UNITED STATES DEPARTMENT OF AGRICULTURE
WEATHER BUREAU

UNITED STATES METEOROLOGICAL YEARBOOK

1936

QC
983
.U493
1936
c.2

LIBRARY
N.O.A.A.
U.S. Dept. of Commerce

Issued as the Report of the Chief of the Weather Bureau prior to 1935

LIBRARY
OCT 20 1938
57447
WEATHER BUREAU

UNITED STATES
GOVERNMENT PRINTING OFFICE
WASHINGTON: 1938

For sale by the Superintendent of Documents, Washington, D. C. - - - - - - - - - - - Price 30 cents (paper)

National Oceanic and Atmospheric Administration

Climate Database Modernization Program

ERRATA NOTICE

One or more conditions of the original document may affect the quality of the image, such as:

Discolored pages
Faded or light ink
Binding intrudes into the text

This document has been imaged through the NOAA Climate Database Modernization Program. To view the original document, please contact the NOAA Central Library in Silver Spring, MD at (301) 713-2607 x124 or www.reference@nodc.noaa.gov.

LASON
Imaging Subcontractor
12200 Kiln Court
Beltsville, MD 20704-1387
March 28, 2002

Blank page retained for pagination

FOREWORD

Prior to 1935 this publication constituted the statistical sections of the Annual Report of the Chief of the Weather Bureau. The practice of publishing annual meteorological statistics in a separate volume, entirely disassociated from the Annual Report of the Chief of the Weather Bureau, was inaugurated in 1935 to avoid some duplication in printing but primarily to make printed meteorological matter more accessible to the public and to conform with similar publications of foreign nations.

The discussions and statistics presented herein concern principally the climatological phase of meteorology. Statistical data relating to the work of all the Divisions of the Weather Bureau are published currently in the Monthly Weather Review. From time to time special articles, based on the statistical data collected by the several Divisions of the Bureau, appear in the Monthly Weather Review and its supplements.

J. P. KOHLER, *Editor.*

CONTENTS

	Page
General summary of the weather conditions in the United States during the year 1936	1
Review of the weather conditions, by months, during 1936	3
The cold winter of 1935–36	16
The 1936 drought	17
Droughts in the United States	22
Tornadoes, 1936	23
Hail, 1936	40
Losses from windstorms, 1936	42
Sunshine, 1936	44
Excessive rainfall, 1936	52
Monthly and annual evaporation, 1936	58
Annual meteorological summaries, 1936	63
Explanation of the tables	60
Annual chart of precipitation, 1936	160
Charts of temperature and precipitation departures for the crop season of 1936	157–159

GENERAL SUMMARY OF THE WEATHER CONDITIONS IN THE UNITED STATES DURING THE YEAR 1936

REVIEW OF THE WEATHER CONDITIONS DURING 1936

The year 1936 compared to 1935 based upon observations from some 180 first- and second-order stations averaged 0.3° warmer; precipitation similarly compared averaged 1.1 inches below the subnormal 1935 departure of 0.6 inch. Since 1929, the annual mean temperature for the United States, all sections considered, has been consistently above normal; 1931 was the relatively warmest with a plus departure of 2.6°; 1934 second with plus 2.5° and 1933 third with plus 1.8°. The mean annual precipitation for the same period averaged subnormal in all years, except 1932, which was slightly above normal. The year 1930 was relatively driest with a departure of minus 4.5 inches from the average.

Table 1 shows that for the year as a whole only one section of the country, the upper Lake region, averaged colder than normal with a departure of minus 0.3° while the North Dakota section averaged exactly normal. The remaining 19 sections averaged above-normal warmth, nine of which, all west of the Mississippi River, averaged better than 1° above normal. The relatively warmest section for the year was the south Pacific (principally southern California). The relatively warmest month was July, the entire country averaging 3.7° above normal. May, August, and March were also especially warmer than normal with respective positive departures of 3.5°, 3.2°, and 3.1°. In fact, only 3 months averaged subnormal warmth; namely, January, February, and November. February was by far the coldest month with an average temperature of 6.2° below normal. Only five sections in February averaged above-normal warmth, while sections comprising the northern Plains area experienced unparalleled cold weather with negative departures from normal for the month ranging from 16° to more than 20°. The table also shows that the trend of temperature for the country as a unit aside from a slight departure during April was persistently above normal from March to October, inclusive, and was especially warmer than average from the first of May through August.

TABLE 1.—*Monthly and annual temperature departures, 1936*

[Compiled from tables entitled "Climatological data for Weather Bureau stations" contained in the 12 issues of the Monthly Weather Review during 1936]

Districts	January	February	March	April	May	June	July	August	September	October	November	December	Annual
New England	+0.1	−4.9	+7.2	−0.8	+2.1	+0.5	−0.7	+0.2	+0.2	+0.5	−2.3	+3.1	+0.4
Middle Atlantic	−2.8	−5.4	+6.5	−1.7	+2.6	+.3	+1.5	+2.1	+1.9	+1.6	−1.7	+3.4	+.7
South Atlantic	−2.4	−3.7	+3.8	−1.2	+1.9	+.9	+1.8	+2.0	+3.3	+2.8	−.7	+2.0	+.9
Florida Peninsula	+1.7	+.1	−.2	+1.3	+.3	−.6	+.7	+.2	+1.3	+2.9	+.1	+3.4	+.9
East Gulf	−1.3	−3.7	+3.8	−1.3	+1.7	+2.7	+1.1	+1.5	+3.5	+2.0	−1.2	+2.1	+.9
West Gulf	−1.8	−5.9	+4.0	−1.6	+.5	+2.6	+.5	+3.1	+2.8	−2.5	−2.9	+2.5	+.1
Ohio Valley and Tennessee	−5.6	−6.5	+4.2	−3.5	+3.0	+2.3	+3.8	+4.9	+4.1	+.4	−3.0	+3.4	+.6
Lower Lakes	−2.7	−6.9	+4.8	−2.8	+2.9	.0	+1.9	+2.2	+2.5	+.1	−3.5	+3.6	+.2
Upper Lakes	−2.5	−10.3	+3.4	−3.9	+4.3	−1.9	+4.4	+2.5	+2.6	−2.5	−3.6	+3.5	−.3
North Dakota	−10.7	−20.4	+2.8	−4.6	+7.8	+3.2	+12.3	+4.6	+3.3	−1.4	+1.4	+2.2	.0
Upper Mississippi Valley	−6.7	−12.8	+4.3	−3.4	+5.7	+.5	+8.2	+6.4	+3.9	−.8	−1.9	+4.7	+.7
Missouri Valley	−7.4	−13.2	+5.9	−1.5	+6.0	+3.9	+10.3	+8.8	+4.6	−.9	−.9	+4.4	+1.7
Northern Slope	−.2	−16.7	+1.5	−.1	+7.0	+4.7	+8.4	+4.1	+1.9	+1.6	−.4	+2.1	+1.2
Middle Slope	−.6	−8.3	+4.6	+1.2	+4.2	+4.6	+6.2	+6.6	+2.2	−1.9	+.7	+4.7	+2.0
Southern Slope	−.7	−1.6	+3.6	.0	+.6	+2.6	+.2	+3.1	+.1	−2.6	−1.9	+3.4	+.6
Southern Plateau	+1.3	+.8	+2.7	+4.1	+3.5	+3.6	+1.7	+2.2	.0	+.7	+.9	+1.6	+1.9
Middle Plateau	+3.4	+1.5	+1.4	+4.1	+4.2	+3.6	+2.9	+1.9	−.4	+1.7	−1.3	+1.4	+2.0
Northern Plateau	+2.9	−9.7	−1.6	+3.9	+5.8	+3.2	+4.2	+3.2	+.6	+4.3	−3.7	+3.5	+1.4
North Pacific	+3.9	−4.4	−1.2	+3.6	+3.7	+3.4	+2.1	+2.4	+.6	+3.2	−.2	+1.5	+1.6
Middle Pacific	+3.6	+1.3	+1.6	+2.4	+3.3	+2.6	+2.4	+1.8	+2.3	+2.9	+1.9	−.2	+2.2
South Pacific	+3.8	+.9	+1.8	+1.4	+3.1	+1.6	+3.3	+2.5	+1.8	+2.3	+4.4	+1.2	+2.3
United States	−1.2	−6.2	+3.1	−.2	+3.5	+2.1	+3.7	+3.2	+2.1	+.7	−.9	+2.7	[1] +1.0

[1] Mean of 12 monthly values.

Extremes for the year were well within the previous records of −66° (Riverside Ranger Station, Yellowstone Park, Wyo., February 1933) and 134° (Greenland Ranch, Calif., July 1913).

Temperatures of 100° or higher occurred in 45 States; in Maine, Vermont, and Rhode Island, the maximums for the year were 96°, 97°, and 94°, respectively. The highest maximum for the year was 126° on August 6 at Greenland Ranch, Calif.; in 1935 the yearly maximum was 123° on July 13 at Cow Creek also in California. The lowest temperature for the year was −60° on February 15 at Parshall, N. Dak. For the preceding year the lowest was −51° on January 23 in Crow Wing County, Minn.

Temperatures of freezing or below occurred in every month of the year and in every State at some time during the 12 months. July brought minima of freezing or below to several States, the lowest for the month being 26° recorded in California, New Mexico, and Oregon. August brought similar minima to several States and the lowest of record for the month in the State of New Mexico, 25°, was equalled on the 26th at Therma, elevation 8,219 feet. Minima of zero or lower occurred in all States, except Louisiana and Florida, at some time during the 12-month period. In many States minima of −20° or below were reported.

Table 2 shows that for the United States, as a whole, precipitation during the year 1936 averaged 1.7 inches below normal. In 7 of the 21 climatological divisions, the annual rainfall was above normal, the Florida section being the relatively wettest with a plus departure of 11.4 inches; also, excesses were quite pronounced in the New England, Middle, and South Atlantic districts. The remaining divisions averaged below normal precipitation; decidedly deficient shortage of rainfall prevailed in the north-central Plains and interior Valley regions. On a monthly basis only 4 months, January, February, September, and December, were wetter than normal while for the period from March to August, inclusive, rainfall was consistently below normal.

TABLE 2.—*Precipitation departures, monthly and annual, 1936*

[Compiled from tables entitled "Climatological data for Weather Bureau stations" contained in the 12 issues of the Monthly Weather Review during 1936]

Districts	January	February	March	April	May	June	July	August	September	October	November	December	Sum
New England	+2.4	−0.5	+2.6	+0.3	−1.4	+0.8	−1.4	−0.3	+0.5	+0.4	−1.5	+3.5	+5.4
Middle Atlantic	+2.7	−.2	+1.3	.0	−1.3	+.1	−1.3	−.4	+.3	.0	−1.3	+1.7	+1.6
South Atlantic	+2.0	+.7	+1.9	+1.9	−2.4	−1.1	+.5	−.4	+.4	+2.2	−.6	+1.8	+6.9
Florida Peninsula	+.8	+3.1	+1.5	−.8	+.8	+6.1	+1.6	+1.6	−2.3	−1.1	−.1	+.2	+11.4
East Gulf	+4.8	+1.8	−2.4	+2.0	−1.4	−2.5	+1.1	.0	−1.2	−.3	−1.0	+.6	+1.5
West Gulf	−1.7	−1.4	−1.3	−.8	+2.7	−1.9	+1.4	−1.5	+1.8	−.5	−1.0	.0	−4.2
Ohio Valley and Tennessee	−.7	−.7	+.5	+.1	−2.1	−2.5	.0	−.9	+.2	+1.0	.0	+.3	−4.8
Lower Lakes	−.6	−.1	+1.7	.0	−1.5	−1.2	−1.2	−.6	+.8	.0	−.1	−.6	−3.4
Upper Lakes	+.2	.0	−.7	−.4	−.8	−1.9	−2.4	+.8	+1.4	.0	−1.1	+.3	−4.6
North Dakota	−.1	+.3	+.2	−1.2	−1.7	−2.5	−1.8	−1.2	−.4	−.9	−.3	−.2	−9.8
Upper Mississippi Valley	−.2	.0	−.3	−1.0	−2.2	−1.9	−2.6	−.1	+2.7	−.1	−.7	+.7	−5.7
Missouri Valley	+.2	−.5	−1.3	−1.3	−.8	−2.7	−3.1	−2.0	+2.1	−.6	−.8	+.3	−10.5
Northern Slope	.0	+.3	−.1	−.5	−1.2	−.6	−.5	−.3	−.5	.0	−.4	.0	−3.8
Middle Slope	−.1	−.6	−.8	−1.6	+.5	−2.1	−1.9	−1.1	+2.0	.0	−.9	.0	−6.6
Southern Slope	+.1	−.6	−.4	−.4	+2.0	−1.0	−1.0	−1.6	+2.5	−.6	−.7	−.4	−2.1
Southern Plateau	−.1	+.3	−.3	−.3	−.1	−.2	+.3	−.4	+.8	.0	−.1	+.1	.0
Middle Plateau	−.1	+1.1	−.2	−.6	−.8	+.3	+.7	+.2	−.2	+.3	−.5	+.4	+.6
Northern Plateau	+.8	+.3	−.4	−.5	−.8	+.4	+.2	.0	−.2	−.9	−1.3	−.6	−3.0
North Pacific	+2.1	−.4	−1.0	−1.4	+1.0	+1.3	+.3	−.1	−1.1	−2.9	−5.5	−.7	−8.4
Middle Pacific	+1.0	+3.6	−2.3	+.2	−.2	+.4	+.1	.0	−.6	−1.2	−3.4	−.9	−3.3
South Pacific	−1.6	+3.5	−.8	−.3	−.4	.0	.0	+.1	−.1	+1.3	−.8	+2.8	+3.7
United States	+.6	+.5	−.1	−.3	−.6	−.6	−.5	−.4	+.4	−.2	−1.0	+.5	[1] −1.7

[1] Sum of 12 monthly values.

The snowfall for the 12 months of the year based on State figures averaged predominately in excess of normal values in practically all States. Only a few States in the lower Mississippi Valley and New York, Delaware, New Jersey, and southern New England averaged below normal. Negative departures, as a rule, were of small magnitude. Idaho averaged 79.2 inches for the year; Colorado 75.3; Utah 74.7 (third greatest annual snowfall since State-wide records began) Wyoming 67.5; Minnesota 65.9, and Montana 59.6 inches. The greatest plus departure from normal was 24.1 inches for the State of Utah. In the more Eastern States, northern New England averaged 89.4 inches, departure from normal +7.6; southern New England 43.0, −3.8; New York 65.7, −2.7; and Pennsylvania 50.1 inches, departure from normal +0.8 inch. The remaining Atlantic Coast States, also the east Gulf States, had above-normal snowfall, plus departures generally being in the neighborhood of 3 to 5 inches, though North Carolina received the second greatest average snowfall of record, 19.8 inches or 11.3 inches above normal.

The year's weather was not so evenly disposed as the mean values in tables 1 and 2 indicate; instead the weather of 1936 was characterized by marked extremes in temperature and precipitation. During January and February unparalleled, prolonged periods of subzero temperatures, together with abundant snowfalls, obtained in the northern and central interior States. In March heavy rains in the Northeastern States, augmented by the melting of heavy snowcover, produced floods which incurred damage amounting to many millions of dollars. Many States in the New England district reported excess monthly precipitation values in excess of normal by 12 to 13 inches. Pinkham Notch, N. H., received 23.86 inches. The following month (April) witnessed the occurrence of severe windstorms and two series of destructive tornadoes in several Southeastern States. The remaining spring months and summer months through August brought on the most severe, widespread drought since State-wide records began. A detailed discussion of the record-breaking temperatures prevailing in the Midwestern States and the distribution of precipitation will be found in the monthly discussion of weather which follow, also in the discussion of the 1936 drought on page 17. Meteorological conditions in the closing months of the year, aside from heavy rains in September over the southern Plains States, tapered off without any marked deviation from normal conditions which so strongly characterized the preceding 8 months.

Comparative annual data.—Greatest station annual precipitation reported, 127.19 inches, at Big Four, Wash., elevation, 1,748 feet. Highest maximum temperature reported during the year was 126°, occurring on August 6, at Greenland Ranch, Calif. Other near-maximum temperature values were 125° on July 17, also at Greenland Ranch, Calif., and 124° on June 21, at Cow Creek, Calif. Lowest minimum temperature for the year was −60°, occurring at Parshall, N. Dak., on February 15; on the same day two stations in Montana had minima of −59° each, and on the 17th of February, McIntosh, S. Dak., recorded a minimum of −58°.

Section averages (annual basis).—The highest section mean temperature was 71.0° for Florida (departure from normal, +0.2°); the lowest section mean temperature was 38.8° for North Dakota (departure from normal, −0.5°). The greatest section average annual rainfall was 60.65 inches for Alabama (departure from normal, +6.78 inches). North Carolina, with an annual rainfall for 1936 amounting to 60.28 inches (departure from normal, +10.61 inches), exceeded any previous years' totals since State-wide observations were begun in 1887. The total rainfall, 58.23 inches, for South Carolina, was the third greatest of record; southern New England, with 51.70 inches, noted the second greatest rainfall of record; and northern New England, with an average of 48.68 inches, amounted to the third greatest of record. One State in the West, namely, Utah, with an annual rainfall averaging 16.97 inches (departure from normal, +4.08 inches) noted the second greatest rainfall of record since the commencement of State-wide observations. North Dakota averaged the lowest section annual rainfall with a total of 8.83 inches (departure from normal −8.26 inches); it was also the lowest State annual rainfall of record for North Dakota. Two other States, namely, South Dakota and Kansas, received the least rainfall of record since State-wide observations were begun; the respective amounts were 10.93 inches (departure from normal, −8.07 inches); 18.31 inches (departure, −8.43 inches). The State annual precipitation averages were second lowest of record in Minnesota and Missouri, and third lowest of record in Nebraska and Oklahoma.

Maximum temperatures, highest of record, were broken in 15 States during the months of July and August, and in 3 other States, the highest maximum temperatures of record were equaled.

During the year, 1,124 stations reported at least 1 month with no precipitation, and 119 stations had a month with totals of less than 0.01 inch. The greatest monthly total was 29.97 inches, at Bowman Dam, Calif., in February.

JANUARY

The mean January weather of 1936 from the standpoint of temperature was the resultant of two definite and decided trends over the greater part of the country. In order of time, the first trend (warm) prevailed from the 1st to near the 15th in the north-central and Great Plains States and progressively longer in the regions east and southeastward; up to the 18th and 19th in the Ohio Valley and Tennessee, and generally as late as the 20th in the middle and South Atlantic States. During this period, abnormally mild weather prevailed in the Central and Eastern States.

The second and more persistent trend (cold) followed the previous warm trend quickly and decidedly, and continued practically unabated in most sections during the remaining days of January. Conditions were most severe in the northern portions of the Great Plains States and the upper Mississippi Valley and to a lesser extent in the middle Mississippi and Ohio Valleys. In North Dakota, January 1936, was the third coldest month in the climatic history of the

State. Many stations in the eastern division reported the lowest minimum temperatures ever recorded and some stations reported minimum temperatures below zero on all days and maximum temperatures below zero on most days. Similar conditions prevailed in South Dakota. Temperatures were below zero constantly, except for some southwestern stations, after the middle of the month, ranging from −20° to −30° on several days over the southern half and lower than −30° in the northern half—in all making the month the fourth coldest since records began in 1890. With two exceptions, January 1912 and 1929, the month in Minnesota averaged the third coldest of record. At Minneapolis-St. Paul the first week of the third decade was the coldest 7-day period since 1912. Also, at a second first-order Weather Bureau station, Moorhead, Minn., the temperature was not above zero from 10 a. m. of the 14th to the close of the month—being the longest period of zero or lower maximum temperatures on record at that station. The State average temperatures in North Dakota, South Dakota, and Minnesota were, in the order named −5.8°, 5.8°, and −1.4°, with respective departures from normal of −12.1°, −10.2°, and −10.8°; in brief, these three States constituted the coldest area in the United States.

