.50	2.83	4.64	13.01	5.08	6.85	0.00	1.30	2.04	8.00	1.35	48.20
Utah													
Alpine	1.92	2.45	3.08	3.26	0.12	1.42	0.27	0.92	2.90	0.53	0.28	0.86	18.01
Alton	1.61	1.58	0.31	0.74	0.64	0.41	2.33	3.96	2.91	0.29	0.00	0.02	14.80
Alunite	1.52	1.01	1.00	0.61	0.45	0.31	1.13	1.30	2.07	0.40	0.01	0.10	9.91
Beaver	0.71	1.09	0.75	1.24	0.50	0.00			0.67	0.23	0.07	0.05	
Benmore	0.35	0.95	1.95	1.77	0.31	0.59	0.75	1.66	1.95	0.50	0.16	0.27	11.21
Black's Fork	1.13	2.13	2.62	4.33	1.86	0.44	1.47	3.58	2.30	1.47	0.65	0.91	22.89
Black Rock	1.10	0.61	0.50	0.30	0.10								
Blanding	1.28	1.70	0.19	0.59	0.48	0.00	1.05	2.21	1.92	0.21	0.00	T.	9.63
Bluff	0.10	0.54	0.50	0.22	0.33	0.00	2.37	0.64	1.98	0.96	0.00	0.08	7.72
Brigham City	1.77	1.51	2.28	3.67	0.15	1.40	0.33	0.53	2.86	0.82	0.05	0.60	15.97
Castle Dale	0.48	0.51	0.83	0.47	0.33	0.22	1.25	1.55	1.87	0.67	T.	0.26	8.44
Cedar City	1.31	1.90	0.40	1.08	0.61	T.	2.51	2.79	1.71	0.40	0.13	0.01	12.85
Clarkston	4.05	2.00	2.94	2.23	0.14	1.41	0.25	0.40	2.45	1.06	0.05	1.58	18.56
Corinne	1.11	1.15	1.96	1.65	T.	1.43	0.89	1.31	1.97	1.07	0.03	0.45	12.03
Cottonwood Weir	1.78	2.26	2.66	5.54	0.22	1.78	0.34	2.27	2.74	0.58	0.16	0.46	20.79
Deseret	0.30	0.64	1.14	1.47	0.00	0.61	0.66	0.85	1.16	0.25	0.00	0.25	7.33

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annua
Utah—Continued													
Dry Gulch Ranger Station					1.01	0.57	1.78	2.71	3.58	1.11			
Duchesne	0.35	0.30	0.80	1.39	0.25	0.10	1.88	1.26	1.96	0.43	T.	0.18	8.90
Elberta	1.07	1.18	1.68	2.39	0.45	1.08	0.53	2.10	1.28	0.19	0.39	0.43	12.77
Elkhorn (Ashley) Ranger Station	0.74	1.00	1.28	2.83	1.91	0.91	1.30	2.05	3.59	1.10	0.00	0.19	16.90
Emery	0.61	0.80	0.72	0.10	0.75	0.00	0.25	1.21	1.18	T.	0.00	0.45	5.87
Enterprise	2.48	1.72											
Escalante	1.45	0.90	0.46	0.57	0.80	0.04	4.35	0.66	1.93	0.47	0.00	0.00	11.61
Farmington	2.36	2.05	3.25	4.06	0.17	0.75	0.50	0.10	2.86	0.88	0.05	0.63	17.66
Fillmore	0.77	2.15	2.63	2.16	0.29	0.63	1.40	0.70	1.55	0.96	0.22	0.29	13.75
Fort Duchesne	0.45	0.25	2.33	0.70	0.58	T.	0.66	0.12	0.10	0.46	0.00	0.07	5.72
Fruitland	0.96	1.31	0.86	1.38	0.10	0.44	0.97	1.75	2.10	0.53	0.11	0.30	10.81
Garfield	1.03	0.29	0.71										
Gooseberry Ranger Station					1.91	0.[illegible]	1.98	1.82	2.00				
Government Creek	0.42	1.00	2.06	2.34	0.10	1.01	1.64	1.42	1.63	0.32	0.08	0.21	12.23
Grantsville	0.56	0.44	0.64	2.06	T.	0.20	0.61	0.30	1.26	0.40	0.28	0.41	7.16
Great Basin Experiment Station					1.43	1.14	1.30	2.54	2.59	1.45			
Great Basin Experiment Station (Alpine)					0.71	0.62	2.36	1.82	1.60	0.80			
Great Basin Experiment Station (Oak Brush)					1.04	1.27	0.65	2.30	2.45	1.01			
Green River	0.39	0.13	0.46	0.98	0.31	0.02	1.26	0.68	1.63	0.76	0.06	0.10	6.78
Hanksville	0.32	0.34	0.16	0.15		0.00	0.42	0.87	2.14	0.17	0.06	0.02	
Hatch	1.04		0.40	1.02	0.96	0.16	2.92	3.39	2.79	0.19	T.	0.00	
Heber	1.32	2.55	1.61	2.69	0.83	1.30	0.48	1.04	1.93	0.51	0.05	0.41	14.72
Hiawatha	0.76	0.54	1.46	0.94	0.74	0.15	1.99	2.59	1.82	1.11	T.	0.29	12.39
High Line City Creek	2.89	3.06	5.26	5.82	0.35	1.59	1.28	2.31	3.27	1.49	0.37	0.61	28.30
Hole-In-The-Rock						0.65	1.17	5.38	2.60	2.66			
Huntsville	4.95	2.55	3.41	0.65			0.45	0.40	4.90	0.40	0.05	0.95	
Hurricane	0.78	0.65						1.52	2.30	0.03	0.00	0.00	
Ibapah	0.59	0.77	1.10	2.31	0.70	0.95	0.10	2.15	1.45	0.00	0.00	0.27	10.39
International	0.92	1.82	2.77										
Jensen							0.74	0.10	1.86		0.00	0.00	
Kanab	1.29	1.45	0.24	0.57	0.39	0.11	1.03	2.39	2.30	0.08	0.00	0.02	9.87
Kanosh	1.35	2.36	2.32	1.18	0.40	0.48	1.20	2.44	1.45	1.29	0.33	0.26	15.06
Kelton	0.62	0.18	0.73	0.83	0.15	1.50	T.	0.15	1.67	0.25	0.04	0.40	6.52
Koosharem	2.32												
Lake Point	0.74	0.68											
Laketown	1.13	0.36	1.59	1.44	0.14	0.38	0.13	1.06	1.98	1.10	0.24	0.44	9.99
La Sal									1.90	0.46	0.01	0.15	
Leeds (near)	1.06	0.43	0.70	0.80	T.	T.	0.22	3.38	2.52	0.30	0.00	0.00	10.01
Lemay	0.45	0.10	0.13		0.00		T.	0.11	1.83	0.50	0.00	0.35	
Levan	0.49	1.21	1.70	2.57	0.71	0.74	2.48	1.19	1.32	0.80	0.05	0.51	13.77
Lewiston	2.72	1.62	2.14	2.47	0.11	1.62	0.10	0.20	2.65	1.76	0.20	0.83	16.42
Loa	1.08	1.20	0.30	T.	0.10	0.00	0.90	1.55	1.91	0.20	0.00		
Logan	1.87	1.12	2.12	2.42	0.23	1.46	0.22	0.40	2.91	1.82	0.93	0.47	15.97
Logan Sugar Factory	3.53	1.04	2.02	2.30	0.23	1.26	0.16	0.45	2.68	1.90	0.28	0.66	16.51
Lowder Ranger Station						0.58	4.87	3.72	2.39				
Lower American Fork	1.29	1.58	1.96	3.18	0.10	1.43	0.25	0.88	2.40	0.35	0.23	0.55	14.20
Lower Mill Creek	2.39	2.80	2.66	5.78	0.22	3.19	0.83	1.71	3.88	0.78	0.13	0.62	24.99
Lucin	0.90		0.82	0.52	0.26	1.34	0.77	0.29	1.36	0.38	T.	0.69	
Lund	2.86	0.79	0.24	0.96	0.19	T.	0.51	3.29	0.38	T.	0.00	0.00	9.22
McCornick	0.70	0.92	1.16	0.86	0.06	0.51	1.56						
Mammoth Ranger Station							1.82	1.12	3.15				
Manila	0.50	0.77	1.30	3.00	0.25	0.32		2.65	3.49	0.70	0.76		
Manti	0.66	1.24	1.97	1.41	0.89	0.46	0.98	0.47	1.88	0.34	0.15	0.57	11.02
Maplewood	1.63	2.75	2.76	4.28	1.06	1.04	0.49	0.98	1.98	0.45	0.22	0.43	18.07
Midlake				1.71		0.56	0.35	0.60	1.95	0.30	T.		
Midvale	1.73	1.05	1.35	2.93	0.03	0.57	0.69	1.42	2.66	0.51	0.08	0.60	13.62
Milford	1.28	1.49	0.88	0.47	0.26	T.	0.32	2.40	0.52	0.26	0.08	0.04	8.00
Moab	0.74	1.09	1.09	1.14	1.85	0.10	0.78	0.83	1.73	0.14	0.73	0.08	10.30
Modena	1.29	0.59	0.68	0.99	0.09	0.01	1.06	2.06	0.49	0.11	0.00	0.01	7.38
Monticello	1.84	1.04	0.19	0.97	0.82	0.28	2.52	2.93	2.89	0.16	0.18	0.12	18.94
Morgan	5.05	2.30	7.45	3.12	0.40	0.98	0.91	0.67	3.03	0.48	0.16	0.40	24.95
Moroni	0.80	1.21	2.15	1.12	0.95	0.59	0.58	0.54	1.81	0.22	0.05	0.66	10.68
Mountain Dell	2.38	3.00	3.82	4.91	0.42	2.45	1.16	1.18	4.56	0.63	0.21	0.54	25.26
Mount Baldy Ranger Station						0.60	2.01	2.40	2.28				
Mount Emmons	0.27	0.96	0.52	2.36	0.75	0.26	1.12	1.51	2.04	0.90	0.10	0.23	11.02
Myton	0.32	0.36	1.20	0.95	0.37	T.	1.14	1.17	1.48	0.59	0.10	0.15	7.83
Nada	1.99	0.71	0.73	1.39	0.03	0.00	0.37	1.50	0.29	T.	0.06	0.17	7.24
Nephi	0.79	0.91	1.44	1.22	0.85	0.85	3.46	1.80	0.85	0.81	0.26	0.45	13.09
Oak City	0.39	0.77	1.79	2.73	0.16	0.92	2.86	0.89	1.44	0.63	0.10	0.24	12.92
Ogden	3.05	2.58	3.43	3.79	0.27	1.19	0.57	0.46	3.52	0.69	0.21	0.53	20.29
Ogden Sugar Factory	3.27	2.20	3.00	3.57	0.61	1.19	0.41	0.20	3.58	0.54	0.24	0.48	19.29
Orderville	1.61	1.74	0.38	0.29	0.05	0.00	2.07	1.03	2.98	0.05	0.00	0.00	10.20
Orr's Ranch	0.80	0.87	1.66	1.75	0.00	0.45	0.45	0.85	0.70	T.	T.	0.30	7.58
Otter Creek Reservoir	1.34	1.22	0.12	0.02	0.64	0.00	2.25	2.10	1.44	0.61	0.00	0.05	9.78
Panguitch	0.73	0.35	0.58	0.83	0.37	0.03	3.97	1.52	1.35	0.10	0.00	0.06	9.99
Park City		2.63	3.15	4.89	0.25	1.83	0.20	2.04	3.71	0.80	0.20	0.73	
Park Valley	0.96	0.40	0.64	0.93	0.31	1.68	0.10	1.76	1.52	0.42	0.18	1.02	9.92
Parowan	0.68	1.01	0.60	1.26	0.73	T.	2.54	1.34	1.62	0.69	0.31	0.13	10.91
Payson	0.76	1.62	2.21	2.68	0.86	1.20	1.15	0.92	1.49	0.68	0.36	0.72	14.65
Piute Dam	0.79	1.06	0.36	0.40	0.69	0.16	1.05	2.32	2.45	0.42	0.10	T.	9.80
Price	0.79	0.43	1.45	0.46	0.35	0.10	0.94	2.10	3.07	1.00	0.00	0.20	10.89
Provo	1.65	1.78	1.76	3.36	0.45	1.27	0.15	1.27	1.45	0.24	0.30	0.65	14.33
Provo Bench	1.42	2.79	1.84	3.44	0.42	1.38	0.62	0.96	2.15	0.14	0.14	0.65	15.95
Richfield	0.58	1.10	1.54	1.36	0.56	0.22	1.98	1.77	1.20	0.13	0.06	0.31	10.81
Richmond	1.75	1.85	2.16	2.25	0.08	1.32	0.10	0.49	2.15	2.07	0.24	0.52	14.98
Riverdale	2.47	2.51	3.16	3.34	0.01	0.94	0.34	0.08	3.45	0.78	0.15	0.47	17.70
St. George	1.15	1.25	0.15	0.51	0.00	0.00	0.21	1.26	0.95	T.	0.00	0.00	5.48
St. John	0.65	0.56	1.15	1.05	0.00								
Salina	0.29	1.71	1.80	0.60	1.51	0.20	0.77	0.95	0.95	0.11	0.10	0.15	8.94
Saltair	0.91	0.77	0.94	1.94	0.00	1.04	0.37					0.82	
Salt Lake Airport	0.77	0.95	1.77	3.42	0.19	0.46	0.62	0.51	2.35	1.28	0.13	0.48	12.98
Salt Lake City	1.53	1.34	1.96	3.97	0.18	0.70	0.40	0.41	2.45	0.98	0.12	0.42	14.47
Santaquin	1.44	1.95	2.48	3.76	1.34	1.62	0.94	1.26	1.98	0.09	0.42	0.65	17.98

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Utah—Continued													
Scipio	0.79	1.04	2.29	0.85	0.67	0.98	2.17	1.44	2.86	0.65	0.10	0.43	14.27
Sevier Bridge Dam	0.18	0.38	0.90	0.51	0.68	0.60	1.80	2.45	1.81	0.10	0.15	0.05	9.62
Silver Lake	5.28	5.06	5.55	7.03	0.78	2.79	2.02	3.94	4.04	1.99	0.58	1.74	40.80
Smithfield (near)	1.62	0.81	1.83	2.06	0.25	1.35	0.11	0.37	2.58	1.92	0.17	0.64	13.71
Snake Creek	3.22	3.19	3.13	3.81	0.53	1.42	0.25	1.76	2.80	1.14	0.04	0.60	21.89
Snowville				0.65	0.00	2.48	0.58	0.35	2.51	0.20	T.	0.93	
Soldier Summit	2.95	3.47	4.33	3.88	1.17	1.06	5.14	2.48	1.86		0.13		
Spanish Fork	1.59	2.46	2.83	4.14	1.24	1.38	0.96	1.12	2.13	0.55	0.28	0.40	19.08
Springdale	0.93	1.30	0.74	0.82	0.04	0.05	1.15	1.90	3.38	T.	0.00	0.00	10.31
Sunnyside	0.64	0.59	0.81	0.82	0.79	0.07	3.79	1.47	3.34	0.68	0.02	0.08	13.10
Thistle	2.52	2.62	2.18	2.59	0.75	0.53	1.52	3.21	1.38	1.80	0.15	1.70	20.95
Thompsons	0.99	0.90	0.32	0.42	0.30	0.10	1.55	1.27	2.15	0.35	0.40	0.08	8.83
Tooele	1.28	1.24	2.59	3.80	0.10	0.54	0.66	1.05	2.28	1.78	0.47	0.52	16.31
Tremonton	1.86	1.12	1.79		0.04	1.27	0.25	0.32	2.36	0.51	0.00	0.46	
Trout Creek Ranger Station							3.35	4.52	4.07				
Utah Lake (Lehi)	0.84	1.65	0.97	2.30	0.18	0.59	0.52	0.92	2.02	0.72	0.32	0.32	11.35
Vernal	0.82		1.40	1.67	1.22	0.20	0.84	0.85	1.39	0.95	0.00	0.05	
Watson (near)	0.54	0.63	1.14	1.58	0.94	0.38	1.92	1.93	4.60	0.84	0.54	0.06	15.10
Wendover	0.15	0.01	0.98	0.70	T.	0.52	0.76	0.18	2.68	0.06	T.	0.20	6.24
Widtsoe	1.59	0.84	0.65	1.11	1.16	0.08	3.71	2.01	3.21	0.48	0.11	0.06	15.01
Woodruff	1.17	0.12	1.45	0.73	0.28		1.46	1.77	2.85	0.50	0.24	0.28	
Zion National Park	1.73	1.64	1.21	1.45		0.13	1.65	3.74	4.81	1.63	0.00	0.00	
Vermont													
Bellows Falls	3.93	2.69	3.77	5.71	4.41	3.06	1.38	3.80	2.19	1.73	2.26	3.70	38.63
Bennington	1.66	1.99	3.41	5.91	3.43	2.84	1.16	1.70	2.23	1.39	2.33	2.31	30.36
Bethel	2.74	2.85	5.82	4.31	3.24	5.33	2.75	2.05	4.96	1.88	1.96	3.44	41.33
Bloomfield	2.34	1.26	3.55	4.60	4.16	3.40	2.32	3.12	3.27	2.47	2.77	3.22	36.48
Brattleboro	4.32	3.85	3.74	6.07	3.72	2.56	0.79	1.92	1.93	3.19	2.56	4.15	38.80
Burlington	1.33	1.38	2.47	3.74	4.51	5.55	3.35	1.54	1.42	2.87	2.24	3.47	33.87
Cavendish	3.71	3.74	3.51	6.52	3.02	4.45	1.55	2.40	4.03	2.63	2.28	4.29	42.13
Chelsea	3.47	2.55	3.48	5.34	3.52	5.98	1.30	2.05	3.10	1.81	1.63		
Cornwall			2.39	6.63		6.02	2.07	1.67	3.04	2.70	1.46	2.61	
Enosburg Falls	3.55	2.08	4.33	5.29	5.29	5.82	3.25	3.62	2.36	4.61	3.30	2.28	45.78
Garfield	1.70	2.12	2.07	4.31	3.90	10.60	3.74	2.79	3.00	2.13	2.10	2.79	41.25
Northfield	2.42	3.00	2.54	4.22	2.72	4.78	2.09	1.79	2.39	1.83	1.39	2.53	31.70
Rochester	2.68	2.35	4.28	6.14	4.04	5.33	2.90	2.80	3.60	2.21	2.89	4.27	43.49
Rutland	1.59	2.13	2.79	4.76	4.24	4.55	3.30	5.64	7.09	2.19	2.48	3.52	44.28
St. Albans								2.17	1.62	2.86	2.41	3.95	
St. Johnsbury	2.09	1.83	3.00	3.69	3.10	3.41	2.36	2.42	2.58	2.10	2.24	3.57	32.39
Somerset	4.77	4.06	5.93	10.42	5.87	3.69	2.34	3.94	2.41	4.39	4.21	4.97	57.00
Vernon	4.10	3.61	4.01	5.51	4.18	4.01	0.66	1.74	2.34	2.13	2.46	3.74	38.49
White River Junction	2.84	2.75	3.10	4.33	3.45	3.01	2.48	2.21	4.24	1.54	1.79	3.62	35.36
Woodstock	3.19	3.32	3.96	6.07	3.87	4.51	2.21	2.98	4.14	2.57	2.26	2.57	41.65
Virginia													
Blacksburg	2.43	5.09	4.33	3.40	3.33	6.55	4.28	1.94	1.58	8.11	3.48	2.37	46.89
Buchanan	2.86	3.65	4.65	4.60	5.27	4.09	5.68	2.62	1.09	10.91	3.69	2.57	51.68
Burkes Garden	3.13	3.07	3.53	3.17	3.82	6.52	4.15	2.70	0.21	4.49	5.90	1.20	41.98
Callaville	2.42	5.12	4.60	3.43	5.88	6.27	3.91	3.01	3.63	8.67	4.19	1.72	52.85
Cape Henry	3.07	5.25	3.36	1.45	6.73	5.60	2.80	1.92	5.52	5.24	3.25	2.19	46.38
Catawba Sanatorium	2.47	3.63	5.11	3.94	5.25	6.07	3.13	1.48	3.24	10.12	5.13	1.55	51.12
Charlottesville	3.00	4.23	4.02	5.98	3.15	7.56	5.77	1.40	2.77	7.77	1.72	2.03	49.40
Chatham	2.14	4.25	3.39	6.61	4.04	4.33	4.71	7.47	3.22	6.40	3.76	2.76	53.08
Christchurch	2.21	6.71	5.89	4.64	3.95	2.32	3.14	2.85		4.22	2.62	1.20	
Clarendon	2.37	3.18	2.35	6.69	2.53	6.95	1.45	1.58	3.86	5.62	1.44	2.09	40.11
Clarksville	1.70	7.41	5.51	4.10	4.75	5.25	5.39	8.43	4.14	6.75	3.35	2.12	58.90
Columbia	2.12	4.22	4.31	5.15	4.13	3.21	3.47	3.21	2.96	11.75	2.21	1.84	48.58
Culpeper	2.42	3.19	2.51	4.21	4.11	4.16	1.80	1.33	2.72	8.21	1.83	2.75	39.24
Dahlgren	1.68	3.90	3.29	5.20	2.49	4.11	1.85	3.86	1.98	4.61	2.26	2.48	37.71
Dale Enterprise	2.23	2.29	3.01	3.73	4.98	4.80	4.49	1.34	1.68	4.36	3.34	1.82	38.07
Damascus	1.57	3.99	4.55	1.95	6.45	6.05	5.86	2.68	6.58	3.77	3.67	1.32	48.44
Dante	3.96	3.46	6.00	3.53	9.80	5.11	6.79	2.57	4.51	5.47	4.99	2.10	58.29
Danville	1.81	5.06	4.28	5.41	2.21	5.77	5.08	5.29	1.89	7.58	2.47	3.13	49.98
Deerfield	3.48	1.27	3.70	4.36		2.69	5.13		0.18	6.94	3.72	1.66	
Diamond Springs	3.62	5.48	4.65	1.10	9.25	4.60	5.00	2.50	4.20	7.20	4.45	2.20	54.25
Emory	2.60	4.12	4.63	3.31	6.86	5.54	4.47	1.58	2.37	3.75	4.67	2.04	45.94
Falls Church	2.43	2.79	2.94	6.46	2.30	4.85	2.31	1.47	3.20	6.37			
Fredericksburg	1.79	3.28	3.29	4.93	2.76	3.78	1.46	0.98	2.39	7.23	2.03	2.01	35.93
Glenlyn	3.63	5.76	3.68	2.15	3.55	7.33	5.54	3.53	1.82	8.28	4.72	2.69	52.68
Hopewell	1.63	3.48	4.58	2.37	3.30	8.57	2.69	4.28	2.08	7.62	1.99	2.67	45.26
Hot Springs	1.16	3.02	3.37	2.87	3.78	4.16	3.94	3.49	2.35	8.88	3.30	1.09	42.01
Ivanhoe	1.95	4.25	4.33	2.88	5.60	8.53	3.16	1.19	0.99	10.08	3.55	2.17	48.68
Langley Field	1.58	7.31	3.41	2.13	6.13	3.21	3.74	3.63	2.41	5.61	2.90	1.40	43.46
Lexington	3.15	2.87	5.00	4.48	3.72	4.18	3.46	3.13	1.61	5.11	3.42	2.89	43.02
Lincoln	3.43	3.30	2.96	5.56	5.93	3.83	2.83	3.16	1.50	4.99	3.53	1.95	42.97
Lynchburg	2.38	2.75	3.22	5.76	3.06	5.00	2.21	3.99	2.20	5.21	2.82	1.87	40.47
Mendota	3.85	4.48	5.59	2.97	7.28	7.49	6.96	1.59	1.72	5.48	4.81	1.98	54.20
Mineral	2.12	3.64	3.95	3.26	4.38	3.08	1.94	1.32	0.94	10.50	1.74	2.51	39.33
Mount Weather	2.66	3.26	4.11	7.44	8.04	3.11	3.16	1.28	2.13	11.33	3.02	1.39	50.93
New Canton	2.43	3.77	3.71	4.92	3.30	3.71	2.61	2.46	1.32	8.13	2.35	2.98	41.69
Norfolk	1.81	4.24	2.80	1.06	7.90	3.35	4.09	2.64	3.87	5.66	3.66	1.83	42.91
Onley	2.09	5.29	4.17	4.36	5.71	4.21	3.47	2.98	2.02	3.62	2.20	1.98	42.10
Pedlar Dam	2.78	4.32	6.10	6.07	5.27	11.56	4.85	3.00	2.38				
Powhatan	1.90	4.10	3.61	4.65	3.40	5.14	2.26	3.13	1.84	8.80	3.55	2.86	45.24
Quantico	1.71	2.69	2.94	4.84	1.58	3.96	1.55	0.98	2.44	3.96	1.76	1.72	30.13
Radford	1.78	4.42	3.92	2.82	2.93	4.73	2.98	1.38	0.79	5.68	2.40	1.71	35.54
Randolph	1.79	5.61	3.98	5.18	4.06	5.43	5.94	5.19	1.32	5.57	2.67	3.30	50.04
Richmond	1.53	5.19	3.96	3.50	4.00	3.02	2.16	2.41	2.41	6.99	3.34	2.70	41.21
Roanoke	3.07	2.72	4.11	3.95	4.72	7.01	3.98	1.74	2.65	11.25	2.42	2.75	51.37
Rocky Mount	2.87	4.00	3.90	4.03	4.39	8.06	2.89	2.40	2.30	9.23	3.85	1.92	49.84
Runnymede	3.76	5.43	4.79	3.25	5.14	3.59	3.11	1.38	1.86	6.45	4.64	0.90	44.30
Saltville	3.13	3.75	3.90	2.76	6.63	7.40	3.56	2.36	1.75	3.83	4.84	2.25	46.16
Spears Ferry	4.97	3.85	5.60	3.18	7.98	5.36	4.77	1.78	3.00	4.35	6.17	2.38	53.39