Conditions in Wisconsin and Michigan were somewhat less severe than in the afore-mentioned States. However, in Iowa a cold spell which began about the middle of the month developed into the most prolonged period of subzero (extending into February) temperatures Iowa has ever experienced in more than a century. In the Ohio Valley daily temperatures in Illinois and Indiana averaged approximately 25° below normal in the last decade and were abnormally low in Ohio, West Virginia, and Kentucky. Several States in the east Gulf and South Atlantic areas experienced severe cold in the last decade. Mississippi and Alabama recorded the coldest January since 1924, Arkansas the coldest since 1930, North Carolina the coldest back to and including 1919, South Carolina the coldest since 1918, and freezing temperatures were noted in Florida as far south as Orlando, Ocala, and St. Leo. Ohio and South Carolina established new monthly minimum temperatures, −25° and −4°, respectively.

In the east Gulf and Southeastern States the rapid transition from warm to decidedly cold weather was accompanied by excessive rains, record-breaking snowfall in many instances, and severe local storms, the latter incurring considerable damage. One of the most notable snowstorms ever known in Georgia occurred on the 29th and 30th. This covered the ground to a depth of 4 inches or more, throughout the State as far south as Newman, Griffin, Greensboro, Monticello, and Washington. In Atlanta the snowfall amounted to 8.0 inches, the largest amount ever measured there in a single storm.

As in the Eastern States, the Pacific Northwest experienced two definite and similar temperature trends, only here the cold trend was displaced close to the end of the month and the mean temperatures averaged 2° or slightly better above normal. However, in Washington and Oregon freezing temperatures were reported generally to the coast at the close of the month and zero temperatures at a number of stations east of the Cascade Mountains.

Temperature conditions in California and the major portion of the Great Basin were above normal and unusually mild weather prevailed in Nevada, where the State temperature averaged 4.1° above normal.

Without exception, the mean monthly temperature, by States, was below normal in all States east of the Rocky Mountains to the Atlantic coast, and in Arizona and New Mexico, whereas they were above normal in Pacific Coast States and in Colorado, Utah, and Nevada. The greatest negative departures from normal occurred in the northern Plains States and the upper Mississippi Valley, ranging from nearly 11° to more than 12°. In the middle Mississippi and Ohio Valleys the magnitude of negative departures generally ranged from 6° to 9°, while in the Gulf Coast and Atlantic States the order of negative departures was generally in the neighborhood of 2° to 4°.

Precipitation for January was extremely variable in amount in different areas. From the east Gulf section northward over the Atlantic States the monthly totals were large, being decidedly in excess of normal. Alabama, with an average of 12.34 inches, excess 7.32; North Carolina with 7.79 inches, excess 4.06; and Delaware, 7.23 inches, excess 3.85, established new maximum precipitation records for the month. Falls were second greatest of record in Georgia and Maryland, and third greatest of record in Florida, South Carolina, and New Jersey. West of this belt of heavy precipitation there was another extending from Texas northeastward to the Lake region where scanty amounts were received. Negative departures in this strip ranged from close to an inch in Illinois to as much as 3.17 inches in Arkansas, where it was the second driest month of record. North and westward of this last named belt, with the exception of Arizona, which was approximately a half an inch below normal, all States received normal or amounts moderately in excess of the usual values, while in the Pacific Northwest and northern Plateau region precipitation was decidedly heavy, amounts in excess of normal ranging from 1.55 inches in Idaho (the third greatest of record for January) to 2.92 inches in Oregon (second

greatest of record for January). The snowfall was surprisingly in excess of normal in practically every State. Only four States, Delaware, Arizona, Nevada, and California, had averages below normal. Amounts were unusually heavy and record breaking, or nearly so, in the Plains States, middle Mississippi Valley, and east Gulf States and in the northern portion of the South Atlantic States. In Iowa, with an average fall of 19.4 inches, the excess of normal was 12.5 inches, and it was also the greatest State average of record. Likewise, Alabama, with 3.7 inches, and Georgia, with 3.3 inches, established new monthly snowfall records, and falls were second greatest of record in Mississippi, and South Carolina, and third greatest of record in Nebraska, with an average of 11.3 inches. The unusually heavy snows in the North and Central States incurred considerable traffic difficulties and at times in Iowa, Minnesota, and the Dakotas even restricted railroad traffic. However, in a large measure, the snowcover afforded ample protection to winter grains and very little destructive freezing was reported, except in the southern portions of the southern Plains States. In the northern mountain regions of the far West, snowfall was generally above average. However, at the Weather Bureau mountain stations in California only 30 percent of normal snow fell, which amounted to about one-sixth of the January 1935, average. The greatest snowfall at any station was 163 inches at Paradise Inn, Wash., and 134 inches remained on the ground at the end of the month. The greatest amount at any of the elevated stations of California was 113 inches at Soda Springs and the greatest 24-hour amount was 26 inches at the same place. Snowfall was greatly deficient in the mountain regions of Arizona and the outlook was unfavorable for adequate run-off for reservoirs.

Owing to deficiencies in precipitation duststorms were reported on the 12th, 15th, and 24th in Oklahoma.

Comparative monthly data.—Greatest station rainfall, 27.48 inches, for Cougar (near), Wash. Lowest temperature, −55° at Warroad, Minn., January 23; highest temperature, 98°, January 17, at Laredo, Tex. Section averages: Highest temperature, 58.9° for Florida; lowest temperature average, −5.8° for North Dakota. Greatest precipitation average, 12.34 inches for Alabama; lowest precipitation average, 0.56 inch for North Dakota. Section departures from normal: Greatest plus temperature departure, 4.1° for Nevada; greatest minus temperature departure, 12.4° for North Dakota; also, Minnesota and South Dakota were near with 10.8° and 10.2° respectively. Greatest plus precipitation departure, 7.50 inches for Alabama; greatest minus precipitation departure, 3.17 inches for Arkansas. Fifteen stations reported no precipitation for the month, and 3 reported totals of less than 0.01 inch.

FEBRUARY

The extremely low temperatures prevailing at the close of January continued without abatement over the far Northwest, the northern Rockies, Dakotas, and upper Mississippi Valley during February. In the State of Washington the temperature averaged 22.5°, or 12.7° below normal, making it the coldest February of record. Approximately 62 percent of the stations in the west portion reported the coldest February of record and the same was true of 78 percent of the stations in the eastern district. In Oregon it was the coldest February since State-wide records began in 1887. However, in the southern half temperatures were near normal. In Montana the monthly temperature average was 10° colder than any previous February and ranked second among the coldest months of the year. In fact, the mean temperature, −0.7°, was only 0.6° removed from the lowest of record, January 1916. Marked contrast of temperatures existed in Wyoming; the southwest was unusually warm, while the north and east sections were decidedly colder.

In a large north-central area embracing the Dakotas, Minnesota, and Wisconsin, the persistence of low temperatures was without parallel in their climatic history. In the Dakotas February 1936, was the coldest month of record. The mean temperature for North Dakota averaged −12.9° (departure from normal −22.6°) and was 10.8° colder than the next coldest February (1905) and 6.5° lower than the coldest January of record. The temperature averaged −3.8° in South Dakota, or 22.3° below the usual average. Record-breaking minimum temperatures were established in both States, −60° at Parshall, N. Dak., on the 15th and −58° at McIntosh, S. Dak., on the 17th. Also, it might be mentioned at this time that two stations in Montana recorded a minimum temperature of 50° below zero on the 15th.

In Minnesota and Wisconsin the degree of severity was lessened but little. In the former State, temperature averaged −5.5°, or 17.8° below normal, while in Wisconsin the average was −2.8°, or 19.6° below the usual value—in all being the coldest February and the second coldest month on record in both States. At Moorhead, Minn., it was the coldest month of record (observations began in 1881) and at Duluth the coldest, except 1875, while at Minneapolis-St. Paul, February 1936, was the coldest of record since observations were begun at Fort Snelling in 1819. There were 22 consecutive days at Minneapolis-St. Paul with minimum temperatures

below zero, which is the greatest ever recorded during any month of the year at that station. The intensity and duration of cold weather in this region was reflected in ice thicknesses on Lake Michigan. On February 22, surface ice extended unbroken from Milwaukee, Wis., to Muskegon, Mich., a distance of slightly more than 80 miles.

Only slightly less phenomenal cold weather obtained over the Lake region, the Northeast, central valleys, central and southern Plains States, and west Gulf region. However, persistently low temperatures over these areas, except in the New England States, came to an abrupt conclusion within the first few days of the last decade and thereafter the temperatures were mostly moderate to abnormally high. Nevertheless, the 22 days of abnormal cold sufficed to lower the mean State temperatures to record-breaking levels in many instances. In Nebraska, the temperatures averaged 8.9°, or 17.3° below normal, and was the coldest month in 60 years, of record. Iowa recorded the coldest February of record, the mean temperature being 6.0°, or 16.3° below normal. In Illinois and Indiana the month averaged the second coldest February of record and temperatures were unusually subnormal southward to the central Gulf coast, and freezing temperatures were noted frequently from the 1st to the 22d in Louisiana almost to the coast.

In the more Southeastern States, January cold weather prevailed only the first few days of February, with several intermittent cold periods thereafter. In Pennsylvania, New York, and the New England States the cold weather was generally continuous and quite stormy, but not as severe as in the Western States. Stations along the northern coast reported but few days with maximum temperatures 32° or above, and practically none in the interior. On February 4, winds of gale force (70 miles per hour or more) occurred at Buffalo, N. Y. and vicinity, and the thickness of ice increased from 11 inches on the 3d to 24 inches by February 24.

Temperatures were near normal in the far Southwest and California and averaged better than 1° above normal in the major portion of the Great Basin area. In February the average temperature on a State basis was below normal in all States, except Nevada and Utah. Aside from the enormous negative departures previously mentioned in the northern and central sections, minus departures ranged from 3° to near 5° in the South Atlantic, Gulf, and Southwestern States.

Prolonged and severe cold in the northern and northwestern States was extremely hard on livestock and necessitated heavy feeding. Winter grains were generally well protected in the northern parts of the Winter Wheat Belt, particularly from northern Missouri and northeastern Kansas northward. In the Ohio Valley conditions were not quite so favorable. Inadequate snowcover over the southern part increased injury. The same was true in most sections of the central Plains States. Cold weather prevented much growth of grains in Oklahoma and Texas and the lack of soil moisture and normal rains resulted in some damage by soil blowing in the western counties of Oklahoma.

As in the month of January, precipitation was again heavy in the Middle and South Atlantic States, and the extreme eastern section of the east Gulf. In Florida, precipitation averaged 6.77 inches (departure from normal +3.63), the greatest February rainfall of record, and from Alabama northeastward to Maryland and Delaware the positive departures ranged from 0.66 inch in North Carolina to 2.05 inches in Alabama. Precipitation was unusually heavy in the northern and central Rocky Mountains and far Western States. In Utah, the State rainfall averaged 2.90 inches, establishing a new all-time February record, and precipitation averages were second greatest of record in Montana, Wyoming, and California, and third greatest of record in Nevada. From Montana eastward to the Lake region the average precipitation values were somewhat above normal, generally half an inch below normal in Pennsylvania, Ohio, and the New England States, and near normal in the western Ohio Valley, while southwestward over Missouri, Nebraska, Oklahoma, and Arkansas to Texas the rainfall was again decidedly below normal. Deficiencies in these areas generally ranged from half an inch to a maximum of 1.59 inches in Arkansas. It was the third driest of record in Nebraska and Oklahoma and fourth lowest of record in Texas.

Except for a few States, namely Arizona, Missouri, Oklahoma, and Texas, all sections had above-normal snowfall for the month. Falls were exceedingly heavy in the Rocky Mountain and Pacific States and in the upper Mississippi Valley. Measurements on a State average basis were the greatest of record in Montana, Wyoming, Iowa, and Wisconsin, and equaled the greatest monthly record in Utah and Minnesota. The outlook for adequate moisture supply in the principal irrigating States in the West was unusually favorable. In California the February snowfall at mountain stations averaged 205 percent of the normal. Ellery Lake, Calif., reported a monthly total of 186.6 inches, and Snoqualmie Pass, Wash., 136 inches.

Comparative monthly data.—Greatest station rainfall reported, 29.97 inches at Bowman Dam, Calif. Lowest temperature reported, −60° on the 15th at Parshall, N. Dak.; also, two stations in Montana reported −59° on the same day and on the 17th a minimum of −58° occurred at McIntosh, S. Dak. Section averages: Highest temperature, 58.0° for Florida; lowest tempera-

ture, −12.9° for North Dakota. Greatest precipitation, 9.51 inches for California; lowest precipitation average, 0.23 inch for Kansas. Section departures from normal: Greatest plus temperature departure, 1.2° occurring in two States, Nevada and Utah; greatest minus temperature departure, 22.6° for North Dakota. Negative departures for the States of Montana and South Dakota were nearly as great, with the respective values, 22.4° and 22.3°. Greatest plus precipitation departure, 5.17 inches for California; greatest negative precipitation departure, 1.59 inches for Arkansas. Sixty stations, mostly located in the Southwest, reported no precipitation for the month, while an additional 17 stations reported less than 0.01 inch for the month.

MARCH

March weather, from the standpoint of temperature, in contrast to the preceding months, of the year, averaged unusually mild, with mean values generally well above normal. However, some Northwestern States experienced cold weather the last 2 weeks or 10 days, which brought the monthly average to a level somewhat below normal in Washington, Oregon, and Idaho, and normal or near normal in Montana, Wyoming, and Utah. Elsewhere, except Florida (exactly normal) above-normal warmth prevailed. The positive departures ranged generally from 1.5° to 2° in the Southwest, somewhat greater in the east and west Gulf States, between 4° and 6° in the central and southern Plains States and in the Ohio Valley and Tennessee, and in excess of 6° in New York and the New England section.

In keeping with the abnormalities in one or more of the basic climatic elements (temperature and precipitation) which so definitely marked January and February, March 1936, was outstandingly wet in the Northeastern States and equally deficient of moisture in the Midwest. From Tennessee and the Carolinas northeastward over the western Ohio Valley and Atlantic States to the New England district, inclusive, monthly precipitation averages were decidedly in excess of normal, ranging mostly from 1.50 inches above normal to more than 4 inches in the New England States. In the Virginias, Maryland, and New York precipitation averaged the second greatest March monthly amounts of record and the greatest March average of record in Pennsylvania and New England districts. Heavy precipitation in the Northeastern States resulted in disastrous floods in New England, Pennsylvania, and New Jersey.

West and south of this abnormally wet area precipitation averaged moderate to decidedly below normal, except in the extreme Northern States west of the Mississippi, the extreme Southwest and Florida. A considerable area in the Midwest southward to the Gulf, including the east Gulf States, received decidedly below-average rainfall. In Missouri, Arkansas, Louisiana, Mississippi, and Alabama the negative departures from normal ranged from close to 2 inches to nearly 3 inches. State averages were third lowest of March record in Missouri, Arkansas, and Oklahoma, and second lowest in Kansas, where precipitation averaged approximately 10 percent of normal. In the latter State, a large number of counties in the western and south-central parts failed to receive measurable amounts of precipitation on any day. In 22 counties the monthly rainfall averaged a trace, while 5 other counties received none. The month was also decidedly dry in California, lacking more than 1.50 inches of normal precipitation.

Snowfall during the month was somewhat above normal in the north Pacific, generally in the Plateau States, and from southern Michigan southeastward to Kentucky, West Virginia, and to the Atlantic Coast. Elsewhere, falls were generally from a fraction to 1 or 2 inches below normal. In Washington the average depth on the ground at the end of the month on the western slope was 60.1 inches, and 70.8 inches on the eastern slope. In the Snoqualmie Pass, in the timber at one location the snow depth was 126 inches, with a density of 37 percent of that of water. In general, snow storage over the principal basins of the Western States was generally favorable for adequate reservoir supply.

As a result of decidedly subnormal precipitation in many of the Midwestern States, duststorms were quite frequent and often severe in many States, but generally less severe than March a year ago. Duststorms were frequent in the western half of Kansas, especially in the southwestern counties, and dust was reported on 21 days in Oklahoma. Goodwell, in the Oklahoma Panhandle, reported heavy dust on 18 days. Due to the serious drought existing in the southeastern counties of Colorado for the sixth consecutive month, high winds of 30 to 35 miles per hour on several dates incurred destructive duststorms and considerable soil erosion, reducing visibility at times for several hours to one or less city block. Duststorms were unusually severe in Baca County (Colo.) the last two decades of the month. Dust-bearing rain and snow was noted as far east as Wisconsin, Indiana, and Illinois on several dates, and the atmosphere over lower Michigan was laden with dust on the 23d and 24th. Soil blowing menaced winter grains in many counties in the western portions of Kansas and Oklahoma and considerable areas of winter wheat were reported blown out.

Comparative monthly data.—Greatest monthly station rainfall, 14.65 inches, occurred at Big Four, Wash. Highest temperature, 105° occurred at two stations in California on the 23d; lowest temperature reported, −35° on the 30th at two stations located in Wyoming. Section averages: Highest temperature average, 65.3° for Florida; lowest temperature average, 25.5° for North Dakota. Greatest precipitation, 6.84 inches for Pennsylvania; lowest precipitation average 0.32 inch for New Mexico. Section departures from normal: Greatest positive temperature departure, 6.8° for New York; greatest negative temperature departure, 2.0° for Washington. Greatest plus precipitation departure, 3.30 inches for Pennsylvania; greatest negative precipitation departure, 2.83 inches for Mississippi. Eighty-three stations, for the most part located in New Mexico, Oklahoma, and Texas, reported no precipitation for the month, and 11 stations reported monthly totals of less than 0.01 inch.

APRIL

The month of April 1936, was cool for the season over all sections east of the Rocky Mountains excepting Oklahoma, Colorado, and New Mexico, which averaged slightly above normal. West of the Rockies, mean State temperatures were, without exception, above normal; plus temperature departures ranging over 2° in Washington, Oregon, and Arizona, and over 4° in Nevada.

The monthly departures from normal temperature over the eastern two-thirds of the country ranged generally from deficiencies of 1° to 2° in the Gulf and Atlantic sections to 4° or more in the area from the Lake region westward to the northern Great Plains.

The month opened (week to 10 days) cold in most north and central sections west of the Rockies, followed by generally above-normal warmth thereafter. However, in this short cold period record-breaking April minimum temperatures were established in the following three States on the 1st: Washington, −7° at Lake Keechelus; Idaho, −21° at Alpha, and Oregon, −23° at Meacham. East of the Rocky Mountains the first week or 10 days were unusually cold in a large north-central area and continued mostly subnormal the remainder of the month. Record April minimum temperatures were established in the following six States: −13° in South Dakota on the 3d; −15° in Nebraska on the 2d (all but 10 stations in Nebraska established new low April minimum temperatures); −2° in Kansas on the 2d; 6° in Oklahoma; 5° in Texas; and 17° in Arkansas. In South Carolina a minimum of 18° equaled the lowest April temperature of record. In general, in many north and central States, the month averaged the coldest April in the last 8 to 15 years.

Precipitation during April was considerably subnormal over more than three-fourths of the country. Above-normal rainfall was confined to areas in the Atlantic and east Gulf sections, New York and New England received more than the usual amount, while in Pennsylvania, New Jersey, Maryland, and Delaware, precipitation averaged below normal. Southward to Florida, including West Virginia and Ohio, precipitation averages ranged from slightly above normal to record-breaking levels in Georgia and South Carolina. Georgia received on the average 7.92 inches or 4.20 inches in excess of normal; South Carolina, 8.27 inches or 5.10 inches above normal, averages which exceeded considerably any previous April rainfall average on record. North Carolina received on the average 5.59 inches, amounting to the fourth greatest April rainfall of record. In direct contrast to excess moisture, in the Southeast, a large area extending from northern Texas, Oklahoma, much of Kansas, westward to central Utah and Arizona, there was less than 25 percent of normal rainfall for the month, with some sections having less than 10 percent of normal. At Oklahoma City there was scarcely enough rainfall to measure, the total being about 1 percent of normal, and the State average for Oklahoma, 0.99 inch (departure from normal −2.36 inches) was less than any previous low April value.

Drought conditions also prevailed in the northern Great Plains and States in the upper portions of the Mississippi and Ohio Valleys. Deficiencies generally ranged in the neighborhood of 1 inch. Rainfall was deficient in Washington, but the remaining Pacific States averaged nearly normal.

April snowfall was below the average in practically all sections subject to appreciable snowfall. However, in a large belt extending from eastern Nebraska and northeastern Kansas northeastward to the Lake region, monthly totals generally exceeded the normal by 1 or 2 inches.

Dusty conditions which had prevailed during the several preceding months continued into April, but with decreased frequency and mostly with diminished severity. Areas subject to frequent and severe duststorms centered in the western portions of Kansas and Oklahoma, northwestern Texas, northeastern New Mexico, and especially east and central Colorado. In portions of the last-mentioned State severe duststorms occurred on many dates, reducing visibility to zero for periods of several hours, greatly interfering with vehicular and air traffic.

Comparative monthly data.—The greatest total rainfall reported, 8.27 inches at Caesars Head, N. C. Highest temperature reported, 111° on the 18th at Quartzsite, Ariz. Section averages: Highest temperature, 70.0° for Florida; lowest temperature, 35.6° for North Dakota. Greatest precipitation, 8.27 inches for South Carolina; lowest precipitation average, 0.14 inch for Arizona. Departures from section normals: Greatest plus temperature departure, 4.9° for Nevada; greatest minus temperature departure, 6.6° for Mississippi. Greatest positive precipitation departure, 5.10 inches for North Carolina; greatest minus precipitation departure, 2.26 inches for Oklahoma. Seventy-nine stations reported no precipitation during the month. Of this number, 41 and 17 were located in Arizona and New Mexico, respectively. In addition, one station reported a monthly total of less than 0.01 inch.

MAY

May 1936, for the greater part of the country, was exceptionally dry and warm. While there were a few abnormally cool periods in the East, especially around the middle of the month in the Lake region and the Northeast and again near the close in the East, the general run of temperature for the month was above normal, except in a few local areas. The cool period resulted in considerable damage to tender vegetation and tree fruits, especially in Michigan and New England and locally elsewhere, but there were no generally harmful frosts.

The mean May State temperatures were above normal in all States. Departures (plus) were close to normal in Florida, Louisiana, and Texas, but elsewhere greater; generally more than 1° to somewhat above 3° in the Atlantic States, eastern Ohio Valley, the far Southwest and Pacific Northwest, and ranged above 4° or 5° in the middle portions of the Mississippi and Missouri Valleys and more than 7° in the western Great Plains States.

Precipitation varied greatly in different areas, even in nearby sections. It ranged from much above normal to markedly deficient, the latter predominating. In the southwest, Texas had heavy rains, averaging 6.52 inches for the month. Louisiana and New Mexico received on the average 1 inch or better above the usual amounts, while Kansas rainfall averaged 1.08 inches above normal. In marked contrast, the northern Plains were very dry, with some stations reporting inappreciable rainfall for the entire month. Deficiencies in Montana, Wyoming, and the Dakotas ranged from 1 inch to 1.5 inches. Also from the Mississippi Valley eastward, except very locally, it was one of the dryest Mays of record, especially in the Southeast where monthly totals over a large area ranged from less than 10 percent to scarcely 25 percent of normal. North Carolina received on the average 0.48 inch, or 3.09 inches below normal, being the least May average rainfall in the State's climatological history. In Georgia, rainfall averaged 1.22 inches, or 2.26 inches below normal, being the second lowest May average of record. In other Southeastern and adjacent interior States, negative precipitation departures were as follows: Alabama, 1.99 inches; Mississippi, 1.77; Tennessee, 2.79; Kentucky, 2.49; West Virginia, 2.98; North Carolina, 3.21, and Virginia, 2.39 inches. Also in Arkansas, Missouri, Illinois, Indiana, and Ohio, precipitation averaged 2 or more inches below the monthly normal. In fact, only seven States, Florida, Louisiana, Texas, New Mexico, Kansas, Washington, and Oregon, had above-normal rainfall, and northern New England received exactly normal.

While droughty conditions had persisted for some time in the central valleys, a sudden reversal from the wet condition existing in the Southeastern States during most of April to unprecedented dryness wrought havoc in the southeastern agricultural sections. There was not enough soil moisture for germination and an abrupt change formed a dry, hard topsoil crust. The following is an excerpt from the Georgia section director's report for the month of May:

"Rainfall in April after the 10th had been remarkably light in the middle and northern sections. Continued dry weather in May and the first week or more of June resulted in one of the most disastrous droughts ever known in Georgia, crop losses for the State being estimated, early in June, at $30,000,000 to $40,000,000. Large areas were without pastures, while white potatoes and other vegetables were practically a failure. The ground was so dry that a great deal of seed never sprouted and stands of cotton were said to be less than 20 percent in some central counties."

Duststorms were less frequent during May than in the preceding month, and dense dust occurred over a smaller area. The maximum number of dense duststorms decreased by about 50 percent, and occurred principally in Colorado, New Mexico, Kansas, Nebraska, and Wyoming. Practically all interior States noted general or local, light dust conditions on one or more days. As in the preceding month, unusually severe duststorms occurred in Baca County, Colo., with considerable damage, and discomfort to inhabitants.

Comparative monthly data.—Greatest total precipitation, 17.88 inches, Port Arthur, Tex.; highest temperature, 110° reported from six stations in Arizona; lowest temperature, 11°, at Ellery Lake, Calif., on the 30th, also reported for Pole Mountain Nursery, Wyo., on the 2d and

other dates. Section averages: Highest temperature average, 75.7° for Florida; lowest temperature average, 57.6° for New England; greatest precipitation average, 6.52 inches for Texas (departure, +2.88 inches); lowest precipitation average, 0.12 inch for Arizona. Section departures from normal: Greatest plus temperature departure, 8.2° for North Dakota; greatest minus temperature departure—all section departures positive; smallest plus departure, 0.1° for Florida. Greatest plus precipitation departure, 2.88 inches for Texas; greatest minus precipitation deparparture, 3.21 for North Carolina. Eight stations reported less than 0.01 inch of rainfall for the month and 117 stations reported 0.00 inch; 48 and 39 stations respectively of the 117 were located in Arizona and California.

JUNE

June, like the preceding month, was exceptionally warm and dry over most of the country east of the Continental Divide. Although rainfall was considerably below normal in the Southeast, timely rains were helpful in some sections. In the Central Valleys and Plains States only light rain occurred, greatly adding to the already large accumulated rainfall deficiency.

The mean temperatures for the month of June, on a State basis, averaged near normal in the Atlantic Seaboard States, the northern half of the Ohio Valley, and in Texas and New Mexico sections. Temperatures averaged somewhat below normal in Minnesota, Wisconsin, Michigan, and slightly so in Florida and California. State mean temperature averages were above normal with plus temperature departures near 2° or better in the north Pacific, the Plateau States, and generally 3° to 4° in the Great Plains States. New June maximum State temperatures were established in the following eight States: Montana, 111°; Nebraska, 114°; Arkansas, 113°; Louisiana, 110°; Mississippi, 111°; Tennessee, 110°; Kentucky, 110°, and Indiana, 111°. Monthly maximum temperatures were equaled in Nevada with 117°; Colorado, 112°, and Kansas, 114°. The lowest minimum temperature recorded, 13°, occurred in California.

Only 12 States or sections had above-normal precipitation, namely, Washington, Oregon, California, Nevada, Idaho, Utah, Wyoming, and Colorado in the West, and Florida, New Jersey, Delaware and southern New England in the East. The large area intervening between the two principal mountain ranges, the Rocky Mountains and the Appalachian Mountains, averaged decidedly subnormal. Throughout the Great Plains States the magnitude of negative precipitation departures varied generally from 1.5 to more than 2 inches. The relatively driest weather occurred in the southern half of the Ohio Valley and the extreme lower Mississippi Valley; the lowest State average was Louisiana with 0.53 inch, or only 11 percent of normal. Kentucky received slightly more than 20 percent, and Tennessee 24 percent of normal. State rainfall averages were lowest of June record in South Dakota, Missouri, Louisiana, Tennessee, Kentucky, Ohio, and West Virginia, and second or third lowest of June record in Illinois, Indiana, and Kansas.

Duststorms were somewhat more frequent but less severe in June than in the preceding month. However, they effected no material damage to crops, partly because of advanced deterioration due to drought conditions and the weak character of the duststorms. In some sections of Iowa and northeastern Montana the degree of intensity was sufficient in some cases to cause discomfort to inhabitants.

Comparative monthly data.—Greatest total precipitation, 24.73 inches, Everglades, Fla.; highest temperature, 124° on the 21st, at Cow Creek, Calif.; lowest temperature, 13° on the 1st, at Ellery Lake, Calif. Section averages: Highest temperature average, 82.1° for Texas; lowest temperature average, 61.6°, Oregon; greatest precipitation average, 8.01 inches for Florida; lowest precipitation average, 0.19 inch, in Arizona. Section departures from normal: Greatest plus temperature departure, 4.8° for South Dakota; also in Wyoming and Montana the temperature departures were +4.3° and +4.1° respectively. Greatest minus temperature departure, 2.3° for Wisconsin. Greatest plus precipitation departure, 1.88 inches, Washington; largest minus precipitation departure, 4.03 inches, Louisiana. Thirty-seven stations in all reported less then 0.01 inch of rain, 32 of which are located in California.

JULY

July was extremely hot and dry throughout the interior of the country. High temperatures and precipitation deficiencies broke established long-time records quite generally in the Great Plains and Central Valley States. In fact, the mean temperature on a State basis was below normal only in New England and Delaware, though in the Pacific Coast States, Rio Grande Valley, and extreme Southeast and Florida Peninsula, plus departure seldom exceeded 1° for the month. From Montana, east and southeastward over the Great Plains States to the western Ohio Valley section, mean monthly State temperatures exceeded normal values 7° to 11°. Highest of record average mean temperatures were established in the following 10 States;

departures from normal are also given: Montana, 74.3°, departure, +7.4°; North Dakota, 79.9°, +11.1°; South Dakota, 84.2°, +11.2°; Nebraska, 83.6°, +8.3°; Kansas, 85.7°, +6.7°; Oklahoma, 86.5°, +4.8°; Minnesota, 77.1°, +7.1°; Iowa, 83.4°, +8.8°; Illinois, 83.5°, +7.1°, and Indiana, 81.4°, +5.7°. New absolute maximum temperature records occurred in the following 14 States: Montana, 113°; North Dakota, 121°; South Dakota, 120°; Nebraska, 118°; Kansas, 121°; Oklahoma, 120°; Missouri, 118°; Wisconsin, 114°; Michigan, 112°; Indiana, 116°; Virginia, 109°; West Virginia, 112°; Pennsylvania, 111°, and New Jersey, 110°. Previously established highest-maximum temperature of record were equalled in Minnesota, Illinois, and Maryland.

The lack of precipitation, decidedly less than normal, over a large interior area extending from Michigan and Indiana westward to the Rocky Mountains and from Missouri and Oklahoma northward, was equally as pronounced as the abnormally high temperature conditions. In fact, all States in this area had less than half of the July normal—most of them much less than half. The relatively dryest States were Iowa, 13 percent; Nebraska, 18 percent; Minnesota, 22 percent, and Oklahoma and South Dakota, 24 percent of normal. The average rainfall for South Dakota, 0.62 inch (departure from normal, −1.83 inches); Nebraska, 6.57 inches (departure from normal, −2.59 inches), exceeded considerably previous lowest-of-record July averages. Rainfall averages on a State basis were second lowest of July record in the following eight States; departures from normal are given also: North Dakota, 0.70 inch, departure, −1.71 inches; Kansas, 0.86 inch, −2.34 inches; Oklahoma, 0.71 inch, −2.17 inches; Minnesota, 0.73 inch, −2.57 inches; Wisconsin, 1.01 inches, −2.54 inches; Iowa, 0.51 inch, −3.17 inches; Illinois, 1.22 inches, −2.03 inches; and Indiana, 1.59 inches, departure from normal, −1.72 inches.

Precipitation deficiencies in the eastern Lake region, Northeastern States, and northern and middle Atlantic States, ranged from 0.63 inch in northern New England to 1.80 inches in Michigan; 1.78 inches in New York, 1.40 inches in Pennsylvania; and 2.32 inches in New Jersey. From Maryland and West Virginia southward to the Gulf and westward to include Arkansas and Texas, rainfall averaged close to normal, except in Tennessee, Alabama, Arkansas, and Texas, where amounts greatly exceeded the average. Respective plus departures for the last four States were as follows: 2.19 inches; 1.76 inches; 1.10 inches, and 1.50 inches. Pacific coast and plateau regions had above normal rainfall, excesses were generally slight to moderate, except moderately large in the central Great Basin. Utah received on the average 2.36 inches (departure from normal 1.45 inches), being the greatest July average of record.

July had only a few duststorms, mostly local in character; with one or two exceptions, they were confined to the area between the Mississippi River and the Rocky Mountains. East of the Mississippi, there were only a few scattered reports of dusty conditions.

Comparative monthly data.—Greatest total precipitation, 24.68 inches, Hallettsville, Tex.; highest temperature, 125°, Greenland Ranch, Calif., on several days; lowest temperature, 26°, at Ellery Lake, Calif. on the 11th, and at Therma, N. Mex., on several dates; also at Meacham, Oreg., on the 25th. Section averages: Highest temperature average, 86.5° for Oklahoma; lowest temperature average, 66.5° for Washington; highest precipitation average, 7.19 inches, Alabama; lowest precipitation average, 0.19 inch, for California. Section departures from normal: Greatest plus temperature departure 11.8° for North Dakota; also South Dakota was near with +11.2°; largest minus temperature departure, 1.2°, New England district; largest plus precipitation departure, 2.19 inches, for Tennessee; largest negative precipitation departure, 3.17 inches, for Iowa. Sixty-one stations in all, 46 located in California, were without the occurrence of any form of precipitation during the month, and 16 stations reported less than 0.01 inch.

AUGUST

August weather was largely a continuation of temperature and precipitation trends of the preceding month—persistent, daily, abnormally high temperatures and decidedly below-normal rainfall over most interior sections. In the northern section of the New England district, temperatures averaged slightly below normal. Southern New England and the remaining 41 climatological sections averaged above-normal warmth. Positive departures, ranged generally from 1° to 2°, except considerably greater in the Great Plains and the interior valley States. Highest August mean temperature of record resulted in the following nine States; departures from normal also given: South Dakota, 76.3°, +5.2°; Nebraska, 79.4°, +6.4°; Kansas, 85.3°, +7.7°; Oklahoma, 88.0°, +6.6°; Iowa, 79.2°, +7.2°; Missouri, 84.6°, +8.2°; Illinois, 81.0°, +6.9°; Indiana, 79.4°, +5.9°; Kentucky, 81.1°, +5.3°.

Previous highest of record maximum temperatures were also broken in the above nine States, except in Illinois, Iowa, and Kentucky, and in three additional States, namely, Texas, Arkansas, and Louisiana. In contrast to record-breaking maximum temperatures, a minimum of 25° on the 26th in New Mexico equaled the lowest temperature of record in that State. The lowest minimum recorded in the United States during the month was 18° at Bostetter, Idaho, on the 29th.

Like the preceding month, the rainfall was decidedly subnormal over the Great Plains and interior valleys. The dryness centered chiefly in the States of Oklahoma, Arkansas, Missouri, and Kansas, with the percent of normal rainfall ranging from 7 to 34 percent. In Oklahoma and Arkansas, the month was the dryest August on record. Other decidedly dry States were Kentucky, Texas, Mississippi, and Nebraska, with little more than half of normal rainfall for the month. From the Rocky Mountains westward, most States received near normal or above, except that rainfall in Washington and Oregon was somewhat deficient. From the Lake region eastward, including Wisconsin, which averaged almost 2 inches above normal, northeastward over Ohio and Pennsylvania to the north Atlantic coast, rainfall averaged considerably above the usual amounts. South Atlantic and eastern Gulf States were below normal, with the exception of Alabama and Georgia, which received on the average, amounts 1 inch or better above normal, due, in a large measure, to tropical disturbances in the east Gulf around the 1st and 21st of the month.

While August rainfall was decidedly subnormal in the Plains States, in the Southwest duststorms were fewer than in the several other months of 1936. By States, the frequency seldom exceeded 6 for the month, ranging from 3 or less in the southern Great Plains to about 10 locally in the northern Great Plains States. They were most frequent from the 16th to the 23d, though there were a few isolated occurrences early in the month and near the close. The most severe local duststorm occurred at Boise, Idaho, on August 2. Visibility was reduced to 25 feet or less for short intervals.

Comparative monthly data.—Greatest monthly precipitation total, 17.41 inches, at Blountstown, Fla.; highest temperature, 126° on the 6th, at Greenland Ranch, Calif.; lowest temperature, 18° on the 29th, at Bostetter, Idaho. Section averages: Highest temperature average, 88.0° for Oklahoma; lowest temperature average, 66.1° for Wyoming; highest precipitation average, 6.76 inches for Florida; lowest precipitation average, 0.13 inch for California. Section departures from normal: Greatest plus temperature departure, 8.2° for Missouri; greatest minus temperature departure—no negative temperature departures; smallest plus temperature departure, 0.1° for Florida. Greatest plus precipitation departure, 1.92 inches for Wisconsin; greatest negative precipitation departure, 3.14 inches for Arkansas. One hundred and ninety stations, 91 of this number located in California, received no precipitation for the month. Two stations reported less than 0.01 inch.

SEPTEMBER

The temperature conditions during September 1936, on a State average basis, were somewhat below normal in Utah, Arizona, and New Mexico, and slightly so in Oregon, Idaho, Kentucky, and northern New England, while southern New England and the remaining States averaged above-normal warmth. Plus departures were generally of 1° to 2° magnitude in the Middle and Southern Atlantic States, and near 3° or above in the Great Plains, and 4° or more in Iowa, Missouri, Arkansas, and Illinois.

In marked contrast to the preceding month, September had more than normal rainfall over most sections east of the Rocky Mountains, the monthly totals being especially large from Texas and New Mexico, northeastward over the central valleys. Texas received on the average 7.04 inches, or 4.03 inches in excess of the normal. In Oklahoma, rainfall averaged 7.85 inches, or 4.86 inches above normal, exceeding any previous September average of record, and in direct contrast with the rainfall of the preceding month (August 1936), when Oklahoma received the least of record August average rainfall. In Missouri, rainfall averaged 8.62 inches (departure from normal +4.44), amounting to the second highest September average of record, and in Iowa and Illinois the rainfall averages and departures from the normal were, respectively, 7.22 inches, +3.36, and 6.77 inches, +3.09. In both of the latter States, the amounts stated were the third greatest September average rainfall of record.

In the more eastern sections, rainfall was generally near or above normal, except that West Virginia and Pennsylvania had deficiencies slightly greater than 1 inch, and in the Gulf area, minus departures ranged from one-half inch to more than 1 inch in Alabama, Mississippi, and Louisiana, and more than 2 inches in Florida. In a large area in the Northwest, extending eastward to central-northern sections, rainfall continued deficient, a few States having less than half the normal. The greatest deficiencies occurred in California and South Dakota, with 35 and 44 percent of normal rain respectively.

The reason for monthly precipitation amounts largely in excess of normal over the southern two-thirds of the country east of the Rocky Mountains, in contrast to the abnormal dryness previously encountered for several months, may be traced directly to courses followed by tropical and polar air masses. The trajectory of masses of air was mostly from the Gulf of Mexico over Texas to New Mexico and over Arizona whence it was deflected northward and eastward. To the northwest, on the contrary, the trajectory of Polar Pacific and Polar Continental air masses,

not infrequently coming down over the Plateau and North Pacific States, was to the southward, southeastward, and eastward. The consequences of the trajectories of these contrasting air masses was an interaction, which took place over a frontal zone extending roughly from southwest to northeast with a line from Arizona to Michigan, forming the western limit of the zone. This set-up, so to speak, accounted for above-normal precipitation over the southern Plains and middle and lower portions of the interior valleys.