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Virginia—Continued													
Staunton	2.50	1.61	2.08	3.68	4.26	4.42	2.94	1.83	2.33	4.78	1.22	1.40	33.05
Stuart	2.13	5.10	5.74	3.91	5.84	9.11	7.77	5.60	2.80	9.02	3.40	2.97	63.39
Wallaceton	3.18	6.48	4.73	0.93	6.81	5.78	5.65	5.06	7.95	7.95	4.35	2.61	61.48
Williamsburg	2.84	5.28	3.14	3.12	3.86	4.84	7.03	1.00	1.24	6.20	3.33	1.85	43.73
Winchester	2.13	2.25	2.73	4.78	4.18	4.61	4.37	1.43	2.52	8.88	4.25	1.35	43.48
Woodstock	2.10	2.83	2.80	5.45	3.79	1.97	4.60	1.32	2.14	7.33	4.01	2.07	40.41
Wytheville	1.53	3.93	3.51	3.11	3.64	8.26	3.07	2.68	2.72	8.06	4.07	1.94	46.52
Virgin Islands													
St. Croix:													
Annally	4.23	1.24	3.68	2.48	5.90	2.59	3.46	5.63	8.08	4.29	3.88	2.42	47.88
Bonne Esperance	3.32	0.86	3.40	1.41	4.20	2.88	2.21	5.08	6.95	2.26	5.28	1.89	39.74
Christiansted	3.24	1.26	3.06	2.10	6.72	2.79	2.67	5.22	7.08	3.45	4.05	2.37	44.01
Experiment Station	3.63	2.28	3.88	1.17	5.29	1.93	2.47	4.18	9.03	2.63	5.0.	2.99	44.55
Fredericksted (Prosperity Estate)	2.47	1.10	3.97	1.61	5.47	2.71	3.23	5.22	6.98	2.83	4.43	2.44	42.46
King's Hill	5.49	1.30	2.85	1.17	3.73	2.89	2.21	4.84	6.17	1.42	3.20	2.14	35.41
St. John:													
American Hill	2.62	1.75	2.16	0.69	5.72	2.74	1.43	5.20	3.31	3.75	2.08	2.52	34.57
Cruz Bay	3.18	0.98	2.01	1.17	4.82	1.92	2.22	5.47	3.72	5.36	4.64	2.81	38.30
St. Thomas:													
Anna's Retreat	3.56	1.01	1.84	1.46	2.70	2.62	1.37	5.79	3.85	3.79	3.14	2.81	33.74
Charlotte Amalie	3.60	1.15	2.31	1.42	5.48	2.34	1.73	6.70	3.68	4.65	4.02	2.22	39.30
Washington													
Aberdeen	4.61	4.54	9.25	7.39	1.64	3.87	1.29	0.88	0.35	2.57	2.54	12.02	50.95
Adna	2.75	1.60	4.90	4.10	1.33	2.15	0.59	0.64	0.73	1.18	0.87	8.41	29.28
Alpowa Ranch	1.47	1.12	1.05	0.67	0.50	1.95	0.01	0.30	0.11	0.52	0.00	1.92	9.62
Anacortes	1.89	1.27	2.09	1.47	1.20	0.74	0.09	0.40	0.20	0.90	1.56	4.08	15.89
Anatone	3.73	1.24	0.87	3.06	1.04	2.91	0.10	0.52	0.76	0.79	0.14	5.27	18.43
Baker Lake	5.21	4.91	10.15	6.26	5.87	5.63	1.21	1.39	1.78	5.60	2.16	17.09	67.26
Battle Ground	4.57	1.89	3.85	5.16	1.00	2.42	0.02	0.58	0.67	0.90	0.88	10.49	32.43
Beaver (near)							2.50	1.91					
Bellingham	1.62	1.54	2.38	1.48	1.94	0.64	0.26	0.67	0.60	1.66	1.73	4.04	18.56
Bellingham (near)	1.56	1.44	2.77	1.32	1.90	0.60	0.11	0.54	1.21	2.17	2.38	3.91	19.94
Berne		2.76						0.31	0.28	1.55	0.34	8.70	
Bickleton	0.51	0.00	0.34	0.67	0.41	0.75	0.00	0.00	0.05	0.14	0.00	2.85	5.72
Big Four										9.27	5.56	29.13	
Blaine	1.97	1.37	3.02	1.51	1.80	1.10	0.10	0.91	0.55	2.36	2.71	5.58	23.28
Blewett Pass	2.49	0.94	2.19	0.96	0.86	1.54	T.	T.	0.20	0.56	0.06	3.24	13.04
Bremerton	1.83	0.92	4.66	3.62	1.84	1.23	0.74	0.49	0.66	0.81	1.07	8.52	26.39
Brewster	0.77	0.03	0.23	1.04		1.50	0.00	0.00	0.17				
Brooklyn			9.69	7.15	2.44	3.29	0.98	0.63	0.52	1.40	1.28	11.92	
Buckley (near)	2.92	1.90	5.19	3.91	3.85	3.79	0.16	1.11	1.01	2.13	1.41	7.43	34.81
Bumping Lake	5.25	1.27	2.45	2.29	2.41	1.68	0.13	0.01	0.11	0.64	0.56	10.62	27.42
Canto	6.90	4.62	11.67	7.36	5.02	5.25	5.08	2.28	0.81	4.50	2.51	13.62	65.62
Carbon River Entrance	6.42	3.03	7.19	4.08	5.61	3.30					1.20	5.98	
Castle Rock	3.31	1.24	5.57	4.07	1.70	3.61	0.21	0.95	0.59	1.84	0.62	10.18	34.79
Cathlamet						3.59	0.79			3.50	1.21		
Cedar Lake	9.07	6.96	11.49	7.50	5.42	5.04	1.22	1.14	1.34	5.47	3.07	16.98	74.70
Centralia	2.90	1.59	5.04	3.85	1.56	3.32	0.42	0.73	0.34	1.49	0.95	7.85	30.04
Chesaw	0.64	0.18	0.42	1.11	0.82	1.62	0.04	0.14	0.21	0.33	T.	1.23	6.74
Chewelah	1.28	0.13	1.08	2.46	0.37	2.76	T.	T.	0.56	0.22	0.04	3.26	12.16
Chimacum		0.99	1.36	2.81	0.92	1.25	0.26	0.84	1.40	0.28	0.78	2.93	
Chiwawa River	3.95	2.43	4.28	3.84	1.71	3.37	0.02	0.10	0.24	1.36	1.06	12.74	35.10
Clallam Bay	4.26	2.17	7.61	5.63	3.19	3.70	0.79	1.52	0.08	3.79	3.70	14.39	50.63
Clearbrook	2.43	1.61	3.54	1.90	3.44	1.86	0.30	0.63	0.99	4.94	2.70	5.19	29.53
Clearwater				8.59	3.37	6.68	2.55	1.99	0.87				
Cle Elum	2.47	1.17	1.47	0.92	0.80	0.85	0.00	0.02	0.26	0.45	0.10	5.18	13.60
Colfax	2.59	0.39	1.37	1.49	1.10	1.60	0.02	0.03	0.35	0.78	0.10	3.65	13.47
Colville	0.60	0.12	0.94	2.04	0.08	1.78	0.00	0.01	0.01	0.26	T.	2.29	8.22
Conconully (near)	0.23	0.20	0.32	1.20	0.77	1.76	T.	0.08	0.58	0.37	0.02	1.31	6.84
Concrete	3.51	4.02	7.66	6.62	4.14	3.68	1.00	0.86	0.35	3.19	1.24	9.50	45.77
Cougar	8.29	5.54	12.38	12.58	2.78	5.77							
Coupeville	1.78	1.43	1.68	0.93	0.52	0.76	0.11	0.44	0.29	0.77	0.89	2.29	11.89
Cushman Dam	4.82	3.19	8.11	9.98	3.22	4.92	1.00	0.22	0.22	2.45	1.68	17.54	57.35
Cusick	1.36	0.50	1.71	1.88	0.44	3.24							
Darrington		3.77	8.49	4.92	3.30	4.15	0.76	0.70	0.51	3.39	1.11	14.05	
Davenport	1.12	0.25	0.57	0.94	0.21	1.13	0.00	T.	0.38	0.47	0.10	2.13	7.30
Dayton (near)	3.16	1.22	0.93	0.89	0.64	2.01	T.	0.09	0.71	0.86	0.34	4.59	15.44
Deer Park	1.44	0.29	1.34	1.84	0.45	1.79	T.	0.03	0.26	0.55	0.12	3.76	11.87
Diablo Dam	4.19	3.11	6.92	3.67	5.07	3.58	0.78	1.13	1.00	4.80	1.29	14.73	48.07
Dirtyface Mountain		1.20	3.12	0.15	2.57	1.61	T.	T.	0.07	0.05	0.19		
Domke Lake	2.39	0.73	1.54	1.51	1.81	1.71	0.00	0.16	0.23	0.43	0.44	6.66	17.64
Dryden		0.21		0.00	0.28								
Ellensburg	1.43	0.01	0.35	0.21	0.49	0.50	0.00	0.00	0.11	0.11	0.00	1.25	4.46
Ephrata	0.46	0.00	0.36	0.01	0.45	1.07	0.00	0.00	0.19	0.02	0.00	0.59	3.15
Eureka							T.	T.	0.61	0.07	0.05	2.07	
Everett	3.96	2.31	4.06	2.77	2.67	2.09	0.41	1.68	0.56	1.27	1.50	5.3	28.81
Farmington								0.08	0.50	0.84	T.	3.49	
Forks	6.19	3.40	12.29	10.43	4.42	6.63	2.94	1.78	0.73	7.55	3.94	17.51	77.81
Goldendale	2.43	0.21	0.63	0.67	0.13	0.58	0.00	0.07	0.03	0.23	T.	5.05	10.03
Grapeview	1.79	2.54	6.31	4.65	1.77	1.88	0.17	0.44	0.16	1.58	1.26	8.49	31.04
Guler	4.51	1.28	2.26	4.12	0.57	1.67	0.07	T.	0.17	0.68	0.28	10.87	26.76
Gunn Ranch	0.76	0.22	0.66	0.63	0.74	1.17	T.	0.15	0.13	0.46	0.24	2.24	7.40
Hanford	1.37	0.07	0.02	0.05	0.25	0.89	T.	0.07	0.15	0.07	T.	0.84	3.76
Harrington	1.01	0.14	0.56	0.64	0.59	1.96	0.00	T.	0.34	0.14	0.08	1.42	6.88
Hartline	0.15	T.	0.35	0.20	0.56	1.47	T.	T.	0.05	0.12	T.	0.98	3.88
Hassan	0.25	0.18	0.50	1.68	0.56		0.00	0.00	0.47	0.15		1.09	
Hatton (near)	0.58	0.28	0.14	0.32	0.46	1.38	0.00	T.	0.13	0.23	T.	1.38	4.90
Headworks	3.93	1.89	4.83	5.49	2.74	2.88	0.29	0.80	0.84	1.47	1.84	9.52	35.52
Index	6.51	5.97	10.85	8.32	7.10	5.24	1.10	1.41	1.89	5.05	2.21	15.32	69.97
Irene Mountain	0.50	0.01	0.44	2.03	0.83	2.46	0.04	0.05	0.11	0.49	T.	1.12	8.08
Kahlotus (near)	1.15		0.28	0.22	1.36	1.83	0.00	T.	0.40	0.28	0.05	2.08	
Kalama (near)	6.99	2.60	6.40	7.79	1.50	3.84	T.	0.66	0.82	1.87	1.20	13.49	47.26

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Washington*—Continued**													
Kelso	2.81	1.48	4.27	3.62	1.37	1.67	0.09	0.76	0.47	1.19		7.11	
Kennewick (near)	1.25	0.11	0.24	0.37	0.34	0.62	0.00	0.03	0.26	0.11	T.	1.74	5.07
Kent	1.69	1.93	4.28	2.29	1.27	2.10	0.07	0.91	0.76	1.14	1.12	7.19	24.75
Kettle Falls (near)	0.81	0.14	1.02	1.61	0.17	1.44	T.	0.17	0.02	0.13	T.	2.52	8.03
Keyport		1.16		2.48	1.38	1.99	0.15	1.64	0.77	0.90	0.58	6.01	
Kiona (near)	0.89	0.05	0.18	0.44	0.74	0.75	T.	0.03	0.26	0.17	0.07	2.21	5.79
La Center (near)	5.02	2.65	3.34	4.71	0.93	2.72	0.00	0.74	1.49	1.01	0.82	9.11	32.64
La Crosse (near)	1.38	0.35	0.41	0.48	0.44	1.33	0.10	0.10	0.18	1.25	0.05	3.58	9.65
Lake Cle Elum	4.30	2.57	4.82	2.16	2.39	1.91	T.	T.	0.37	1.26	0.49	7.57	27.84
Lake Kachess	5.38	4.89	6.00	2.69	2.69	2.32	0.10	0.14	0.36	2.38	0.72	10.90	38.57
Lake Keechelus	8.59	6.29	7.12	5.17	3.15	2.53	0.12	0.19	0.66	2.69	1.05	11.38	48.94
Lakeside	0.53	0.01	0.47	0.30	1.60	0.73	0.00	T.	0.24	0.06	0.01	1.29	5.24
Lake Sutherland	2.94	1.79	4.96	5.00	1.77	2.18	0.16	0.75	0.33	1.69	1.92	9.90	33.39
Lakin Ranch		0.32	0.22	0.28	1.08		0.00	T.				4.75	
Landsburg	3.81	3.02	6.10	4.14	3.10	3.70	0.32	1.16	0.67	2.36	2.39	10.38	41.15
Laurier	0.57	0.33	0.74	2.09	0.74	2.26	0.00	0.15	0.22	1.19	T.	1.52	9.81
Leavenworth	2.50	0.41	1.05				0.00	0.01	0.60	0.11	0.11	3.88	
Lemanasky Lake	0.35	0.09	0.66	2.39	0.46	2.55	T.	0.12	0.26	0.72	T.	1.54	9.14
Lester	4.81	3.25	5.71	3.30	3.03	2.01	0.09	0.19	1.01	2.00	1.14	10.61	37.15
Lewis	3.99	2.39	5.39	3.48	3.40	2.54	0.05	0.13		1.73			
Lind	0.45	0.12	0.17	0.24	0.43	1.35	T.	T.	0.02	0.23	0.09	1.15	4.25
Longmire	7.77	4.31	3.54	3.60	4.92	4.87	0.23	0.31	1.28	4.18	2.39	9.26	46.66
Longview	3.85	1.36	4.95	3.62	1.24	2.08	0.06	0.88	0.52	1.00	0.65	8.09	28.30
Loomis				1.09	0.22	2.64	0.00	0.12	0.05	0.25			
Lost Creek (near)	0.34	0.12	0.92	1.96	0.31	2.78	0.06	T.	0.05	0.38	0.00	1.65	8.57
Lowden	1.70	0.35	0.36	0.24	0.42	1.54	0.00	0.10	0.22	0.46	0.06	1.90	7.35
Mansfield	0.44	0.06	0.85	0.13	0.93	1.80	0.04	T.	0.12	0.25	0.00	0.98	5.60
Mansfield (near)	0.55	0.13	0.89	0.11	1.28	1.27	0.00	0.00	0.12	0.15	T.	0.82	5.32
Marcus			1.00	2.09	0.30	2.62	T.	0.00	T.	T.	0.00		
Marietta	1.42	1.43	3.19	1.39	1.69	0.74	0.39	0.54	0.64	1.99	2.33	4.80	20.55
Mayfield	4.81	2.77	5.87	5.72	2.80	3.75		0.49	1.16	2.22	2.25	11.73	
Mill Creek	5.48	1.56	2.45	2.54	1.78	4.15	T.	0.21	0.48	1.85	0.96	5.54	27.00
Monroe		2.45	5.10	3.45	3.90	2.93	0.51	1.75	1.08	3.49	1.43	6.12	
Mottinger	1.25	0.26	0.07	0.18	0.34	0.85	0.00	0.00	0.04	0.38	0.08	2.31	5.76
Mount Baker Lodge	4.77	3.68	17.74	8.92	4.18	2.92	2.27	2.45	1.55	5.90	1.93	17.82	74.13
Moxee (near)	0.88	0.08	0.44	0.10	0.49	0.60	0.00	T.	0.10	0.40	T.	0.93	4.02
Naches Heights	1.56	T.	0.38	0.07	0.25	0.36	0.00	0.00	0.03	0.02	T.	1.37	4.04
Nasselle								1.01	0.89	2.88	2.16	16.38	
Neah Bay										6.40	5.03	12.08	
Nespelem (near)	0.24	0.24	1.17	0.76	0.29	2.06	T.	T.	0.12	0.39	T.	0.97	6.24
Newport (a)	1.65	0.23	0.60	1.49	0.91	1.82	0.00	0.20	0.12	0.65	0.09	3.66	11.42
Newport (b)				2.31	0.75				0.14				
Nooksack Hatchery						2.53	0.57	1.07	0.54	5.70	2.27	8.82	
North Head	3.44	1.25	5.57	4.66	1.20	2.60	0.64	0.80	0.45	1.38	1.56	7.08	30.63
Northport	0.71	0.32	1.52	1.75	0.43	2.02	0.00	0.19	0.10	0.53	0.00	2.03	9.60
Oakville	3.16	1.88	5.77	4.96	1.69			0.57	0.37	1.73	1.03	9.96	
Odessa	0.62	0.06	0.17	0.34	0.51	0.95	0.00	T.	0.09	0.17	0.00	1.18	4.09
Ohanepecosh	7.52	3.81	7.01		3.29	4.13	0.44			2.33	1.20	11.66	
Okanogan	0.29	0.01	0.26	0.60	0.46	1.50	0.04	0.05	0.12	0.28	T.	1.06	3.67
Olga	1.11	0.85	2.57	0.95	0.68	0.51	0.13	0.51	0.31	1.38	2.01	4.08	15.09
Olympia	2.46	0.82	4.64	4.77	1.17	1.90	0.28	0.82	0.06	1.04	0.95	11.38	30.29
Omak	0.33	0.00	0.37	0.63	0.75	1.63	T.	0.11	0.03	0.19	0.00	0.75	4.79
Oroville	0.12	0.05	0.30	0.74	0.27	2.43	0.00	0.39	0.03	0.25	0.01	0.84	5.43
Palmer (near)	5.97	5.14	14.47	7.85	5.07	5.93	0.69	1.33	1.81	3.28	2.85	15.73	70.12
Paradise Inn	12.06	6.57	7.89	7.03	1.83	4.73	T.	0.50	1.40	4.83	2.82	14.50	64.16
Peola	0.94	0.96	1.40	1.56	2.17	3.60	0.02	0.06	0.69	0.45	0.11	2.76	14.72
Pilchuck Creek	4.51	3.58	7.56	6.81	2.90			1.78	0.95	3.33			
Pomeroy									0.16	0.61	0.12	3.54	
Port Angeles	1.38	0.91	1.54	2.20	0.62	0.85	0.18	0.27	0.18	0.93	1.30	4.53	14.89
Port Townsend	2.25	1.89	1.62	1.25	0.20	0.82	0.05	0.92	0.90	0.40	1.05	2.03	13.38
Prosser	1.16	0.15	0.21	0.11	0.38	0.35	0.00	0.01	0.29	0.23	0.02	1.65	4.56
Prosser (near)	1.10	0.10	0.11		0.21	0.66	0.00	0.01	0.04	0.17	0.03	1.74	
Pullman	2.87	0.46	2.41	1.27	0.64	2.46	0.00	0.19	0.17	0.97	0.02	4.54	16.00
Puyallup (near)	2.08	1.01	4.08	2.52	3.04	2.03	0.07	0.31	0.14	0.85	0.89	8.72	25.74
Quilcene	2.09	0.47	2.10	3.35	2.04	2.98	0.23	0.86	0.81	0.46	0.35	6.01	21.75
Quinault	4.75	4.55	13.40	11.03	5.00	6.59	2.44	2.29	1.77	0.67	3.20	17.52	70.21
Quincy	0.40	0.00	0.69	0.17	0.52	0.84	0.00	0.00	0.14	T.	0.00	0.73	3.49
Randle	7.95	3.80	6.46	3.87	2.93	3.26			1.58	1.95	1.98	12.06	
Republic	0.67	0.08	1.05	1.76	0.31	1.61	0.03	0.23	T.	0.19	T.	1.95	7.88
Rimrock	2.18	0.71	1.22	1.20	1.24	1.55	T.	T.	0.16	0.29	0.20	5.89	14.64
Ritzville	0.97	0.00	0.38	0.53	0.36	1.01	T.	T.	0.10	0.01	0.03	1.58	4.97
Rock Island (near)	0.54	T.	0.93	0.07	0.68	0.64	T.	T.	0.13	T.	0.00	1.29	4.28
Rosalia	1.32	0.37	0.92	1.33	0.59	1.22	T.	0.12	0.25	0.40	T.	2.89	9.41
Ruby Creek			5.92	3.11									
Ruff	0.57	0.09	0.21	0.33	0.51	1.39	T.	T.	0.14	0.24	0.01	0.80	4.29
St. Helens	4.11	3.35	7.26	5.71	2.61	4.01		1.06	1.04	1.66		10.19	
Satsop	2.83	1.84	6.10	5.38	1.59	2.50	0.98	0.53	0.20	2.37	1.44	9.08	34.84
Scenic		5.76	10.92	4.84	5.56	4.27	0.13	1.24	1.15	4.86	2.74	13.54	
Seattle	2.54	1.10	2.73	1.59	1.48	1.75	0.13	1.13	0.69	1.00	1.23	5.26	20.03
Seattle, Boeing Field	2.42	1.54	3.51	2.73	1.45	1.99	0.13	1.16	0.17	1.42	1.01	6.27	23.80
Seattle, Naval Air Station								1.83	0.29	1.75	1.16	5.15	
Seattle, State University	2.42	1.43	3.59	1.43	1.48	2.04	0.05	1.78	0.30	1.41	1.26	5.99	23.18
Sedro Woolley	2.67	2.36	4.61	3.22	2.41	1.55	0.13	0.94	0.57	3.11	1.38	5.63	28.18
Sequim	1.81	1.12	1.11	2.10	0.74	0.46	0.25	0.62	0.27	0.42	1.42	3.17	13.49
Silverton (near)		5.91											
Sixprong (near)	1.17	0.18	0.04	0.11	0.06	0.24	0.00	T.	0.06	0.05	0.13	2.10	4.16
Skagit Powerplant	5.10	4.64	7.59	4.38	3.55	3.52	0.53	0.89	1.27	5.13	1.51	10.29	48.40
Snoqualmie Falls	4.73	2.89	6.66	3.67	3.70	4.21	0.20	0.83	1.04	2.74	2.14	10.55	43.66
Snoqualmie Pass				6.43	3.40	4.17	0.48	0.37	1.31	4.26	1.93		
South Bend (near)	4.02	1.99	8.33	6.82	2.04	4.01	1.32	0.62	1.00	2.17	1.59	10.28	44.19
Spokane	1.18	0.09	0.91	1.14	0.72	0.82	T.	0.06	0.30	0.49	T.	1.83	7.54
Sprague	1.14	0.20	0.77	0.83	0.36	1.30	T.	T.	0.16	0.25	T.	2.14	7.15
Spruce	5.68	5.48	13.71	9.33	4.90	7.59	1.97	1.61	1.51	6.40	3.80	17.64	79.62
Startup (near)	4.74	3.14	8.10	5.13	4.99	5.57	0.59	2.22	1.85	5.18	2.11	9.62	53.24
Stehekin (near)	2.39	0.74	2.40	2.27	0.95	1.84	0.01	0.17	0.06	0.27	0.59	7.87	19.56

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Washington—Continued													
Stockdill's Ranch	0.67	0.20	0.51	0.82	1.59	1.16	0.00	0.08	0.12	0.34	0.24	2.45	6.38
Sullivan Lake (near)	1.23	0.52	2.15	2.66	1.29	3.15	T.	0.65	0.19	1.23	0.18	3.93	17.18
Sunnyside	0.95	0.11	0.11	0.18	0.08	0.74	0.00	T.	0.07	T.	0.04	1.27	3.55
Tacoma	2.58	0.74	4.00	3.22	1.58	1.65	0.20	0.37	0.08	0.82	1.00	6.39	22.63
Tatoosh Island	3.28	1.64	6.40	5.54	2.77	4.43	2.37	1.02	0.07	7.04	4.96	10.04	49.56
Tieton Canyon	2.00	0.20	1.35	0.74	0.56	0.95	0.00	T.	0.27	0.06	0.06		
Timentwa		0.34	0.67	1.16	0.43	1.25	T.	T.	0.31	0.19		1.37	
Toppenish	0.85	0.00		0.00	0.17	0.33	0.00	T.	0.17	0.04	0.00	1.87	
Touchet Ridge	5.55	1.64	2.78	3.32	2.27	3.43	0.01	0.35	0.55	1.37	0.79	7.14	29.20
Trinidad (near)	0.52	0.00	0.47	0.12	0.50	0.80	0.00	0.00	0.08	T.	0.00	0.78	3.27
Vail							0.08	0.40	0.62	0.85	0.76	8.16	
Vancouver	2.68	0.93	2.50	3.61	1.28	2.40	0.07	0.25	0.51	0.87	0.73	8.05	23.88
Vashon Island	2.26	1.98	4.62	3.11	2.42	2.23	0.14						
Wahluke	0.71	0.00	T.	T.	0.42	1.10	T.	0.02	0.09	0.02	0.00	0.01	2.97
Walla Walla (a)	2.37	0.39	0.56	0.57	0.80	1.57	T.	0.03	0.47	1.12	0.11	3.20	11.19
Walla Walla (b)			0.65	0.74	0.61	1.84	T.	0.06	0.46	1.28			
Wapato	0.93	0.02	0.28	0.02	0.07	0.47	0.00	0.00	0.09	0.06	0.07	1.18	3.19
Waterville	0.86	0.07	0.49	0.20	0.75	0.79	T.	T.	0.25	0.07	0.01	1.20	4.89
Wellpinit	0.76	0.03	1.25	1.48	0.20	1.36							
Wenatchee	1.23	0.06	0.85	0.07	0.57	0.52	T.	0.00	0.19	T.	T.	1.03	4.43
Wenatchee (near)	1.72	0.15	1.89	0.28	1.46	0.98	T.	T.	0.53	T.	0.02	1.91	8.94
White River Entrance		2.09				2.48	0.00	0.14		1.25	1.06		
White Salmon (near)	5.59	0.31	0.87	1.37	0.61	0.43	0.00	T.	0.04	0.25	T.	9.41	18.88
White Swan	1.88	0.05	0.41	0.05	0.11	0.02	0.00	T.	0.09	T.	0.10	1.66	4.37
Wilbur	0.53	0.00	0.58	1.05	0.18	1.26	0.00	0.00	0.32	0.25	T.	1.63	5.80
Wilson Creek								T.	0.22	0.09	T.	0.68	
Wind River	7.49	2.23	6.87	8.97	2.01	3.66	T.	0.05	0.32	1.75	0.56	20.24	54.15
Winthrop	0.76	0.07	0.27	0.56	0.68	1.52	0.00	0.24	0.02	0.33	0.11	2.91	6.47
Wishkah Headworks	5.88		12.27	8.85	4.02	6.88	2.57	1.64	1.25	6.67	3.64	14.08	
Wynoochee Oxbow	6.62	5.00	14.37	11.97	4.99	7.68	1.92	1.33	1.02	7.00	3.86	21.57	87.25
Yacolt	5.96			8.06	1.50	3.71	0.06	0.49	1.01	1.54	1.07	13.61	
Yakima	1.50	0.01	0.45	0.09	0.18	0.55	T.	T.	0.17	0.05	T.	1.13	4.13
West Virginia													
Aberdeen	2.35	2.95	3.97	4.80	4.81	2.57	4.52	2.25	3.84	6.46	4.83	2.25	46.60
Alma (near)	2.46	2.58	2.69	4.12	4.92	4.04	3.19	4.38	4.90	4.56	3.97	2.13	43.94
Alpena												3.81	
Arbovale	3.28	2.16	3.27	3.35	6.79	3.80	2.30	2.84	0.73	6.05	4.38	1.96	40.91
Bancroft	3.02	4.02	4.25	3.38	7.35	2.04	7.22	3.57	2.12	4.63	4.42	2.44	48.46
Bayard	7.48	5.24	6.19	8.68	7.99	8.92	4.57	4.04	3.99	9.41	7.81	4.49	78.81
Benson												2.23	
Bens Run	3.12	2.83	2.19	3.85	5.00	3.57	3.63	4.97	3.48	5.71	5.10	3.39	46.94
Bluefield	2.38	4.65	3.16	3.57	3.76	5.80	3.53	3.42	1.57	7.05	4.31	1.91	45.11
Brandywine	1.60	2.80	2.45	4.05	3.80	2.80	1.25	1.35	1.40	5.75	3.90	1.05	32.20
Brownsville	2.31	3.15	3.93	3.29	4.82	1.69	3.63	4.35	4.08	5.79	6.39	2.02	45.46
Bruceton Mills	4.23			5.27	4.50	3.83	2.90	4.72	2.17	10.47	4.42	5.59	
Buckhannon	2.53	3.94	3.41	5.02	5.44	3.24	3.74	2.14	4.83	5.91	4.74	3.02	47.96
Cairo	2.82	2.57	3.02	4.12	5.84	4.01	4.25						
Camden-on-Gauley	4.01	3.45	6.65	3.37	11.14	2.49	10.61	5.18	3.79	6.07	4.83		
Charleston	2.90	2.92	4.38	3.46	6.36	2.06	3.56	1.32	2.36	5.34	5.14	1.84	41.84
Clarksburg	2.36	3.07	2.59	4.58	6.20	4.35	3.18	2.59	4.21	4.58	4.86	2.74	45.13
Clay	2.35	3.26	4.44	3.49	6.05	2.50	6.81	3.85	1.78	6.37	4.10	2.09	47.17
Cortland		2.81	2.72	5.06	7.01	2.01	3.23	1.91	3.29				
Crawford	2.31	2.92	4.15	4.13	6.12	2.65	2.89	4.40	4.70	6.00	4.52	2.44	47.23
Creston	2.87	3.28	3.43	3.70	5.81	1.92	2.51	3.35	2.72	5.76	4.50	2.61	42.45
Dam No. 6, Great Kanawha River	2.53	2.69	3.81	2.99	5.95	2.79	4.39	1.96	2.04	4.68	4.61	2.48	40.92
Dam No. 10, Monongahela River	2.66	1.77	3.25	5.52	7.09	3.72	2.22	4.58	3.97	5.75	4.13	2.51	47.17
Dam No. 12, Ohio River	3.98	2.86	2.42	4.99	5.59	4.93	3.93	2.86	2.10	5.14	4.11	2.29	45.17
Dam No. 13, Ohio River	3.21	2.54	2.13	4.07	5.50	4.20	2.11	2.09	3.90	4.99	3.64	2.79	41.11
Dam No. 15, Monongahela River	2.77	2.42	2.59	4.59	5.42	2.96	2.39	3.53	2.59	6.12	3.68	1.88	39.94
Dam No. 19, Ohio River	2.60	3.05	3.09	3.30	5.93	3.77	3.27	4.31	3.88	5.38	4.28	1.85	44.68
Dam No. 20, Ohio River	2.76	2.95	3.36	3.76	5.27	3.33	3.06	3.04	2.29	5.51	4.94	2.21	42.48
Dam No. 25, Ohio River	3.10	2.65	3.89	3.52	5.62	1.56	5.02	5.04	2.45	4.50	4.35	2.30	44.00
Dam No. 26, Ohio River	2.62	2.11	3.46	3.53	5.39	2.11	5.24	2.84	2.27	4.12	4.23	1.96	39.67
Davis	4.98	3.14	4.05	7.32	6.97	3.80	4.36	2.41	5.62	9.20	5.39	3.11	60.25
Elizabeth	3.20	3.25	2.65	2.84	4.81	2.20	1.12	4.08	3.24	5.50	4.71	2.46	46.06
Elkins	3.21	2.58	3.42	4.49	8.09	4.62	5.26	1.81	3.28	7.28	4.55	2.41	51.00
Fairmont	2.78	2.85	1.91	4.71	5.73	2.88	2.38	4.67	2.86	5.21	3.59	2.64	42.21
Gary	2.49	4.07	5.70	3.47	5.83	7.43	4.95	5.02	1.26	3.92	4.05	2.09	50.28
Glenville	2.99	3.94	4.35	5.28	5.33	2.93	3.41	2.78	2.90	5.95	5.18	2.77	47.81
Grafton	1.22			4.35	5.54	1.98	1.69	4.35	3.30	6.17	2.39	2.45	
Harpers Ferry	2.21	3.09	2.74	6.09	4.16	2.88	3.65	1.25	1.32	10.93	2.60	2.20	43.12
Hinton	2.06	3.81	4.49	2.57	4.37	5.78	2.94	2.40	0.91	6.85	4.29	1.99	43.35
Horner	3.40	4.02	3.75	5.05	6.48	1.90	4.43	4.05	4.40	6.05	8.10	2.47	54.10
Horton	4.12	2.86	2.66	5.05	7.53	3.75	3.63	2.03	3.78	9.93	3.98	2.54	51.57
Huntington	3.41	3.02	4.37	2.81	6.32	4.78	5.86	2.90	2.74	5.26	3.60	2.12	47.19
Janelew	1.35	2.77	3.05	4.33	5.55	1.74	3.32	3.42	3.96	4.93	4.39	1.56	40.46
Kanawha Falls	2.54	2.48	3.67	4.29	5.19	2.80	7.11	2.37	2.16	6.88	4.83	1.71	46.23
Kayford	3.46	4.24	4.74	4.12	7.75	5.81	7.24	3.41	2.74	10.23	5.19	2.02	60.91
Kermit	3.59	3.95	4.83	2.77	7.14	3.66	4.02	2.69	2.23	5.55	4.87	2.36	47.36
Lewisburg	2.77	3.55	3.91	4.03	4.41	3.07	2.71	3.66	0.70	6.54	4.71	2.27	42.48
Logan	3.43	3.21	5.08	2.09	6.03	4.25	5.81	2.63	1.49	5.14	4.74	2.23	46.13
Lost Creek	2.42	3.04	2.91	5.24	4.59	4.30	4.89	3.56	2.93	4.80	4.78	1.90	45.26
Mannington	3.67	2.92	2.81	5.48	6.98	3.37	1.78	3.32	2.95	5.01	4.80	2.71	45.23
Marlinton	4.38	4.26	4.80	4.16	8.28	4.95	4.42	4.26	1.86	6.37	5.96	3.85	57.55
Martinsburg	2.47	2.59	3.61	5.77	2.68	3.38	1.10	2.07	1.93	9.18	3.68	2.51	40.99
Moorefield	1.61	2.70	2.71	4.93	4.00	2.34	2.21	1.57	2.01	4.91	2.60	0.71	32.80
Morgantown	2.83	2.55	1.27	5.03	6.59	3.43	1.51	4.30	4.12	5.10	3.16	2.89	42.10
New Cumberland	2.90	2.92	2.89	5.25	7.06	2.29	3.90	2.00	3.09	4.99	4.38	3.06	44.35
New Martinsville	3.82	2.50	2.20	4.75	5.20	2.80	3.55	4.60	2.90	5.72	4.68	3.15	45.84
Organ Cave	1.53	3.61											
Parkersburg	2.57	2.69	2.39	2.84	5.02	3.31	4.35	3.87	4.12	4.34	4.18	2.48	43.14
Parsons	3.47	3.46	3.59	6.34	5.65	3.27	5.06	3.69	3.03		5.74	4.20	

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
West Virginia—Continued													
Parsons (No. 2)	2.59	2.42	3.03	6.64	6.00	3.50	5.37	3.62	3.74	5.89	5.16	1.81	49.77
Perry	1.05	2.11	2.68	5.75	3.44	1.40	4.34	3.67	2.49	7.24			
Philippi					6.73								
Philippi (No. 2)	2.47	3.22	3.42	6.04	6.50	4.00	5.58	3.41	3.11	5.93	4.82	2.79	51.29
Pickens	6.67	4.24	4.84	6.34	7.67	6.64	7.52	5.65	3.82	9.16	6.73	4.64	73.92
Piedmont	2.34	2.45	2.13	7.40	4.00	3.31	1.22	1.79	1.63	5.22	2.55	1.14	35.18
Point Pleasant	2.95	3.00	4.23	2.57	7.36	1.98	5.70	4.14	3.59	4.87	4.87	2.69	47.95
Powellton		1.87											
Ravenswood	3.13	2.47	3.55	3.04	5.83	2.15	4.09	3.66	2.87	4.65	4.67	2.35	42.46
Roanoke	2.44	3.21	3.77	4.04	5.09	2.44	3.82	4.76	4.36	5.43	4.94	2.53	46.53
Robertsburg	2.63	3.14	3.41	2.36	5.62	2.72	6.22	3.77	2.87	4.29	4.14	1.79	42.96
Romney	1.27	2.09	2.63	6.72	2.25	2.88	1.64	1.14	1.92	6.53	1.74	2.27	33.08
Rowlesburg	3.38	2.34	3.64	6.96	7.57	2.58	3.27	4.03	3.16	6.84	5.08	2.70	51.55
Ryan	2.85	3.49	3.92	5.71	5.38	3.94	3.59	3.11	2.64	5.68	4.24	1.98	46.53
Saint Marys	3.31	2.87	2.59	3.67	4.98	3.78	3.17	3.34	3.88	5.59	4.51	3.62	45.31
Sharples	3.01	2.56	4.16	2.53	5.10	3.65	5.67	1.40	2.58	5.04	4.65	2.15	42.50
Spencer	2.80	3.89	3.69	3.15	6.04	3.14	5.07	5.60	2.71	5.50	4.42	3.36	49.37
Stony River Dam	3.21	3.17	3.36	6.78	8.76	2.32	1.59	1.22	1.89	9.55	4.44	3.49	51.78
Sutton	3.79	4.09	5.00	5.10	7.15	3.00	6.17	5.75	6.25	6.65	4.95	4.33	62.23
Summersville		1.43						2.76					
Terra Alta	3.98	1.66	2.81	6.27	6.27	2.87	4.38	5.21	4.47	8.21	4.43	2.64	53.20
Union	1.70	4.80	3.34	3.50	4.53	5.01	2.17	3.76	1.15	7.70	6.62	2.45	46.73
Upper Tract		2.92	1.62	3.20	3.80	3.40	0.80	0.77	0.71	6.36	2.34	0.59	
Valley Chapel	2.41	2.52	2.79	4.56	5.05	1.80	3.49	2.92	3.76	5.80	4.43	1.93	41.46
Vandalia	2.27	3.29	3.31	3.90	5.37	2.34	4.23	3.56					
Wardensville		2.72		1.00	0.16	1.50	1.01	0.14	0.57	9.05	3.20	1.38	
Wayne	3.41	3.11	4.92	4.25	7.47	4.30	6.16	2.55	3.27	6.41	4.73	2.17	52.75
Wellsburg	3.59	1.47	3.85	4.50	6.19	3.89	5.35	3.00	2.71	5.52	4.03	4.30	48.40
West Milford	2.87	2.81	2.80	4.98	5.02	3.58	3.17	3.60	3.26	5.56	5.14	2.52	45.11
Weston	2.79	3.03	3.46	4.79	4.31	2.01	3.60	3.07	3.15	6.02	4.84	2.27	43.34
Wheeling	3.88	2.60	2.20	4.48	5.81	4.48	4.47	3.39	2.49	5.64	4.35	2.78	46.57
White Sulphur Springs	2.00	1.97	3.70	3.85	3.70	3.20	2.50	2.60	0.80	5.20	3.90	1.33	34.75
Williamson	4.16	3.08	6.34	6.13	9.45	7.89	9.46	5.44	2.31	5.12	5.91	2.83	68.12
Woodlands	4.29	2.48	2.29	5.40	4.62	4.16	3.22	4.41	2.79	6.49	4.66	3.12	46.93
Wisconsin													
Amery	0.90	0.67	0.82	0.87	1.37	2.92	1.85	2.58	3.13	1.83	0.69	0.11	17.74
Antigo	1.83	1.09	1.50	3.89	3.47	5.68	3.44	2.37	2.55	1.50	1.41	0.52	29.25
Appleton	4.35	1.44	1.88	6.64	2.67	4.49	2.76	1.60	3.08	1.74	0.98	1.42	33.05
Ashland	2.39	0.96	1.36	0.65	2.26	3.43	2.61	0.97	5.55	1.89	1.46	2.35	25.78
Beloit	1.86	0.66	1.93	4.56	1.71	4.59	4.11	1.61	3.98	2.88	1.18	0.75	29.82
Berlin	2.55	1.27	1.36	6.11	1.87	4.37	4.05	1.83	3.43	1.54	0.96	0.40	29.74
Big St. Germain Dam	1.77	1.45	1.27	1.75	1.75	5.20	5.25	2.96	4.25	2.73	0.61	1.30	30.29
Blair	4.55	1.20	1.15	5.28	3.41	3.20	3.32	2.20	3.30	1.83	0.60	0.43	30.72
Breakwater	2.57	1.02	2.71	3.86	4.08	2.79	4.91	1.84	4.12	2.22	0.94	1.69	32.75
Brillion	3.56	1.54	3.26	3.99	2.70	4.13	2.61	2.02	2.97	2.44	0.51	0.95	30.68
Brodhead	3.02	1.06	2.27	3.58	2.75	4.12	1.95	2.50	4.38	3.85	1.21	0.40	31.09
Brule Island	2.73	1.20	1.75	5.58	6.33	3.09	3.88	1.79	3.31	2.24	1.02	2.50	35.42
Burnett	1.98	1.29	1.81	3.81	1.57	4.22	4.22	2.35	4.16	1.96	0.71	0.27	28.35
Chippewa Reservoir	1.38	0.80	1.00	1.50	2.25	5.05	1.15	1.15	3.25	1.45	1.25	0.45	20.68
Coddington	0.82	0.80	1.35	3.48	3.31	3.17	5.00	1.61	2.13	1.80	0.56	0.45	24.48
Cornucopia	2.27	1.10	1.98	1.68	2.44	2.88	2.37	1.00	4.62	2.04	1.58	1.89	25.87
Cuba	3.69	1.30	2.14	4.64	1.41	3.15	2.54	1.45	1.87	1.83	0.86	0.28	25.16
Danbury	1.89	0.74	1.45	0.34	1.01	2.49	2.32	3.37	5.69	2.71	0.61	1.08	23.70
Darlington	3.16	0.85	1.98	4.66	1.66	3.60	3.44	1.26	2.51	1.93	0.74	0.27	26.06
Deerskin Dam	2.21	1.14	1.30	2.43	4.91	3.75	3.67	2.22	4.53	1.79	1.95	1.33	31.23
Downing	2.70	1.89	1.60	1.40	2.95		2.00	1.30	6.01	1.62	1.40		
Eau Claire	2.97	1.98	1.09	5.71	2.26	1.80	2.61	3.11	4.70	1.72	0.77	1.17	29.89
Flambeau Reservoir	1.83	1.07	1.59	1.61	2.13	3.87	3.41	2.54	4.07	1.91	1.01	0.67	25.71
Florence	3.13	1.24	1.99	6.04	4.71	3.05	3.40	2.88	3.92	2.56	1.01	2.40	36.33
Fond du Lac	2.93	1.24	1.63	5.10	2.57	3.46	2.42	3.20	3.73	2.09	0.47	0.92	29.76
Grand River Locks	1.68	0.83	1.35	2.82	1.96	4.62	5.34	2.36	3.50	1.56	0.60	0.26	26.88
Grantsburg	2.01	0.72	0.57	0.46	1.01	2.82	2.00	1.51	7.23	1.95	1.06	0.64	21.98
Green Bay	2.54	1.58	2.11	6.47	1.70	3.75	2.04	1.70	2.38	1.86	0.53	0.91	27.57
Hancock	1.62	0.70	1.33	3.98	1.47	3.96	1.99	2.17	2.41	1.49	0.53	0.38	22.03
Hatfield	1.93	0.63	0.97	3.14	2.52	2.48	2.39	2.61	3.59	1.23	0.58	0.29	22.36
High Falls	2.93	1.78	2.07	2.46	2.24	3.19	3.43	1.18	2.11	2.02	0.77	1.70	25.86
Hillsboro	2.03	0.70	1.95	4.04	1.60	5.17	2.62	1.31	3.66	2.33	0.45	0.32	26.18
Holcombe									5.51	1.10	0.55	0.38	
Iron River	2.26	0.85	1.52	1.73	1.57	2.49	2.75	1.58	5.81	1.93	1.27	1.16	24.72
Kewaunee	2.08	1.66	1.16	2.71	2.20	4.54	2.70	2.19	2.56	1.62	0.49	0.37	24.28
Kilbourn	3.45	1.01	1.39	4.24	1.05	4.32	3.22	1.45	4.07	2.02	0.91	0.46	27.59
La Crosse	3.42	1.18	1.85	3.56	3.39	3.63	2.59	1.79	4.33	1.73	0.64	0.42	28.53
Ladysmith	2.44	1.37	1.07	2.13	1.46	5.75	4.05	1.32	2.90	1.21	0.78	0.27	24.73
Lake Mills	2.61	1.00	1.32	4.99	2.17	3.76	4.17	0.54	3.91	3.32	0.79	0.30	28.88
Lancaster	2.33		1.38	6.98	2.15	3.54	3.73	0.98	4.04	1.63	0.51	0.31	
Laona	2.50	0.96	1.22	3.60	3.70	2.28	1.77	1.66	2.41	2.55	0.63	0.65	23.93
Long Lake	2.35	0.88		2.55	3.92	3.26	6.20	1.98	3.10	1.86	1.53	1.20	
Madison	3.31	1.48	2.30	4.33	1.31	4.35	8.02	0.87	3.17	1.82	0.58	0.40	31.94
Manitowoc	3.48	1.73	2.17	7.74	1.98	3.53	1.82	1.54	2.50	3.23	0.45	0.77	30.94
Marinette	3.97	1.36	1.08	3.69	1.67	3.34	3.07	1.41	2.97	2.52	0.49	0.78	26.35
Marshfield	1.81	1.29	1.15	3.13	1.48	3.75	1.71	2.43	4.07	2.68	0.70	0.64	24.84
Mather	3.05	1.05	1.29	4.60	3.05	5.23	4.02	3.19	3.01	2.20	0.71	0.70	32.10
Mauston	1.98	1.16	1.50	3.93	2.84	4.92	2.57	3.41	3.39	1.84	0.41	0.25	28.20
Meadow Valley	3.03	1.17	1.87	3.62	2.54	5.10	2.45	2.55	2.75	2.02	0.25	0.34	27.69
Medford	2.86	1.54	1.05	5.89	3.87	3.02	4.80	1.81	3.81	1.67	1.50	0.40	32.22
Mellen	2.40		1.03	0.80	1.64	3.60	3.09	0.59	5.17	2.48	1.54	2.41	
Menasha	2.88	1.50	1.74	6.23	2.76	3.44	1.19	1.42	2.56	1.31	0.71	0.64	26.38
Merrill	2.09	1.40	1.95	4.41	3.90	4.89	2.21	1.96	3.75	2.03	1.60	0.82	31.01
Milwaukee	3.00	0.96	3.32	5.26	2.01	3.42	1.83	0.35	3.15	2.46	0.78	1.08	27.62
Milwaukee County Airport	1.19	1.23	1.90	6.92	3.35	3.51	2.06	1.36	3.74	2.39	0.90	1.13	29.68
Minocqua	1.55	0.90	1.32	3.14	2.71	3.71	4.39	2.10	3.45	1.81	0.82	0.75	26.65
Mondovi	1.81	1.20	0.80	4.38	2.04	2.61	3.73	1.16	5.12	1.43	0.16	0.53	24.97
Neillsville	2.87	1.59	1.93	3.05	1.96	3.58	1.21	3.41	3.44	1.76	0.60	0.32	25.72

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
***Wisconsin*—Continued**													
New London	3.70	1.57	1.97	6.35	2.21	5.30	4.48	2.67	1.81	1.99	0.76	0.55	33.36
Oconto	2.93	1.49	1.46	3.98	1.91	5.00	4.39	1.47	2.19	1.85	1.52	1.16	29.35
Oshkosh	2.87	1.37	1.98	6.35	2.06	4.48	3.39	2.42	2.89	2.04	0.73	0.36	30.94
Park Falls	2.70	1.97	1.30	2.59	2.54	3.26	1.80	2.35	3.40	1.30	1.58	0.46	25.25
Pine River	3.49	1.51	1.90	5.29	1.81	3.68	5.58	2.45	2.56	2.27	0.60	0.60	31.74
Plum Island	2.81	2.16	3.56	3.22	1.50	3.07	------	3.14	0.72	2.68	0.91	0.71	------
Plymouth	2.74	1.12	1.54	5.95	1.86	1.74	2.30	------	2.30	2.23	0.55	0.66	------
Portage	3.16	1.30	1.24	4.63	1.12	3.77	5.25	1.17	3.28	1.76	0.99	0.30	27.97
Prairie du Chien	2.49	1.28	1.68	4.22	2.26	2.58	2.86	2.26	5.76	1.80	1.38	0.22	28.79
Prairie du Sac	3.30	0.29	0.90	3.30	0.84	3.92	2.63	0.50	3.36	1.56	0.40	0.13	21.13
Prentice	2.51	1.87	1.73	3.61	1.96	7.28	3.16	1.62	3.44	1.15	1.53	0.53	30.39
Racine	3.73	1.05	2.13	5.59	3.05	4.95	0.75	1.39	2.91	3.40	1.26	1.56	31.77
Rest Lake	------	1.08	------	------	2.67	4.75	4.73	0.86	------	------	------	------	------
Rhinelander	1.19	0.90	0.85	3.05	3.80	7.93	8.83	2.71	3.04	0.84	1.33	0.37	34.84
Richland Center	3.29	1.15	1.99	4.60	1.40	3.01	3.48	0.59	6.91	2.07	0.57	0.29	29.35
River Falls	1.75	0.86	1.20	3.67	1.78	5.40	3.36	1.15	4.82	1.93	0.46	0.45	26.83
Shawano	4.06	2.24	1.65	4.15	2.13	3.77	3.72	2.88	1.93	1.92	1.26	0.65	30.37
Sheboygan	3.75	1.77	1.69	7.53	2.28	3.02	1.80	0.42	2.82	2.63	0.82	1.24	29.77
Solon Springs	1.28	0.98	0.71	1.95	1.75	4.20	3.05	1.95	------	2.70	0.92	0.68	------
Spooner	1.55	0.65	1.70	1.03	1.82	2.16	2.22	2.53	3.62	2.23	0.92	0.31	20.74
Stanley	2.20	1.35	1.46	4.86	3.05	3.17	1.87	2.24	4.85	1.83	0.81	0.60	28.29
Stevens Point	2.54	0.78	2.87	5.48	2.92	4.17	2.14	1.47	1.74	1.89	0.85	0.38	27.23
Sturgeon Bay	3.35	0.96	------	3.31	------	2.89	4.25	2.28	2.39	1.82	0.34	1.11	------
Superior	1.22	0.40	1.59	1.63	2.84	2.70	2.75	0.98	5.27	1.42	1.33	0.95	23.08
Tomahawk	------	------	1.81	4.34	3.44	6.42	6.25	1.53	3.05	1.44	1.46	------	------
Viroqua	2.72	0.81	1.34	5.46	1.19	3.84	3.77	1.05	2.63	1.42	1.01	0.25	25.49
Watertown	1.89	1.19	1.53	4.73	1.77	3.78	6.61	0.97	5.31	2.17	0.75	0.41	31.11
Waukesha	3.93	1.18	2.04	6.25	2.46	2.96	5.85	1.68	2.95	2.11	0.58	1.01	33.00
Waupaca	2.46	0.94	1.87	4.77	2.59	3.00	3.60	2.21	2.34	2.02	0.60	0.81	27.21
Wausau	2.75	1.30	2.40	3.64	3.04	3.71	2.94	3.66	2.24	2.04	0.63	0.45	28.80
West Bend	3.29	1.50	1.71	6.04	2.65	2.10	4.12	1.57	2.79	3.37	0.63	0.54	30.31
Weyerhauser	1.41	0.91	1.43	2.58	1.79	5.78	3.86	1.40	3.90	2.26	1.06	0.20	26.58
Williams Bay	3.71	0.62	2.58	3.94	2.83	5.27	7.23	1.68	3.67	2.90	1.03	0.88	36.24
Wisconsin Rapids	3.56	0.88	1.61	3.53	3.96	4.15	2.79	2.68	2.75	1.57	0.54	0.32	28.34
Wyoming													
Afton (near)	3.52	1.14	2.05	0.77	0.18	2.00	0.33	2.05	2.27	1.29	0.46	0.54	16.60
Alta	1.78	1.33	1.65	0.96	0.94	2.80	0.84	0.79	3.12	0.90	0.21	1.02	16.34
Archer	0.02	0.26	0.50	2.97	1.32	0.76	2.43	2.16	1.64	0.73	0.47	0.10	13.36
Barnum	0.35	0.31	1.04	2.22	2.53	0.64	1.38	0.13	1.59	0.76	1.49	0.00	12.44
Basin	0.47	1.65	0.75	1.02	0.65	0.19	T.	0.26	1.57	1.28	1.50	0.80	10.14
Bedford	2.45	1.72	3.15	2.58	0.77	1.92	1.57	0.60	2.35	0.75	0.55	1.08	19.49
Border	2.86	1.23	1.56	1.82	0.13	0.80	0.03	0.31	1.29	0.22	0.41	0.51	11.17
Buffalo	0.29	0.84	2.64	2.38	2.47	1.59	0.31	0.87	1.23	0.64	1.38	0.50	15.14
Casper	1.10	1.08	2.30	1.82	4.07	0.43	0.25	0.59	2.74	0.70	1.97	0.36	17.41
Centennial	1.62	0.87	3.25	1.71	1.77	0.17	2.09	3.03	1.82	1.72	0.67	0.21	18.93
Cheyenne	0.32	0.85	1.51	4.79	1.46	0.72	2.05	1.80	1.81	1.47	1.53	0.11	18.42
Chugwater	0.32	0.34	1.08	2.15	2.25	2.30	0.33	0.88	2.82	1.45	0.85	0.08	14.85
Clark	------	------	------	1.07	1.24	0.43	1.12	0.10	------	------	------	------	------
Clarkelen (near)	0.50	0.93	3.28	2.16	3.76	1.67	1.17	0.52	2.33	0.90	1.12	0.32	18.66
Cody	0.48	0.40	0.96	1.08	1.08	0.84	0.70	0.17	0.97	0.12	0.65	0.27	7.72
Colony	0.36	0.95	2.20	1.52	4.75	1.56	1.43	1.39	2.13	1.89	0.61	0.33	19.12
Crandall Creek (near)	2.08	1.73	2.81	2.23	2.38	0.98	2.94	0.95	0.96	0.45	1.95	1.15	20.61
Deaver	0.20	0.57	0.32	0.79	0.20	T.	0.73	0.19	0.15	0.02	0.90	0.31	4.38
Diversion Dam	0.00	0.54	0.56	2.09	1.03	0.23	0.15	0.07	1.84	0.86	0.63	0.25	8.25
Dixon	0.64	0.96	1.50	1.43	2.01	0.06	0.48	1.50	3.06	0.93	0.32	0.14	13.03
Dome Lake	1.10	1.42	4.13	4.54	2.27	1.27	1.79	0.73	1.79	2.41	3.50	1.69	26.64
Douglas	0.32	0.26	2.33	1.74	4.21	0.17	0.18	0.55	2.25	0.42	1.19	0.10	13.72
Dubois	0.04	T.	0.37	1.45	T.	0.05	0.26	0.40	0.95	0.59	0.20	0.13	4.44
Dull Center (near)	0.18	0.90	2.42	1.58	3.70	0.22	1.85	1.51	3.15	0.05	0.55	0.02	16.23
Dwyer	0.32	0.40	0.64	2.26	1.50	0.30	2.60	1.40	2.20	------	------	------	------
Echeta	0.46	2.38	1.80	2.57	3.85	1.05	4.05	0.15	1.10	0.60	2.45	0.50	20.96
Eden	0.40	0.40	0.41	1.15	1.17	0.40	0.19	1.12	1.57	1.33	0.17	0.15	8.46
Elk Mountain	1.60	2.20	3.40	2.80	0.80	0.10	0.90	3.09	2.90	2.08	0.60	T.	20.47
Encampment (near)	0.88	0.61	1.91	1.95	1.73	0.77	1.20	1.45	2.22	1.85	0.83	0.17	15.57
Ervay	0.07	0.41	2.83	3.63	4.37	0.24	0.04	0.35	2.31	1.36	2.07	0.24	17.92
Evanston	2.35	0.93	1.25	1.09	0.46	0.54	0.62	1.81	2.51	1.10	0.27	0.25	13.18
Fort Laramie (near)	0.12	0.30	1.29	2.30	2.42	0.43	2.90	0.08	2.99	0.91	1.14	0.07	14.95
Fort Washakie (near)	0.09	0.50	1.08	3.72	1.79	0.05	0.04	0.24	1.49	1.45	1.59	0.45	12.49
Foxpark	1.94	1.15	3.92	4.20	1.45	0.90	1.78	0.52	3.60	1.10	0.45	0.44	21.45
Gillette (near)	0.33	0.94	2.63	2.33	3.44	1.34	1.14	0.34	1.91	1.06	0.75	0.22	16.43
Green River	0.43	0.60	0.44	1.35	1.09	0.52	0.02	0.54	1.90	0.71	0.24	0.06	7.90
Hampshire	0.16	0.82	0.87	0.85	3.84	2.16	1.10	0.95	2.37	0.04	0.41	0.02	13.59
Heela	0.07	1.29	3.10	3.38	1.64	2.52	0.92	4.03	3.16	1.38	1.20	0.20	22.89
Hunter's Station	0.43	0.85	2.85	5.19	1.38	0.07	0.67	1.26	3.71	------	------	------	------
Jackson	1.38	0.49	------	0.90	0.19	0.81	1.00	0.65	2.95	1.30	0.21	1.64	------
Kendall	1.61	1.12	2.88	1.55	0.70	0.84	0.65	0.93	1.74	0.22	0.24	0.86	13.34
Kirtley	0.17	0.19	1.05	2.47	1.71	2.42	1.95	2.04	2.79	1.44	0.82	0.57	17.62
Knowles	0.59	1.47	2.90	2.94	6.05	2.56	2.03	1.09	3.29	2.01	1.58	0.38	26.99
Lagrange	------	------	------	------	------	1.31	0.84	1.00	------	------	------	------	------
Lander	0.15	0.68	1.36	4.27	1.84	0.13	0.38	0.28	1.82	1.36	1.45	0.28	13.95
Laramie	0.15	0.34	2.18	1.99	1.99	0.92	1.41	2.33	2.00	1.12	0.50	0.14	15.07
Lovell	0.64	0.85	0.54	0.98	0.89	0.22	0.70	0.01	0.33	0.37	1.51	0.67	7.71
Lusk	0.43	0.58	1.96	3.07	2.46	1.31	2.35	1.69	2.71	1.19	1.28	0.15	19.18
Lyman	0.64	0.40	0.37	0.74	1.25	------	0.22	5.90	2.66	0.36	------	0.06	------
Marshall (near)	0.37	0.41	1.39	0.78	1.33	0.35	1.06	0.74	2.50	0.26	0.44	0.10	9.73
Middle Fork (near)	0.27	1.35	2.65	5.19	2.20	0.59	1.73	0.82	2.46	1.73	1.40	0.83	21.22
Moran	3.40	1.50	2.51	1.48	0.78	2.32	0.65	1.21	3.34	0.97	0.67	2.50	21.33
Newcastle	0.45	0.73	1.47	1.90	4.87	2.96	4.14	2.54	3.00	0.62	1.07	0.18	23.93
Nine Mile Creek	0.25	0.55	1.08	3.50	3.30	0.72	0.38	0.51	1.44	0.27	0.14	0.10	12.24
Oshoto (near)	2.00	1.75	1.95	0.40	3.90	1.49	1.00	0.35	3.55	0.89	1.02	0.05	18.35
Pathfinder	0.36	0.13	0.90	1.76	3.21	0.15	0.23	0.32	1.96	0.91	0.42	0.10	10.45
Pavillion	0.08	0.14	0.38	1.89	0.78	0.26	0.14	0.00	0.78	0.25	0.65	0.07	5.20