Several States reported light snow (the first of the season) in September, but amounts of consequence were confined mostly to high western areas, principally the Rocky Mountains, Cascade, and Sierra Nevada Ranges, and in the south portion of the Black Hills of South Dakota. Several of the Plains States reported traces of snow, principally in the western portions. East of the Mississippi River, traces of snow were reported in northern Wisconsin, the Upper Peninsula of Michigan, and the Adirondack Mountains of New York. Most of the snow that fell in the middle and southern Rocky Mountains occurred as the result of interaction by P_C (Polar-Continental) air accompanying the southward movement of a cold-front and N_{PP} (transitional Polar Pacific) air. This interaction was manifested first on the 25th in the southern portion of Wyoming. Snow depth in six counties averaged from 10 to 11 inches. Early on the 26th, heavy snow began to fall over the eastern slopes of Colorado and most of the mountain section, and continued intermittently for 60 hours. The Weather Bureau station at Denver, Colo., recorded a snowfall of 15 inches on the 28th and at 8 p. m. on the same date the snow measured 9 inches, establishing a new record for so early in the season. The previous maximum depth for the month of September was 1 inch on the ground. The same storm caused heavy snowfall over the north and central mountains of New Mexico, where maximum depths of 18 inches were common.

Duststorms during September were mostly light in character, though actual dense dust was reported in Montana, North Dakota, Nebraska, Colorado, and Oklahoma. Light dust was noted over most western sections from Texas and New Mexico northward, and in the upper Mississippi Valley. Light dust was general in eastern Montana and Colorado and in Nebraska and South Dakota. The storms were scattered throughout the month, being reported in each week, but were most frequent from the 17th to the 29th.

Occurences of killing frosts in September were confined to the northern 1- or 2- tier States. However, the damage incurred was very little or none, due to the advanced stage of the vegetation. Killing frosts occurred as early as the 7th in Wyoming and generally from the 16th on in Washington, Oregon, northern Great Plains and as late as the 25th and 29th in Michigan and Minnesota. Dates of occurrences were generally average or later than normal, except killing frost on the 26th over practically all of the New England district was earlier than usual.

Comparative monthly data.—Greatest total precipitation, 27.65 inches at San Angelo, Tex.; highest temperature reported, 115° at Agua Caliente, Ariz., on the 9th and at Cow Creek, Calif., on the 1st and other dates. Section averages: Highest temperature average, 80.9° for Louisiana; lowest temperature average, 54.5° for Wyoming; greatest precipitation average, 8.62 inches for Missouri; lowest precipitation average, 0.16 inch for California. Section departures from normal: Greatest plus temperature departure, 4.5° for Arkansas; greatest minus temperature departure, 1.5° for New Mexico; greatest plus precipitation departure, 4.67 inches for Oklahoma; greatest minus precipitation departure, 2.26 inches for Florida. One hundred and twenty-three stations received no precipitation during the month (103 of this number were located in California), and 10 stations reported less than 0.01 inch.

OCTOBER

October had mostly mild temperatures and decidedly spotty distribution of rainfall. The temperatures averaged somewhat above normal in most sections east of the Mississippi River and also from the Rocky Mountains westward. In the interior of the Pacific States the month was from 3° to 7° warmer than normal and in the Atlantic area, mostly from 1° to 3°. Between the Mississippi River and the Rocky Mountains there was a general tendency to subnormal temperatures, the largest deficiencies being in the southern portion of the area. Also, in the western upper Lake region the month was from 2° to 5° colder than normal. In the interior sections the first general freeze of the season occurred in the latter part of the month, and at the same time some of the lowest October temperatures of record were equaled in the Northeast. At Roseau, Minn., a minimum temperature of −16° established a new low October record for that State.

Precipitation was very unevenly distributed. East of the Mississippi River amounts were generally above normal, being decidedly in excess (above 1 inch) in the Ohio Valley, Pennsylvania, and West Virginia, and from 2 to 3 inches above normal in Virginia and in the South Atlantic States. West of the Mississippi River, including Wisconsin and Minnesota, to the

Pacific coast, the tendency was to subnormal precipitation, excepting Missouri and Arkansas received amounts 0.63 and 1.83 inches in excess of normal; Nevada and Utah slight excesses; and Colorado averaged exactly normal. The northern Great Plains continued dry throughout the month; North Dakota, South Dakota, and Nebraska received, respectively, 20, 31, and 24 percent of normal; also, Minnesota, 35 percent, and Montana, 58 percent of the usual amounts. Idaho and the two northern Pacific States were exceptionally dry. In Idaho it was the second dryest October of record, the average 0.33 inch, departure from normal −1.14; and in Washington and Oregon, the third dryest October of record, with the following respective averages and departures: 0.69 inch, departure, −2.21, and 0.13 inch, departure, −1.65.

Normally, the occurrence of snow was more general and extensive in October than in the preceding month. Several States east of the Mississippi River had measurable amounts; Michigan, 0.6 inch and Wisconsin and New York, 0.4 inch. Considerable snow fell in the northern and elevated sections of the New England States. Traces of snow were quite frequent in northern Illinois, Indiana, and in the Allegheny Mountain regions of Pennsylvania, Maryland, and West Virginia. West of the Mississippi River, amounts were in general considerably larger. The Minnesota State average was 2.1 inches; North Dakota, 1.1; South Dakota, 2.3; Nebraska, 0.8; Wyoming, 4.2; Utah, 0.8; Colorado, 4.2, and New Mexico, 0.9.

During October, duststorms were reported from eastern New Mexico and the Texas Panhandle northward to the Canadian border, and from the Rocky Mountain States eastward to the middle Mississippi Valley and Lake region. The storms were generally of light intensity and short duration, and were most frequent on October 9, 10, 17, 20, 28, and 30. On the 30th these storms were general in North Dakota. At Huron the visibility was reduced to 1,300 feet, while on the same date Moorhead, Minn., reported dense dust from 1 p. m. to 5 p. m., with visibility reduced to one-fourth mile the greater part of the afternoon.

Comparative monthly data.—The greatest amount of precipitation reported was 16.41 inches, at Fort Pierce, Fla. Highest temperature, 109°, occurred at Palm Springs, Calif., on the 11th, also on other days. Lowest temperature, −16°, on the 26th, at Roseau, Minn. Section averages: Highest temperature average, 75.6° for Florida; lowest temperature average, 42.3° for North Dakota; Minnesota was near with a mean temperature of 42.5°. Greatest precipitation average, 6.14 inches for South Carolina; also, North Carolina averaged 6.11 inches. Lowest precipitation average, 0.13 inch for Oregon. Section departures from normal: Greatest plus temperature departure, 3.2° for Washington; greatest minus temperature departure, −4.1° for Texas. Greatest plus precipitation departure, 3.08 inches for South Carolina; greatest minus precipitation departure, 2.43 inches for Washington. Sixty-five stations received no precipitation during the month, while four stations reported less than 0.01 inch.

NOVEMBER

The month of November was cooler than normal over the eastern half and over most of the western section of the country. Only six States, namely, North Dakota, Nebraska, Colorado, Nevada, California, and Arizona had above-normal warmth. The positive departures from normal were small, North Dakota, with +1.4°, being the greatest. Temperature deficiencies generally ranged from 1° to 2° in the Middle and South Atlantic and Gulf States, except Texas averaged nearly 4° below normal. In the Lake region and New England districts, minus departures ranged from close to 3° to better than 4° in northern New England and Michigan. In the far Northwest, temperatures averaged near normal, except considerably subnormal in Oregon and Idaho, with the following respective departures from normal: −3.6° and −3.5°. Notwithstanding the prevalence of cool weather in Oregon, a maximum temperature of 89° at Mitchell, in the eastern division, on the 22d, surpassed the previous highest November maximum of record.

The southern limit of freezing weather occurred well southward over the Florida Peninsula and practically to the Gulf coast westward. In fact, temperatures 32° or lower occurred in all parts of the country, except along the Gulf coast sections and a narrow belt along the Pacific coast. Subzero temperatures occurred from the interior of the Northeast, at points in the extreme upper Lake region, and over a considerable Northwestern area. The lowest minimum, 30° below zero, occurred in Wyoming.

The monthly precipitation on a State average basis was below normal in all but three States, namely, Indiana, Kentucky, and South Dakota. Negative departures from normal were especially large in the Atlantic, Gulf, and southern Plains States. Dryness was much more pronounced in the northern Plateau and Pacific States. The State averages for Washington (0.62 inch, departure from normal, −4.50) and Oregon (0.20 inch, departure, −3.47), were the lowest of November record. Also, Idaho's average rainfall, 0.17 inch, equaled the least November rainfall average of record; California averaged slightly less, with 0.10 inch, lacking 2.31 inches of being normal.

During the month of November, traces of snow or greater amounts, were reported in all States except Louisiana. Averages were above normal in a few north-central States, eastern Ohio Valley, and in the Northeast. Locally, in parts of the Upper Peninsula of Michigan, monthly totals were especially large: Duluth, 14.8 inches; Marquette, 25.4; Escanaba, 12.5; and Sault Ste. Marie, 10.4 inches. Also, in the lower Lake region, Cleveland, Ohio, received 14.3 inches (normal 3.9), Erie, Pa., 13.4, and Oswego, N. Y., 13.1.

Duststorms were generally widespread, being reported from Port Arthur, Tex., to the Canadian border, and from the Rocky Mountains eastward to Chattanooga, Tenn., and Buffalo, N. Y. Most of the storms occurred late in the month, generally from the 19th to the 25th, and ranged in frequency from only one occurrence at some stations to six or more at others, the greatest number being reported in the central and northern Great Plains. Dust was encountered at various altitudes by aviators, the height of the clouds ranging upward to 4,000 feet east of Wichita, Kans., and 6,000 feet at Chicago, Ill. In central South Dakota and portions of Iowa the storms were the worst in 2 years. In general, minimum visibility in the densest storms was one-half mile, but in portions of Nebraska it was reduced to one-fourth mile on the 22d and to 100 yards on the 24th.

Comparative monthly data.—Greatest total precipitation reported, 9.17 inches at Belle Glade, Fla.; highest temperature, 96°, occurred on the 2d, at Encinal, Tex.; lowest temperature −30°, occurred at two stations, located in Wyoming, on the 3d. Section averages: Highest temperature average, 63.8° for Florida; lowest temperature average, 26.2° for Minnesota. Greatest precipitation average, 3.74 inches for Louisiana; lowest precipitation average, 0.09 inch for Nevada; California was second lowest with 0.10 inch. Section departures from normal: Highest plus temperature departure, 1.4° for North Dakota; greatest minus temperature departure, 4.7° for Michigan. Greatest plus precipitation departure, 0.51 inch for Indiana; greatest minus precipitation departure, 4.59 inches for Washington. Two hundred and forty-four stations received no precipitation during the month and three stations reported less than 0.01 inch.

DECEMBER

December 1936, was characterized by moderate temperatures to abnormally warm weather for the season in all sections of the country, the interior States having a considerably warmer than normal month. There was abundant precipitation, ranging from near normal to considerably above normal rather generally east of the Great Plains and also over a large area in the far Southwest, with scanty falls over most of the Northwest and Rio Grande Valley areas.

On a State average basis, temperatures averaged above normal in all districts, except California, which was slightly more than 1° below normal, and in the States comprising southern New England, which averaged exactly normal. Elsewhere, departure from normal temperature generally ranged 1° or more, the greatest plus temperature departures occurring in the interior valley sections. The occurrences of maximum temperatures were generally within established limits. A reading of 69° at Kalamazoo, Mich., on the 30th, equaled the highest of record for Michigan for December. Temperatures freezing or below occurred in all parts of the country, except along the southern coast sections and along the Pacific coast, with the limit of zero readings extending as far south as Kansas and Missouri in the interior and to Arizona and New Mexico in the far West. The lowest temperature record during the month was −42° at Pokegama Falls, Minn. Minimum temperatures were well within established limits.

Precipitation was generally heavy in the most eastern sections, while the monthly totals were decidedly above normal in most districts east of the Plains. The far Southwest, including Utah, Arizona, Nevada, and California, had much more than normal precipitation, with several local areas having more than twice the normal. On the other hand, the northern Plains, the far Northwest, and New Mexico and Texas had decidedly less than normal.

Snowfall was slightly above normal in the upper Mississippi Valley and northern Great Plains and decidedly in excess of normal in the Southern Plateau and Great Basin areas. East of this belt of above-normal snowfall, monthly totals were, without exception, below normal. The largest deficiencies centered in the Ohio Valley; also, amounts averaged slightly deficient in the two northern Pacific States, Oregon and Washington.

In consequence of near-normal or above-normal precipitation in the Plains sections during December, the frequency and intensity of duststorms were considerably less than in the preceding month. Light dust was reported from Oklahoma northward and in some Rocky Mountain sections, and in portions of the upper Mississippi Valley, the frequency ranging from 6 days in the southern Plains to 2 or less in the north. Disturbances of this type, however, continued to be quite frequent and severe in some counties in eastern Colorado and northeastern New Mexico. On the 28th and 29th the visibility in Baca County, Colo., was reduced from one-half mile to 50 feet at times from 9 a. m. to 3 p. m., and locally to 100 feet or less on the 16th and 17th in north-

eastern New Mexico. In North Dakota light dust was general on the 19th and several storms occurred in central Montana where Geraldine (near) reported a "terrific duststorm" from 6 p. m. of the 19th to 3 a. m. of the 20th.

Comparative monthly data.—Greatest precipitation total reported, 29.57 inches at Big Four, Wash. Highest temperature, 89° at two stations in Florida on the 6th; lowest temperature of the month, −42° at Pokegama Falls, Minn., on the 7th; also a minimum of −41° occurred at Outlook, Mont. Section averages: Highest temperature average, 61.7° for Florida; lowest temperature average, 15.0° for North Dakota. Greatest precipitation average, 7.10 inches for Alabama; lowest precipitation average, 0.36 inch for South Dakota. Section departures from normal: Greatest plus temperature departure, 4.8° for Kansas; greatest minus temperature departure, 1.3° for California. Greatest plus precipitation departure, 2.80 inches for New England; greatest minus precipitation departure, 0.46 inch for Louisiana. Only two stations reported no precipitation for the month, while seven stations reported less than 0.01 inch.

THE COLD WINTER OF 1935–36

In very great contrast to recent winters, the 1935–36 winter season (December–February) was abnormally cold throughout central and eastern portions of the country. For a number of preceding years, the winters in general had been mild, especially the 5 years up to and including 1934–35. These five winters were much warmer than usual in practically all parts of the country; in the Central and Northwestern States averages were from 4° to 8° above normal.

The winter of 1935–36 was one of the severest we have experienced in many districts, being the coldest of record in some northwestern sections. The first winter month, December 1935, was rather uneventful in the western half of the country. From the Plains States westward, inclusive, the mean State temperatures averaged from a normal value in North Dakota to generally 1° to 2° above normal, except in Oregon, Idaho, New Mexico, Arkansas, and Texas, which were slightly below normal warmth. Eastward to the Gulf of Mexico and the Atlantic coast, without exception, mean monthly temperatures were generally moderate to decidedly subnormal. The magnitude of negative departures ranged from 2° in the Lake region and 4° in the New England district to progressively larger values southward over the Ohio Valley, Tennessee, the east Gulf and Middle and South Atlantic States. In the Virginias, Carolinas, Kentucky, Tennessee, Alabama, and Florida the departures exceeded 7° below normal.

The average temperature values for the second and third winter months, January and February, 1936, were consistently below normal everywhere, except in the far Western States and over the middle Plateau section. The 2 months taken together established an unparalleled prolonged cold period commencing about January 15 and ending about February 20. The maximum severity of the widespread low temperatures centered in the north and central portions of the Mississippi and Missouri Valleys. The abnormalities of low temperatures are most strikingly illustrated by the following notations from the records of several first-order Weather Bureau stations for the 30 days ending around February 20: At St. Louis, Mo., the average temperature was 4° lower than the previous coldest 30-day period; at Kansas City, Mo., the 30-day temperature average ending February 21 was 8°, and at Detroit, Mich., 13°. At St. Joseph, Mo., the average for the 30 days ending February 20 was 7° lower than the previous low record, while at Topeka, Kans., it was 3° lower than the record winter of 1887–88. At Huron, S. Dak., the temperature was constantly below zero from February 3 to 19 while at Bismarck, N. Dak., it was continuously below zero for 15 days. At Williston, N. Dak., the highest temperature recorded between February 5 and 17 was 9° below zero, the lowest, −50°, and the average for the 13 days 26° below zero.

At Devils Lake, N. Dak., there was established a winter-temperature record that probably has no parallel in the weather history of this country for a first-order Weather Bureau station. At this place the temperature went below freezing on November 27, 1935, and did not thereafter rise to the freezing point until March 1, 1936, a period of 96 days. For 37 days, January 14 to February 19, there was only one day on which the thermometer registered as high as zero, while for the week ending February 17 there was an average temperature of 28° below zero, and for January and February 13° below zero. Relatively similar instances of low temperatures may be cited for other stations and portions of States in the upper Mississippi and Ohio Valleys.

The departure of mean winter temperatures from normal for the 3-month period averaged from 6° to as many as 12° below normal in the Central and Northern States, between the Appalachian and Rocky Mountains. Thus, in the northern Plains, for example, the 1935–36 winter season was from 15° to nearly 20° colder than the average of the preceding five winters. However, a considerable area in the Southwest had somewhat warmer than a normal winter. The severe winter temperatures abetted frost penetration to depths beyond previously established

extremes in those portions of many Central States without adequate snow cover. For example, in Iowa the ground was frozen in many places to depths of nearly 7 feet.

For the 3 winter months period precipitation was heavy from the middle Atlantic area southwestward to the Gulf and considerably above normal in most sections between the Lake region and the Rocky Mountains; also, in the central and northern districts west of the Rockies. On the other hand, it was markedly deficient in the lower Ohio Valley westward to the Rockies, and also in a limited area in the far Southwest. Snowfall, as a rule, averaged above normal in practically all sections, except in the far Southwest. Falls were unusually heavy in the northern and middle Appalachian sections. Also, in the Plateau and Pacific States, and excessively heavy from the Lake region westward to the Rocky Mountains.

THE 1936 DROUGHT

The weather of 1936 was decidedly unfavorable for agriculture over the greater portion of the United States, making the third year since 1929 with such conditions prevailing. Precipitation of the winter and early spring was very scanty in the Southwest, where the soil became extremely dry, and severe duststorms caused much damage by drifting and by blowing out winter wheat. However, in May there was a reaction to abnormally heavy rains, materially improving conditions; they were especially helpful to winter wheat over large areas, particularly in Kansas.

While the May rainfall improved the outlook materially in the Southwest, other parts of the country were less fortunate, and serious conditions slowly, but surely, developed over large areas. Dry weather in May and June brought widespread damage to early truck, hay, and pastures, the latter becoming very poor in nearly all sections between the Appalachian and Rocky Mountains.

The spring was the driest of record in many southeastern localities, and great harm resulted to early crops in considerable areas, especially from North Carolina southward and southwestward to central Alabama. The winter wheat crop was not seriously affected by the drought, principally because of May rains in the western portion of the Wheat Belt, and comparatively cool weather in the eastern part, though it became decidedly dry and some deterioration resulted, especially in northern districts.

The heat and drought seared what little pasture was left, and dried up available stock water. With neither food nor water to be had over large areas, the livestock situation became desperate, with heavy shipments necessary to prevent death of thousands from starvation and thirst. The spring wheat crop and other small grains in the Northwest were severely damaged, but conditions continued favorable in the north Pacific area.

July was extremely dry throughout the interior of the country, with considerable areas having less than 10 percent of normal rainfall. On a State-average basis, there was less than half of normal (usually much less) in the western Ohio Valley, the Lake region, the upper Mississippi Valley, and throughout the Plains from Oklahoma northward to North Dakota and Montana. Kentucky and Ohio, with 91 and 81 percent of normal, respectively, were the only States between the Appalachian and Rocky Mountains north of the Cotton Belt having as much as half of the normal rainfall. The States from Oklahoma northward to North Dakota had only from 20 to 36 percent of normal; Minnesota had about 20 percent, and Iowa less than 15 percent. July 1936 was drier than July 1934 in every State from Kentucky, Missouri, and Oklahoma northward to the Canadian border.