Monthly and annual precipitation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Wyoming—Continued													
Pinebluff	0.15	0.36	0.82	4.32	1.02	0.51	2.02	1.67	2.76	1.40	0.80	0.03	15.86
Pinedale	0.31	0.56	1.13	0.56	0.22	0.31	0.53	0.88	2.33	0.92	0.08	0.17	8.00
Powell	0.49	1.19	0.64	1.38	0.55	0.75	0.58	T.	0.83	0.33	0.73	0.88	8.35
Quaking Aspen Creek	0.65	1.47	2.94	3.18	2.45	0.05	1.01	0.28	1.13	0.68	2.15	0.50	16.49
Rawlins	0.42	0.75	1.64	2.77	1.95	0.15	0.40	0.31	1.86	1.02	0.31	0.12	11.70
Riverton	T.	0.16	0.44	2.12	1.71	0.15	0.13	T.	1.41	0.46	0.51	0.01	7.10
Rochelle (near)	0.20	0.62	2.98	0.69	3.36	2.29	1.40	0.85	2.26	0.09	0.26	T.	15.00
Rockypoint	0.68	1.82	3.08	1.54	6.09	1.24	0.46	0.63	2.09	2.10	1.14	0.50	21.37
Ross (near)	0.36	0.95	2.30	1.49	2.91	3.38	1.77	0.44	2.27	0.31	0.57	0.05	16.86
Sage	1.20	0.87	0.95	3.01	0.12	1.09	0.48	0.58	1.69	1.14	0.17	0.21	11.51
Salt Creek	0.61	0.97	3.31	2.25	2.99	0.23	2.38	1.80	2.14	0.63	1.47	0.41	19.19
Saratoga	0.97	0.45	1.09	1.75	1.45	0.16	0.74	0.83	2.82	1.18	0.33	0.10	11.87
Sheridan	0.99	0.91	2.56	3.12	2.55	0.95	0.91	0.63	1.15	0.71	2.32	0.75	17.55
Sheridan Field Station	0.65	0.52	2.67	2.82	2.50	1.81	0.68	0.42	1.14	0.99	1.61	1.17	16.98
Shoshone Dam	0.39	0.63	0.77	1.69	1.15	1.14	1.25	0.12	0.96	0.30	0.89	0.50	9.79
South Pass City	0.93	0.47	1.39	2.27	0.91	1.05	0.05	0.69	1.81	2.56	0.30	0.46	12.89
Spencer (near)	0.15	0.62	1.08	0.27	3.40	1.30	1.68	-------	2.13	1.13	0.37	T.	-------
Sundance	-------	1.51	4.29	2.04	4.29	2.67	2.29	1.33	3.93	1.23	2.09	0.27	-------
Tensleep (near)	0.34	0.80	1.28	1.11	1.28	0.15	1.32	0.49	2.04	0.76	1.34	0.20	11.11
Thermopolis	0.47	0.58	1.65	2.93	1.69	0.58	0.45	0.20	1.81	-------	-------	0.00	-------
Torrington	0.21	0.24	1.05	3.82	2.08	3.21	1.55	0.60	2.58	1.27	0.66	0.04	17.31
Ulm	1.20	0.96	2.90	2.57	2.07	3.07	0.70	0.50	0.65	1.44	2.68	1.53	20.87
Wheatland	0.47	0.16	1.51	-------	-------	1.47	2.16	-------	3.39	-------	0.60	-------	-------
Worland	0.05	0.42	0.55	0.86	1.03	0.06	0.75	0.37	1.48	0.87	0.48	0.15	7.07
Yoder	0.53	0.22	1.88	3.73	2.08	3.68	1.28	0.86	3.51	1.46	1.02	0.04	20.29
Yellowstone Park	1.09	0.77	1.03	1.48	1.04	1.26	1.21	1.37	1.17	1.27	0.86	1.84	14.39
Buffalo Ranch	1.52	0.70	2.07	1.40	1.87	1.63	0.93	1.11	1.18	0.73	2.22	1.74	17.06
Gallatin	0.87	1.03	0.66	1.90	1.63	2.40	1.17	0.93	1.60	1.57	1.59	1.80	17.15
Lake Yellowstone	1.72	0.66	1.26	1.32	1.30	1.59	1.08	2.15	1.40	1.86	0.94	1.88	17.26
Riverside	1.86	1.40	0.72	1.01	0.67	0.72	0.40	0.26	0.70	1.39	0.54	2.31	11.98
Snake River	4.24	3.24	2.96	1.40	2.12	2.64	0.37	1.81	-------	2.39	0.56	2.86	-------

SNOWFALL, 1929–30

Monthly and seasonal snowfall, 1929–30

NOTE.—Leaders under heading of months indicate no snow; under seasonal, report incomplete; T., a trace; *, no report; figures inclosed by brackets ([]) are partly or wholly estimated

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Alabama										
Anniston			T.	5.1	9.5					14.6
Auburn										0.0
Birmingham			T.	5.5	7.4		T.			12.9
Clanton				8.8	3.4					12.2
Decatur			2.0	6.0	0.5		T.			8.5
Evergreen										0.0
Fayette				7.5	1.0					8.5
Florence			5.5	10.4	1.0	5.0	T.			21.9
Gadsden			T.	4.5	6.0					10.5
Goodwater				1.5	T.					1.5
Greensboro				6.0	5.0					11.0
Guntersville				6.0	0.4					6.4
Highland Home				T.						T.
Maple Grove				5.0	7.0					12.0
Mentone			1.0	9.5	7.5		T.			18.0
Mobile				T.						T.
Montgomery				T.	T.					T.
Ozark				T.						T.
St. Bernard			2.0	8.3	2.5					12.8
Troy (No. 1)										0.0
Union Springs				T.	T.					T.
Valley Head			1.0	6.0	(*)		T.			
Alaska										
Akiak		(*)	3.0	3.5	0.4	(*)	4.7	(*)	(*)	
Anchorage		(*)	(*)	2.0	4.7	6.5	11.0			
Annex Creek			14.0	37.0	20.0	150.0	20.0			241.0
Barrow	T.	11.0	3.2	1.2	2.4	(*)	(*)	(*)	(*)	(1)
Bell Island	(*)	(*)		2.0	2.7	29.1	14.5	(*)		
Bethel		T.	5.5	2.8	3.6	5.5	6.9	1.8	1.0	27.1
Calder				8.5	1.6	26.1	3.2	2.2	T.	41.6
Chernofski Harbor		0.2	T.	3.5	T.	4.0	2.0	(*)		
Chickaloon		13.5	15.1	11.7	11.3	1.4	41.1	0.6	(*)	
Chignik		T.	2.0	6.5	1.5	11.1	7.8		T.	28.9
Dillingham		5.2	26.1	7.8	3.0	9.5	41.8	T.	T.	93.4
Dutch Harbor		2.9	(*)	(*)	3.5	17.1	29.7	4.4	0.6	
Eagle		10.0	11.8	4.8	6.0	8.2	9.6	4.6	0.4	55.4
Fairbanks (near)		17.0	11.5	4.2	5.8	5.5	11.0	1.2	T.	56.2
Fort Yukon		10.0	20.0	7.0	6.0	3.0	10.0	4.2		60.2
Haines			3.0	42.0	31.0	70.0	18.0	T.		164.0
Holy Cross		2.0	25.0	2.0	10.0	6.0	22.2	6.0	2.2	75.4
Hooper Bay		(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	
Juneau			T.	10.9	8.6	64.5	16.7	13.8	T.	114.5
Kake	(*)	(*)		0.5	9.5	12.5	2.0	1.0		25.5
Kalsin Bay				1.0	10.0	14.0	5.0	(*)	T.	
Kasaan	(*)	(*)		0.7	3.0	1.9	6.9		0.2	
Kasilof	(*)	(*)	7.0	1.0	5.0	1.0	7.0	5.0		
Kennecott		3.5	7.0	19.0	7.0	12.0	19.0	7.0		
Ketchikan				3.5	4.0	10.5	3.0		T.	74.5
Klawock	(*)	(*)		(*)	4.0	8.6	0.5	(*)		21.0
Kodiak (a)		T.		2.0	0.7	4.2	12.0	3.0		
Latouche		1.0	1.0	11.5	25.2	51.5	65.0	30.0	9.2	21.9
McKinley Park		7.0	(*)	18.1	5.0	2.5	5.8	7.0		194.4
Matanuska		4.6	5.5	3.2	3.5	5.0	23.8	4.0	(*)	
Mile Seven (Cordova)		T.	T.	10.3	3.0	65.0	75.2	40.7	3.0	197.2

[1] At Barrow: July, 1929, trace; August, 1929, 2.0.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Alaska—Continued										
Naknek		0.5	1.0	11.0		4.0	4.0	2.0		22.5
Nome		1.3	20.2	15.8	(*)	(*)	29.9	6.5	(*)	
Petersburg				6.1	6.0	36.0	14.0			62.1
Pilot Station		(*)	8.0	1.2	1.1	9.1	11.8	1.4		
Porcupine Creek			16.0	23.0	16.5	51.0	20.5	4.5	T.	131.5
Quinhagak		0.5	5.5	(*)	2.5	3.5	(*)	(*)	(*)	
Rampart		13.0	12.0	5.5	3.0	2.0	14.0	2.0		51.5
St. Paul Island		4.8	6.1	6.2	3.7	10.5	9.6	5.6	3.1	49.6
Sevoonga		2.6	13.0	15.9	31.6	18.3	26.4	4.0	0.3	112.1
Seward		5.5	3.0	7.5	T.	21.0	12.0	3.0	T.	52.0
Shaktoolik	(*)	3.8	10.8	0.4	4.8	1.5	13.4	2.6	6.1	43.4
Shelter Island				14.0	9.8	58.0	(*)	(*)	(*)	
Sitka				7.0	0.7	38.2	22.0	8.5	0.5	76.9
Skagway			1.0	5.0	2.0	8.8	3.8			20.6
Sleetmute	(*)	0.1	9.9	20.1	(*)	10.5	28.5	(*)	(*)	(*)
Talkeetna		26.0	39.0	22.0	32.0	T.	65.0	11.0	2.0	197.0
Tanana		6.0	6.7	6.5	15.0	2.7	19.9	1.7	T.	58.5
Tree Point	(*)			0.8	(*)	24.0	(*)			
Valdez		15.7	50.0	13.6	16.0	48.0	117.1	22.9	11.5	294.8
Whale Island		1.0	0.2	1.5	2.8	25.5	1.8	T.		32.8
White Mountain		1.0	20.5	7.5	6.5	1.5	25.0	(*)	(*)	
Wonder Lake		11.3	11.3	10.6	(*)	(*)	(*)	(*)	(*)	
Wrangell			T.	4.6	8.0	37.7	13.2	1.5		65.0
Yakutat	(*)	(*)	(*)	11.8	2.9	30.2	(*)	18.9	T.	
Arizona										
Aguila					3.5					3.5
Alpine		5.2	2.5	0.5	29.0	3.0	16.0	2.0	(*)	
Apache Powder Co					1.5					1.5
Ashdale Ranger Station					8.0					8.0
Ashfork	(*)		T.		21.0	2.0	7.0		10.0	
Bagdad					T.		T.			T.
Benson					3.0					3.0
Bisbee		T.			1.0	T.	4.0		T.	5.0
Blue		T.	T.		19.0	T.	T.		(*)	
Bright Angel Ranger Station		4.0	1.5	(*)	45.0	20.0	18.0	0.5	16.5	
Canille					1.5	0.2	3.8		1.0	6.5
Cedar Glade					32.0					32.0
Cibecue		T.	2.0		22.0	T.	0.3	T.	0.5	24.8
Clemenceau					20.0		2.0			22.0
Clifton				T.						T.
Cochise Stronghold					T.		T.			T.
Cordes					10.0					10.0
Crown King					(*)	1.0	24.0		5.0	
Eagle Creek Ranger Station					3.0					3.0
Elgin (near)					5.0	1.0	3.0			9.0
Fairbank					T.					T.
Flagstaff		T.	T.		32.2	7.5	15.0	T.	4.8	59.5
Fort Apache		0.2	0.2		16.0	2.0	T.		T.	18.4
Fort Defiance		T.	0.3	0.5	19.3	3.5	1.0		2.0	25.6
Fort Valley		T.			42.0	14.0	4.0		5.5	65.5
Ganado		0.5	3.0	T.	11.0	3.4	2.0	T.	T.	19.9
Grand Canyon		T.			25.3	1.5	6.2	2.0	15.2	50.2
Heber Ranger Station			2.0		(*)	5.0	10.0		4.5	
Helvetia					4.0					4.0
Henrys Camp		1.0	1.5	0.2	43.8	5.8	4.0	0.5	4.5	61.3
Holbrook			T.		3.0	1.5	T.			4.5
Jerome		T.		T.	24.2	T.	T.		T.	24.2
Kayenta			T.	T.	6.7	0.9	1.2	T.	0.7	9.5
Keams Canyon	(*)	(*)	(*)		13.2	5.2	T.		1.0	
Kingman					4.0		0.8			4.8
Lakeside Ranger Station		2.0		(*)	31.0	8.0	7.0		6.0	
Lees Ferry					5.0					5.0
Leslie Canyon					2.0					2.0
Miami					1.0					1.0

Monthly and seasonal snowfall, 1920–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Arizona—Continued										
Mount Trumbull					1.7		8.0			9.7
Naco							T.			T.
Natural Bridge					22.0	T.	3.0	T.	T.	25.0
Nogales					T.		T.			T.
Oracle					2.5	T.	2.0			4.5
Palmers Ranch					6.9	3.0	12.5			22.4
Paradise		2.0		0.5	2.5		T.			5.0
Patagonia					T.		1.0			1.0
Payson			2.5		25.5	1.0			4.0	33.0
Phoenix									T.	T.
Pinal Ranch					(*)		T.			
Pinedale		1.0	1.0		28.0		4.0	3.0	6.5	43.5
Portal		8.0			1.0					9.0
Prescott			1.0		45.8	1.5	21.0	T.	2.5	71.8
Rosemont					2.0	1.5	2.0			5.5
St. Johns			7.0		12.0	0.5			T.	19.5
San Simon					3.0					3.0
Seligman					8.0		11.0		15.0	34.0
Snowflake			2.0	T.	14.0	1.5	9.5	T.	4.0	31.0
Springerville		2.0	8.0	0.5	15.0	1.5	3.0		4.0	34.0
University of Arizona (Tucson)										0.0
Wallace Ranger Station [2]		1.0			27.5	4.0	6.0	6.0	14.0	58.5
Walnut Creek		T.	T.		22.0	3.0	14.0		4.0	43.0
Walnut Grove					17.0				1.5	18.5
Willcox (near)					1.0					1.0
Williams		0.5			53.0	7.0	16.0		5.0	81.5
Winslow					1.0	1.0	T.			2.0
Yaeger Canyon			1.0		33.0	2.0	21.0		5.0	62.0
Young			3.0		45.0	2.0	9.0			59.0
Yuma (Weather Bureau)										0.0
Arkansas										
Arkadelphia			3.0	T.	2.2					5.2
Batesville			T.	2.0	6.5		T.			8.5
Bee Branch			0.1	1.0	8.0		T.			9.1
Bentonville			1.2	1.0	10.3		T.			12.5
Black Rock			T.	3.5	6.0		T.			9.5
Brinkley			7.0	4.0	3.0					14.0
Calico Rock			T.	3.0	7.5		T.			10.5
Clarendon			8.0	2.0	5.5					15.5
Corning				6.0	5.0		0.4			11.4
Cotter			T.	1.0	18.0					19.0
Dardanelle					2.0					2.0
Dumas			8.0	10.0	4.0					22.0
Dutton			0.2	3.0	7.0		0.2			10.4
El Dorado			8.0	18.2	2.2					28.4
Fayetteville			T.	0.5	12.2		0.5			13.2
Fort Smith			T.	T.	6.5		T.			6.5
Freeman Springs			0.8	1.9	5.8		T.			8.5
Georgetown			5.0	0.1	3.5					8.6
Gilbert			0.1	0.1	10.5					11.6
Gravette			0.5	2.0	14.3		T.			16.8
Helena			3.8	3.0	3.5		T.			10.3
Hope			5.2	(*)	5.5					
Jonesboro			0.5	4.2	8.5		T.			13.2
Lead Hill			T.	0.5	16.8		0.1			17.4
Little Rock			4.9	0.6	3.0		T.			8.5
Lurton			1.1	2.4	6.5		0.7			10.7
Lutherville			1.0	1.5	9.0		T.			11.5
Mammoth Spring			(*)	4.5	(*)	(*)	(*)			
Mountain Home				T.	(*)					
Mount Ida			2.0	T.	4.0					6.0
Ozark			T.	T.	5.5					5.5
Piggott			T.	5.0	5.5		T.			10.5

[2] Name changed from Waters Ranger Station.

Monthly and seasonal snowfall, 1929-30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Arkansas—Continued										
Pine Bluff			5.0	2.0	3.5					10.5
Rogers			0.5	1.0	13.5		T.			15.0
Waldron			0.5	4.2	5.0		T.			9.7
Wynne			3.5	4.4	5.0		T.			12.9
California										
Big Creek					62.0	24.0	18.0	0.2	9.5	113.7
Bishop Creek				T.	13.0	22.0	15.0	9.0	11.0	70.0
Blue Canyon					68.0	36.0	35.0	14.0	7.0	160.0
Bowman's Dam				T.	112.5	49.5	55.0	28.0	11.5	256.5
Camptonville (near)					61.5	11.5	1.5	4.0	1.5	80.0
Canyon Dam				0.2	47.0	21.0	21.2	8.0	2.0	99.4
Cedarville					34.5	2.5	7.0	T.	2.5	46.5
Chester				2.0	43.5	26.0	27.0	7.0		105.5
Cliff Camp				3.0	63.0	31.0	33.0	2.0	5.0	137.0
Colfax					50.0	3.0				53.0
Cuyamaca					63.0	6.0	13.0		8.5	90.5
Deer Creek					78.0	21.0	8.0	6.0	6.0	119.0
De Sabla					68.2	8.0	T.	1.0	0.5	77.7
Dinkey Meadow				T.	63.0	30.0	26.0	T.	2.0	121.0
Downieville					90.0	23.0	9.0	3.0	(*)	
Dudleys					40.0	5.2	8.0		1.0	54.2
Ellery Lake	T.			43.0	61.0	45.0	70.0	40.0	16.0	275.0
Eureka										0.0
Fort Bidwell				1.0	36.0	5.2	6.0		T.	48.2
Fresno					2.5					2.5
Gem Lake	T.			20.0	40.2	32.0	48.0	27.5	18.0	[3] 185.7
Giant Forest					68.2	29.0	33.5	6.5	21.0	158.2
Glennville (near)					11.0	1.0	7.0		3.0	22.0
Grass Valley					45.0	1.5				46.5
Hat Creek					33.2	20.0	1.0	T.	T.	54.2
Hayfork					28.5	3.0		1.0		32.5
Hetch Hetchy					44.0	8.0	10.0	1.0	2.5	65.5
Hot Springs					24.0	1.0	2.0		1.0	28.0
Hullville (near)					23.9	2.8				26.7
Huntington Lake				1.5	95.5	41.0	15.0	13.5	27.0	223.5
Independence					7.0		1.0			8.0
Inskip					77.5	39.0	20.5	9.0	6.0	161.0
Julian					32.0	4.0	20.0		(*)	
Lake Eleanor					56.0	24.0	33.0	5.0	7.0	125.0
Lake Sebrina				3.0	21.2	22.5	27.0	14.2	24.0	111.9
Lake Spaulding					87.0	33.0	41.0	19.0	1.0	181.0
Lick Observatory					30.0	1.2	0.5		2.0	33.7
Los Angeles										0.0
Lundy Lake				3.0	37.0	26.0	26.5	11.0	2.0	105.5
McCloud				T.	53.0	20.0	8.0	11.0		92.0
Mill Creek (Amador County)					32.5	3.0		1.0		36.5
Mineral				T.	73.5	35.5	29.0	17.0	3.0	158.0
Mount Shasta					34.0	20.0	6.0	8.0		68.0
Mount Wilson					55.0	3.0	34.0	2.0	10.0	104.0
Norden				30.0	124.0	70.0	57.0	36.0	12.0	329.0
North Bloomfield					60.0	10.5	T.	4.5	1.0	76.0
Placerville					24.0	1.0				25.0
Portola				T.	38.0	27.0	9.0	7.5	1.0	82.5
Quincy					32.7	10.5	2.0	6.0	3.0	54.2
Red Bluff					12.3					12.3
Redding					26.4	2.0				28.4
Sacramento					1.0					1.0
San Diego										0.0
San Francisco										0.0
San Jose										0.0
Seven Oaks					44.0	12.0	27.0		14.0	97.0
Shield's Ranch					10.0	6.0	2.0	10.0		28.0
Sierraville					33.0	19.0	19.0	11.0	7.0	89.0

[3] Trace in June, 1930.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
California—Continued										
South Lake	-------	-------	-------	14. 5	34. 0	35. 5	28. 0	20. 0	25. 0	157. 0
Springville (near)	-------	-------	-------	-------	40. 0	14. 0	13. 5	-------	17. 0	84. 5
Squirrel Inn	-------	-------	-------	-------	72. 5	33. 5	44. 0	9. 5	32. 5	192. 0
Tahoe	-------	-------	-------	1. 0	66. 0	48. 0	38. 0	15. 0	4. 8	172. 8
Twin Lakes	-------	T.	-------	19. 0	102. 0	90. 0	49. 0	31. 5	27. 0	318. 5
Weaverville	-------	-------	-------	-------	49. 1	4. 5	-------	0. 8	-------	54. 4
West Branch	-------	-------	-------	-------	66. 0	13. 0	1. 0	4. 0	1. 0	85. 0
West Point	-------	-------	-------	-------	25. 5	9. 5	2. 0	0. 8	2. 5	40. 3
Westwood	-------	-------	-------	1. 0	60. 5	25. 5	17. 5	6. 5	0. 5	111. 5
Yosemite	-------	-------	-------	-------	41. 0	14. 8	13. 0	2. 0	1. 0	71. 8
Yreka	-------	-------	-------	-------	22. 0	2. 0	-------	-------	-------	24. 0
Colorado										
Boulder	T.	14. 9	25. 9	9. 1	8. 9	7. 3	6. 5	-------	5. 5	78. 1
Buena Vista	-------	2. 5	7. 5	1. 0	10. 5	T.	8. 5	1. 0	-------	31. 0
Canon City	-------	(*)	(*)	(*)	6. 2	3. 0	5. 0	-------	-------	-------
Cedaredge	-------	2. 5	3. 0	0. 3	46. 4	2. 4	1. 0	2. 0	4. 3	61. 9
Cheyenne Wells	-------	4. 0	16. 0	3. 0	5. 1	1. 0	2. 5	-------	-------	31. 6
Colorado Springs	-------	3. 1	8. 0	2. 0	3. 0	3. 8	5. 0	-------	3. 0	27. 9
Columbine Ranch	-------	7. 0	10. 0	4. 0	58. 0	19. 0	8. 0	2. 0	5. 0	113. 0
Crested Butte	2. 0	1. 3	5. 0	3. 5	45. 0	26. 0	23. 0	1. 0	(*)	-------
Cumbres	T.	17. 0	16. 5	3. 0	132. 5	38. 0	47. 0	8. 7	26. 0	288. 7
Delta	-------	2. 0	2. 5	-------	22. 5	3. 0	1. 0	-------	T.	31. 0
Denver	T.	16. 2	23. 1	10. 2	12. 5	2. 2	8. 3	-------	1. 0	73. 5
Dillon	-------	11. 0	10. 7	5. 4	25. 0	9. 2	23. 6	7. 0	10. 5	102. 4
Echo Lake	T.	24. 0	17. 0	7. 0	7. 0	24. 0	21. 0	18. 0	25. 0	143. 0
Elk Creek	5. 0	16. 5	17. 5	4. 5	15. 5	9. 5	12. 5	4. 0	13. 0	98. 0
Fort Collins	-------	7. 2	11. 1	1. 2	5. 5	0. 8	6. 0	-------	-------	31. 8
Fort Morgan	-------	12. 0	14. 5	-------	5. 0	2. 0	6. 0	-------	-------	39. 5
Fraser	(*)	10. 0	19. 6	14. 6	50. 1	38. 2	32. 5	10. 3	12. 0	-------
Garfield	T.	19. 5	26. 3	9. 5	52. 3	20. 3	26. 3	7. 0	14. 9	[4] 180. 3
Grand Junction	-------	1. 0	4. 9	1. 4	20. 9	4. 5	0. 4	-------	0. 2	33. 3
Hartsel	-------	4. 5	12. 0	6. 0	9. 0	2. 0	5. 0	4. 0	6. 0	48. 5
Hermit (near)	-------	-------	1. 5	-------	16. 0	4. 0	7. 5	6. 5	2. 0	37. 5
Ignacio	-------	2. 5	0. 5	3. 0	26. 6	0. 2	5. 0	-------	1. 0	38. 8
Julesburg	-------	11. 5	8. 0	T.	9. 5	3. 0	1. 3	-------	8. 0	41. 3
Kassler	-------	19. 0	29. 0	7. 5	11. 4	5. 2	14. 1	-------	T.	86. 2
Lake Moraine	0. 8	24. 0	26. 0	10. 0	8. 0	1. 0	1. 8	1. 4	31. 0	104. 0
Lamar	(*)	(*)	9. 0	7. 5	1. 6	T.	T.	T.	-------	-------
Las Animas	-------	2. 0	-------	-------	-------	-------	-------	(*)	-------	-------
La Veta Pass	(*)	21. 0	25. 0	3. 0	5. 0	10. 0	22. 5	1. 0	4. 0	-------
Lay	4. 0	5. 5	13. 0	3. 5	46. 5	10. 0	(*)	0. 5	2. 0	-------
Leadville	(*)	12. 5	13. 5	9. 4	39. 1	19. 6	27. 0	4. 7	11. 6	[5]
Long Branch	-------	5. 0	5. 7	1. 0	1. 9	1. 0	3. 0	-------	8. 0	25. 6
Longs Peak	17. 0	23. 0	17. 0	5. 0	14. 0	17. 0	30. 0	5. 0	13. 0	[3] 141. 0
Nast	-------	1. 8	0. 7	0. 5	(*)	(*)	(*)	(*)	2. 0	-------
North Lake	-------	13. 5	22. 0	4. 7	17. 0	9. 0	38. 6	2. 2	3. 7	110. 7
Pearl	16. 5	10. 8	8. 8	6. 6	19. 0	17. 6	20. 0	1. 5	6. 0	[3] 106. 8
Pitkin	4. 2	7. 2	9. 9	4. 8	41. 7	20. 8	15. 3	3. 0	12. 8	[3] 119. 7
Pueblo	-------	7. 0	14. 6	7. 7	5. 9	0. 5	5. 3	T.	-------	41. 0
Rico	-------	4. 5	2. 0	6. 0	74. 0	23. 0	29. 0	6. 0	15. 0	159. 5
Rocky Ford	-------	4. 0	6. 3	5. 0	1. 5	-------	T.	-------	-------	16. 8
Saguache	-------	2. 0	6. 5	1. 4	6. 0	T.	T.	T.	-------	[3] 15. 9
Sapinero (near)	8. 0	19. 8	11. 0	8. 4	54. 4	29. 1	29. 2	11. 0	28. 8	199. 7
Savage Basin	31. 0	45. 5	26. 0	25. 0	93. 0	51. 0	103. 0	54. 0	77. 0	505. 5
Spicer	13. 0	8. 0	6. 0	3. 0	36. 0	31. 0	17. 0	6. 0	4. 0	[6] 125. 0
Steamboat Springs	0. 5	2. 9	(*)	15. 8	(*)	24. 1	(*)	(*)	(*)	-------
Wray	-------	4. 0	17. 0	-------	4. 5	1. 0	2. 0	-------	T.	28. 5
Connecticut										
Bridgeport	-------	T.	0. 2	8. 5	5. 0	4. 5	T.	-------	-------	18. 2
Colchester	-------	-------	0. 5	9. 5	4. 5	11. 0	T.	-------	-------	25. 5
Cream Hill	-------	T.	6. 2	13. 0	5. 5	10. 0	3. 8	1. 5	T.	40. 0
Hartford	-------	-------	1. 3	7. 4	3. 1	6. 5	T.	T.	-------	18. 3

T Trace in June, 1930. [4] Includes June, 1930: Garfield, 4. 2. [5] At Leadville: June, 1930, 1. 0. [6] Includes June, 1930: Spicer, 1. 0.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Connecticut—Continued										
New Haven			0.2	8.1	5.6	5.9	T.	T.		19.8
New London			0.4	5.4	5.0	13.3	0.2	T.		24.3
Norwalk			T.	8.5	6.5	4.0	T.			19.0
Waterbury				5.1	2.5	4.0	T.			11.6
Delaware										
Bridgeville			[2.0]	[0.2]	9.0	4.0	T.	T.		15.2
Dover			0.5	[1.0]	9.0	4.0	T.	T.		14.5
Millsboro			3.6	0.1	10.2	3.5	T.	T.		17.4
Wilmington			0.2	2.5	7.0	1.5	T.	T.		11.2
District of Columbia										
Washington			1.1	1.5	14.0	1.5	T.	T.		18.1
Florida [7]										
Apalachicola				T.						T.
Bluff Springs				T.						T.
Bonifay				T.						T.
Cottage Hill				T.						T.
Glen St. Mary					T.					T.
Madison					T.					T.
Pensacola				T.						T.
Georgia										
Albany				T.						T.
Atlanta			T.	2.1	3.0		T.			5.1
Augusta				T.	0.1					0.1
Blue Ridge			0.7	6.0	13.4	(*)	(*)	(*)	(*)	
Brunswick					T.					T.
Clayton			1.0	4.5	14.0	T.	0.1			19.6
Concord				T.	1.0		T.			1.0
Cornelia				2.5	8.2	T.	T.			10.7
Dahlonega			0.6	3.0	10.5		T.			14.1
Gainesville			T.	2.0	6.5		T.			8.5
Macon				T.	T.		T.			T.
Norcross				1.9	2.1		T.			4.0
Rome			T.	7.4	8.5		T.			15.9
Savannah					T.					T.
Thomasville				T.	T.					T.
Toccoa				1.5	5.4		T.			6.9
Waycross					T.					T.
West Point				T.	T.					T.
Idaho										
Aberdeen			T.	3.0	11.8	11.0	0.5			26.3
Ashton		2.0	5.0	1.0	18.0	10.0	T.	T.	T.	36.0
Atlanta				5.7	31.5	38.0	38.5			113.7
Avery			2.0	22.0	25.0	(*)	(*)			
Blackfoot			1.0	2.5	15.0	4.0	T.			22.5
Bogus Creek	T.	T.	T.	8.5	26.7	15.5	(*)	2.0	3.0	
Boise		T.	T.	4.8	26.8	8.1	5.7	T.	T.	45.4
Burley			T.	4.0	13.9	2.5			6.0	26.4
Cambridge			T.	13.0	31.0	15.0				59.0
Challis	T.			3.5	(*)	(*)	(*)	T.		
Falls Ranger Station			T.	12.0	16.0	10.0	T.			38.0
Grace		4.0	1.0	4.0	16.0	12.5	1.5		T.	39.0
Grandview				5.0	9.6	T.	2.0			16.6
Grangeville		0.5	2.0	5.0	19.6	10.5	3.5		0.5	41.6
Grays Lake	T.	T.	3.0	2.0	15.5	9.0	3.0	2.0	5.5	40.0
Grimes Pass	T.		1.3	11.7	37.0	28.2	11.2	T.	2.0	91.4
Hailey				5.0	18.5	23.0	8.2		T.	54.7
Hazelton			T.	1.0	17.0	4.5			1.0	23.5

[7] Snowfall this season reported only from stations appearing in list.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Idaho—Continued										
Idaho City				5.5	36.6	14.7	1.3		1.0	59.1
Idaho Falls			0.2	5.2	20.4	12.5	3.0		T.	41.3
Irwin		0.2	0.8	2.6	13.5	0.8	4.2		6.0	28.1
Kellogg			1.0	7.3	13.6	9.0	1.7			32.6
Kirkham			0.9	5.6	35.2	17.1	1.0		T.	59.8
Lewiston				T.	11.5	6.3				17.8
Lifton	T.	T.	0.7	1.9	15.6	8.2	7.6	1.0	1.5	36.5
Mackay				2.0	5.2	4.7	5.1			17.0
Malad		1.5	1.2	5.2	17.5	8.4				33.8
Moscow				11.7	17.4	7.0	8.5			44.6
Mullan		T.	2.0	21.5	22.0	(*)	(*)		T.	
Musselshell Ranger Station		T.	T.	16.5	38.0	18.0	11.5	(*)	(*)	
New Meadows		T.	1.3	12.5	29.0	18.5	4.5		0.5	66.3
Obsidian			2.5	31.5	23.8	29.9	6.5	0.5		94.7
Pete King Ranger Station				2.5	21.2	12.0	1.5			37.2
Pine				1.5	34.0	10.0	6.0		T.	51.5
Pocatello	T.	0.5	2.0	3.1	20.9	7.0	0.7		0.8	35.0
Porthill			0.5	31.5	9.5	12.0	1.5			55.0
Prairie			T.	3.0	34.0	12.0	2.1			51.1
Prichard			0.8	20.0	17.5	21.5	2.0		T.	61.8
Pyle Creek			T.	9.0	25.0	13.0	T.			47.0
Roland		2.0	1.5	55.5	31.0	24.0	20.0	T.	2.5	136.5
St. Maries				5.0	11.5	2.0				18.5
Salmon			1.0	2.9	24.5	14.0	0.5			42.9
Sandpoint				10.5	10.5	4.5	0.5			26.0
Sheep Hill			T.	13.0	38.3	25.7	6.0	1.0	3.0	87.0
Smith Creek			5.0	23.0	17.0	20.0	17.0			82.0
Soldier Creek	T.	T.	T.	12.3	36.5	22.1	12.5	0.7	1.0	85.1
Tripod Mountain			T.	7.0	29.5	12.5			T.	49.0
Wallace			1.1	14.0	20.7	3.9	1.2		T.	40.9
Illinois										
Cairo			T.	6.6	5.5	T.	0.3			12.4
Casey		T.	1.0	15.7	14.6	1.8	4.3			37.4
Chicago (University)		0.7	0.1	20.2	13.9	1.5	21.6	T.		58.0
Duquoin			1.7	8.7	4.7	0.4	1.5			20.0
Flora		T.	0.8	8.6	6.4	0.9	0.9			17.6
Galesburg		5.0	1.0	10.2	23.7	1.5	2.0			43.4
Greenville		T.	1.0	10.0	11.5	4.2	6.0			32.7
Kankakee		2.0	1.3	15.7	8.1	0.6	13.6			41.3
La Salle		2.6	0.7	4.6	16.4	1.7	9.5			35.5
Lincoln		2.8	0.4	11.5	7.4	0.9	6.7			29.7
Macomb		1.0	0.5	8.3	19.1	1.0	1.9			31.8
Mascoutah		T.	4.0	12.8	7.7	4.4	4.1			33.0
Mount Carmel		T.	1.2	7.5	5.5	1.5	0.5			16.2
Mount Carroll		5.0	1.9	6.3	18.9	3.5	2.2	0.1		37.9
New Burnside			2.6	7.6	7.0	0.3	2.9			20.4
Pana		2.0	0.5	10.5	7.0	1.0	10.2			31.2
Peoria		3.3	0.2	9.5	14.1	0.6	5.6			33.3
Pontiac		4.0	0.7	16.0	11.5	0.3	10.0			42.5
Rockford		5.0	1.5	5.2	18.5	3.0	2.0			35.2
Springfield		2.4	0.3	10.5	6.1	1.8	5.1			26.2
Sycamore		8.0	1.0	9.4	17.7	1.0	9.2			46.3
Urbana		1.5	0.8	11.2	5.1	0.8	6.2			25.6
Walnut		6.3	1.2	7.6	15.4	1.9	1.5			33.9
Waukegan		1.7	1.0	9.1	13.2	2.9	10.9	T.		38.8
White Hall		1.0	1.0	7.0	5.8	1.5	3.5			19.8
Indiana										
Angola		3.0	5.5	16.5	10.5	2.5	9.0	T.		47.0
Bloomington		0.3	3.5	5.9	6.8	0.7	2.2			19.4
Bluffton		T.	0.5	18.0	12.0	0.5	2.0			33.0
Butlerville		1.1	0.5	13.4	8.7	1.2	7.1			32.0
Evansville		T.	4.1	5.8	7.0	2.8	4.0			23.7
Fort Wayne		1.4	2.2	14.9	7.8	0.6	3.8	T.		30.7
Indianapolis		0.4	0.3	8.0	6.9	1.2	3.0			19.8

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929			1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Indiana—Continued										
Kokomo		T.	T.	18.5	11.0	0.5	7.6			37.6
La Fayette		T.	0.8	28.0	8.2	0.8	7.5			45.3
Marion		T.	T.	16.0	8.3	0.5	5.2			30.0
Mauzy		3.7	0.3	12.7	9.1	1.0	5.8			32.6
Paoli		T.	0.5	10.2	4.8	0.5	3.6			19.6
Richmond		0.6	0.4	11.4	6.7	0.8	2.9			22.8
Royal Center		4.0	1.5	12.9	4.3	0.2	5.4			28.3
Salem		T.	2.0	7.0	9.0	2.0	7.0			27.0
South Bend		1.0	15.0	24.0	17.7	4.5	16.5			78.7
Terre Haute		0.6	0.1	12.9	12.3	1.5	4.5			31.9
Valparaiso		2.9	7.1	31.3	28.5	3.8	22.0	T.		95.6
Iowa										
Afton		T.	6.5	5.0	18.0	2.0	1.5			33.0
Alta		1.0	7.0	1.5	11.0	3.5	0.5			24.5
Belle Plaine		2.0	0.7	3.7	17.1	2.2	3.3	0.5		29.5
Belmond		T.	4.2	1.5	14.5	5.0	0.3			25.5
Centerville		T.	1.2	6.1	21.2	0.6	9.4			38.5
Charles City		1.2	1.2	4.9	16.5	4.3	T.	0.5		28.6
Davenport (Weather Bureau)		1.1	1.5	5.3	17.7	0.6	0.5	T.		26.7
Decorah		2.0	1.0	7.0	16.0	4.0	2.0	0.5		22.5
Denison		T.	2.7	3.0	12.0	4.5	1.0			23.2
Des Moines		T.	1.5	4.5	16.5	4.5	0.7	0.2		27.9
Dubuque		3.0	0.7	6.3	21.1	3.6	5.4	2.0		42.1
Forest City		1.0	4.8	4.9	20.0	5.0	1.5	1.6		38.8
Humboldt		T.	4.0	3.0	10.0	4.5	T.	T.		21.5
Independence		1.1	0.1	3.7	13.1	0.7	3.0	2.0		23.7
Inwood (near)		1.5	1.4	1.3	7.3	1.5	0.5			13.5
Iowa City		1.0	0.5	5.0	21.0	2.0	T.	T.		29.5
Iowa Falls		0.3	3.0	3.8	14.2	6.5	6.0	2.5		36.3
Jefferson		T.	2.0	5.5	12.5	2.0	1.0			23.0
Keokuk		0.4	0.4	7.7	16.4	1.0	0.2			26.1
Little Sioux			7.1	1.7	6.8	3.0	2.0			20.6
Marshalltown		T.	1.0	3.9	19.4	2.5	1.5	1.2		29.5
Mason City		1.0	5.0	3.8	12.2	5.0	1.1			28.1
Mount Ayr			2.8	1.4	15.0	1.0				20.2
Mount Pleasant		1.0	0.2	5.0	14.0	1.0	T.			21.2
Oakland			8.8	0.5	11.0	(*)				
Olin		1.0	0.2	4.5	16.5	1.0				23.2
Oskaloosa		1.0	0.8	4.6	24.9	4.4	7.3	T.	T.	43.0
Postville (near)		2.0	0.7	6.8	15.0	3.5	1.5	2.5		32.0
Sioux City		T.	2.4	3.2	8.1	3.4	0.5	0.1		17.7
Spencer		0.5	3.5	2.0	9.4	5.5	2.6	T.		23.5
Thurman			11.0	0.8	18.5	2.0	T.			32.3
Kansas										
Burlington			0.2	1.5	14.8					16.5
Colby		1.0	20.0	1.0	4.0	2.0	1.0	T.	T.	29.0
Columbus			T.	1.1	17.4		T.			18.5
Concordia			6.7	0.2	8.9	T.	0.8		T.	16.6
Dodge City			16.8	0.2	2.9	T.	T.			19.9
Garden City			15.5	3.0	5.0	0.2	(*)			
Horton (near)			1.0	T.	11.0	1.0	T.			13.0
Hutchinson			4.0	T.	9.0	T.	0.5			13.5
Independence			T.	0.8	15.0		T.			15.8
Iola			0.2	1.4	10.5	T.	T.			12.1
Lakin		T.	21.0	1.0	3.5	T.	T.			25.5
Liberal			(*)		5.0					
McPherson			8.0	0.5	10.0	1.0	0.5			20.0
Manhattan			1.2	T.	8.1	0.4	0.1			9.8
Marion			0.5	T.	7.6	0.2	T.			8.3
Medicine Lodge			3.8	T.	4.8					8.6
Minneapolis			9.0		8.0		0.5			17.5
Oketo			1.4	0.4	9.1	1.0	T.			11.9
Phillipsburg			6.4		4.4	T.	T.			10.8

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Kansas—Continued										
Richfield			13.2		3.2		0.5			16.9
St. Francis		4.0	14.2	1.0	3.8	2.0	3.0		1.2	29.2
Sedan			T.	T.	14.1					14.1
Topeka			1.0	0.8	11.0	0.3	T.			13.1
Wakeeney			9.0	T.	4.0	2.0	T.			15.0
Wellington			T.	T.	15.8		T.			15.8
Wichita			1.2	0.4	10.6	T.	T.			12.2
Kentucky										
Beattyville			3.5	9.2	2.0	0.5	2.0			17.2
Berea		T.	3.5	7.5	3.5	1.5	0.8			16.8
Bowling Green (No. 1)			3.8	4.5	2.0	T.				10.3
Calhoun			3.0	7.5	9.5	1.0	3.0			24.0
Earlington			2.0	6.5	6.0		T.			14.5
Eubank			2.5	7.2	6.8	T.	T.			16.5
Frankfort			1.5	3.5	3.0	T.	0.8			8.8
Greensburg			4.0	10.9	2.0	0.5	0.5			17.9
Hopkinsville			1.6	8.3	3.2		0.2			13.3
Junction City			7.5	8.0	2.0	1.5	2.0			21.0
Leitchfield			3.0	10.0	3.5	0.5	1.2			18.2
Lexington			3.2	5.6	2.6	1.3	1.0			13.7
Louisville (Weather Bureau)		T.	2.1	5.4	3.7	0.1	0.4			11.7
Lovelaceville			1.0	3.0	3.0		2.5			9.5
Maysville			1.5	4.0	3.5	0.2	0.5			9.7
Mount Sterling			4.0	8.0	3.0	1.0	2.5			18.5
Owensboro (No. 1)			3.0	7.0	7.0	2.0	T.			19.0
St. John			4.5	6.0	3.8		2.5			16.8
Scott			3.0	5.0	2.5	1.0	3.0			14.5
Taylorsville		T.	3.0	3.3	1.5	0.2	0.1			8.1
Williamsburg			6.0	10.0	2.5	T.	T.			18.5
Louisiana										
Alexandria				5.0	T.					5.0
Amite				1.0						1.0
Angola				5.0	T.					5.0
Arcadia			3.2	9.5	7.0					19.7
Calhoun				9.5	3.5					13.0
Clinton				4.0						4.0
Crowley				T.	T.					T.
DeRidder				5.0	T.					5.0
Dodson				10.0	5.5		T.			15.5
Elizabeth				5.0	T.					5.0
Grand Cane				13.5	3.2					16.7
Grand Coteau				0.9	T.					0.9
Minden			2.5	12.5	3.0					18.0
Monroe				9.0	4.0					13.0
Natchitoches				9.0	(*)		T.			
Newellton				8.1	3.1					11.2
New Orleans				T.						T.
Plain Dealing			4.0	14.0	(*)					
Robeline				5.5	3.0		T.			8.5
Ruston			1.5	9.3	4.0					14.8
Shreveport			2.0	11.0	2.4					15.4
Urania				8.0	3.0		T.			11.0
Maine										
Eastport		0.3	1.1	17.6	14.8	18.6	5.9	2.7		61.0
Farmington		T.	2.3	23.5	19.5	6.5	10.0	T.		61.8
Gardiner		T.	5.0	28.5	21.0	19.5	10.5	T.		84.5
Greenville		4.5	3.0	28.5	21.0	10.5	28.5	2.3		98.3
Houlton		1.0	2.0	29.0	30.0	7.0	9.5	0.5		79.0
Lewiston		T.	6.8	21.8	15.0	10.8	9.5	T.		63.9
Madison		T.	6.2	22.8	16.2	9.4	9.6	T.		64.2

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Maine—Continued										
Millinocket			3.9	22.5	24.2	10.0	7.5	1.8		69.9
North Bridgton			6.0	21.0	18.0	6.0	7.5	T.		58.5
Oldtown			3.0	20.0	14.5	12.5	4.0	0.5		54.5
Portland		T.	3.9	21.2	11.7	9.4	1.3	T.		47.5
Rumford		T.	4.9	30.0	21.2	7.5	12.5	T.		76.1
Van Buren		2.0	6.2	37.0	31.8	17.4	20.8	6.5		121.7
Winslow		T.	5.0	19.7	14.5	8.5	6.0	T.		53.7
Woodland		T.	3.5	26.0	15.5	15.5	5.0	2.0		67.5
Maryland										
Aberdeen			T.	3.0	13.1	1.3	T.	T.		17.4
Baltimore		T.	0.3	3.6	14.1	3.4	T.	T.		21.4
Chewsville		T.	0.7	10.2	13.5	2.7	1.5	T.		28.6
Cumberland		T.	2.5	5.3	4.7	3.7	[0.5]	[0.7]		17.4
Easton			[1.0]	T.	11.5	2.5	T.	T.		15.0
Emmitsburg		T.	[0.5]	[10.2]	14.5	1.5	0.9	T.		27.6
Frederick		T.	0.6	10.9	12.2	2.8	T.	T.		26.5
Frostburg		T.	2.6	9.5	10.7	3.8	7.5	[3.0]		37.1
Grantsville		0.5	13.5	12.8	9.8	9.7	16.1	6.5		68.9
Maryland Line		T.	[0.5]	8.0	16.5	2.0	T.	[0.5]		27.5
Oakland		1.0	7.1	9.8	6.6	8.2	14.4	4.0		51.1
Princess Anne			4.0	0.3	5.5	1.5	T.			11.3
Solomons			1.4	0.5	10.2	3.5	0.2	T.		15.8
Westminster		T.	0.8	9.1	17.5	3.8	T.	0.1		31.3
Massachusetts										
Amherst			3.0	8.0	9.5	5.5	T.			26.0
Blue Hill			4.0	13.1	7.9	9.0	0.3	T.		34.3
Boston			3.0	10.6	7.7	9.5	0.6	T.		31.4
Clinton		T.	1.5	10.1	6.2	12.0	T.	T.		29.8
Concord			1.9	12.5	7.1	11.9	0.3	T.		33.7
Fall River			0.8	7.2	6.8	7.2	T.			22.0
Fitchburg		T.	1.7	11.8	8.5	10.9	T.			32.9
Framingham			2.2	11.5	8.5	13.9	T.			36.1
Lawrence		T.	1.4	13.5	8.8	12.0	1.0	T.		36.7
Nantucket		T.	T.	1.6	10.1	11.8	1.9	T.		25.4
Plymouth			T.	11.5	9.0	10.0	1.0	T.		31.5
Provincetown				2.0	8.0	13.5	T.	T.		23.5
Rockport			T.	6.0	5.6	13.0	1.2			25.8
Williamstown			5.0	8.4	12.2	10.0	6.6	3.2		45.4
Worcester		T.	2.6	8.6	7.0	13.2	T.	T.		31.4
Michigan										
Alma (No. 1)		T.	T.	18.1	11.9	8.5	5.7			44.2
Alpena		T.	13.2	21.7	10.2	10.0	17.3	3.7		76.1
Battle Creek		T.	6.0	28.5	17.0	5.0	14.0	T.		70.5
Cadillac			7.5	16.3	19.0	13.0	28.8	4.0		88.6
Calumet	T.	5.5	19.5	36.2	42.5	12.0	8.8	1.0	T.	125.5
Croton			3.0	13.5	21.0	7.0	11.5	T.		56.0
Detroit		T.	1.4	25.6	16.6	6.2	14.6	0.4		64.8
East Tawas			1.0	40.0	11.0	12.5	13.3	2.0		79.8
Eloise		T.	1.5	22.4	8.8	7.1	7.0	T.		46.8
Escanaba		T.	4.0	21.8	10.8	17.2	21.0	1.2		76.0
Fife Lake (near)			8.5	21.0	12.5	7.0	28.0	9.5		86.5
Frankfort			5.1	16.8	13.0	8.9	17.2	T.		61.0
Grand Haven			6.9	15.9	28.4	6.1	9.4	T.		66.7
Grand Marais		T.	15.0	14.3	19.0	11.0	14.0	T.		73.3
Grand Rapids			9.1	28.9	14.4	5.9	14.3	T.		72.6
Grayling	T.	T.	10.0	33.0	22.0	15.0	19.5	4.0		103.5
Hart			6.5	16.0	(*)	5.6	14.5	0.5		
Hillsdale		1.0	3.3	17.0	11.5	5.6	8.8	0.2		47.4
Houghton		2.5	22.4	26.5	26.9	17.9	11.9	0.3		108.4
Iron Mountain		2.0	3.0	16.0	9.5	12.5	4.0	T.		47.0
Ironwood		6.0	26.5	55.5	37.5	24.0	14.0	T.		163.5

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Michigan—Continued										
Ishpeming	0.5	35.3	12.0	23.1	11.1	11.5	9.0	2.1	T.	104.6
Jackson		2.0	4.0	20.2	13.8	6.2	14.0	T.		60.2
Kalamazoo (No. 1)		T.	14.0	23.5	26.0	10.5	24.2			98.2
Lansing (Weather Bureau)		0.1	2.2	29.3	23.8	7.8	16.0	0.2		79.4
Ludington			5.4	9.3	22.0	10.1	18.7	3.0		68.5
Mackinaw	T.		12.0	24.2	17.5	7.0	12.5	0.5	T.	73.7
Marquette		1.2	8.5	33.8	22.0	15.1	17.9	2.2		100.7
Munising	T.	3.5	24.4	30.0	21.0	28.5	27.4	2.2	T.	137.0
Newberry	T.	2.5	29.0	22.6	16.9	23.1	27.2	3.3	T.	124.6
Onaway (near)			10.5	52.5	13.5	16.0	23.5	8.5		104.5
Port Huron		T.	0.3	33.1	16.7	5.4	10.4	0.0		65.9
Roscommon (near)		2.5	6.0	12.2	9.2	6.5	16.7	2.8		55.9
Saginaw		T.	0.1	26.7	11.0	6.6	11.7	0.9		57.9
Sault Ste. Marie		2.3	34.5	13.7	11.8	16.9	8.6	2.2		90.0
Seney	(*)	(*)	(*)	(*)	13.0	10.5	21.0	T.		
Sidnaw	T.	16.5	16.6	25.8	16.1	35.3	3.5	0.2		114.0
Traverse City	T.		9.0	12.0	17.2	14.7	19.7	5.0		77.6
Whitefish Point		T.	23.0	24.5	18.5	11.5	17.0	0.5		95.0
Minnesota										
Albert Lea		3.0	T.	9.0	19.0	8.0	2.0			41.0
Alexandria		1.5	0.8	(*)	7.2	4.5	6.0			
Angus		0.9	1.6	9.0	2.1	11.0	1.7			26.3
Artichoke Lake		0.5	3.0	2.5	4.5	3.0	0.5			14.0
Baudette	T.	1.0	13.0	10.8	3.2	19.2	7.7	T.	T.	54.9
Bird Island		1.0	6.5	1.7	10.9	1.9	1.0			23.0
Campbell		5.0	9.0	9.0	10.5	6.5	2.0			42.0
Collegeville		0.5	3.2	9.5	9.1	8.5	4.0			34.8
Duluth		0.3	4.7	12.6	5.4	19.5	3.0	1.5		47.0
Fairmont		4.5	3.0	5.0	9.8	5.0	1.5			28.8
Fort Ripley		7.0	1.6	7.0	7.0	13.9	2.5			39.0
Gonvick (near)		T.	3.5	7.5	1.8	17.0	2.2			32.0
Grand Meadow		3.5	3.0	5.3	10.0	3.2	3.5	T.		28.5
Grand Rapids	T.	T.	3.0	12.5	6.8	16.2	6.5			45.0
Hallock		(*)	3.0	15.0	1.0	16.2	0.5	T.		
Itasca State Park		3.0	4.5	10.0	9.5	12.8	6.0	T.		45.8
Leech Lake Dam	T.	0.4	4.5	8.7	7.8	21.2	13.1		T.	55.7
Mapleplain		2.0	5.8	8.2	17.1	8.0	6.8			47.9
Meadowlands		T.	(*)	4.5	2.5	(*)	0.5			
Minneapolis (Weather Bureau)		1.9	2.7	5.3	11.0	4.8	1.8			27.5
Montevideo		1.0	2.0	5.0	10.0	5.0	2.0			25.0
Moorhead		4.8	12.2	11.3	6.6	10.6	3.1	0.6	T.	49.2
Mora		1.0	1.5	3.5	8.0	8.0	2.8		T.	24.8
Morris		1.0	2.0	3.0	4.0	2.5	(*)			
New London		T.	6.2	2.0	7.0	5.0				20.2
Park Rapids		5.0	(*)	10.1	13.0	13.8	11.3	T.		
Pigeon River Bridge		T.	5.0	14.4	14.0	22.0	21.0	T.	1.0	77.4
Pine River Dam		T.	2.8	8.0	7.5	17.0	5.0	T.		40.3
Roseau	T.	T.	6.0	4.0	3.0	16.0	3.0	T.	T.	32.0
St. Paul		2.0	2.8	6.3	13.8	7.6	4.0	T.		36.5
St. Peter		2.7	4.7	6.5	12.6	3.7	0.7			30.9
Sandy Lake Dam	T.	T.	5.4	9.8	7.4	15.2	9.2			47.0
Thief River Falls		0.3	2.8	12.5	1.1	21.7	4.3	T.		42.7
Two Harbors		(*)	7.5	21.5	9.0	19.5	6.0			
Virginia	T.	1.5	5.7	9.8	5.9	15.9	5.3	T.	T.	44.1
Winnibigoshish		1.3	5.6	17.1	11.4	25.6	11.2		T.	72.2
Winona		2.5	0.6	6.8	17.8	2.0	2.3			32.0
Worthington		5.5	2.0	2.0	10.1	5.0	0.1			24.7
Zumbrota		3.0	0.2	8.2	11.0	3.1	4.5			30.0
Mississippi										
Aberdeen			5.0	5.5	1.0		T.			11.5
Agricultural College			8.0	10.0	1.0					19.0
Anguilla			4.0	12.5	2.0					18.5