The month was extremely hot, the hottest July of record in Indiana, Illinois, Minnesota, Nebraska, Kansas, Oklahoma, Iowa, Montana, and the Dakotas. The average temperature for the month was higher by far than the previous high record in a large north-central area. In North Dakota the monthly mean exceeded the previous high July record by 6° and the previous maxima in South Dakota and Montana were exceeded by more than 4°.

An examination of table 3 based on regular Weather Bureau stations records and cooperative records clearly illustrates the widespread persistent heat wave over the interior sections during the summer months. For example, in Kansas beginning on July 9, of the 75 stations distributed over this State, generally, 50 and upward reported daily maxima of 100° or higher through August 26. Similar unbroken State-wide heat waves prevailed in Oklahoma and other agricultural interior States. Further on many days the daily maximum temperatures for a large percentage of the records examined, exceeded the 100 mark by several degrees.

TABLE 3.—*Summary of selected stations with daily maxima of 100° or above*

State and month	Number of station records examined	Day of month— 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total
North Dakota:																																	
May	51															1																	1
June	51												2	1					3						44	24	3	14	8				8
July	50		4	2	9	38	50	40	37	30	47	49	37	30	10	40	46	45	40	8		16	2	13	9	26	5				11	28	26
August	51	16	3				2	13	12	1	23	4			7	3		1															11
September	50			1		1																	10										3
South Dakota:																																	
June	41													12		23	13		12	1					27	38	16	30	27	9	1		12
July	41	1	22	21	37	36	41	38	35	40	39	38	31	25	16	40	40	38	39	36	4	15	35	27	33	32	24	4	1			13	29
August	41	30	14	1		1	3	11	35	17	18	25	3	3	14	32	4	11	10	2			1	25	14	3						7	23
September	51																					5	20	1									3
Nebraska:																																	
June	45													1	5	20	3	1	11	7	6	9	3		3	37	31	28	42	15	1		17
July	46		12	45	46	46	20	9	16	43	43	28	20	29	28	44	45	45	43	45	2	1	43	41	44	46	40	18	6	1		1	29
August	46	11	26	2					21	37	32	34	34	28	28	37	34	41	32	9	10	4	1	29	44	18	15	26	1			1	25
September	61	4				2	12			1	17	2			2																		7
Kansas:																																	
June	75								5					1	17	23	12	42	62	74	64	62	22		1	43	73	68	74	62	9		18
July	75	1	16	62	65	50	11	7	15	41	55	46	40	58	74	75	74	75	75	75	62	11	67	75	75	75	74	72	27	7			29
August	74	3	43	33	32		2	15	40	71	72	70	74	74	74	74	74	74	74	67	59	51	39	69	72	74	56	4				21	27
September	73	35	12	1	2	34	41	15	19	3	47	33	3	1																			13
Oklahoma:																																	
April	50														1															1			2
May	50																	1															1
June	49						1		6	8	2				2	17	24	24	47	35	46	18	41	6		4	32	45	38	21	7		20
July	48	2	1	22	27	6	2	4	4	13	25	17	24	43	47	46	39	47	48	48	48	27	36	42	41	34	43	48	46	42	14	1	31
August	48	1	36	38	45	38	33	45	47	48	48	48	48	48	48	48	48	47	47	47	46	45	43	45	47	43	44	37	22	1	1	9	31
September	49	25	37	6	8	31	40	40	24	30	38	19	11	5																			13
Texas:																																	
April	60					4																							1	3	1		4
May	60	1			1				1									2			1												5
June	54		2	1		4	4	7	12	13	8	5	4	3	1	13	13	15	11	6	14	37	29	13	5	5	9	15	7	3	6		28
July	55	5		2	3		1			1	2	4	5	7	5	13	2	10	20	29	24	14	8	9	5	5	8	13	14	18	11		26
August	56	1	6	6	11	13	17	19	29	39	44	45	34	31	30	22	18	18	20	14	15	17	17	29	27	22	13	4	5	2	2	1	31
September	56	4	11	3	7	13	11	5	6	11	11	9	5	3	1	1			1	1	1	1	1										20
Minnesota:																																	
June	45																								1	5		2					3
July	45				3	2	36	33	25	16	37	43	44	44	29	22	35	16	11	2			5	1									18
August	46		1						4	1		2				23								1	7								7
September	51																							8									1
Iowa:																																	
June	44																			13						3	14	2	17	21			6
July	45			16	31	44	41	32	27	38	45	45	44	45	45	45	42	45	13	16			20	8	13	26	43	13	9				24
August	45		4						2	34	2	2	31	13	21	29	20	13	41	10	18	15	2	36	20	20	2	7					21
September	54						6					13																					2
Missouri:																																	
June	49									6					1	9	23	17	14	43	29	8	2	1		3	23	30	46	47	9		17
July	49	1		15	30	28	21	25	25	35	39	37	46	49	49	48	39	38	34	34	8		17	38	42	42	42	46	30	12			27
August	50			7	16	8			9	44	32	9	41	40	42	46	49	50	50	49	45	47	47	40	37	36	45	47	19			5	25
September	50	2	1		2	9	24	6	3		8	28	11	9	4	1																	13
Arkansas:																																	
June	54						2	1	3	13	3				1	13	27	31	37	51	53	47	35	8		2	10	26	47	31	26		21
July	54	4			2	1	1	4	8	12	7	9	25	43	31	22	13	17	43	25	17	2	1	8	14	12	17	26	34	30	4	1	29
August	54	1		5	11	31	20	15	23	52	50	38	34	33	34	42	49	52	51	46	46	4	45	25	5	1	31	43	49	10	2	11	30
September	54	1	4	13	21	29	14	18	18	14	27	24	20	14	12	1	1			2	2	1		1									20
Wisconsin:																																	
July	40					1	8	34	35	30	29	33	34	36	29	7	6	10	3								3	1					16
August	40									3			1			9			8	1													5
Illinois:																																	
June	48																	15		16	17	1						5	20	37	10		8
July	48				21	32	43	44	43	40	46	45	47	46	47	41	33	34	6	2			1	17	14	15	45	36	18	1			24
August	48				1	2				18	6	7	17	30	17	24	17	17	44	28	21	29	39	21	28	20	24	14	15				22
September	48											5	5	8	3																		4
Indiana:																																	
June	49				4	15	18	41	46	44	50	46	48	48	50	41	18	21	1		4							4	11	24	8		7
July	50			1	1	1				2	1	1	6	23	1	9	10	13	22	30	22	34	43	8	20	11	11	12	17	1			20
August	49												2	4	5	1	1																24
September	50	1																															6
Ohio:																																	
June	35							3	19	34	31	26	30	22	34	12	2	5	4	1										2	1		3
July	35													5													4	19	2				15
August	35														1					16	1	17	23	3									6
September	36																																1
Kentucky:																																	
June	41															2	1	22	2	5	11	6					4	23	31	38	24		12
July	39	1					1	22	20	36	36	31	32	34	37	37	2								4		7	19	22	1			17
August	40										1	2	4	2	1	4	9	25	28	38	33	39	33	7	5	9	19	31	32	3	1		21
September	40												2	1	6	3	1																5

The months of June and July combined had an average of only about one-third of normal rainfall in the Plains States and around 40 percent of normal in the western Ohio and middle Mississippi Valleys. In the interior States the 2-month period was much drier than the same 2 months during the great drought of 1934. In that year, for these 2 months, Missouri had about 30 percent more rainfall; Ohio, Kansas, Nebraska, and Montana about 50 percent more; Indiana, Illinois, Wisconsin, and North Dakota about twice as much; Minnesota and Iowa considerably more than twice as much, and South Dakota nearly three times as much rain as fell this year.

The 4 months of the growing season to the 1st of August were the driest of record in the Dakotas, Minnesota, Wisconsin, Iowa, Missouri, Illinois, and Indiana, and the second driest in Ohio, Kentucky, Oklahoma, Kansas, and Montana. Of the Central and Northern States between the Appalachian and Rocky Mountains only Michigan, Kansas, and Nebraska were drier in 1934 than this year for these 4 months.

Of the major crops, corn suffered the greatest loss from the drought and heat of July. Up to the beginning of this month this crop had not been seriously harmed over wide areas, but in July the extremely high temperatures and lack of rainfall caused heavy losses, especially from the Mississippi Valley westward. The prospective crop was reduced during the month from 2,244,834 to 1,439,135 bushels, as reported by the Department of Agriculture.

August weather was characterized for the most part by a persistence of abnormal warmth and scanty moisture in the interior valleys and central and southern Great Plains. Maximum temperatures ranged up to well above 100° F. almost daily over a large area. Rainfall was of a decidedly local character, though scattered showers were rather frequent in the Northern States of the interior of the country. During August the drought extended southward to include most of Texas and Louisiana, Arkansas, Mississippi, and Tennessee, but in northern sections, from New England westward to the Plains, conditions improved materially. The weather continued favorable in most of the Southeast and much of the Atlantic area and also rather generally from the Rocky Mountains westward, though the Pacific Northwest became too dry.

The summer (June–August) was the driest of record in Illinois, Missouri, Oklahoma, Kansas, Nebraska, and the Dakotas. In addition, while previous dry records were not broken, Indiana, Wisconsin, Minnesota, Iowa, and Arkansas had less rain in the summer of 1936 than during the same season in the drought of 1934. Previous high temperature records were exceeded in many sections.

During the first 10 days of September widespread, drought-relieving rains occurred over much of the interior of the country, especially in the Lake region and the Mississippi and Ohio Valley States. The early September moisture brought only partial relief in the Plains States, except in Kansas, extreme western Oklahoma, and northwestern Texas, where good rains occurred. While the rain came too late to materially improve the corn crop, it was timely and of great value in conditioning the soil for plowing, for fall seeding, and for late forage crops to be used for pasturage.

Table 4 shows the percentage of normal precipitation by States or sections and the divisions thereof by months for the year and the crop-growing season, March to September, inclusive.

TABLE 4.—*Percentage of normal precipitation by States and divisions thereof, for the year 1936*

States and divisions	January	February	March	April	May	June	July	August	September	October	November	December	Crop season March–September	Year
Alabama:														
Northern	198	138	88	152	20	36	133	102	103	90	47	136	92	107
Middle	267	159	58	150	42	58	135	153	76	76	48	143	97	120
Southern	319	113	40	159	89	37	130	113	57	31	60	102	90	106
State	255	141	63	152	46	45	134	127	80	70	50	131	94	113
Arizona:														
Northern	40	157	121	28	39	68	103	114	133	146	43	229	100	108
Southern	81	140	92	16	41	45	101	85	110	58	118	153	88	98
State	63	151	108	22	30	59	101	97	119	100	86	176	93	103
Arkansas:														
State	25	52	46	55	50	31	129	12	140	158	81	124	64	72
California:														
State	104	220	52	97	63	238	272	130	36	99	4	136	75	111
Colorado:														
State	100	155	77	47	91	101	97	134	124	100	42	102	96	98
Delaware:														
State	214	146	150	87	49	107	87	127	148	107	36	144	109	118

TABLE 4.—*Percentage of normal precipitation by States and divisions thereof, for the year 1936*—Continued

States and divisions	January	February	March	April	May	June	July	August	September	October	November	December	Crop season March-September	Year
Florida:														
Northern	235	176	76	89	93	80	92	102	56	162	36	116	84	105
Southern	154	272	148	61	112	154	87	91	77	105	110	93	103	114
State	196	206	105	76	103	120	90	96	67	129	70	107	94	109
Georgia:														
Northern	248	129	99	236	30	59	91	123	170	116	55	154	114	129
Middle	225	136	78	239	16	66	74	128	119	131	62	149	101	119
Southern	163	133	87	155	59	78	96	115	83	178	33	126	96	108
State	213	133	86	208	31	70	83	123	121	140	51	145	102	118
Idaho:														
Northern	143	153	96	62	67	142	67	28	65	24	8	113	81	85
Southwestern	206	168	68	81	52	216	125	182	43	7	3	55	96	97
Southeastern	174	193	68	78	41	138	156	201	38	37	19	97	94	100
State	167	166	81	71	56	159	112	124	52	22	13	92	89	96
Illinois:														
Northern	92	84	32	62	53	45	23	149	240	103	44	180	89	91
Central	67	101	61	71	59	32	40	67	178	120	97	131	73	82
Southern	36	70	67	85	31	53	51	20	120	129	102	99	61	71
State	61	87	56	72	50	41	38	80	184	117	84	131	75	82
Indiana:														
Northern	55	136	67	82	63	47	20	147	164	148	102	117	83	93
Central	45	133	70	95	54	36	51	95	153	167	116	103	78	90
Southern	46	70	79	94	35	27	71	37	107	165	129	89	64	77
State	49	108	73	91	50	36	48	90	142	160	117	101	75	86
Iowa:														
State	156	122	59	41	71	62	14	98	187	71	41	130	79	82
Kansas:														
Eastern	105	33	11	52	101	27	22	24	183	91	23	153	65	68
Middle	114	18	5	41	115	35	27	30	180	103	3	130	66	67
Western	110	12	13	40	196	37	33	53	125	75	3	115	76	73
State	108	23	10	46	126	32	27	34	169	93	14	135	68	69
Kentucky:														
State	69	58	102	121	38	20	91	60	120	127	101	114	78	83
Louisiana:														
Northern	76	66	40	71	82	15	125	51	42	104	107	97	64	75
Southern	121	102	46	104	125	11	99	99	82	55	91	88	83	87
State	107	91	44	93	111	12	104	87	70	69	97	91	76	82
Maryland:														
State	178	128	166	82	63	76	101	90	68	107	42	169	93	106
Michigan:														
State	102	107	50	83	66	65	38	128	154	107	58	109	85	89
Minnesota:														
State	101	190	126	64	80	46	22	93	72	35	86	182	65	73
Mississippi:														
Northern	92	75	65	76	43	33	115	42	67	110	85	114	64	77
Southern	149	116	35	116	78	33	121	67	71	24	74	129	76	89
State	122	98	57	99	61	33	119	56	69	68	80	122	71	84
Missouri:														
Northern	108	88	33	59	65	28	19	25	197	93	53	144	65	73
Southwestern	27	69	31	48	58	28	39	23	229	122	79	132	67	73
Southeastern	24	66	50	79	34	37	68	19	190	146	78	123	67	77
State	44	73	39	63	53	31	41	22	206	122	71	131	66	73
Montana:														
West of Divide	143	213	112	79	63	120	67	46	81	45	16	133	84	93
Central	93	193	63	87	50	83	42	110	74	67	47	111	72	78
Eastern	118	147	56	50	41	35	52	82	58	56	70	88	50	58
State	116	191	76	68	49	72	50	88	70	58	40	111	66	75
Nebraska:														
Eastern	242	113	27	54	67	42	8	64	111	23	9	109	54	58
Central	151	132	56	56	131	55	19	52	67	21	18	93	63	64
Western	119	98	80	94	84	75	31	58	68	35	117	94	69	71
State	181	114	50	66	93	55	18	58	86	25	36	98	61	62
Nevada:														
State	118	245	61	39	51	158	214	104	71	136	14	181	85	116
New England:														
Northern New England	183	87	242	145	100	75	83	101	72	153	72	179	115	123
Southern New England	180	84	199	101	70	101	59	127	107	114	46	205	111	118
New Jersey:														
State	153	86	140	89	76	133	52	87	121	100	37	172	97	105
New Mexico:														
Canadian and Northeastern	194	32	11	14	117	73	88	56	111	24	9	63	74	69
Pecos and Southeastern	151	52	28	31	197	75	92	55	206	52	68	66	104	97
Northern Rio Grande	83	152	68	50	125	69	94	138	202	97	40	104	112	109
State	154	100	43	35	152	76	81	83	170	53	71	85	96	94

TABLE 4.—*Percentage of normal precipitation by States and divisions thereof, for the year 1936*—Continued

States and divisions	January	February	March	April	May	June	July	August	September	October	November	December	Crop season March–September	Year
New York:														
State	121	81	180	116	78	69	54	111	193	137	91	118	135	103
North Carolina:														
Eastern	164	115	169	119	26	109	117	79	95	192	116	186	102	120
Central	232	120	144	187	7	114	130	79	115	185	75	161	109	127
Western	232	114	126	162	32	43	101	103	144	175	54	149	100	118
State	208	116	146	157	22	90	117	85	118	181	82	163	104	121
North Dakota:														
Eastern	94	167	94	31	41	40	26	69	77	18	51	91	48	52
Middle	109	163	104	17	30	42	20	69	88	120	57	68	46	50
Western	147	119	118	31	32	36	45	71	54	29	62	96	48	54
State	124	149	111	31	34	39	29	66	69	19	59	86	47	52
Ohio:														
Northern	47	113	122	78	53	58	87	94	112	126	82	79	85	86
Middle	58	100	101	91	54	44	94	117	108	176	96	80	86	91
Southern	64	83	99	119	37	33	61	114	90	186	195	95	77	88
State	55	99	108	94	49	47	81	106	106	155	97	84	83	88
Oklahoma:														
Eastern	14	50	30	36	67	30	33	7	263	135	45	122	66	70
Central	25	26	23	19	102	59	22	5	241	79	14	87	72	66
Western	66	8	7	34	121	68	16	10	236	63	8	80	80	71
State	28	32	24	30	95	52	25	7	168	97	25	102	68	67
Oregon:														
Eastern	215	144	79	107	82	161	105	57	91	3	5	91	100	101
Western	156	103	69	57	155	144	148	14	53	9	6	96	86	83
Pennsylvania:														
State	130	78	199	87	54	91	67	119	63	113	184	133	96	100
South Carolina:														
Eastern	138	113	134	198	21	79	72	79	88	201	76	154	89	105
Western	252	114	134	298	8	77	102	91	130	201	74	152	115	133
State	213	114	136	261	13	78	87	85	109	201	76	153	104	122
South Dakota:														
Eastern	129	147	80	59	96	48	22	103	48	20	117	110	64	68
Middle	129	112	83	55	58	29	21	53	50	27	166	47	46	52
Western	103	103	52	73	19	38	35	56	49	57	115	33	42	49
State	120	123	70	62	58	39	25	75	49	33	160	65	52	58
Tennessee:														
Eastern	186	105	138	118	31	31	127	83	109	126	57	129	92	105
Middle	80	63	128	100	29	16	187	41	70	142	128	131	82	91
Western	50	55	100	56	33	28	182	15	155	119	92	129	77	82
State	106	71	125	98	32	25	151	55	101	140	86	140	86	95
Texas:														
Western	140	14	53	28	204	51	82	25	274	55	69	66	112	100
Middle	38	29	65	63	176	80	145	77	286	103	60	86	137	115
Eastern	36	55	40	58	180	21	203	59	145	97	67	96	104	91
State	44	41	50	56	179	54	158	64	244	88	63	85	125	102
Utah:														
Northwestern	181	244	94	66	44	233	294	154	41	147	75	177	110	137
Southern and Eastern	43	208	103	35	48	163	130	147	73	165	34	238	118	128
State	131	230	95	55	44	212	259	150	55	150	62	191	112	132
Virginia:														
State	199	124	155	104	36	81	94	85	105	124	46	162	93	109
Washington (State):														
Eastern	146	104	87	66	70	237	52	33	82	15	6	92	98	85
Western	153	135	114	45	180	204	190	94	80	29	16	129	119	104
West Virginia:														
Northeastern	115	110	244	94	51	95	131	94	44	183	59	155	107	113
Northern	103	84	157	102	51	59	119	102	61	131	99	116	94	99
Southern	112	77	126	107	47	37	81	90	71	135	95	116	83	91
State	110	84	157	104	50	56	111	97	62	138	92	120	92	98
Wisconsin:														
State	109	134	89	51	75	57	28	159	95	92	49	140	79	84
Wyoming:														
State	126	197	100	72	25	114	118	116	61	93	70	96	82	94

DROUGHTS IN THE UNITED STATES

Droughts in the United States may be divided into two general classes. In one class are those of a transitory nature, affecting usually a relatively small area and of comparatively short duration, frequently lasting only a single year; in the other those general drought conditions that have a tendency to persist for comparatively long periods of time. Smoothed weather records show long-time trends in precipitation, covering a good many years, alternately above and below normal. The short-period droughts are not usually definitely related to these more general long-time trends. When a minimum phase of precipitation obtains, such as is now being experienced, there occur at short intervals what may be called families of droughts, in contradistinction to the transitory, or short-period ones, that fall in the first-named group.