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Mississippi—Continued										
Batesville			5.9	6.0	3.5					15.4
Bay St. Louis				T.						T.
Booneville			(*)	8.0	3.0		T.			
Brookhaven				8.0	1.0					9.0
Clarksdale			6.0	7.5	2.0	(*)	(*)			
Columbus			(*)	8.5	0.5					
Corinth			5.5	9.2	2.0					16.7
Duck Hill			4.0	13.1	3.1					20.2
Greenville			5.0	10.2	3.0					18.2
Greenwood			3.0	9.0	2.5					14.5
Hattiesburg				2.5	T.					2.5
Hernando			4.5	12.2	7.5		T.			24.2
Holly Springs			4.5	6.5	2.5		T.			13.5
Jackson				8.0	1.2		T.			9.2
Kosciusko			T.	10.5	1.5		T.			12.0
Lake				6.0	3.4					9.4
Macon				8.1	1.5					9.6
Magnolia				6.0	T.					6.0
Meridian				6.9	4.5					11.4
Natchez				8.0						8.0
Pontotoc			7.0	13.0	2.0					22.0
Port Gibson				8.0	2.9					10.9
Rosedale			6.0	10.0	4.5					20.5
Stoneville			5.0	9.2	3.0					17.2
Swan Lake			7.0	9.0	2.5					18.5
Tupelo			6.0	10.0	2.0		T.			18.0
University			6.0	7.3	4.0					17.3
Vicksburg				8.9	1.0		T.			9.9
Water Valley			4.5	8.0	3.0		T.			15.5
Waynesboro				4.0						4.0
Woodville				6.0	T.					6.0
Yazoo City				8.0	0.6					8.6
Missouri										
Appleton City			T.	1.1	9.2	0.2	T.			10.5
Arcadia			T.	1.8	7.5	T.	T.			9.3
Clinton			T.	2.0	8.5	1.5				10.5
Columbia		T.	3.0	3.5	8.5	3.4	3.7			22.1
Doniphan			T.	5.6	10.0					15.6
Eldon			2.0	3.0	11.6	2.6	1.2			20.4
Hannibal		0.3	2.0	2.7	11.6	1.8	1.0	T.		19.4
Harrisonville			T.	3.5	13.0		T.			16.5
Hermann			4.3	3.8	12.8	3.5	1.8			26.2
Jackson			T.	3.5	6.5		3.2			13.2
Kansas City			0.1	2.7	22.2	1.2	T.			26.2
Kidder			3.0	3.5	14.5	2.0	0.5			23.5
Kirksville		T.	1.5	3.0	14.7	0.7	2.8			22.7
Koshkonong			T.	6.0	14.0		T.			20.0
Lebanon			T.	3.5	10.5		0.5			14.5
Lexington			4.0	4.5	30.5	2.0	T.			41.0
Macon		T.	9.5	8.0	19.0	2.0	2.0			40.5
Marshall		T.	5.0	7.5	15.5	3.0	T.			31.0
Maryville			4.5	2.0	16.5	0.5	0.5			24.0
Mexico		T.	8.0	3.8	14.2	4.0	2.5			32.5
Mountain Grove			T.	1.5	8.5	T.	T.			10.0
Neosho			T.	1.5	25.0		T.			26.5
Nevada			T.	1.5	13.5					15.0
New Madrid			0.5	8.1	3.6					12.2
Poplar Bluff				8.5	8.8					17.3
Rolla			0.2	4.0	8.0	1.5	0.8			14.5
St. Charles		T.	6.0	7.0	13.2	5.0	3.0			34.2
St. Joseph			3.2	1.3	13.9	2.5	0.1			21.0
St. Louis (Weather Bureau)		T.	6.5	6.7	11.0	4.2	1.5			29.9
Springfield			T.	4.6	11.0	T.	0.5			16.1
Tarkio			7.0	1.0	20.0	1.0				29.0
Unionville		T.	1.0	5.5	22.0	T.	15.0			43.5
Warsaw			T.	1.0	12.0	0.5	T.			13.5

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Montana										
Babb (near)	0.5	16.0	13.0	27.0	17.0	1.0	17.0	T.	8.0	99.5
Belton	------	T.	1.0	51.8	19.8	14.0	2.0	------	------	88.6
Big Timber	------	2.0	8.0	15.0	5.0	5.0	9.0	------	------	44.0
Browning	T.	2.0	6.0	34.5	1.0	1.0	16.5	------	T.	[1]61.0
Butte	------	0.5	2.3	7.8	12.2	4.8	12.2	0.1	T.	[1]39.9
Canyon Ferry	------	------	10.3	21.2	10.5	1.2	17.0	------	------	60.2
Choteau	------	------	T.	26.5	4.0	0.6	14.0	------	T.	45.1
Copper	3.0	3.0	10.0	31.0	11.0	7.5	5.7	T.	3.0	[1]74.2
Crow Agency	------	8.0	1.0	1.5	5.5	2.0	8.0	------	------	26.0
Dillon	T.	T.	9.5	4.3	14.5	15.8	0.8	T.	T.	44.9
Dunkirk (near)	------	0.5	T.	15.0	1.5	T.	4.5	------	T.	21.5
Fortine	------	T.	1.0	36.4	5.2	4.8	1.5	------	------	48.9
Geraldine (near)	------	1.5	17.9	32.5	6.5	2.3	16.5	1.5	T.	78.7
Glasgow	------	1.2	4.1	16.5	2.9	4.9	0.3	------	------	29.9
Glendive	------	4.0	4.4	12.5	2.0	4.0	T.	------	------	26.9
Great Falls	------	------	13.4	20.0	13.4	1.7	10.2	------	------	58.7
Haugan	------	(*)	------	30.1	28.7	7.6	2.6	------	------	------
Havre	------	T.	0.2	21.9	3.6	2.4	7.3	T.	T.	35.4
Hebgen Dam	T.	0.5	25.0	17.2	39.0	34.5	14.7	3.0	------	133.9
Helena	T.	0.3	4.6	31.3	13.3	3.2	16.5	------	T.	69.2
Ingomar (near)	------	2.2	3.3	5.7	3.6	0.6	1.5	------	------	16.9
Kalispell	------	T.	1.5	21.6	8.4	3.0	1.8	------	------	36.3
Lewistown	------	10.0	31.2	30.2	14.4	1.6	10.0	------	------	97.4
Libby	------	------	T.	34.5	12.1	2.2	2.5	------	------	51.3
Livingston	------	------	5.5	9.0	7.0	3.5	6.5	------	------	31.5
Loweth	2.5	0.5	11.0	28.5	14.5	1.0	14.5	------	3.5	76.0
Lytle	T.	2.1	6.3	18.0	6.0	1.0	14.5	------	T.	47.9
Malta	------	T.	2.0	20.0	0.6	2.4	1.0	------	------	26.0
Miles City	------	1.6	3.9	6.1	4.9	0.4	1.9	------	------	18.8
Missoula	------	------	3.0	5.8	11.6	5.5	5.5	------	------	31.4
Mystic Lake	4.0	8.0	18.7	12.5	8.4	9.0	24.0	T.	T.	84.6
Ovando	T.	------	3.5	27.5	10.5	18.0	6.0	------	T.	65.5
Philipsburg	T.	1.0	3.0	11.0	17.0	14.1	10.5	5.4	2.5	64.5
Plevna	------	0.6	7.0	10.5	5.5	0.4	0.2	------	------	24.2
Poplar	------	T.	3.0	10.0	2.0	6.5	T.	------	------	21.5
Red Lodge (near)	1.5	8.1	36.5	7.0	4.0	9.0	32.0	------	0.5	98.6
St. Ignatius	------	------	2.2	9.5	14.9	1.7	8.7	------	------	37.0
Springbrook	------	T.	4.3	21.1	11.0	5.8	0.5	------	------	42.7
Stanford	------	1.0	20.2	18.5	7.0	6.5	17.0	------	1.5	71.7
Sun River Canyon	18.0	3.0	8.0	33.5	4.0	4.0	19.0	------	T.	[1]89.5
Trout Creek (near)	------	------	0.5	21.4	25.4	10.0	0.2	------	------	57.5
Upper Yaak River	------	------	2.4	47.2	7.0	9.5	1.0	------	------	67.1
Virginia City	3.0	1.0	9.0	7.0	6.0	8.0	6.0	------	3.0	43.0
Winifred	------	T.	4.5	24.0	4.0	3.0	3.0	------	------	38.5
Nebraska										
Albion	------	T.	10.0	1.0	11.0	3.0	2.0	------	T.	27.0
Auburn	------	------	6.0	1.0	13.5	2.0	T.	------	------	22.5
Beatrice	------	------	3.0	T.	11.5	1.5	T.	------	------	16.0
Beaver City	------	------	8.2	T.	6.1	0.7	2.0	------	------	17.0
Broken Bow	------	0.2	4.5	------	6.2	2.0	3.0	------	6.0	21.9
Central City	------	T.	0.2	------	8.0	0.4	1.0	------	------	9.6
Chadron	------	6.8	6.9	0.3	6.9	4.7	12.2	T.	T.	37.8
Columbus	------	------	8.0	T.	4.1	1.0	2.2	------	------	15.3
Curtis	------	T.	13.0	------	12.0	------	6.0	1.5	3.0	35.5
Dumas	------	2.0	5.0	3.0	5.5	1.7	4.5	------	4.0	25.7
Geneva	------	------	6.0	------	17.0	0.5	1.5	------	------	25.0
Gordon	1.0	8.0	3.0	T.	8.0	3.0	3.0	------	3.0	29.0
Gosper	------	T.	10.0	T.	3.0	0.3	1.5	3.0	2.0	19.8
Hartington	------	T.	6.0	4.0	8.0	3.0	5.5	3.0	------	29.5
Hay Springs	2.0	11.0	17.5	0.5	7.0	6.7	10.5	------	2.5	57.7
Hebron	------	------	4.0	------	14.0	T.	T.	------	------	14.0
Holdrege	------	------	9.0	------	6.5	T.	2.0	1.0	T.	18.5
Imperial	------	5.2	12.5	T.	11.2	4.5	1.9	------	2.0	37.3
Kimball	T.	6.0	13.0	------	5.5	7.0	7.0	------	4.5	43.0

[1] Trace in June, 1930.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Nebraska—Continued										
Lincoln (Weather Bureau)			2.7	0.2	9.7	1.5	T.			14.1
Minden			2.0		2.5	T.	T.			4.5
Nenzel	1.0	8.0	10.5	0.5	9.0	5.5	10.5		2.0	47.0
Newport		5.0	9.5	2.0	5.0	1.0	2.5	T.	T.	25.0
North Loup		0.8	1.2	0.3	9.0	0.4	2.7	T.		14.4
North Platte		4.5	3.7	0.2	5.7	0.2	3.0	0.3	3.1	20.7
Oakdale		0.3	5.1	0.9	8.7	1.5	2.1	T.	0.2	18.8
Omaha			8.5	2.0	17.3	1.6	0.7			30.1
O'Neill		5.0	8.0	T.	9.5	1.0	4.0		2.0	29.5
Oshkosh		T.	4.5	T.	6.0	6.5	1.0	T.	T.	18.0
Pawnee City			2.3	0.6	5.8	0.5	T.			9.2
Ravenna			2.0		9.0		0.2		T.	11.2
Scottsbluff	T.	9.5	5.9	T.	6.7	2.2	2.2		T.	26.5
Stanton			7.0	1.0	8.0	2.5	5.0			23.5
Valentine	T.	13.9	15.0	6.5	13.4	7.0	10.2	6.0	5.5	77.5
Wakefield			13.3	0.2	6.0	3.0	T.			22.5
Nevada										
Alamo					8.0	T.	(*)			
Arthur				2.4	42.1	10.9	10.7	2.3	9.6	78.0
Austin				T.	18.5	12.5	11.0	2.0	13.0	57.0
Beatty					6.5	3.5	1.0			11.0
Beowawe		T.			24.5	0.5	2.0	T.	T.	27.0
Carson City					22.0	8.0	3.0	4.0	T.	37.0
Elko				T.	29.0	4.0	2.0	T.	2.0	37.0
Fallon					4.0	(*)	2.5			
Golconda					16.0	1.0	2.5		2.0	21.5
Hylton		T.		T.	23.5	10.5	4.0	T.	10.0	48.0
Kimberly				T.	18.0	17.0	10.0	4.0	26.0	75.0
Las Vegas					12.0					12.0
Minden					13.0	2.0	2.0	3.0	T.	20.0
Montello				4.0	9.0	2.5	2.0	T.	2.0	19.5
Nixon					1.8	0.1	0.3		0.4	2.6
North Fork				4.0	17.0	2.0	6.0	T.	7.0	36.0
Orovada					37.0	2.0	T.		2.0	41.0
Owyhee		T.	T.	3.0	27.0	8.0	1.8	3.0	8.0	50.8
Reno					16.7	1.1	2.1	0.8	1.5	22.2
Rye Patch				2.0	10.5	7.0	8.5		2.0	30.0
Sand Pass					9.0	T.	T.		T.	9.0
Schurz					6.2	1.5			2.0	9.7
Searchlight					13.0					13.0
Sharp					28.0	7.0	9.0			44.0
Smith					19.5	1.0		7.0		27.5
Thorne					2.0					2.0
Tuscarora (near)		1.0	1.0	7.7	35.0	8.5	16.0	1.0	20.0	90.2
Winnemucca		T.		T.	25.5	0.8	2.5	T.	1.8	30.6
Yerington					7.0	T.	1.0			8.0
New Hampshire										
Berlin		0.2	8.5	30.3	14.6	13.7	10.7	0.2		78.2
Bethlehem			1.0	16.0	11.0	10.0	10.0	6.0		54.0
Concord			1.5	10.6	10.1	6.6	1.7	1.0		31.5
Durham			0.5	14.5	11.2	11.0	0.5			37.7
Franklin			1.5	15.5	11.5	8.0	1.8	0.5		38.8
Hanover		T.	2.0	15.2	14.0	5.1	2.7	1.5		40.5
Keene		T.	2.3	15.0	12.9	11.5	0.5	0.5		42.7
Pittsburg (a)		12.7	9.8	41.6	29.4	22.5	36.2	15.5		167.7
Plymouth		T.	4.0	18.0	19.0	9.5	3.5	3.0		57.0
New Jersey										
Atlantic City			0.4	0.1	7.0	3.6	T.			11.1
Belvidere		T.	0.5	8.8	9.8	2.0	T.			21.1
Cape May			2.1	0.5	8.9	5.7	T.	T.		17.2
Charlotteburg		T.	1.5	6.0	6.0	4.5	0.2			18.2

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
New Jersey—Continued										
Dover		T.	1.0	6.5	8.0	3.9	0.5	T.		19.9
Flemington		T.	T.	9.0	7.5	2.0	0.5	T.		19.0
Indian Mills		T.	T.	4.0	7.8	5.5	T.			17.3
Lakewood			T.	T.	6.0	5.0	T.	T.		11.0
Layton		T.	0.7	9.5	11.5	4.0	T.	T.		25.7
Newton		T.	0.5	8.0	6.1	8.5	T.	T.		23.1
Plainfield		T.	0.1	8.5	6.1	3.3	0.2	T.		18.2
Ridgefield		T.	T.	8.8	6.0	4.0	0.1	T.		18.9
Sandy Hook			T.	1.6	2.4	4.1	T.			8.1
Trenton			T.	2.9	3.1	2.7	T.	T.		8.7
New Mexico										
Agricultural College				3.5						3.5
Albuquerque				2.5	0.1		T.			2.6
Aspen Grove Ranch		24.0	12.0	1.0	52.0	12.0	26.0	T.	5.0	132.0
Aztec		T.	4.5	2.0	14.0	1.5	5.5	T.		27.5
Batemans Ranch		14.0	19.9	2.7	26.3	7.0	28.6	3.4	18.0	119.9
Bell Ranch		T.	5.0	1.9	2.6		0.9		T.	10.4
Black Lake		6.5	7.2	3.2	15.8	10.0	17.5		2.7	62.9
Blackrock		T.	1.0	T.	10.3	4.0	4.3	T.	3.0	22.6
Carlsbad		T.	0.5	1.5	0.5		T.			2.5
Carrizozo		T.	1.3	T.	7.5	3.0	6.0			17.8
Carson Seep Ranger Station		3.0	1.8	5.0	2.0	0.5	3.0		T.	15.3
Chacon		10.5	17.0	2.0	13.0	12.0	21.5		1.0	77.0
Chama		5.0	5.0	1.0	51.0	3.0	18.0	3.0	7.0	93.0
Cimarron		2.0	8.0	0.5	4.5	T.	7.0		1.0	23.0
Clayton		T.	13.5	1.2	3.0	T.	6.0			23.7
Clouderoft		11.5	16.5	5.0	21.5	5.0	9.0	T.	9.0	77.5
Cloverdale		2.0	T.		6.5	1.0			T.	9.5
Clovis			8.0	T.	4.0		4.8			16.8
Columbus				4.0						4.0
Cuervo		T.	12.0		0.5		2.0			14.5
Datil		0.2	3.0	3.5	13.0	1.6	6.0		0.1	27.4
Des Moines		10.5	11.0	4.0	4.0	1.0	13.0	T.	T.	43.5
Duran		0.3	6.5	2.0	6.5	5.0	6.0		1.0	27.3
Eagle Rock Ranger Station		9.0	10.2	2.5	10.0	2.6	12.5		2.0	48.8
Elephant Butte Dam							4.0			4.0
Fort Bayard		T.	2.3	0.4	3.2	3.0	3.0			11.9
Fort Sumner			8.5	2.5	2.2		T.			13.2
Gamerco		0.5	2.0	0.2	18.5	4.2	7.8	T.	3.0	36.2
Gavilan		8.0	6.5	3.8	34.3	4.3	10.4	T.	4.6	71.9
Hobbs		T.	T.	1.0	3.0		T.			4.0
Hope		T.	6.0	1.5	2.5		1.5			11.5
Ione		T.	7.0	3.0	4.0		3.8		3.0	20.8
Jemez Springs		6.2	8.9	2.8	15.9	0.5	3.5		0.5	38.3
Las Vegas		1.0	11.2	1.0	2.6	2.5	4.5			22.8
Levy		11.0	29.1	2.0	4.0		12.0		4.0	62.1
Logan		2.0	14.0	4.0	3.0		0.5			23.5
Lordsburg					2.0					2.0
Luna Ranger Station		2.0	3.0	1.5	28.0	1.2	5.0		2.0	42.7
McGaffey Ranger Station		5.0	4.5	2.4	33.6	15.6	17.9	0.5	18.0	97.5
Mills		4.0	11.0	1.5	2.5		2.5		5.0	26.5
Orogrande		T.	1.0	4.0						5.0
Pasamonte			0.2	0.5	4.0		7.0			11.7
Ramah		T.	7.0	1.0	2.0	2.5	1.0		9.0	22.5
Raton (near)		7.0	12.0	3.5	4.0	T.	9.0		T.	35.5
Red River Canyon		9.0	19.0	5.0	36.0	15.0	42.0	5.0	12.0	143.0
Regina		4.0	7.0	8.0	26.0	9.0	8.2		7.0	69.2
Roswell			7.6		2.4		0.9			10.9
San Fidel		2.5	3.0	1.4	3.8	0.5	3.1		T.	14.3
Santa Fe		9.2	8.3	1.6	7.9	2.6	2.2	T.	T.	31.8
Shiprock				1.5	5.2	2.0	3.0		T.	11.7
Socorro			2.5	T.	1.3	T.	6.0			9.8
Tajique (near)		9.5	11.8	5.0	9.6	1.6	14.1	T.	1.0	52.6

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
New Mexico—Continued										
Taos		2.7	6.5	2.5	6.8	2.5	4.5		1.5	27.0
Tatum		3.0		1.0	5.1		4.0			13.1
Taylor		4.0	11.0	2.0	4.0	T.	9.0		T.	30.0
Truchas		9.4	10.6	3.0	7.5	3.0	10.4	T.		43.9
Tucumcari (No. 1)			12.0	1.5	1.5	T.	4.0			19.0
Tularosa			1.0	0.8	1.0		T.			2.8
Winsors Ranch		5.0	14.0	1.0	27.0	14.0	19.0	T.	2.3	82.3
New York										
Albany		T.	T.	9.4	8.3	5.9	1.1	0.1		24.8
Alfred		1.0	5.2	18.8	6.1	6.7	22.4	7.5		67.7
Allegany State Park		T.	7.5	19.5	9.8	11.5	19.3	9.0		76.6
Auburn		T.	1.1	21.7	10.1	8.8	9.8	6.2		57.7
Binghamton		T.	1.6	14.6	7.7	3.7	2.4	2.7		32.7
Brockport		T.	5.0	27.0	12.0	14.5	25.0	4.0		87.5
Buffalo		T.	3.6	31.1	20.0	10.1	10.3	3.9		79.0
Cairo		T.	1.0	8.9	9.0	7.3	T.	T.		26.2
Canton		0.3	1.6	22.3	14.4	7.4	16.1	4.7		66.8
Cutchogue		T.	T.	8.0	6.0	10.5	T.			24.5
Dannemora		T.	3.7	36.5	15.5	7.5	33.0	1.0		97.2
Dansville		T.	4.4	11.7	7.7	3.7	8.0	0.5		36.0
Elmira		T.	1.5	13.5	7.0	7.3	4.0	0.8		34.1
Fredonia		T.	14.3	10.7	5.0	3.4	11.5	4.0		48.9
Geneva			2.3	19.8	7.9	8.7	10.9	4.1		53.7
Glens Falls			0.5	17.5	(*)	9.5	T.	T.		
Gloversville		T.	1.0	(*)	12.0	20.0	4.5	1.5		
Indian Lake		1.0	5.3	(*)	15.3	9.0	31.0	4.0		
Ithaca		0.1	0.3	13.3	7.2	7.2	12.8	4.7		45.6
Jamestown		T.	16.5	14.4	7.6	9.9	26.0	11.4		85.8
Jeffersonville		T.	1.0	11.5	8.0	7.5	T.	T.		28.0
Lake Placid Club		4.0	10.0	24.0	24.0	8.0	34.0	15.0		119.0
Little Falls (No. 1)			0.5	19.5	10.0	16.5	9.0	3.0		58.5
Lockport			2.0	24.5	10.0	9.0	10.5	2.0		58.0
Lowville			36.0	20.5	16.5	17.5	17.5	4.0		112.0
Morrisville			4.0	37.5	10.8	9.5	7.8	3.0		72.6
Mount Vernon		T.	T.	10.2	5.4	4.9	0.3	T.		20.8
New York		T.	T.	4.3	4.0	3.7	T.	T.		12.0
North Lake		1.0	21.0	51.5	37.5	25.0	47.5	13.0		196.5
Norwich		T.	1.5	22.5	11.6	14.4	8.2	(*)		
Oneonta		T.	T.	17.0	7.2	10.5	3.3	2.0		40.0
Oswego		T.	20.5	21.0	14.7	16.3	9.2	0.1		81.8
Port Jervis		T.	1.0	11.0	11.0	7.6	1.0			31.6
Rochester		T.	1.3	19.3	6.2	12.6	17.8	2.3		59.5
Setauket				12.9	2.6	7.0	T.			22.5
Sharon Springs (No. 2)			2.0	21.0	(*)	16.0	9.0	5.0		
Syracuse		T.	1.2	21.1	6.0	4.7	6.3	4.4		43.7
Taberg				25.0	13.0	30.0	11.0	(*)		
Wanakena		2.4	19.4	27.3	16.0	18.7	23.6	7.8		115.2
Wappingers Falls		T.	1.0	9.6	8.1	6.9	T.	T.		25.6
Warwick			T.	10.0	8.0	6.0	T.	T.		24.0
Watertown		T.	19.8	30.4	48.1	18.7	21.0	0.8		138.0
West Berne			T.	20.0	6.0	9.0	3.0	(*)	(*)	
North Carolina										
Altapass			2.0	9.5	10.0	T.	3.8			25.3
Andrews			3.0	6.1	7.5	0.4				17.0
Asheville			1.0	3.2	8.7	T.	0.5			13.4
Banners Elk			2.0	5.0	14.0	1.0	5.0			27.0
Beaufort					T.					T.
Boone			5.7	13.0	10.5	(*)	4.0			
Brevard			0.5	4.0	8.0	0.5	T.			13.0
Caroleen				3.0	9.0					12.0
Charlotte			T.	2.3	6.0					8.3
Cullowhee			1.5	6.0	8.0	T.	1.0			16.5