DROUGHT PERIOD OF 1886 TO 1895

Prior to the minimum phase of precipitation responsible for the present family of droughts, so to speak, the last general condition of this kind occurred in the latter part of the eighties and the early nineties of the last century. At that time, following a series of years of rather abundant rainfall, widespread scanty moisture began in 1886; and while interrupted in 1892 by fairly abundant moisture, there was a marked tendency generally for subnormal rainfall from 1886 up to 1895, culminating in severe droughts in 1894 and 1895, the driest years of that minimum phase. The year 1896 had fairly good precipitation, but 1897 was deficient in moisture between the Mississippi River and the Rocky Mountains.

Following this general long-time drought there were several belonging to the transitory class, being short-lived, and often seriously affecting only comparatively small areas. Among these may be mentioned that of 1901 in the interior valleys and the Southwest. The following year, 1902, had plenty of moisture in most States. Another occurred in 1910, principally in the Central and Northern States and the South, but this again was largely a 1-year affair. Another one in 1917 affected principally the Southeast and northern Plains, and still another, in 1925, was severe in the South and Southeast. Thus for some 60 years up to 1930 there were a number of short-period droughts but only one persistent and markedly dry phase of United States climate, that of 1886–95, lasting, in general, about 10 years, but some years, of course, being better than others.

DROUGHT PERIOD OF 1930 TO 1936

The present dry phase began in 1930 and continued with a few interspersions of fairly good years such as 1935 up to the present time. During this period there were three extremely dry years.—1930, 1934, and 1936. Table 5 shows the percentage of normal rainfall by States or sections for each year, 1930 to 1936, inclusive.

TABLE 5.—*Percentage of normal precipitation by States*

State or region	1930	1931	1932	1933	1934	1935	1936	State or region	1930	1931	1932	1933	1934	1935	1936
Alabama	87	81	121	91	104	93	113	Nevada	109	89	92	75	79	96	116
Arizona	114	144	100	86	78	112	103	New England	82	99	105	107	103	93	119
Arkansas	96	97	105	101	88	117	72	New Jersey	77	81	103	109	99	93	105
California	78	103	66	86	76	94	111	New Mexico	101	126	112	88	70	102	94
Colorado	105	85	86	92	66	96	98	New York	82	97	108	96	90	97	103
Florida	114	83	100	106	101	99	109	North Carolina	76	88	105	79	108	97	121
Georgia	93	74	114	84	96	90	118	North Dakota	86	87	99	77	55	105	52
Idaho	95	83	111	100	89	72	96	Ohio	71	99	97	99	70	104	88
Illinois	75	102	98	94	88	112	82	Oklahoma	94	96	104	93	84	112	67
Indiana	75	97	108	103	75	100	86	Oregon	87	94	102	108	99	78	89
Iowa	82	112	102	79	85	105	82	Pennsylvania	68	88	92	107	92	95	100
Kansas	100	97	89	83	74	106	69	South Carolina	84	78	113	75	95	89	122
Kentucky	61	92	97	111	81	126	83	South Dakota	90	73	96	76	66	85	58
Louisiana	95	94	112	98	106	102	82	Tennessee	80	86	119	102	95	100	95
Maryland-Delaware	58	94	115	120	112	116	107	Texas	96	95	110	84	87	121	102
Michigan	74	97	108	99	83	93	89	Utah	118	79	105	83	74	85	132
Minnesota	89	89	86	83	80	102	73	Virginia	60	91	107	95	110	112	109
Mississippi	89	98	127	94	100	96	84	Washington	78	121	127	136	110	84	93
Missouri	78	100	94	90	85	118	73	West Virginia	59	99	102	113	87	119	98
Montana	81	66	106	103	73	71	75	Wisconsin	82	98	83	89	100	100	84
Nebraska	109	83	89	85	61	97	62	Wyoming	104	82	95	87	78	87	94

EARLIER DROUGHTS

The few available precipitation records, covering 100 years or more, indicate that a general dry phase, somewhat comparable to that of 1886–95, and the more recent one of 1930 to date, obtained in the thirties of the last century, or approximately 100 years ago.

Some tree-ring records of the far Northwest indicate that there probably was a major minimum precipitation phase, at least in that area, soon after the middle of the eighteenth century, within the period 1755–80, with a succeeding maximum phase culminating about the beginning of the nineteenth century.

WET PHASE OF 1865–85

The outstanding wet phase of the United States climate in the last century was from about 1865 to 1885, with a secondary maximum during the first two decades of the present century, though several transitory droughts were interspersed. All of the foregoing statements refer specifically to the interior of the country east of the Rocky Mountains.

While study of the long weather records has not as yet disclosed a law sufficient to justify a forecast of future droughts, such study does give an historical background, which warns us that droughts in future may be expected, just as severe as those of the past. For example, the records show that in the early nineties, or some 40 years ago, there was a drought in the Dust Bowl just as severe as that recently experienced. Doubtless, when the present drought definitely comes to an end there will be a period of years with comparatively heavy rainfall, just as before, and little will be heard about duststorms and the like. But in the planning of a permanent farm program for such areas the basic considerations should include the practical certainty that dry climatic phases, at least as severe as in the past, will recur in the future.

TORNADOES, 1936

In accordance with the practice established in 1916, and pursued each year thereafter, the tornadoes of 1936 are individually described in table 9, page 30. In particular, the form of presentation groups the tornadoes by States in alphabetical order, with the several tornadoes of each State arranged chronologically. The information has been furnished chiefly by the section directors of the Bureau, consequently descriptions of practically all tornadoes have previously appeared in print in the monthly section reports or were listed in the Monthly Weather Review's table, Severe Local Storms.

Owing to the receipt of additional information and sufficient time to study more closely the violent storms which occurred, some difference in detail and number for the year will be found as compared with the rather abbreviated summaries contained in the several monthly and December issues of the Weather Review.[1]

The result of later and more intensive considerations is the addition of a considerable number of tornadoes, some formerly overlooked or cataloged as nontornadic. In addition one or two storms previously classified as tornadoes are omitted from the accompanying compilation but are included, however, in the table on windstorms other than tornadoes.

GENERAL SYNOPSIS

During 1936 there were 159 tornadoes in 34 States; none occurred in Alaska, Hawaii, Puerto Rico, District of Columbia, or the Virgin Islands. This number is 23 less than the total (182) for the previous year and ranks seventh in the order of greatest frequency of record. The years 1933, 1928, 1929, 1930, 1935, and 1927 had 260, 203, 197, 192, 182, and 164 tornadoes, respectively. As compared to normal (average for the period 1916–36), the number of tornadoes for 1936 exceeded the average by 23.

In addition, two towering waterspouts were reported over Lake Erie on the afternoon of July 30 and advanced inland in the vicinity of Conneaut, Ontario, incurring very little damage. These are published at the close of table 9, but are not included in the computations for the United States. On the same day early in the morning a storm described as "a vicious tornado swept in off Lake Erie in the form of a gigantic waterspout" somewhere along the Ohio-Lake Erie shore line. No definite information on this disturbance was obtained, and for that reason it is being omitted from consideration in treating 1936 tornadoes.

About 56 percent of these disturbances occurred in the months of April, May, and June; during April, the month with the greatest number, there were 32, while May and June each had 28. The greatest monthly frequency in the preceding year numbered 43 during May. Tornadoes were reported somewhere in the United States every month of the year, except October. The monthly frequency for the remaining 11 months of 1936 were: January, 6; February, 4; March, 11; April, 32; May and June each, 28; July, 22; August, 11; September, 9; November, 1; and December, 7.

[1] Preliminary report on tornadoes in the United States during 1936, by J. P. Kohler, Monthly Weather Review, December 1936.

The total loss of life attributed to tornadoes during 1936 numbered 552, which is 482 greater than the 1935 figure and is the second-greatest annual toll during the 1916–36 period. Table 8, page 30, shows that only three other years, 1925, 1927, and 1917, with 794, 540, and 508 deaths, respectively, exceeded the 500 mark. Four hundred and ninety-two deaths were incurred in April, of this number 233 deaths were in Georgia and 224 in Mississippi. For the other months the number of deaths was: January, 20; March, 17; May and June, 10 each; July, 2; and December, 1. No deaths resulted from the occurrence of tornadoes during the months of February, August, September, and November. In most cases deaths were caused by flying debris, or collapsing buildings, but there were several instances in the major tornado catastrophes where persons were swept up by tornadic winds resulting in death.

The number injured from 1936 tornadoes totals somewhat in excess of 2,928, for in many cases injuries were described as "several injured" or "possibly additional number injured." More than 86 percent of the total injuries took place in April, with a figure of 2,539—1,496 were injured in Georgia alone, 719 in Mississippi, 148 in North Carolina, 55 in Tennessee, 36 in Iowa, and 30 in South Carolina. Ninety-eight persons were injured in March, 86 in May, 52 in December, 47 each in January and July, 19 in February, and 17 in September. No injuries were reported from tornadoes occurring during August and November.

Property losses that were reported as the result of tornadoes (crop losses included) were without question much less than the true losses, for it is seldom feasible to secure data for all parts of a long track, and often no trustworthy reports can be obtained. Estimated losses for 1936 amounted to $26,228,550 which includes $278,350 damage to crops—exceeding the 1935 losses by more than $21,000,000. Only one other year, 1927, with a total damage amounting to $43,445,650 exceeds the 1936 figure.

Table 6 shows the destruction of 1936 tornadoes expressed in dollars by months for the various States or sections. On a State basis Georgia suffered the greatest annual loss, with $16,117,700, the greatest portion of which was incurred in April. North Carolina ranks second, the damage amounting to $2,073,000, and Texas third with $1,313,000. In 1935 the State of Mississippi suffered the greatest loss, $769,200, a figure overshadowed by the destructive series [2] occurring in the Southeastern States in the early spring. Several of the 1936 tornadoes took place without a single fatality and little or no financial losses. Disturbances in this category existed in the upper air and were observed or heard, but did not propogate themselves to the earth's surface. Also, one or two tornado occurrences in some of our Western States traversed, in many cases, barren land devoid of houses and crops; consequently, no destruction resulted.

TABLE 6—*Tornado destruction in dollars, by months, during 1936*

State or section	January	February	March	April	May	June	July	August	September	October	November	December	Crop	Property	Total
Alabama	$116,000	$3,000		$160,000								$48,000		$327,000	$327,000
Arkansas			[1] $5,000 32,000	40,000	$20,500		[1] $1,000 8,000						$6,000	100,500	106,500
California							(2)					(2)		(2)	(2)
Florida	[1] 15,000 28,500				200						[1] $800		15,800	28,700	44,500
Georgia	[3] 10,000		([4] [5])	[5] 16,107,300			[1] 200 200						200	16,117,500	16,117,700
Idaho						[1] $250 3,750							250	3,750	4,000
Illinois						(7)								(7)	(7)
Indiana				(8)										(8)	(8)
Iowa				593,000		41,000			[1] $500 27,800				500	661,800	662,300
Kansas					4,300	700	94,000	$40,000						139,000	139,000
Louisiana							[1] 1,300 52,400						1,300	52,400	53,700
Michigan						10,000								10,000	10,000
Minnesota				875,000			16,000							891,000	891,000
Mississippi				3,030,000										3,080,000	3,080,000
Missouri		15,000	150,000					(2)	(2)			50,000		165,000	165,000
Montana					200	1,125	3,000							4,325	4,325
Nebraska						2,000		10,000	[1] 1,000 24,000				1,000	36,000	37,000
New England						(7)	200,000	([1] [2]) 2,000	1,000				(3)	203,000	203,000
New Jersey					(2)									(2)	(2)
New Mexico			200		10,500									10,700	10,700
New York					(2)	(9)	([1] [3] [10])						(9)	(10)	([2] [3])
North Carolina				2,015,000		50,000	[1] 2,000 6,000						2,000	2,071,000	2,073,000
North Dakota					5,000									5,000	5,000

See footnotes at end of table.

[2] Tornado Disasters in the Southeastern States, by J. B. Kincer, Monthly Weather Review, May 1936.

TABLE 6.—*Tornado destruction in dollars, by months, during 1936*—Continued

State or section	January	February	March	April	May	June	July	August	September	October	November	December	Crop	Property	Total
Oklahoma		$1,500			[1] $500 143,000	$49,000 213,425			[1] $500 1,500				$50,900	$359,425	$410,325
Pennsylvania						(2)								(3)	(3)
South Carolina				$251,000										251,000	251,000
South Dakota					3,000	(11)	$300	$20,000						23,300	23,300
Tennessee				202,000			[4] 400 14,500						400	216,500	216,900
Texas			[5] $200,000 1,000,000	25,000	28,000	50,000		(16)				$10,000	200,000	1,113,000	1,313,000
Virginia			45,000											45,000	45,000
Washington															
Wisconsin					30,000		5,000	300						35,300	35,300
Crops	$15,000		205,000		500	50,150	4,900	(2)	2,000		$800		278,350	25,950,200	26,228,550
Real property	154,500	19,500	1,227,200	23,298,300	244,700	372,000	399,400	72,300	54,300		None	108,000			
Total	169,500	19,500	1,432,200	23,298,300	245,200	422,150	404,300	72,300	56,300		800	108,000			

[1] Loss to crops.
[2] Damage incurred; no estimate secured.
[3] Additional damage of "Few hundred" occurred.
[4] 1 instance wherein damage was incurred; no estimate secured.
[5] 2 instances of damage incurred, described as "Few hundred."
[6] Additional damage incurred; no estimate secured.
[7] No data obtained.
[8] Slight damage.
[9] None reported.
[10] Few hundred.
[11] Several thousand.

In general, 116 of the 159 tornadoes during the year occurred without a single fatality. Sixteen tornadoes incurred 1 death each, 6 with 2, 1 with 3, 4 with 4, 2 with 5, 1 with 6, 1 with 7, 1 with 8, 1 with 12, 1 with 14, 1 with 23, and 1 with 216 deaths; in addition, a series of 3 tornadoes (Oklahoma, Nos., 11, 12, and 13 in table 9) caused 3 deaths, a series of 2 tornadoes (Georgia, Nos., 13 and 14 in table 9) incurred 203 deaths, and a combination of 2 tornadoes (Iowa, Nos., 2 and 3 in table 9) joining and entering Minnesota (No. 1 in table 9) caused 3 deaths in the latter State. Ninety tornadoes occurred without a single death or injury. From a monetary standpoint 6 tornadoes incurred damage equal to $100,000 but less than $200,000, 3 with losses of $200,000 or more but less than $300,000; 1 with around $310,000. Beyond these limits 1 tornado incurred losses somewhat in excess of $1,000,000, 1 in excess of $2,000,000. and a combination of 2 tornadoes on April 30 in Iowa emerging as one and passing into Minnesota caused losses amounting to $1,135,000. Also, another combination of 2 tornadoes in Hall County, Ga., on April 6 caused damage estimated at $13,000,000.

SYNOPSIS BY STATES

Thirty-four States in all reported tornadoes during the year 1936. No tornadoes were reported in the following 14 States: Oregon, Nevada, Utah, Arizona, Colorado, Wyoming, Ohio, Kentucky, West Virginia, Maryland, Delaware, Maine, New Hampshire, and Rhode Island, nor in the District of Columbia.

In comparison with the 21-year average (1916–36) the occurrence of such storms was about normal in the Plains States, though the total number in Oklahoma and Kansas was considerably above normal. The number was somewhat below normal in the Ohio Valley and mostly normal in the upper Mississippi Valley and somewhat above the low averages for the New York and the New England districts. The number of tornadoes in the east Gulf States, excepting Florida, with four (two above normal) was decidedly in excess of the 21-year average. Alabama reported 10 tornadoes for the year as compared with an average of 6 and Georgia 16 or 13 in excess of the normal expectancy. Summarized geographically, the only territories entirely free of tornadic occurrence were the extreme eastern Ohio Valley, Oregon on the Pacific coast, and the Great Basin area.

Table 7 shows the number of deaths and injuries by months and sections for the year 1936. This table shows that the greatest number of fatalities and injuries occurred in the southern and southeastern parts of the country during the early spring months of the year.

TABLE 7.—*Deaths and injuries incurred by tornadoes during 1936*

State or section	January		February		March		April		May		June		July		August		September		October		November		December		Annual	
	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Deaths	Injuries	Death	Injuries
Alabama	6	28	0	1	13	63																	1	44	20	136
Arkansas	0	4					1	4	2	20			0	0											3	28
California													0	0									0	0	0	0
Florida	7	15							0	0											0	0			7	15
Georgia	7	(1)			0	10	233	[2] 1,496					0	2											240	1,508
Idaho											2	0													2	0
Illinois											0	0													0	0
Indiana							0	0																	0	0
Iowa							2	[1] 36			0	0					0	0							2	36
Kansas									0	0	0	0	0	0	0	0									0	0
Louisiana													2	28											2	28
Michigan											0	0													0	0
Minnesota							3	40					0	1											3	41
Mississippi							224	719															0	4	224	723
Missouri			0	0	4	25									0	0	0	0							4	25
Montana									0	0	0	7	0	0											0	7
Nebraska											0	0			0	0	0	3							0	3
New England section:																										
Connecticut																	0	0							0	0
Massachusetts											0	0	0	[3] 8			0	[3] 8							0	[4] 16
Vermont															0	0									0	0
New Jersey									0	0															0	0
New Mexico					0	0			1	0															1	0
New York									0	0	0	0	0	2											0	2
North Carolina							14	148			0	0	0	0											14	148
North Dakota									0	0															0	0
Oklahoma			0	18					6	56	8	14					0	6							14	94
Pennsylvania													0	0											0	0
South Carolina							2	30																	2	30
South Dakota									0	0	0	0	0	0	0	0									0	0
Tennessee							11	55					0	6											11	61
Texas					0	0	2	11	1	10	0	2			0	0							0	4	3	27
Virginia					0	0																			0	0
Washington																	0	0							0	0
Wisconsin									0	0			0	0	0	0									0	0
Total	20	47	0	19	17	98	492	2,539	10	86	10	23	2	47	0	0	0	17			0	0	1	52	552	2,928

[1] Several reported injured; no definite statement obtained.
[2] In addition, 1 instance of "Several injured," also in Hall County on Apr. 6, an additional number, 700, received first-aid treatment, not included in total.
[3] Possibly additional number injured.
[4] Additional number above total injured, see references per month.

BOUNDARY-CROSSING TORNADOES

Four 1936 tornadoes definitely crossed State boundaries. In order of time, the first disturbance, originated on January 18, about 7 p. m., in Washington County, Fla., continued across Jefferson County, Fla., the south and eastern portions of Houston County, Ala., about 9 p. m. and became extinct some time later in west-central Early County, Ga. The general direction of advance was northeasterly; total length of path (not continuous) approximately 73 miles, while the destructive width of the path varied from 100 to 1,320 yards. Very little damage occurred in Georgia. However, the Florida and Alabama areas affected suffered considerable losses. In Florida 7 deaths resulted, 15 injuries, and damage in excess of $25,000, while in Georgia 1 death occurred, 10 injuries, and property damaged to the extent of $10,000.

The second boundary-crossing tornado of the year was much more destructive, originating in the extreme eastern portion of Itawamba County, Miss., near 9 p. m., it passed into Alabama a few minutes thereafter, traversing portions of five counties, namely, Franklin, Colbert, Lauderdale, Limestone, and Madison, finally becoming extinct near the Alabama-Tennessee border about 11 p. m., April 5. No deaths or injuries, and very little damage resulted in Mississippi. The five counties in Alabama sustained an aggregate loss amounting to more than $155,000; also, 12 persons were killed and 50 injured. The total length of path (not continuous) approximated 97 miles and the general direction of advance was northeast to eastnortheast.