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
North Carolina—Contd.										
Elizabeth City					2.8	0.5				3.3
Elkin			1.5	6.0	11.0	(*)	T.			
Fayetteville			T.	1.5	3.0					4.5
Goldsboro			T.	1.0	3.0		T.			4.0
Greensboro (Weather Bureau)			T.	1.1	8.0	T.	0.5			9.6
Hatteras					T.		T.			T.
Henderson			T.	0.5	6.2					6.7
Hendersonville			T.	5.5	10.0	1.0	T.			16.5
Hickory			T.	4.0	9.5	T.				13.5
Hot Springs			T.	4.5	10.5	T.	0.2			15.2
Jefferson			3.5	7.5	14.5	T.	4.5			30.0
Lenoir			1.5	6.0	14.5					22.0
Lumberton				T.	2.0					2.0
Marshall			T.	7.0	12.0	T.	T.			19.0
Moncure				T.	3.5					3.5
Montreat				5.0	12.0	T.	2.0			19.0
Mount Mitchell			5.0	(*)	(*)	2.0	22.0	4.0		
Newbern			T.	0.3	0.1					0.4
Oxford			T.	0.2	7.2					7.4
Parker			(*)	12.7	10.6	7.2	18.3	T.		
Pinehurst				0.2	3.5					3.7
Raleigh (Weather Bureau)				T.	3.6	T.	0.2			3.8
Rock House (No. 1)			0.5	3.5	10.0	1.7	1.3			17.0
Rockingham				1.0	2.5					3.5
Sloan			T.	0.5	2.0					2.5
Tarboro					3.5	T.				3.5
Weldon			T.	T.	3.5	T.				3.5
Wenona				T.	2.0		T.			2.0
Wilmington				T.	0.4					0.4
Winston-Salem			T.	3.0	8.0					11.0
North Dakota										
Amenia		6.0	3.0	1.0	0.8	12.9	2.5			26.2
Arnegard		1.5	7.0	19.5	3.0	11.5	1.0	3.0	3.0	49.5
Ashley		10.0	5.0	8.0	7.0	13.0	2.0			45.0
Beach		1.4	5.5	10.0	3.0	3.0	0.1	T.	0.4	23.4
Berthold Agency		3.5	1.0	9.5	T.	35.0	T.		T.	49.0
Bismarck		4.8	2.1	13.8	2.7	10.6	T.	1.2	1.5	36.7
Bowman		0.3	5.0	10.5	10.5	3.0	T.	T.		29.3
Carson		5.0	2.5	8.0	3.0	11.2	0.5		2.0	32.2
Crosby		8.0	3.0	7.0	2.5	4.5			1.0	26.0
Devils Lake		9.7	11.2	12.6	0.7	11.6	2.1	T.	T.	47.9
Dickinson		2.5	4.1	15.8	6.4	12.9	0.4		1.7	43.8
Dunn Center		2.0	2.0	15.0	T.	18.0	T.		1.0	38.0
Dunseith		4.5	9.5	8.5	2.5	10.0	2.5	T.	2.0	39.5
Ellendale		7.3	2.7	4.9	4.1	6.8	0.2	1.8	T.	27.8
Fessenden		2.5	13.5	13.0	2.5	17.5	2.0			51.0
Fryburg		2.0	8.0	13.0	5.5	9.0	1.0	T.	T.	38.5
Fullerton		17.5	4.1	8.3	5.6	16.6	1.3	1.5		54.9
Grafton		5.2	2.7	11.7	3.0	17.5	4.9			45.0
Grand Forks		5.2	6.9	6.7	4.1	17.9	3.3	T.	T.	44.1
Hettinger		0.3	3.8	2.5	2.0	6.2	T.		T.	14.8
Jamestown		9.5	5.2	10.0	2.8	8.8	0.6	T.		36.9
Langdon		5.0	16.0	6.5	5.0	25.0				57.5
Larimore		11.0	13.2	13.0	1.5	16.8	2.2	0.5	1.0	59.2
McLeod		1.5	1.7	3.7	3.3	4.1	1.2	T.		15.5
Minot		5.9	3.9	7.4	0.8	9.1	0.2			27.3
Mott		5.0	3.0	10.0	11.0	14.0	1.0			44.0
Napoleon		4.0	7.0	8.0	3.0	12.0	1.0			35.0
Pembina		4.0	10.0	11.0	2.0	24.0				51.0
Powers Lake		4.0	7.1	13.5	5.0	10.3	2.3		5.5	47.7
Steele		6.2	3.0	17.0	2.5	10.0	T.		1.0	39.7
Valley City		7.0	4.0	3.3	2.8	12.6		T.		29.7
Westhope		4.0	1.0	3.0	0.6	0.0	T.		1.5	13.1
Williston		1.8	4.9	12.9	1.9	12.7	0.6	0.5	2.5	37.8
Willow City		8.0	8.0	6.0	T.	13.0	T.		T.	35.0

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Ohio										
Akron		T.	3.2	10.8	5.3	1.8	6.3	2.0		29.4
Amesville		T.	0.8	7.8	6.5	1.0	6.0	T.		22.1
Ashland		T.	1.5	12.5	2.5	1.5	8.5	0.5		27.0
Bellefontaine		T.	1.0	12.0	11.5	2.5	4.5	T.		31.5
Cadiz			1.8	15.4	9.5	1.0	16.0	T.		43.7
Canton			1.5	10.0	7.3	1.6	9.7	1.0		31.1
Cincinnati (Abbe Observatory)		T.	0.8	7.1	5.2	1.5	2.3			16.9
Cleveland (Weather Bureau)		T.	6.9	6.9	5.5	4.8	4.3	T.		28.4
Columbus (Weather Bureau)		T.	T.	10.7	4.9	0.7	4.1	T.		20.4
Cortland		T.	8.0	11.5	6.0	4.0	6.5	3.0		39.0
Dayton		T.	0.7	7.4	4.9	0.7	3.5	T.		17.2
Demos		T.	0.6	7.4	2.5	0.5	7.0	0.2		18.2
Holgate		T.	1.5	11.5	8.5	2.0	7.3	T.		30.8
Ironton			0.9	9.8	4.9	1.0	1.5			18.1
Lancaster		T.	0.2	10.5	6.2	T.	2.6	T.		19.5
McArthur		T.	0.5	8.2	7.8	T.	8.5	T.		25.0
Marietta (No. 1)			T.	9.7	6.8	0.5	3.6			20.6
Marion		T.	1.0	11.5	9.5	0.5	4.0			26.5
Millersburg		T.	1.0	8.0	4.5	3.5	5.2	0.2		22.4
Millport		T.	1.0	10.7	4.5	2.1	7.5	0.3		26.1
Mount Vernon (near)		T.	2.0	9.2	5.5	0.7	2.8	T.		20.2
New Bremen		T.	T.	10.0	4.5	0.5	2.2	T.		17.2
Oberlin			T.	10.5	6.4	1.9	1.5	T.		20.3
Peebles (near)		T.	T.	10.5	5.0	T.	5.0			20.5
Sandusky		T.	0.9	11.5	5.3	2.2	7.5	T.		27.4
Tiffin		T.	0.2	13.4	7.5	1.1	6.1	T.		28.3
Toledo		T.	0.9	15.2	7.3	2.5	4.4	T.		30.3
Urbana		T.	T.	6.1	8.6	0.4	1.0	(*)		
Van Wert		T.	1.0	12.6	7.8	0.9	0.3	T.		22.6
Washington Courthouse		T.	1.0	5.0	3.0	T.	2.0	T.		11.0
Wauseon		T.	1.0	19.0	11.5	1.0	4.5	T.		37.0
Youngstown			1.5	10.5	5.9	2.1	4.0	T.		24.0
Zanesville			0.2	8.1	4.5	0.3	5.5			18.6
Oklahoma										
Ada					12.0					12.0
Altus					13.0					13.0
Alva			2.0	T.	20.0		T.			22.0
Antlers					5.0					5.0
Ardmore					6.2					6.2
Beaver			17.0		1.4					18.4
Blackwell					9.4					9.4
Broken Arrow			T.	0.5	12.6		T.			13.1
Buffalo			8.0	(*)	8.0					
Carnegie					11.6					11.6
Chandler			0.5	T.	19.5					20.0
Chickasha			T.		9.0					9.0
Durant			T.		3.3					3.3
Enid		T.	T.		22.7					22.7
Erick			2.5	1.0	13.0		T.			16.5
Hammon			4.5		13.9		T.			18.4
Holdenville			T.		10.3					10.3
Hugo			T.		(*)					
Idabel			1.0		3.0					4.0
Kenton		0.8	11.8	2.3	3.5	0.6	7.6			26.6
Kingfisher			0.5		17.5					18.0
Lawton					11.0					11.0
Muskogee					7.4					7.4
Okeene			T.		13.4		T.			13.4
Oklahoma City			0.4	T.	8.4		T.			8.8
Okmulgee					19.0					19.0
Paula Valley			T.		12.5					12.5
Pawhuska			T.	0.5	20.0		T.			20.5
Poteau			(*)	(*)	5.0		T.			

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Oklahoma—Continued										
Shawnee					15.1					15.1
Stillwater			T.		19.2					19.2
Sulphur			T.		18.1					18.1
Tulsa			0.5	T.	12.3		T.			12.8
Tuskahoma			T.		2.1					2.1
Vinita				0.2	16.0					16.2
Waurika			T.	T.	(*)					
Weatherford			0.5		10.5		T.			11.0
Woodward			2.5	T.	6.1		T.			8.6
Oregon										
Ashland					15.5	T.	T.			15.5
Astoria					8.3					8.3
Baker		T.	0.7	15.5	16.7	5.5	0.2		T.	38.6
Bend				7.0	21.0	2.5	2.0	T.	T.	32.5
Cascade Summit		1.0	9.0	24.0	44.0	20.0	21.0	1.0	3.0	[1] 123.0
Chiloquin			0.2	1.0	28.0	4.7	8.5		T.	42.4
Cornucopia		1.0	2.0	24.7	63.9	45.3	10.3	T.	0.5	147.7
Corvallis					7.8					7.8
Cruzatte			5.5	22.5	46.0	22.5	13.0	1.0	4.5	115.0
Dayville				1.0	8.5	0.2	0.2			9.9
Detroit				4.5	29.5	2.0				36.0
Eugene					9.5	T.				9.5
Fall River			T.	9.1	34.8	6.5	2.0		1.0	53.4
Falls City					22.5					22.5
Fish Lake			2.0	1.5	41.5	18.8	7.8	7.5	9.5	88.6
Forest Grove					25.7					25.7
Government Camp		T.	(*)	55.0	46.0	28.5	29.5	(*)	(*)	
Grants Pass					27.5					27.5
Heppner				5.5	26.0	3.5	T.			35.0
Hood River				T.	31.5	1.5				33.0
Joseph			T.	7.1	20.0	16.5	4.5			48.1
Klamath Falls					23.8	3.0	1.0		T.	27.8
La Grande			T.	5.0	16.5	2.0	T.			23.5
Lakeview	0.6		T.	2.7	13.6	5.7	9.6	1.0	2.9	36.1
Meacham		T.	2.3	23.4	38.3	26.4	20.6	T.	2.2	113.2
Medford					22.6	1.3	T.			23.9
Newport					12.5	(*)	(*)	(*)	(*)	
Pendleton				4.5	23.3	4.5				32.3
Portland				T.	16.4	T.				16.4
Prairie City			T.	11.5	17.4	4.8	1.0		T.	34.7
Prospect					34.0	10.2	T.		T.	44.2
Riverside				6.0	22.0	2.3	1.0			31.3
Roseburg					11.9	0.7				12.6
Salem					18.7					18.7
Siskiyou			T.	1.0	64.5	21.0	7.0	4.0	4.5	102.0
The Dalles				8.0	26.0					34.0
Wallowa				8.2	25.5	13.5	4.3			51.5
Wolf Creek					37.6	T.				37.6
Pennsylvania										
Allentown			T.	8.5	9.8	3.0	0.5			21.8
Altoona			3.8	10.5	4.2	6.9	3.5	0.3		29.2
Bellefonte		T.	0.9	5.9	5.0	5.0	2.6	0.2		19.6
Bradford		T.	6.8	12.5	4.5	7.0	20.0	6.5		57.3
Brookville			2.5	11.5	7.3	3.3	9.8	3.5		37.9
Carlisle			T.	13.0	14.0	3.0	1.0	T.		31.0
Center Hall			2.2	7.5	7.2	7.5	6.5	0.5		31.4
Chambersburg		T.	0.6	10.9	11.4	1.4	1.5	T.		25.8
Claysville		T.	1.9	6.2	3.8	1.9	8.2	1.6		23.6
Clearfield		T.	2.0	17.0	5.0	3.0	16.3	3.0		46.3
Coatesville				8.8	13.8	3.8	0.1	T.		26.5
Corry		T.	11.0	12.4	20.2	6.7	20.0	10.0		80.3
Coudersport		T.	4.4	12.1	5.0	6.1	7.2	5.0		39.8

[1] Trace in June, 1930.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Pennsylvania—Continued										
Emporium		T.	2.0	14.7	7.0	1.5	9.0	0.5		34.7
Erie		T.	13.8	10.6	8.2	2.5	11.6	4.9		51.6
Franklin		T.	3.0	10.0	6.5	2.0	12.0	4.0		37.5
George School			T.	4.8	5.3	2.8	T.	T.		12.9
Gettysburg			0.2	13.5	15.3	1.6	T.	T.		30.6
Gordon		T.	5.0	12.5	13.0	7.0	5.3	T.		42.8
Gouldsboro		T.	2.0	10.3	10.1	8.5	4.0	1.2		36.1
Harrisburg			0.2	10.2	12.8	2.7	1.2	T.		27.1
Johnstown		T.	3.2	10.7	6.7	5.5	12.9	5.0		44.0
Lebanon		T.	0.4	11.3	13.0	2.2	T.	T.		26.9
Lewisburg			0.4	14.5	7.0	3.9	1.0	T.		26.8
Lock Haven		T.	T.	8.0	11.0	5.0	1.0	T.		25.0
Lycippus		T.	0.6	8.7	7.7	1.0	3.5	2.8		24.3
Mauch Chunk		T.	1.7	11.2	10.5	7.2	2.5	T.		33.1
Mifflintown			0.2	10.2	7.3	4.7	3.0	T.		25.4
Montrose			3.0	9.0	6.0	5.0	2.0	2.0		27.0
New Castle		T.	3.8	14.8	8.1	4.4	14.7	6.2		52.0
Philadelphia (Weather Bureau)			T.	2.8	3.9	1.5	T.	T.		8.2
Pittsburgh		T.	0.5	11.4	6.9	1.4	7.2	1.0		28.4
Quakertown			T.	8.8	8.0	3.2	T.	T.		20.0
Reading			T.	11.0	12.2	2.5	T.	T.		25.7
Ridgway			4.0	8.0	3.4	5.0	11.7	1.0		33.1
Scranton		T.	0.3	9.7	6.1	4.3	1.7	0.7		22.8
Selinsgrove			0.2	12.5	10.0	5.0	1.1	T.		28.8
State College		T.	2.5	6.8	6.2	5.3	3.2	T.		24.0
Stroudsburg			1.0	12.0	9.5	3.8	T.			26.3
Towanda		T.	1.5	11.0	6.4	4.3	3.0	0.3		26.5
Uniontown		T.	4.0	11.5	6.5	6.0	7.0	1.0		36.0
Warren		T.	8.4	13.2	6.4	5.6	24.2	11.2		69.0
Wellsboro		T.	0.5	9.0	7.0	6.0	6.5	1.0		30.0
Williamsport		T.	T.	8.5	7.0	2.5	T.	T.		18.0
York			1.0	12.0	17.0	3.0		T.		33.0
Rhode Island										
Block Island			T.	6.6	6.3	8.4	0.4	T.		21.7
Kingston			0.5	7.5	7.5	10.0	T.			25.5
Providence			0.9	8.5	6.6	7.5	T.	T.		23.5
South Carolina										
Anderson			T.	2.0	4.0					6.0
Beaufort (near)					T.					T.
Blackville					T.					T.
Caesar's Head			T.	3.0	8.0	T.				11.0
Charleston					T.					T.
Clemson College				3.0	5.5					8.5
Columbia				T.	0.6					0.6
Darlington				T.	1.0					1.0
Due West			T.	0.6	1.6					2.2
Georgetown					T.					T.
Greenville				3.8	9.0	T.				12.8
Greenwood				T.	0.5					0.5
Kershaw				T.	2.5					2.5
Kingstree			T.	2.6	T.					T.
Landrum				0.5	11.7	T.				14.3
Newberry				T.	1.8					2.3
Saluda			T.	1.5	1.0					1.0
Santuck				T.	3.4					4.9
Society Hill			T.	3.5	1.4					1.4
Spartanburg				3.0	6.5	T.				10.0
Walhalla					8.8	T.				11.8
Wedgefield				T.	0.5					0.5
Winthrop College					6.0					6.0
Yemassee					T.					T.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
South Dakota										
Aberdeen		8.5	12.0	5.7	4.4	7.7	6.2	6.0	T.	50.5
Belle Fourche		5.0	9.0	2.0	4.6	1.0	3.0			24.6
Brookings		0.8	0.4	0.7	4.2	4.0	2.5	T.		12.6
Cottonwood		(*)	8.0	3.0	5.5	1.5	1.5			
Deerfield	3.0	4.8	15.7	4.6	5.8	3.5	15.0	T.	3.5	55.9
Dumont	3.0	10.0	35.6	5.2	10.0	8.0	32.0	T.	6.0	109.8
Dupree		4.8	10.9	6.0	11.5	16.0	1.3		T.	50.5
Fairfax		4.5	7.2	1.0	5.0	2.0	4.0			23.7
Forestburg		3.1	0.5	T.	4.1	3.9	3.0		T.	14.6
Hardy Ranger Station	3.0	12.2	21.0	10.9	10.1	11.2	32.0	0.5	8.2	109.1
Harveys Ranch	5.0	14.0	40.5	4.0	9.5	5.0	27.0	1.0	10.5	[1] 116.5
Highmore		14.0	3.2	0.5	1.7	7.0	0.1			26.5
Huron		4.7	3.0	1.3	6.5	9.9	3.7	1.0	T.	30.1
Lead	2.7	10.5	15.6	5.9	6.8	4.6	17.7	T.	5.0	68.8
Lemmon		7.0	(*)	7.0	6.0	9.0	T.			
Milbank		5.0	3.0	8.0	6.5	7.3	0.5	T.		30.3
Mitchell		8.0	1.9	0.7	9.4	2.3	0.8	0.5		23.6
Oelrichs		4.0	7.0	1.0	10.0	6.0	3.5			31.5
Pierre		9.9	6.1	0.9	4.1	10.7	1.9	T.	T.	33.6
Pollock		5.0	3.0	3.0	3.0	7.5	T.			21.5
Rapid City	T.	8.8	10.1	3.3	7.8	1.7	3.9	T.	T.	35.6
Redig		3.0	11.5	1.3	4.0	3.5	1.5			24.8
Rochford	4.5	16.6	25.9	8.8	15.7	7.1	27.8	T.	5.0	111.4
Sioux Falls	T.	2.5	2.5	0.4	10.2	5.0	T.			20.6
Spearfish		6.0	11.0	3.0	9.0	3.0	10.9		1.0	43.9
Waters Ranch		2.8	8.0	5.8	8.3	2.6	10.6			38.1
Watertown		2.0	3.7	3.5	8.8	8.5	2.5	(*)		
Wood		11.0	6.1	0.8	4.1	5.2	1.9	(*)		
Yankton		T.	2.2	1.4	10.2	3.0	2.6	2.0		21.4
Tennessee										
Ashwood			9.0	9.0	2.5		T.			20.5
Celina			5.0	11.0	4.0	T.	T.			20.0
Chattanooga			2.4	9.5	4.7		0.1			16.7
Clarksville			2.3	7.0	2.7	T.	0.3			12.3
Coldwater			4.0	7.0	1.0		T.			12.0
Copperhill			(*)	7.0	9.0		T.			
Crossville			5.0	11.0	2.5	T.	2.5			21.0
Decatur			8.0	8.0	6.0		T.			22.0
Elkmont			2.0	14.0	10.4	1.0	7.0			34.4
Erwin			4.0	4.5	11.5	1.0	T.			21.0
Florence			6.0	7.0	1.5	T.	T.			14.5
Hohenwald			7.0	11.0	1.0		T.			19.0
Jackson			5.0	5.0	4.0		T.			14.0
Johnson City			5.0	11.5	11.2	1.5	0.5			29.7
Johnsonville			2.0	4.2	2.4		T.			8.6
Knoxville			3.4	6.6	5.3	T.	T.			15.3
McMinnville			5.7	8.7	3.0	T.	0.1			17.5
Memphis			4.9	4.9	3.3		T.			13.1
Nashville			5.0	7.3	1.4	T.	0.1			13.8
Newport			0.5	7.5	11.0		T.			19.0
Palmetto			7.0	15.0	1.5		T.			23.5
Rogersville			3.0	6.5	5.0		T.			14.5
Rugby			5.0	15.0	(*)	T.	4.5			
Union City			1.2	7.0	3.8					12.0
Waynesboro			6.5	9.2	1.5	T.	T.			17.2
Texas										
Abilene			T.	0.1	0.8		1.7			2.6
Albany				1.2	3.3		5.0			9.5
Amarillo		1.5	6.9	1.6	9.4		3.0			22.4
Austin				5.5	0.3		T.			5.8
Ballinger				2.5	T.		1.5			4.0
Balmorhea				1.5	T.	T.	3.0			4.5
Beaumont				2.0						2.0

[1] Trace in June, 1930.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Texas—Continued										
Big Spring					(*)		1.0			
Brenham				6.8	T.					6.8
Brownsville				T.						T.
Brownwood				6.0	T.		3.5			9.5
Buena Vista				3.0	0.5		2.0			5.5
Clarksville			1.5		1.0					2.5
Corpus Christi			T.	T.	T.					T.
Corsicana				15.0	1.5					16.5
Cuero				4.0						4.0
Dalhart		T.	17.0	1.5	6.0	T.	5.0			29.5
Dallas			1.6	0.1	0.5		T.			2.2
Del Rio				2.2						2.2
Dimmitt			8.1	1.5	6.0		T.			15.6
Eagle Pass				0.5						0.5
Eastland				T.	0.9		0.3			1.2
El Paso		T.	0.4	5.2						5.6
Fort Stockton			T.	4.5	0.2		2.5			7.2
Fort Worth			2.2	T.	T.					2.2
Galveston				T.	T.					T.
Greenville			2.1							2.1
Groesbeck			T.	8.0	2.0					10.0
Haskell				1.0	2.2		3.0			6.2
Henrietta			1.0		4.0					5.0
Hillsboro			T.	26.0	1.0					27.0
Hondo				3.0						3.0
Houston				2.5			T.			2.5
Kerrville			1.1	6.0			T.			7.1
Lampasas				14.0			6.0			20.0
Liberty				4.0						4.0
Llano				9.0	T.		T.			9.0
Lubbock		T.	0.4	0.7	5.2		4.3			10.6
Memphis			2.0	4.0	13.0		1.0			20.0
Miami			9.0	1.0	17.0		2.0			29.0
Nacogdoches				12.0	3.0		T.			15.0
Palestine			T.	9.5	3.6		T.			13.1
Paris			1.8		1.3					3.1
Pierce				2.0						2.0
Plainview		1.5	T.	2.0	16.0		2.5			22.0
Port Arthur				1.8	T.					1.8
Quanah			T.	1.5	7.0		T.			8.5
Romero			12.0		5.5		5.0			22.5
Sabinal				3.0						3.0
San Antonio				2.9	T.					2.9
Snyder			2.5	1.0	0.2		2.1			5.8
Spearman		T.	7.3	1.0	1.0		1.0			10.3
Spur			0.2	0.3	7.0		2.5			10.0
Taylor				5.6	0.8		0.9			7.3
Temple				10.0	2.5		7.0			19.5
Troup			0.5	10.0	2.1					12.6
Vega		T.	10.2	3.0	10.0		1.4			24.6
Waco				13.0	2.0					15.0
Weatherford			0.1	0.1	1.5		T.			1.7
Wichita Falls			T.	0.1	9.5					9.6
Utah										
Alton					49.0	14.0	6.0		T.	69.0
Beaver			3.0	0.5	19.0					22.5
Blanding				T.	26.5		T.	T.	1.0	27.5
Brigham City		1.0		4.0	40.0	9.0	T.		T.	54.0
Castle Dale			T.	6.0	15.0		T.		T.	21.0
Cedar City			2.0		16.0	15.5	5.0			38.5
Duchesne		T.	T.	2.0	9.0	1.0	13.0			25.0
Emery				8.0	29.0		0.5		T.	37.5
Escalante					25.5					25.5
Fillmore		10.0	2.0		16.0	11.0	3.0		3.0	45.0
Fort Duchesne		1.5		0.1	6.6		0.1			8.3
Fruitland		1.0	1.9	7.0	27.5	4.8	18.5	(*)	(*)	

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
***Utah*—Continued**										
Government Creek		0.5	1.0	2.0	15.0	16.8	2.5		2.5	40.3
Green River				1.2	15.2	T.	T.		T.	16.4
Heber		T.	0.5	5.5	31.0	2.0	8.0	T.	2.0	49.0
Hiawatha		0.1	0.1	7.0	39.1	7.0	(*)	T.	8.0	
High Line City Creek		12.0	3.0	8.5	40.5	29.5	12.0	(*)	2.0	
Huntsville		3.5	1.0	6.0	33.0	20.0	1.0	(*)	T.	
Ibapah				4.0	9.5	19.0	8.0		14.0	54.5
Kanab					25.9		3.0		0.8	29.7
Laketown		1.0	2.5	3.5	18.5	5.0	11.0		2.0	33.5
Levan		10.0	1.0	8.0	37.5	21.0	14.5		4.0	96.0
Loa				(*)	8.5	0.5	4.5			
Logan		7.0		3.6	(*)	4.7	(*)	T.		
Lower American Fork		2.0	1.0	4.5	16.0	5.5	2.0			31.0
Lower Mill Creek		3.5	2.0	6.2	32.5	25.0	6.2		0.5	75.9
Manila		4.0	9.0	(*)	(*)	(*)	10.0	1.0		
Manti		2.1	1.9	6.8	23.0	5.6	0.8	T.	7.0	47.2
Milford		0.2	1.0	0.5	10.9	3.0	3.5	T.	2.0	21.1
Moab		T.	1.3	1.4	27.0	2.0			(*)	
Modena				0.2	19.5	4.0	T.	T.	1.2	24.9
Monticello		T.	0.2	1.5	39.5	2.0	5.5	T.	4.5	53.2
Morgan		3.0	2.0	4.0	31.0	16.0	7.0	(*)	(*)	
Moroni		0.5	0.4	6.1	24.0	4.6	4.9		7.0	47.5
Mountain Dell		7.0	3.0	6.0	43.0	32.0	6.0	3.0	4.0	104.0
Mount Emmons		4.0	1.0	3.0	20.5	2.0	10.5			41.0
Ogden		3.0	T.	5.0	31.5	6.5	T.	T.	0.5	46.5
Panguitch		T.		T.	9.0	0.5	3.0		4.0	16.5
Park City		T.	2.0	8.0	47.0	36.0	36.0			129.0
Parowan		4.0	3.0	T.	15.4	13.0	3.0	T.	T.	38.4
Piute Dam			1.0	T.	14.1	3.0	5.0	1.0	1.0	25.1
Price				3.5	23.0	0.2	5.5		1.0	33.2
Provo		1.0	0.5	5.0	10.5	2.0				19.0
St. George					10.0					10.0
Salina			2.0	2.0	16.0	2.0	2.0	T.		24.0
Salt Lake City		3.0	T.	5.4	23.3	20.6	4.0	T.	T.	56.3
Santaquin			2.0	6.0	21.0	14.0	5.0			48.0
Scipio		2.0	2.0	1.0	21.0	6.0	1.0	T.	T.	33.0
Silver Lake	6.0	9.0	12.9	23.0	71.0	50.5	38.0	14.5	24.5	249.4
Sunnyside		3.0	0.5	1.5	27.3	6.5	(*)	(*)	(*)	
Thistle		6.0	3.0	10.0	55.0	8.0	5.0			87.0
Tooele		12.0	2.0	6.0	10.5	22.0	2.0			54.5
Utah Lake (Lehi)		1.5	0.5	5.0	17.0	1.5	T.		T.	25.5
Watson (near)		1.4	8.5	1.2	8.7	5.1	5.0		3.0	32.9
Widtsoe		3.0	2.0	1.5	18.5	2.7	8.0		(*)	
Woodruff		5.0	3.0	4.0	14.0	6.0	6.0	0.5	2.5	41.0
Vermont										
Bloomfield		T.	(*)	19.0	15.0	8.0	(*)	3.0		
Burlington		T.	0.9	30.6	8.2	5.1	19.5	4.5		68.8
Chelsea		(*)	3.5	(*)	17.0	6.0	3.0	4.5		
Cornwall		T.	1.0	24.0	11.0	8.0	11.6	2.5		26.7
Enosburg Falls		4.0	7.5	34.5	30.0	17.0	29.0	6.5		128.5
Garfield		5.0	4.0	22.5	16.5	12.0	19.5	2.5		82.0
Northfield		T.	2.6	21.6	10.8	4.7	7.5	4.8		52.0
St. Johnsbury		T.	2.2	25.5	15.3	9.7	7.8	1.8		62.3
Somerset			5.3	15.8	15.0	15.4	14.0	6.7		72.2
Woodstock		T.	4.2	15.9	14.5	7.5	4.0	1.8	T.	47.9
Virginia										
Blacksburg			3.8	10.3	12.2	0.3	0.7			27.3
Callaville			2.0	T.	4.5	1.0				7.5
Cape Henry			T.	0.4	3.9	0.8				5.1
Charlottesville			3.0	7.0	16.0	2.0				28.0
Culpeper			2.0	6.0	21.0	2.0				31.0
Dahlgren			1.3	T.	9.7	3.0	T.			14.0
Dale Enterprise			3.2	8.0	14.3	2.0	T.	T.		27.5
Damascus			6.2	4.5	11.0	1.3	3.5			26.5