The third and fourth boundary-crossing tornadoes were of a binary nature. On April 30, in the northern portion of Emmett County, Iowa, about 4:17 p. m., a tornado passed over the northern portion of Estherville, damaging 12 homes. A short time later a second disturbance traversed the southern edge of Estherville and tore up more than 800 feet of railroad track. Beyond Estherville the two disturbances followed generally parallel paths through Center Township, then joined for a short distance, then separated and once more united and continued as a single disturbance in southern Martin and west-central Faribault Counties, Minn. The general direction of advance was northeast to eastnortheast, and the total length of path (not

continuous) amounted to more than 45 miles. No deaths resulted in Iowa, 3 were incurred in Minnesota, while injuries numbered 40 in Minnesota and 21 in Iowa. The aggregate property and crop damage amounted to $1,135,000.

Owing to unusual tornadic activities in the Southeastern States, principally in Mississippi, Alabama, Georgia, and South Carolina during the first week of April, it is safe and reasonable to assume that the number of boundary-crossing disturbances should be somewhat greater than four for the year. This follows from the fact that public attention was focused upon the major tornadic disasters at this time, and isolated communities and small tornadic disturbances received little or no publicity.

The number of tornadoes during 1936, based on State occurrences, numbers 163, but enumerated according to origin and extinction, the number is decreased to 159—this is evident from the above discussion, one tornado being reported three times by States, one twice and the two joint Iowa tornadoes reported as one in Minnesota.

SPEED OF ADVANCE

The reports gathered on the various tornadoes are seldom sufficiently complete in detail to afford computation of the speed of translation. Nevertheless, several tornadoes during 1936 were quite closely observed and the time elapsing between two or more points obtained accurately enough to permit mathematical treatment. The highest speed of progression computed was 60 miles per hour for two tornadoes, one occurred in Jefferson and Arkansas Counties, Ark., on March 24, the other in Wilkes and Lincoln Counties, Ga., on April 1. The lowest translational speed, 22 miles per hour, evolved from the occurrence of a tornado which traversed portions of three counties (Pickens, Tuscaloosa, and Jefferson) in Alabama on the afternoon of December 6. In eight other cases considered lineal speeds figured, 41, 54, 50, 24, 44, 25, 36, and 35 miles per hour.

OUTSTANDING 1936 TORNADOES [3]

The outstanding destructive 1936 tornadoes occurred during two series of unusual tornadic activity in six Southeastern States, namely, Tennessee, Mississippi, Alabama, Georgia, North Carolina, and South Carolina, in the first 6 days of April. Twenty-two individual tornadoes were reported, but the actual number probably somewhat exceeded this total, for tornadoes that occurred in thinly settled and isolated communities received little or no publicity, attention being chiefly confined to the major tornado disturbances.

The first series, composed of 10 tornadoes, 1 in Alabama, 5 in Georgia, 1 in South Carolina, and 3 in North Carolina, occurred over a period of 13 hours. The first reported (Georgia No. 6 in table 9), took place in Wilkes and Lincoln Counties, Ga., on April 1, about 8:45 p. m. Another occurred at 11 p. m. the same day in northeastern Pickens County, Ala. From early morning (about 5–6 a. m.) to about 7:30 a. m., April 2, four tornadoes occurred in the southern third of Georgia (Nos. 7, 8, 9, and 10 in table 9), and one in Cabarrus County, N. C. Thereafter, activity ceased until early evening when, from 7 to 9:15 p. m., two disturbances occurred in North Carolina (Nos. 2 and 3 in table 9) and one in western Colleton County, S. C. (No. 1 in table 9).

Two tornadoes, in the first series, were highly destructive, the first (Georgia, No. 9 in table 9) occurring in central Crisp County, Ga., about 7:30 a. m., April 2. According to reports collected by the Weather Bureau director for the State of Georgia, G. W. Mindling, the tornado was first noted about 7 miles west of Cordele, when some timber was destroyed, but no other damage was done until the tornado was just a little outside the western city limits. The course of destruction continued with great intensity for about 2 miles across the city, including some property just beyond the eastern city limits. The course, northeasterly in direction, continued for some 5 miles beyond the city before the tornado disappeared.

The havoc wrought amounted to more than $3,000,000. Twenty-three persons were killed and 500 injured. This tornado demolished 287 buildings of which 276 were dwellings. Of these dwellings over 100 were among the best in Cordele. The total length of path amounted to about 12 miles, with a width varying from 100 to 400 yards. The origin of this particular storm was about 25 and 44 miles respectively northeast of two disturbances; one occurring 6 a. m. in southeastern Terrell County and the second about 7 a. m. in southern Lee County. The Cordele storm possibly may have been a continuation or a redevelopment of the tornado occurring in southern Lee County.

The second highly destructive tornado in the first series was reported around 7:12 p. m., April 2, in east-central Guilford County, N. C., and pursued a course eastnortheasterly across

[3] J. B. Kincer, Chief of the Climate and Crop Weather Division, Weather Bureau, Washington, D. C., treated in considerable length, in the May 1936, Monthly Weather Review, "Tornado Disasters in the Southeastern States." These storms proved to be the most outstanding in 1936.

central Alamance County, and terminated sometime between 8:15 and 8:30 p. m. in west-central Orange County.

The following account and description was rendered by Lee A. Denson, Weather Bureau section director for the North Carolina section: "The most destructive tornado of record in the State occurred at Greensboro (Guilford County), April 2, beginning on the extreme west side at 7:12 p. m., and passing to the eastern outskirts at 7:20 p. m.; path 7 miles long, 50 to 800 feet wide, slightly winding and broken in places; 13 persons were killed and 144 injured; 289 buildings damaged, 56 being totally wrecked; estimated property damage, $2,000,000. This storm appears to have passed one-half mile north of Mebane (Alamance County) about 8 p. m. and was traced in an easterly direction for 6 miles; estimated damage $10,000; 1 person killed, 4 injured. Later slight damage occurred 3 miles from Hillsboro (Orange County)." In the last-mentioned county, no deaths or injuries were incurred. Property damage amounted to only $5,000.

The total length of path (not continuous) for the storm in question (North Carolina, No. 2 in table 9), approximated 38 miles and the average lineal speed computed from the various points passed, was 36 miles per hour. Vital statistics for the three counties were, 14 killed and 148 injured, and property damage amounted to $2,015,000.

The second series of tornadoes, far more destructive than the first, numbering 12 in all, occurred during the early evening of April 5 and during the forenoon of the 6th. This series, in addition to being more disastrous than the first, was considerably more localized in respect to time and areas affected. On the 5th, in the brief space of 1¼ hours, no less than six tornadoes occurred over an area embracing northeastern Mississippi, extreme northwestern Alabama and a few counties in Tennessee immediately adjoining these sections. Two occurred in Tennessee (Nos. 1 and 2 in table 9) and four in Mississippi (Nos. 1, 2, 3, and 4 in table 9). No. 4 in Mississippi, originating in eastern Itawamba County, crossed into Alabama as No. 7 (see Alabama in table 9) traversing parts of four counties finally becoming extinct near the Alabama-Tennessee border about 9 p. m.

The next outbreak of tornado activity was reported on April 6 in the northern third of Georgia and extreme northwestern South Carolina. The times of occurrence range from 8:27 to 10:05 a. m. During this interval five tornadoes occurred in Georgia (Nos.11, 12, 13, 14, and 15 in table 9) and one in South Carolina (No. 2 in table 9).

The most destructive in the first group of the second family of tornadose took place in the south and eastern portion of Lee County, Miss. This storm (Mississippi No. 3 in table 9) continued into western Itawamba County but very little damage evidently resulted in that portion of the latter county. The disturbance considered was first noted about 8:55 p. m. Sunday, April 5 in the western suburb of Tupelo. It destroyed a good portion of the western suburb and then laid low a broad swath averaging about 400 yards from the southwest to the northeast throughout the residential section of the city. Many buildings of substantial construction were demolished, 216 persons were reported killed and 700 injured and property loss in Tupelo and vicinity amounted to $3,000,000. In the path cut through Tupelo many structures were destroyed, some partly destroyed and others scarcely damaged at all. An investigation conducted by the Mississippi State Geological Survey, Bulletin 31, "Tupelo Tornado" brings to light considerable information bearing upon selective tornado destruction. The report shows in the main that buildings constructed of substantially good brick, strong cement mortar, and tied in properly with internal construction endured the tornadic forces with the least amount of damage.

The group of tornadoes in the second series which took place in the northern part of Georgia during the forenoon of April 6 proved to be the most destructive for the year. About 8:27 a. m. (Georgia, No. 12 in table 9), a tornado struck Brenau College campus on the northeastern outskirts of Gainesville. The path was narrow, incurred no injuries or deaths and only slight property damage. A few minutes later near 8:37 a. m. two funnel-shaped clouds (Nos. 13 and 14 in table 9) some distance apart, appeared on the western outskirts of Gainesville. Relative to this instant, the Weather Bureau section director of Georgia, George W. Mindling, made the following comment: "These two paths came together west of Grove Street and an area four blocks in width was laid waste clear across the city beyond which separate courses of destruction again appeared."

The storm was attended by winds of most violent force. One of the most striking examples of this power was exhibited in the destruction of the courthouse; the courthouse bell, weighing 1 ton, was transported 350 yards. About 750 houses were utterly demolished, more than 200 badly damaged, while the business section of the city was almost completely destroyed. The loss of life reached the appalling total of 203 while 934 others were injured and an additional 700 required first-aid treatment. Property losses were estimated at $13,000,000.

The group of tornadoes comprised in these two series, 10 in the first and 12 in the second, probably ranks third in destructiveness in the tornado history of the United States. The

number of people reported killed was 497, injured 2,511, not counting an additional 700 that received first-aid treatment in the Gainesville disaster, while property losses were in excess of $21,760,800. If we consider the tornado that occurred in northeastern Arkansas, Izard County, (Arkansas, No. 5 in table 9) at 2:00 p. m., April 5 to be associated with the series, the various totals would be increased by one death, four injuries, and $40,000. From the standpoint of comparison, there is a record of a series of tornadoes supposed to have included some 60 separate storms which occurred in several Southern States during February 1884 with an estimated loss. of life approaching 800. The other tornado disaster superior to the 1936 series was the so-called "tri-State" tornado of March 18, 1925, in the Middle West causing more than 700 deaths; people injured numbered around 3,000.

Aside from the severe tornadic activity in the Southeastern States on March 24 (Texas, No. 1 in table 9) Gregg County in northeastern Texas was visited by an exceptionally destructive storm in the early morning. Fortunately no deaths or injuries were incurred but destruction, mostly to oil well derricks, amounted to $1,000,000 and crop losses an additional $200,000. Another instant of severe tornadic activity took place over four adjoining counties in Iowa and Minnesota on the afternoon of April 30. (See Iowa's No. 2 and 3 and Minnesota's No. 1 in table 9.) In all, 3 persons were killed, 61 injured and property damage totaled in excess of $1,135,000.

The atmospheric conditions from the standpoints of pressure distribution, type of air masses, winds aloft and temperature gradients responsible for the disastrous southeastern tornadoes series are discussed briefly by the Meteorological Physics Division of the Weather Bureau as follows:

"Eight of the storms in the first series apparently occurred with the passage of a Pc surface cold front under-running Ta air. It seems then that the cold front must have had something to do with these tornadoes or at least must have furnished the "trigger action" that set them off. Naturally, tornadoes are not found along all cold fronts between Pc and Ta air so there must have been some unstable conditions in these particular air masses themselves that favored the formation of the tornadoes.

"The only airplane observation in the Ta air mass on April 1 was taken at Pensacola. This observation showed stable conditions at low levels and conditionally unstable air above 1,500 meters. However, it is interesting to note that at the 1,000-meter level there was a specific humidity of 12.5 grams per kilogram, and a relative humidity of 92 percent. Five hundred meters higher, the air had the same temperature, thus showing at first stable conditions, but the specific humidity at the level of 1,500 meters was 4.9 grams per kilogram with a relative humidity of 34 percent. In other words, this layer of air was convectively unstable. If now we have a steep cold front, as was apparently the case in this situation, that suddenly pushes the particles of the Ta air ahead of it up 1,000 meters this stable layer would become unstable with respect to dry air for a very short space of time. Adjustment to equilibrium would occur so suddenly and with such velocity that a series of tornadoes could develop.

"Humphreys [4] states that tornadoes occur when the gradient winds are extremely strong. With both series there were SSW to SW winds of 38 to 55 miles per hour in the Ta air. In the series of April 1 and 2 there were winds of 25 to 35 miles per hour from the N or NW, west of the front, and on April 5, 25 to 35 miles per hour west of the front. Possibly there was enough of a torque action to form strong eddies between these two air masses.

"The tornadoes that appeared April 5 differed from those of April 1 in that they occurred 50 to 100 miles ahead of the cold front. The surface analysis was similar to that of the first series with one exception. On April 4 a mass of Npp air with dry Tp or S air aloft was found over Texas and Alabama. With clear skies this air was heated rapidly during the day causing a steep lapse rate which was shown on the Oklahoma City airplane observation. This air was also very dry. The air at Pensacola and at Shreveport was comparatively stable and moist. The air at Oklahoma City was 3° warmer than at Shreveport in the lower 1,500 meters, but due to the steep lapse rate it was probably colder above 2,000 meters. The Shreveport flight did not go above 1,500 meters.

"With the wind WSW to W, 21 to 35 miles per hour in the Npp air it could be carried eastward over the Ta air. The Npp air would only over-run a shallow layer of Ta air; above 2,000 meters it would be colder and therefore act as a cold front aloft. The tornadoes would form just behind the upper-air cold front where, due to the coldness of the air aloft, the stability which characterized the Ta air ahead of the front would no longer exist and it would be easier for the lower, moist air to penetrate upward into the overlying air. The first convection or turbulence current to penetrate into this upper air mass from the west would encounter a very unstable medium for moist air, with a lapse rate of 8/10 or 9/10 of the dry adiabatic. The convection

[4] Humphreys' Physics of the Air, p. 210.

would become violent after the first Cu-Nb clouds had broken through into these unstable strata and tornadoes might have formed where these upward blasts were the strongest. After a certain length of time this violent overturning would cease with the attainment of near-equilibrium conditions through mixing."

SUMMARY FOR PAST YEARS

Table 8 gives the total number of tornadoes, deaths resulting from such storms, and the estimated property losses for the years 1916–36.

TABLE 8.—*Deaths and property loss caused by tornadoes, 1916–36*

Year	Reported	Aggregate loss of life	Aggregate reported property losses	Year	Reported	Aggregate loss of life	Aggregate reported property losses
	Number				*Number*		
1916	86	140	$2,511,500	1929	197	274	$10,049,400
1917	121	508	15,007,700	1930	192	179	12,289,100
1918	81	134	7,631,200	1931	94	36	3,215,400
1919	65	205	6,861,500	1932	152	394	8,988,525
1920	87	498	15,205,000	1933	260	362	16,190,640
1921	106	202	5,406,300	1934	147	47	4,424,950
1922	108	133	6,630,000	1935	182	70	4,732,930
1923	100	109	2,958,750	1936	159	552	26,228,550
1924	130	376	26,120,850				
1925	119	794	24,023,900	Total	2,864	5,789	259,476,395
1926	111	144	4,318,950				
1927	184	540	43,445,650	Average	136	276	12,356,019
1928	203	92	13,235,600				

ITEMS OF TABLE 9

Where two or more county names appear, the word "and" between them or next to the last named county, indicates that the tornado path began in the first and continued in the order named, and was confined to those counties unless it was one of the few tornadoes that crossed a State boundary, in which case only the portion within the single State is indicated. Frequently braces are used, especially in cases where it is possible to present statistics for each county. Notations immediately after county names, such as (N.), (NE.), (E.), and (E.-C.), etc., indicate respectively, North, Northeast, East, and East-Central, etc., portions of the counties in which the disturbances occurred.

The direction of advance is usually entered to 8 points of the compass, but occasionally to 16 points when sufficient detail exists. If the tornado changed direction, the curvature of path is outlined by 2 directions separated by a hyphen.

The length of path of a "not-continuous" storm is not the length devastated, but the entire distances from first havoc to last. The width of the path is usually the mean width, but occasionally the width has varied sufficiently that the limits of variation are given, that is, the minimum and maximum widths. It will be noted that in several instances the tornadic character of a storm is given as somewhat doubtful, but in these cases the presence of marked rotary winds over a rather narrow area was taken as sufficient evidence to classify the storm as a tornado.