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Virginia—Continued										
Dante			6.2	8.2	(*)	2.5	2.2			
Emory			9.0	5.0	14.5	0.4	1.7			30.6
Fredericksburg			1.0	1.5	13.2	0.5	T.			16.2
Glenlyn			3.5	9.3	(*)	0.6	0.3			
Hopewell			1.5	0.8	5.2	1.0				8.5
Hot Springs		T.	3.1	8.8	13.9	2.2	1.9	T.		29.9
Lexington			3.1	8.5	15.0	(*)				
Lincoln			2.0	9.0	16.0	2.0	T.	T.		29.0
Lynchburg			3.5	4.9	12.0	0.2	T.			20.6
New Canton			5.0	4.0	13.2	0.5				22.7
Norfolk			T.	0.1	4.1	1.0				5.2
Quantico			2.0	1.8	16.0	3.0	T.			22.8
Richmond			3.8	3.0	9.6	2.5				18.9
Runnymede			1.0	T.	4.0	2.0				7.0
Staunton			5.0	8.5	17.0	2.0	T.			32.5
Woodstock			0.5	9.5	8.5	1.5	T.	T.		20.0
Wytheville			6.2	10.0	15.0	0.2	3.6			35.0
Washington										
Aberdeen				0.5	15.0	0.5				16.0
Anatone			T.	11.2	15.2	8.7	6.8			[3] 41.9
Bellingham (near)				4.8	0.8					5.6
Bumping Lake			3.0	60.5	28.2	31.0	16.5	T.	3.0	[3] 142.2
Cedar Lake		T.		11.0	7.0	21.5	3.5		0.5	43.5
Centralia				2.0	18.5	0.5				21.0
Cle Elum				39.0	11.0	14.7	6.0			70.7
Colfax				4.5	10.1	0.5	1.0			16.1
Colville				9.5	6.0	6.5	0.3			22.3
Dayton (near)				3.0	15.0	4.0				22.0
Ellensburg				7.9	7.8	7.0				22.7
Everett				9.5	3.0	7.0	0.3			19.8
Goldendale				10.0	23.5	T.				33.5
La Center (near)					7.3					7.3
Lake Kachess				41.0	14.0	29.0	17.0		T.	101.0
Lakeside				16.2	4.0	7.4			T.	27.6
Laurier			T.	11.8	9.5	7.2	2.0			30.5
Leavenworth				41.8	11.8	26.5				80.1
Lind (near)				1.2	5.1	2.2				8.5
Mount Baker Lodge	T.	3.0	6.5	108.0	64.0	61.0	73.0	38.0	1.0	354.5
North Head					0.2					0.2
Olga				1.5	0.5		T.			2.0
Olympia				2.0	10.0	2.5				14.5
Paradise Inn	13.0	3.0	10.0	97.0	55.0	69.5	88.5	17.0	35.0	[4] 390.0
Peola		T.	4.0	13.5	15.0	12.5	11.0		T.	56.0
Port Angeles				3.2	3.8	1.2	0.2			8.4
Quinault				2.0	3.4	T.				5.4
Republic				11.1	11.3	1.0	4.0		T.	27.4
Rosalia				5.6	5.8	1.9	1.6			14.9
Seattle				2.5	6.5	2.3	T.			11.3
Skagit Powerplant				22.0	12.0	1.0				35.0
Snoqualmie Pass	T.	2.0	T.	(*)	(*)	(*)	(*)	T.	9.0	
Spokane				2.5	12.8	2.6	T.			17.9
Stampede				64.5	16.5	30.0	25.0			136.0
Stehekin (near)				78.0	21.0	29.5	2.0			130.5
Sullivan Lake (near)			1.0	22.2	13.2	16.5	1.0			53.9
Tacoma				T.	7.5	2.0				9.5
Tatoosh Island				4.0	6.9		0.3			11.2
Walla Walla (a)				5.0	13.6	1.9	T.			20.5
Waterville				24.5	5.2	15.2	1.0			45.9
Wenatchee				10.8	8.0	13.0				31.8
Wenatchee (near)				20.8	13.0	18.0	0.5			52.3
Wilbur				1.0	8.0	7.5				16.5
Wind River				7.3	54.0					61.3
Winthrop				23.0	(*)	10.0	1.0			
Yakima			T.	5.4	7.0	2.6				15.0

[3] Trace in June, 1930.

[4] Includes June, 1930: Paradise Inn, 2.0.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
West Virginia										
Arbovale		T.	5.5	11.0	8.0	3.0	9.5	3.5		4.5
Bancroft			1.2	10.5	8.0	1.0	3.2			23.9
Bayard		1.0	10.0	23.0	22.0	13.0	20.5	1.0		90.5
Bens Run		T.	1.0	15.0	14.0	3.0	6.0			39.0
Bluefield			6.0	10.5	12.8	1.0	1.5			31.8
Brandywine			3.0	8.0	6.0	2.0	3.0			22.0
Bruceton Mills		T.	7.0	16.0	3.0	3.0	5.0	0.2		34.2
Buckhannon		T.	4.0	15.0	3.0	6.5	8.0	0.5		37.0
Charleston			2.0	7.5	2.0	1.0	0.5			13.0
Clarksburg			2.5	13.9	4.5	4.5	3.5	T.		28.9
Creston			2.0	15.0	9.8	2.0	2.0	T.		30.8
Elkins		T.	8.0	9.1	6.2	8.2	11.2	3.7		46.4
Fairmont		T.	3.5	13.0	6.0	4.2	8.0	0.5		35.2
Gary			4.0	6.0	6.0	1.0	1.5			18.5
Glenville			5.5	14.0	3.0	3.5	2.8	T.		28.8
Horton		T.	11.5	17.8	12.2	8.7	30.1	7.9		88.2
Huntington			2.5	10.0	4.5	1.0	3.2			21.2
Lewisburg			4.0	10.5	11.5	2.0	2.0	T.	(*)	
Lost Creek			2.8	11.8	5.2	6.0	5.0	T.		30.8
Mannington			2.0	11.4	5.8	4.4	12.6	2.0		38.2
Marlinton		T.	6.5	16.5	11.0	1.0	4.0	T.		39.0
Martinsburg		T.	0.8	12.0	15.0	0.5	T.	T.		28.3
Morgantown		(*)	(*)	9.8	6.5	4.5	4.0	T.		
New Cumberland		T.	4.0	9.2	4.0	T.	8.0	0.3		25.5
Parkersburg		T.	0.2	13.1	7.4	0.1	5.1	T.		25.9
Parsons		T.	5.0	10.0	5.0	4.0	11.0	4.0		39.0
Pickens		2.0	18.0	27.2	20.0	22.0	33.0	10.0		132.2
Piedmont			1.2	7.8	3.5	2.0	1.8			16.3
Point Pleasant			0.6	10.9	7.5	0.3	1.0	T.		20.3
Ryan			1.9	14.2	8.0	2.3	8.5			34.9
Stony River Dam		1.5	13.0	13.0	9.0	9.5	21.5	8.5		76.0
Sutton			5.0	23.0	9.0	13.0	6.0	2.0		58.0
Terra Alta		T.	9.5	16.0	7.7	9.1	8.6	2.9		53.8
Wheeling		T.	2.4	12.8	2.8	0.6	9.5	0.2		28.3
Williamson			3.5	15.1	2.5	1.1	0.5			22.7
Wisconsin										
Antigo		T.	0.6	5.8	7.3	8.5	7.0			29.2
Ashland	T.	3.0	11.0	28.0	18.0	19.5	3.0	T.		82.5
Beloit		4.0	1.0	1.7	16.5	3.0	2.0			28.2
Brodhead		6.0	4.5	4.0	10.0	2.5	7.0	1.0		35.0
Burnett		5.3	T.	3.5	12.8	4.8	10.7	7.0		44.1
Chippewa Reservoir		T.	0.5	8.0	10.0	9.0	3.0			30.5
Cornucopia		2.7	10.4	17.6	9.8	15.1	3.9			59.5
Darlington		2.0	2.0	3.0	13.0	3.5	7.5	2.0		33.0
Deerskin Dam	T.	3.5	9.0	12.8	8.5	13.0	7.0	1.2	T.	55.0
Eau Claire		T.	2.9	11.7	14.5	10.5	7.7	T.		47.3
Florence		2.0	2.0	24.0	8.0	20.0	5.0	T.		61.0
Fond du Lac		1.5	0.5	8.5	20.0	6.5	16.5	9.0		62.5
Grand River Locks		1.5	T.	1.2	7.2	1.8	9.5	5.0		26.2
Grantsburg		T.	1.5	7.5	11.0	4.5	2.0			26.5
Green Bay		T.	1.1	9.9	10.6	8.3	6.7	0.1		36.7
Hancock		1.5	1.0	7.1	14.4	4.1	10.0			38.1
Hatfield		1.0	0.1	5.5	17.2	4.2	5.0			33.0
High Falls		T.	2.2	18.5	5.6	17.8	10.5			54.6
Hillsboro		2.5	T.	6.0	17.0	4.5	4.0			34.0
La Crosse		3.1	1.6	7.3	19.5	3.5	8.1	1.0		44.1
Madison		2.5	0.8	3.0	17.6	1.9	5.9	5.8		37.5
Manitowoc			0.2	7.7	13.0	11.0	23.8	6.0		61.7
Medford		1.0	3.0	5.5	10.0	7.5	9.0	T.		36.0
Milwaukee		1.2	0.1	11.2	21.7	2.9	12.2	1.6		50.9
Minocqua	T.	1.0	6.5	10.5	9.0	12.0	3.0	T.		42.0
Mondovi		T.	T.	5.5	11.5	2.5	2.5			22.0
New London		T.	0.7	7.5	17.0	6.0	17.5			48.7
Park Falls		T.	3.0	6.5	6.0	8.0	13.0	T.		36.5
Prairie du Chien		T.	T.	3.0	16.0	2.5	1.5	3.0		26.0

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
***Wisconsin*—Continued**										
Prentice	-------	1.8	3.3	5.7	9.9	7.4	5.3	-------	-------	33.4
Racine	-------	1.0	T.	8.0	15.0	2.0	10.0	T.	-------	36.0
Rhinelander	-------	T.	5.4	8.0	9.0	8.0	1.1	-------	-------	31.5
Richland Center	-------	2.5	1.2	4.8	13.1	3.2	4.4	4.6	-------	33.8
River Falls	-------	1.0	2.7	5.0	12.7	3.4	5.2	-------	-------	30.0
Shawano	-------	T.	1.5	6.5	14.0	6.5	12.2	-------	-------	40.7
Sheboygan	-------	T.	0.7	14.6	21.9	9.0	24.5	3.0	-------	73.7
Solon Springs	-------	T.	5.0	9.0	10.5	8.5	3.5	T.	-------	36.5
Sturgeon Bay	-------	-------	T.	12.2	7.5	20.8	12.0	T.	-------	52.5
Superior	T.	T.	2.7	11.8	6.7	13.7	3.5	T.	-------	38.4
Watertown	-------	3.5	0.4	3.7	13.4	5.7	12.4	3.2	-------	42.3
Wausau	-------	1.1	1.8	6.2	14.3	10.1	8.6	T.	-------	42.1
Weyerhauser	-------	4.0	2.0	5.2	9.0	10.5	6.0	T.	T.	36.7
Williams Bay	-------	7.5	1.5	6.5	16.5	2.5	11.0	-------	-------	45.5
Wisconsin Rapids	-------	1.2	T.	8.5	16.0	5.2	9.0	T.	-------	39.9
Wyoming										
Alta	-------	-------	2.0	4.0	13.5	8.0	5.7	-------	-------	33.2
Barnum	-------	3.0	24.0	-------	4.0	4.5	10.0	-------	T.	45.5
Basin	-------	0.6	13.4	8.0	8.5	2.5	8.5	-------	-------	41.5
Bedford	T.	3.0	7.0	10.0	33.0	18.0	24.0	2.0	9.0	106.0
Casper	5.0	4.5	25.0	5.0	15.5	14.6	10.8	-------	4.8	85.2
Centennial	9.8	4.6	8.8	2.2	32.9	12.6	24.4	1.2	3.0	99.5
Cheyenne	0.8	15.3	15.0	1.6	13.0	11.6	9.7	0.4	10.3	77.7
Chugwater	2.0	14.5	11.0	0.7	7.8	4.7	3.3	-------	T.	44.0
Cody	-------	1.0	13.0	4.0	4.5	3.0	3.0	-------	-------	28.5
Colony	-------	4.0	8.5	2.5	8.5	1.0	2.0	-------	T.	26.5
Dixon	-------	2.0	6.5	3.0	22.5	10.0	6.5	0.4	4.1	55.0
Dome Lake	9.0	17.0	36.9	18.5	9.0	18.5	24.0	17.0	6.0	[9] 167.9
Douglas	1.0	2.5	12.2	1.5	3.7	10.0	11.9	-------	-------	42.8
Echeta	T.	6.0	14.0	5.0	5.0	1.0	2.0	(*)	(*)	-------
Elk Mountain	4.0	10.0	7.0	T.	13.0	14.0	19.0	-------	13.0	[3] 80.0
Ervay	6.0	10.0	33.0	4.5	8.0	11.0	19.0	-------	10.0	101.5
Evanston	-------	8.0	2.5	3.0	20.5	10.0	12.0	-------	-------	56.0
Fort Laramie (near)	5.0	5.0	4.0	T.	10.6	4.0	4.4	-------	2.0	35.0
Green River	-------	2.2	2.2	1.0	9.5	2.3	1.9	T.	1.8	20.9
Hampshire	2.0	0.5	3.0	0.5	3.0	3.5	3.0	-------	-------	15.5
Kendall	4.0	-------	3.0	12.5	37.0	50.5	18.5	3.0	15.5	144.0
Kirtley	3.0	14.0	11.5	6.0	7.0	3.2	8.5	-------	-------	53.2
Knowles	0.6	7.4	21.1	5.5	6.0	4.5	14.5	-------	T.	59.6
Lander	4.0	10.9	13.0	4.8	5.2	4.5	11.2	-------	3.4	57.0
Laramie	5.0	13.0	9.5	2.0	7.0	5.0	7.0	0.8	5.8	55.1
Lovell	-------	T.	13.0	9.0	3.5	1.0	1.5	-------	-------	28.0
Marshall (near)	1.1	2.2	10.3	3.0	16.0	1.2	14.8	T.	9.3	57.9
Moran	8.0	6.0	10.0	14.5	26.0	27.0	21.0	-------	8.0	120.5
Newcastle	2.0	3.0	10.7	2.0	9.0	2.0	8.0	-------	-------	36.7
Quaking Aspen Creek	8.0	10.0	28.5	5.8	2.0	3.0	7.2	-------	7.5	[10] 73.0
Rawlins	3.0	5.0	4.5	1.5	6.0	(*)	(*)	-------	-------	-------
Riverton	3.0	0.5	8.5	0.3	6.2	2.1	7.0	-------	T.	27.6
Ross (near)	3.5	1.0	6.2	0.5	4.0	3.0	6.0	0.4	2.5	27.1
Sage	T.	3.5	2.5	3.0	10.0	15.3	5.5	-------	6.5	46.3
Sheridan	-------	1.5	19.3	9.4	7.0	5.3	6.5	T.	T.	49.0
South Pass City	7.5	26.0	5.2	11.3	25.3	18.0	16.4	1.5	30.0	141.2
Worland	-------	1.0	5.3	2.0	6.0	1.3	2.3	-------	-------	17.9
Yellowstone Park	4.5	1.7	9.8	8.0	15.9	12.4	18.3	0.7	0.2	[8] 71.5
Lake Yellowstone	6.5	1.2	14.9	15.0	9.9	8.5	11.3	T.	4.5	[11] 71.8
Canadian Stations										
Cape Race, Newfoundland	-------	-------	0.5	20.2	14.3	7.3	10.8	10.0	-------	63.1
Burin, Newfoundland	-------	-------	0.4	40.1	22.0	32.4	10.0	3.0	-------	107.9
Port aux Basques, Newfoundland	-------	3.8	11.2	35.4	33.4	34.4	19.5	27.3	(*)	-------
Sydney, Cape Breton Island	-------	0.5	6.5	22.5	28.0	32.0	3.5	3.0	-------	96.0

[3] Trace in June, 1930.
[8] Includes at Dome Lake: July, 1929, 6.0; June, 1930, 6.0.
[9] Includes July, 1929: Quaking Aspen Creek, 1.0.
[11] Traces in July, 1929, and June, 1930.

Monthly and seasonal snowfall, 1929–30—Continued

[Inches and tenths]

Station	1929				1930					Seasonal
	Sept.	Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	
Canadian Stations—Con.										
Halifax, Nova Scotia	-------	T.	2.6	11.4	14.3	20.5	3.1	0.2	T.	52.1
Yarmouth, Nova Scotia	-------	T.	5.4	19.8	23.1	35.2	0.2	-------	-------	83.7
St. John, New Brunswick	-------	T.	2.3	26.3	19.6	22.5	4.3	2.5	-------	77.5
Charlottetown, Prince Edward Island	-------	0.2	6.5	41.0	34.0	43.2	7.8	6.5	-------	139.2
Chatham, New Brunswick	-------	0.1	3.1	28.2	22.7	8.8	7.4	5.8	-------	76.1
Anticosti (southwest point), Quebec	-------	1.0	13.2	22.4	8.0	14.0	8.0	(*)	(*)	-------
Fame Point, Quebec	-------	2.0	21.0	63.0	16.0	69.0	44.0	52.0	-------	267.0
Father Point, Quebec	-------	-------	18.9	36.6	20.6	5.6	52.8	6.6	0.6	141.7
Quebec, Quebec	-------	T.	16.5	40.3	38.6	18.0	32.4	13.6	-------	[3] 159.4
Doucet, Quebec	T.	0.3	3.1	33.0	2.0	20.0	29.0	7.0	1.9	96.3
St. Hubert, Quebec	-------	0.1	1.4	47.1	20.3	14.5	8.3	6.0	-------	97.7
Montreal, Quebec	-------	0.3	3.8	41.4	28.8	11.4	12.3	3.3	-------	101.3
Ottawa, Ontario	-------	T.	3.9	40.0	15.0	7.4	9.1	0.1	-------	[12] 75.5
Kingston, Ontario	-------	-------	0.3	17.1	5.8	4.7	4.3	0.2	-------	32.4
Toronto, Ontario	-------	-------	1.1	22.2	13.1	11.3	10.5	0.4	-------	58.6
London, Ontario	-------	-------	1.9	33.3	19.2	17.5	23.0	3.0	-------	97.9
Southampton, Ontario	-------	-------	25.2	31.8	34.2	22.7	14.2	4.9	-------	133.0
Parry Sound, Ontario	-------	0.8	28.3	36.6	62.1	12.8	11.0	7.7	-------	159.3
Cochrane, Ontario	T.	3.1	11.1	8.8	9.6	21.7	27.9	9.5	0.3	92.0
White River, Ontario	-------	3.6	8.1	17.4	10.4	9.6	19.6	0.7	0.2	69.6
Port Arthur, Ontario	-------	T.	5.1	17.6	6.8	6.1	8.3	-------	-------	43.9
Winnipeg, Manitoba	-------	4.0	6.9	14.3	2.9	14.1	9.8	0.2	0.1	52.3
Minnedosa, Manitoba	-------	8.9	6.2	9.1	1.6	11.8	16.3	T.	2.7	56.6
The Pas, Manitoba	T.	0.2	6.9	7.0	4.0	11.3	6.8	0.3	0.8	37.3
Qu'Appelle, Saskatchewan	-------	18.6	12.1	12.1	3.0	4.2	6.3	2.5	5.5	64.3
Moose Jaw, Saskatchewan	-------	8.3	3.7	12.4	2.0	8.4	4.2	-------	0.4	39.4
Swift Current, Saskatchewan	-------	3.2	7.7	14.2	3.9	1.4	1.9	-------	-------	32.3
Medicine Hat, Alberta	-------	1.2	3.1	2.9	0.3	1.0	0.3	-------	T.	8.8
Clagary, Alberta	-------	7.8	15.5	10.0	3.4	3.3	8.4	-------	-------	48.4
Banff, Alberta	1.1	2.2	15.6	37.1	11.3	6.0	15.8	5.6	1.3	96.0
Prince Albert, Saskatchewan	-------	0.1	8.3	11.3	4.5	5.3	11.4	3.3	-------	44.2
Battleford, Saskatchewan	-------	0.2	4.6	9.6	3.2	4.4	2.2	0.2	0.3	24.7
Edmonton, Alberta	-------	-------	6.1	9.5	5.7	1.4	1.7	2.6	7.5	34.5
Kamloops, British Columbia	-------	-------	1.3	8.5	2.0	2.5	0.2	-------	-------	14.5
Vancouver, British Columbia	-------	-------	-------	15.2	1.8	T.	-------	-------	-------	17.0
Victoria, British Columbia	-------	-------	-------	2.4	1.8	1.0	0.1	-------	-------	5.3
Prince George, British Columbia	-------	T.	2.0	6.7	5.0	6.5	2.2	-------	T.	22.4
Estevan Point, British Columbia	-------	-------	-------	5.4	1.6	4.6	-------	-------	-------	11.6
Prince Rupert, British Columbia	-------	-------	-------	2.4	11.4	12.7	8.9	-------	-------	35.4
Atlin, British Columbia	-------	T.	16.0	2.6	7.2	21.4	6.7	7.0	T.	60.9
Dawson, Yukon	-------	2.1	27.5	11.5	4.3	3.0	8.0	2.0	2.5	60.9
Mayo Landing, Yukon	-------	2.1	13.5	14.0	3.0	(*)	15.5	1.5	-------	-------
Aklavik, Mackenzie	0.3	11.2	12.2	1.4	(*)	5.2	(*)	(*)	(*)	-------

[3] Trace in June, 1930.

[12] Trace in July, 1929.

EVAPORATION, 1929

Monthly and annual evaporation (in inches and hundredths) for 1929

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Alabama													
Silverhill			5.41	5.35		6.36	5.96	6.30		4.01	1.36		
Alaska													
Fairbanks					3.31	4.65	3.51	2.95	1.29				
Matanuska								2.67	1.55				
Arizona													
Lee's Ferry			6.01	7.66	11.23	13.83	11.56	9.96	8.15	5.72	2.92	2.11	
Mesa	2.58	3.82	6.02	7.63	9.95	10.88	9.54	9.28	7.01	5.86	4.09	3.64	80.29
Roosevelt	1.62	2.58	5.56	7.15	11.12	13.09	11.49	9.43	6.42	5.83	2.56	1.99	78.83
Willcox			6.37	9.79	11.10			7.38	6.83	4.20			
Yuma Date Orchard [1]	3.96	5.03	7.76	8.88	10.94	10.43	10.52	9.31	6.93	5.51	4.19		
Yuma (citrus)	3.98	5.48	8.69	11.02	15.39	16.42	16.74	13.87	10.25	9.05	6.23	4.91	122.03
California													
Alvarado (near)	1.10	2.64	3.98	4.88	6.74	7.13	8.06	6.90	4.85	4.01	2.17	1.28	53.74
Chula Vista	2.68	3.30	4.76	6.06	7.49	7.16	7.91	7.23	5.48	5.10	4.04	2.94	64.16
Fall River Mills			3.50	4.45	8.73	8.88	13.13	11.84	7.48	4.84			
Oakdale (near)	1.00	2.67	3.62	4.63	10.11	11.28	14.60	13.67	9.02	6.15	3.26	1.39	81.38
Tahoe (floating pan)					5.72	5.03	7.82	7.70	4.99	2.91			
Hawaii													
Hoaeae (upper)	3.28	3.43	4.43	5.00	5.84	5.58	7.41	6.64	5.24	4.62	3.66	2.97	58.10
Maunawili	3.68	3.06	3.96	4.00	4.00	4.72	4.27	4.34	4.09	3.11	3.69	2.48	44.91
Idaho													
Arrowrock					6.54	6.79	10.53	9.28	4.98				
Milner Dam				3.67	6.67	6.15	8.45	7.92	5.26	2.84			
Kansas													
Manhattan				5.50	4.44	9.82	8.67	8.19	5.82				
Tribune				7.59		11.03	15.09	11.93	8.30				
Montana													
Agricultural College				3.47	6.52	7.33	10.43	10.99	4.72	3.41			
Malta					6.56	7.27	11.27	9.47	4.94	2.88			
Valier					6.19	6.05	8.67	8.54	4.52	3.69			
Nebraska													
Lincoln				5.16	5.91	7.79	8.99	8.09	6.58	3.57			
Nevada													
Lahontan			4.09	5.07	8.15				7.78	5.19			
Lamoille						6.55	9.53	7.43	6.00				
New Mexico													
Agricultural College	3.21	4.31	7.11	8.88	10.41	11.60	9.12	7.75	7.05	5.01	2.59	2.55	79.60
Elephant Butte Dam	3.45	4.19	7.31	11.13	12.01	14.20	9.93	7.98	7.45	4.54	2.51	2.31	86.99
Santa Fe	1.26	1.95	3.73	7.05	9.67	11.85	8.41	6.87	6.62	4.51	1.89	1.41	65.21
New York													
Albany					4.30	6.14	6.08	5.69	3.70	2.06			
Ithaca					3.27	4.97	5.46	4.28	2.89	1.04			
North Carolina													
Chapel Hill	1.11	1.67	4.38	4.38	4.73	4.78	5.17	5.04	3.76	2.89	1.98	1.01	40.90
Ohio													
Ohio State University				3.74	4.34	4.58	5.51	4.31	2.87	1.96			
Wooster					3.53	4.36	5.09	3.82	3.15	1.74			
Oregon													
Corvallis					4.46	5.38	8.57	7.37					
Warmspring					8.81	9.08	15.11	13.61	6.86				
Porto Rico													
San Juan	5.89	6.03	7.93	9.20	9.29	8.17	9.25	7.75	6.06	5.23	4.93	4.89	84.60
Texas													
Dilley	3.46	3.84	7.09	8.17	9.71	10.38	10.65	11.90	9.42	7.18	3.09	2.96	87.86
Hill's Ranch	2.55	2.13	4.71	4.96	6.47	7.75	7.20	9.01	6.81	5.95	2.90	2.20	62.63
Hill's Ranch (floating pan)	1.83	1.56	4.10	4.09	5.23	6.06	5.46	7.07	5.20	5.33	2.58	2.12	50.64

[1] Called Yuma in report covering 1928.

Monthly and annual evaporation (in inches and hundredths) for 1929—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
Utah													
Myton					8.10	10.54	8.66	7.95	4.93				
Piute Dam						12.26	10.02	7.71	7.26				
Salt Lake Airport				4.40	8.11	12.33	11.61	11.70	6.43	5.21			
Sevier Bridge Dam					10.24	13.03	11.90	9.37	7.01				
Utah Lake				4.16	8.75	9.80	10.18	7.81	5.53	3.65			
Virgin Islands													
St. Croix	4.69		6.05	6.61	5.47	5.96	6.22	5.77	6.47	4.80	4.02	4.15	
Washington													
Lake Kachess					3.42	3.69	5.89	5.33	2.76				
Walla Walla			2.97	4.56	6.40	6.64	11.42	11.24	5.90	3.14			
West Virginia													
Clarksburg				4.25	4.33	6.39	6.39	5.04	4.10	2.91			