TABLE 9.—*Tornadoes of 1936, arranged by States*

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
ALABAMA									
				Miles	*Yards*	*Number*	*Number*	*Dollars*	
1. Jan. 18	3 a. m.	DeKalb (E.-C.)	ENE	15	100	4	8	100,000	Several homes destroyed. Heavy rain followed disturbance.
2. Jan. 18	10 a. m.	Shelby (E.)	NE	1½	100	0	3	4,000	Occurred more than 70 miles SW. of No. 1.
3. Jan. 18	5:30 p. m.	Dale (N.)	ENE	1½	75	1	7	2,000	Occurred more than 90 miles SSE. of No. 2.
[1] 4. Jan. 18	9 p. m.	Houston (S. and E.)	NNE	[2] 20	[2] 1,320	[2] 1	[2] 10	[2] 10,000	[1] Continuation of Florida No. 1. [2] Figures for Alabama. Path not continuous. Continued into Georgia as No. 1.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
ALABAMA—con.									
				Miles	*Yards*	*Number*	*Number*	*Dollars*	
5. Feb. 14	3:30 p.m.	Henry (N.)	NE	16	200	0	1	3,000	
6. Apr. 1	11 p. m.	Pickens (NE.)	NE	1	300	1	5	5,000	
	9 p. m.	Franklin (NW.)	NE	21	400	8	50	145,000	[1] Continuation of Mississippi No. 4.
	(2)	Colbert (S. and E.)	NE	26		0	0	(3)	Traversed Colbert County; no damage reported. [2] Between 9 and 10 p. m. Path not continuous.
	10:20 p. m.	Lauderdale (SE.)	NE-ENE.	14	400	0	5	5,000	Lauderdale County adjacent and north of Colbert County. Lineal speed 41 miles per hour from Franklin to Lauderdale Counties.
[1] 7. Apr. 5	(2)	Limestone	ENE.	25		0	0	(3)	Limestone County adjacent and east of Lauderdale County. Path not continuous. [2] Between 10:20 and 11 p. m.
	11 p. m.	Madison (ext. NW.)	ENE.	6	400	4	3	5,000	Terminated near Alabama-Tennessee border. Lineal speed about 54 m. p. h. from Lauderdale to Madison Counties.
				[3] 97					[3] Approximate mileage. Path not continuous, and details for Colbert and Limestone Counties lacking, but time element, direction, and geographical area affected point to the operation of a single disturbance.
8. Dec. 6	12:30 p.m.	Pickens (SE.)	ENE.	12		0	5	6,000	Inception near Olney.
	2 p. m.	Tuscaloosa [1]	ENE	38		0	7	4,000	[1] Traversed middle portion of county.
	Near 4 p. m.	Jefferson (W. and C.).	ENE.	25		1	16	20,000	Terminated north of Birmingham.
				[2] 75	(3)				[2] Approximate total miles traveled, path not continuous. Speed of advance about 22 m. p. h. [3] Width varied from 100 to slightly more than 1,300 yards.
9. Dec. 6	About 4 p. m.	Chilton (NW.)	NE	10	200	0	2	1,000	Inception about 70 miles almost due E. from origin of No. 8.
		Shelby (S.)				0	4	2,000	Shelby County N. and adjacent to Chilton County.
10. Dec. 6	6:30 p. m.	Chilton (S.)	ENE.	4	200	0	10	15,000	Details lacking.
ARKANSAS									
1. Mar. 23	11 p. m.	Izard (SE.)	NE	(4)	100	0	0	1,500	Path of greatest destruction 50 yards.
2. Mar. 24	3 a. m.	Nevada (S.)	NE	(4)	50	0	0	500	Path of greatest destruction about 25 yards.
3. Mar. 24	4:30–5 a. m.	Jefferson (N.-C.), Arkansas (NW.), and Prairie (S.).	NE	35	440–1,760	0	4	30,000	Origin about 120 miles NE. of No. 2. Destructive winds in northwest Arkansas County, extending over area 8 miles wide, near Stuttgart. Average speed about 50 miles per hour.
4. Mar. 24	4:30–5 a. m.	Jefferson (E.-C.) and Arkansas (N.).	NE	30	1,760	0	0	[5] 5,000	Path practically parallel to that of No. 3 and 8 to 11 miles south. Average lineal speed 60 m. p. h.
5. Apr. 5	2 p. m.	Izard (S.-C.)	NE	6	440	1	4	40,000	Very little damage to crops.
6. May 9	2 p. m.	Sevier (SW.)	NE	10	440–880	2	20	20,000	Very little damage to crops. Origin 3 miles SE. of Horatio.
7. May 9	(1 4)	Hempstead (NW.)	(4)	(4)	(4)	0	0	500	Property damage. Occurred 2½ miles E. of Ozan and 39 miles E. from No. 6 [1] Time unknown but most probably occurred between 2–6 p. m.
8. July 15	Between 3–4p. m.	Benton (C.)	(4)	(4)	(4)	0	0	2,000	Rural property destroyed.
9. July 18	5:45 p. m.	Logan (N.-C.)	E	(4)	100	0	0	6,000 [5] 1,000	Rural property damaged.
CALIFORNIA									
1. July 5	3 p. m.	Imperial (NE.)	NE	5–8	1,960	0	0	(10)	Some damage to automobiles by blowing sand. Disturbance accompanied by lightning, thunder, and rain.
2. Dec. 26	(4)	Sonoma	(4)	3	(4)	0	0	(10)	Rural property damaged.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
FLORIDA				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
[1]1. Jan. 18	7 p. m.	Washington and Jackson.	NE	[2]35	[2]100	[2]7	[2]15	[2]25,000	[1] Continued into Alabama as No. 4. [2] Figures for Florida—property loss mean of estimates, also number of injured. First appearance of storm 17 miles SW. of Chipley; path not continuous.
2. Jan. 19	9:15 a. m.	Lake	NE	5	167	0	0	3,500 / [c]15,000	Crop damage mostly citrus.
3. May 27	3:45 p. m.	Escambia	NW	[1]1	17	0	0	200	Began as a waterspout over east Pensacola Bay. [1] Distance traveled over land.
4. Nov. 5	1 p. m.	Polk	WSW	2	100	0	0	[c]800	Orange trees and fruit damaged.
GEORGIA									
[1]1. Jan. 18	(4) p. m.	Early (W.-C.)	NE	[2]18	(4)	[2]0	[2]0	([2] 12)	[1] Continuation of Alabama No. 4. 2 houses blown down, others damaged to a lesser degree. [2] Figures for Georgia.
2. Jan. 18-19	11:30 p. m.	Calhoun (E.)	ENE	(5)	(4)	7	(6)	10,000	6 barns destroyed, 15 head of of livestock killed. Huge concrete pillar at Edison blown away; never found. Water tank carried nearly ¼ mile. Possibly a reappearance or continuation of No. 1.
3. Mar. 16	9:30 p. m.	Richmond (NE.)	E	(5)	(6)	0	0	(10)	Garage demolished, other building damage occurred in suburb of Augusta.
4. Mar. 16	Between 11-12 p. m.	Richmond (NE.)	ENE	4	(4)	0	10	(12)	2 houses completely destroyed and 5 others damaged. Occurred within a 4-mile radius south of Augusta business district.
5. Mar. 20	(7)	Richmond (NE.)	E	(5)	(4)	0	0	(12)	Occurred 3 miles west of Augusta Weather Bureau office. Small garage upset and 4 houses damaged. Considerable damage to trees.
6. Apr. 1	3:45 p. m.	Wilkes (N. and E.)	ESE	10	(4)	5	50		Inception near Tignall; 40 houses completely destroyed, also 5 barns and a store. Considerable livestock killed.
	9 p. m.	Lincoln (W-C.)	ESE	7	(4)	0	2		At Lincolntown and vicinity more than 50 houses wrecked or damaged.
				[1]17				[2]100,000	[1] Total length of path (not continuous); average speed about 60 m. p. h. [2] Aggregate loss for both counties.
7. Apr. 2	6 a. m.	Terrell (SE.)	E	(4)	200-500	1	(8)	3,000	Disturbance occurred near Sasser. Rotary wind movement very evident from position of fallen trees.
8. Apr. 2	7 a. m.	Lee (S.)	NE	1-1½	400	1	8	4,300	Occurred near Leesburg, 10 miles E. of No. 7. Funnel cloud dipped to earth occasionally, striking 4 localities. Lee County east of and adjoins Terrell County.
9. Apr. 2	7:30 a. m.	Crisp (C.)	NE	12	100-400	23	500	3,000,000	Origin 35 and 44 miles, respectively, NE. of Nos. 7 and 8. Possibly a continuation of No. 8; SE. part of Crisp County, adjoins NE. extremity of Lee County. Tornado noted first about 7 miles SW. of Cordele and cut through town and terminated at a point 5 miles beyond. 287 buildings were totally demolished, of which 276 were dwellings. See p. 27 for detailed discussion of No. 9.
10. Apr. 2	Early morning	Tattnall (S.)	ENE	1-2	300	0	0	(10)	Not severely destructive. Occurred 70 miles or more east of Nos. 7, 8, and 9.
11. Apr. 6	8:30 a. m.	Cobb (NW.)	NE	8	(9)	0	2	(10)	Origin about 1 mile N. of Acworth. 4 houses, a grist mill, and store demolished.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
GEORGIA—con.									
				Miles	*Yards*	*Number*	*Number*	*Dollars*	
12. Apr. 6	8:27 a. m.	Hall (C.)	ENE	2	(6)	0	0	(11)	Struck Brenau College campus, outside of Gainesville, and continued into New Holland.
13. 14. Apr. 6	Few minutes after No. 12 (near 8:37 a. m.).	Hall (C.)	ENE	7	300-400	203	[1] 934	13,000,000	[1] An additional 700 required first-aid treatment; Nos. 12, 13, and 14 occurred slightly more than 50 miles ENE. of No. 11. For extended remarks on Nos. 12, 13, and 14 see p. 28.
15. Apr. 6	About 10 a. m.	Franklin (NE.)	ENE	(4)	(4)	0	0	(12)	No details available, but occurred more than 40 miles ENE. of Nos. 12, 13, and 14.
16. July 3	About 9 p. m.	Bibb (ext. S.)	(4)	(4)	880	0	2	200 [c] 200	Funnel-shaped cloud observed. Damage chiefly to peach orchards.
IDAHO									
1. June 7	12:30 p. m.	Nez Perce (E.)	E	¾	200	2	0	3,750 [c] 250	House and barn demolished; removed all water from a small pond.
ILLINOIS									
1. June 29	3:40 p. m.	Whiteside (NW.)	(4)	(4)	(4)	0	0	(4)	Funnel-shaped cloud observed. In vicinity straight-line winds incurred $27,000 damage, principally to factory property—damage included in table 11, p. 42.
INDIANA									
1. Apr. 30	Between 3-4 p. m.	Whitley (E.)	E	(5)	(5)	0	0	(11)	Rural property damage.
IOWA									
1. Apr. 30	3 p. m.	Clay (NW.)	NE	20	175-300	1	(8)	90,000	Origin Clay County; probably manifested 1 hour earlier in severe windstorm 30 miles westward at Sheldon in O'Brien County. Destroyed completely buildings and machinery on 8 farms and incurred considerable damage on 10 more.
	(4)	Dickinson (SW. and C.).	NE			1	15	215,000	Tornado lifted east of Terrace Park—see note (1) under No. 3. Destroyed completely property on 12 farms and incurred damage on an equal number. In addition destroyed 21 cottages at Terrace Park. Path not continuous. Average lineal speed 24 miles per hour. Undoubtedly No. 1 during part of its path was attended by subsidiary tornadoes; 2 funnel-shaped clouds were observed N. of Milford and a waterspout over West Lake Okobojil, but details are lacking.
[2] 2. [3] 3. Apr. 30	4:17 p. m.	Emmet (N.)	NE	[2] 20	[2] 175-300	[2] 0	[2] 21	[2] 285,000	Short elapse of time discounts reappearance of No. 1. Passed over north part of Estherville, damaged 12 homes. Inception 15 miles ENE. from termination of No. 1. [2] Aggregate value for Nos. 2 and 3.
	(1)	Emmet (N.)	NE						[1] Appeared a short time after No. 2 and traversed south edge of Estherville. Tore up 800 feet of railroad track; possibly a redevelopment of No. 1.
									[3] Beyond Estherville Nos. 2 and 3 followed generally parallel paths across Center Township, and joined for short distance, then separated and once more united and passed into Minnesota as No. 1.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
IOWA—contd.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
4. Apr. 30	9 p. m.	Dallas (N.)	NE	10	500	0	0	3,000	Occurred more than 100 miles south of Nos. 1, 2, and 3.
5. June 29	3:30 p. m.	Keokuk (N.)	SE	10	(3)	0	0	11,000	Area of damage 1 mile wide. Path not continuous.
6. June 29	Between 4–5 p. m.	Johnson (S.) and Cedar (S.).	NE	40	880	0	0	30,000	Property damage.
7. Sept. 6	5 p. m.	O'Brien (C.)	E	5	(4)	0	0	14,000	Occurred in area of strong straight-line winds.
8. Sept. 6	6:30 p. m.	Humboldt (NE.)	NE	(5)	100	0	0	[6] 500 3,800	Occurred slightly more than 80 miles ESE. of No. 7.
9. Sept. 6	6:30 p. m.	Floyd (SW.)	E	(5)	(4)	0	0	10,000	Occurred about 60 miles ENE. of No. 8.
KANSAS									
1. May 7	5 p. m.	Finney (C.)	NE	30	100	0	0	1,500	Damage to buildings. Several funnel-shaped clouds observed near origin.
2. May 7	8 p. m.	Ness (C.)	NE	2	35	0	0	800	Damage to buildings. Passed through Ransom. Origin nearly 60 miles NE. of No. 1.
3. May 11	11:42 a. m.	Ford (C.)	SE			0	0	None	Small tornado. Funnel cloud did not reach ground; about 2 miles N. of Dodge City.
4. May 11	5 p. m.	Clark (NW.)	(4)			0	0	None	Small tornado. Funnel-shaped cloud did not contact ground. Occurred about 24 miles SSW. of No. 3.
5. May 22	2 p. m.	Ford (C.)	NE			0	0	None	Small tornado. Occurred 6 miles E. of Dodge City. Funnel-shaped cloud did not contact ground.
6. May 22	4 p. m.	Marshall (SE.)	(4)	¾	20	0	0	(11)	Occurred in northeastern part of the State, whereas No. 5 occurred in southwestern portion.
7. June 5	1 p. m.	Ford (NE.), Hodgeman (SE.), and Edwards (NW.).	ENE	25	100	0	0	2,000	Rural property damage. 1 large and 4 small tornado clouds observed.
8. June 5	2:30 p. m.	Stafford (SE.)	E	4	440	0	0	200	1 farm struck. Origin about 38 miles ENE. from termination of No. 7; possibly reappearance of same.
9. June 26	8 p. m.	Gove (NE.)	(4)	2	440	0	0	500	Numerous small buildings destroyed. Disturbance attended by hail, incurring $17,500 damage—included in table 10.
10. July 27	5–5:30 p. m.	Saline (N.)	E	About 16	(12)	0	0	15,000	[1] Path not well defined. Hail in vicinity of disturbance.
11. July 27	5–5:30 p. m.[1]	Ottawa (S.)	E	(14)	(14)	0	0	(14)	Small tornado. [1] Details lacking, but disturbance occurred about the same time and 8–10 miles N. of No. 10. Hail reported in vicinity.
12. July 27	5:15 p. m.	Washington (N.), and Marshall (NW.).	ENE	20	3,520	0	0	4,000	Path not well defined. Rural property damaged and destroyed. Origin about 60 miles NNE. of No. 11.
13. July 27	6 p. m.	Dickinson (N.)	(4)	4	(4)	0	0	75,000	Rural property destroyed. Path not well defined. Attended by violent straight-line winds and occurred in region of severe thunder squalls. Origin about 25 miles E. and 22 miles ENE., respectively from termination of Nos. 10 and 11.
14. Aug. 1	5 p. m.	Montgomery (SW.)	NE	2½	1,760	0	0	25,000	Rural property damaged and demolished.
15. Aug. 14	4 p. m.	Osage (NE.)	ENE	4	100	0	0	(11)	Several funnel-shaped clouds observed below black storm clouds. Damage to communication lines. Winds not tornadic; damage to buildings to extent of $2,800 in Osage County and adjoining Douglas County; included in table 11.
16. Aug. 14	6 p. m.	Johnson (N.)	E	2	880	0	0	5,000	Winds, not tornadic, incurred an equal amount of damage; included in table 11. Origin about 40 miles NE. of No. 15.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
KANSAS—contd.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
17. Aug. 20	4:30 p. m.	Jewell (E.)	NE.	8	1,320	0	0	10,000	Rural property losses.
18. Aug. 21	3 p. m.	Brown (SE.)	(1)			0	0	None	Tornado cloud did not contact the ground. Wind, not tornadic, incurred damage of $200; included in table 11.
LOUISIANA									
1. July 2	4 a. m.	Sabine	NE.	2	40	0	0	[2] 300 2,400	
2. July 2	6:40 a. m.	Richland (E.) and West Carroll (S.).	NE.	37	100	2	28	[2] 1,000 50,000	Path not continuous. Average lineal speed about 44 miles per hour. Origin more than 100 miles NE. from No. 1.
MICHIGAN									
1. June 27	About 4 p. m.	Gogebic (W.)	(4)	(5)	(6)	0	0	10,000	Completely destroyed 1 large barn and damaged another.
MINNESOTA									
[1] 1. Apr. 30	[1] 5 p. m. (1)	Martin (S.) Faribault (WC.)	ENE. ENE.	25	2,640	3	40	[2] 500,000 [3] 350,000	[1] Joint continuation of Iowa Nos. 2 and 3; funnel-shaped cloud observed. [2] Also covers damage by No. 2 in Martin County. See remarks for No. 2. [3] Last reported near Pleasant Prairie shortly after 6 p. m. About 300 buildings at Blue Earth, Faribault County, destroyed or badly damaged. [3] Also covers damage by No. 2 in Blue Earth County but loss in latter county believed small. See remarks for No. 2.
2. Apr. 30	(1)	Martin (E.) and Blue Earth (SW.).	ENE.	(4)	(4)	(2)	(2)	(2)	[1] Evidence indicates that this tornado existed north of and about the same time as No. 1. Path not continuous. [2] Individual loss incurred by Nos. 1 and 2 not obtained. See note (2) and remarks for No. 1.
3. Apr. 30	8 p. m.	Fillmore (C.)	NE.	½	110	0	0	25,000	Rural property losses.
4. July 12	Between 2-3 p. m.	Houston (SW.)	SE.	4	880	0	0	5,000	Rural property damaged; some damage to corn.
5. July 15	5:40 p. m.	Carver (SW.)	NE.	10	(7)	0	1	11,000	Mostly rural property destroyed; also many grain shocks scattered.
MISSISSIPPI									
1. Apr. 5	8:05 p.m.	Prentiss (N.)	NE.	25	400	4	12	20,000	Path not continuous; greatest devestation occurred at Bonneville.
2. Apr. 5	8:10 p.m.	Yalobusha (S. and E.)	NE.	18	400	4	7	10,000	Greatest amount of damage incurred in vicinity of Coffeeville. Occurred about 80 miles SW. of No. 1.
3. Apr. 5	8:55 p.m. (4)	Lee (S. and E.) Itawamba (W.)	NE.	30	400 (4)	216 0	700 0	3,000,000 (4)	Vital figures, principally damage, deaths, and injuries occurred when tornado struck Tupelo. Occurred about 30 miles S. of and 60 miles WSW. of Nos. 1 and 2, respectively. For extended discussion see p. 28.
[1] 4. Apr. 5	(1)	Itawamba (ext. E.)	NE.	(5)	(4)	0	0	(5)	[1] Continued into Alabama as No. 7. [2] Exact time of inception unknown, but probably only a few minutes previous to 9 p.m. when it struck Red Bay, Ala.
5. Dec. 6	7:15 a.m.	Washington (NW.)	NE.	(1)	(1)	0	4	50,000	Disturbance struck business section of Greenville. [1] 6 city blocks long, 2 city blocks wide.
MISSOURI									
1. Feb. 26	3 a.m.	Jasper (NE.)	NE.	(4)	(4)	0	0	2,000	Damage chiefly to tourist camp.
2. Feb. 26	(1)	Polk (S.) and Dallas (SW.).	NE.	16	100-300	0	0	13,000	Possibly reappearance of No. 1; occurred about 40 miles NE. of No. 1. [1] Time of occurrence shortly after No. 1. Polk County about 25 miles NE. of Jasper County.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
MISSOURI—con.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
3. Mar. 23	2:45 p.m.	Webster (N.), Laclede, and Camden (E.).	NE-NNE	60	50-300	4	25	150,000	Tornado cloud observed first near Marshfield; removed the forty-fourth car (a 20-ton empty "hopper type") from a 78-car freight train at rest. Exceptionally heavy hail fell in vicinity of and particularly west of origin.
4. Aug. 28	About 1:15 a.m.	Callaway (SE.)	NW	(4)	(4)	0	0	(10)	Funnel-shaped cloud observed. Rural property damaged.
5. Sept. 23	About 3 p.m.	Barton (NE.)	E	10	100	0	0	(10)	Funnel-shaped cloud observed. Considerable damage to rural property.
MONTANA									
1. May 5	5:30 p.m.	Fallon (C.)	NE	(1 4)	50-100	0	0	200	Funnel-shaped cloud observed. Rural property damaged. [1] Length of path probably short.
2. June 27	About 2 p.m.[1]	Hill (E.-C.)	NE	[2] 10	33	0	0	125	[1] Origin near Assiniboine. Rural property damaged. [2] Approximate distance in Hill County traveled.
	4 p.m.[1]	Blaine (NW.)	NNE-NE.	[2] 40	10	0	7	1,000	Tornado traversed mostly barren country. [1] Time of destruction at Cherry Ridge. Rural property damaged; in addition 14 sheep killed. Disturbance probably passed into Canada. [2] Approximate length of path in Blaine County. Average speed of progress roughly about 25 m. p. h.
3. July 2	8 p.m.	Cascade (NE.)	W	2	25	0	0	1,500	Occurred in vicinity of Great Falls. Property damage.
4. July 24	4:30 p.m.	Chouteau (SW.)	ENE	2	20	0	0	1,500	Granary demolished.
NEBRASKA									
1. June 29	7 p.m.	Nuckolls (N.)	SE	4	100	0	0	2,000	No details.
2. Aug. 20	6:15 p.m.	Douglas (N.) and Washington (S.).	NE	5	300	0	0	10,000	Path not continuous.
3. Sept. 1	7:35 p.m.	Otoe (E.)	SE	1	200	0	3	[c] 1,000 24,000	Occurred in vicinity of Dunbar.
MASSACHUSETTS									
1. June 3	(1)	Hampden (S.-C.)	(1)	(1)	(1)	0	0	(1)	[1] No concrete data available and disturbance in south-central Hampden county included as a doubtful tornado.
2. July 9	4:59 p. m.	Worcester (E.-C.)	NE	(2)	(2)	0	[1] 8	200,000	Occurred in thunderstorm area. [1] Possibly additional number injured.
3. Sept. 8	(4)	Essex (S.)	N	(4)	(4)	0	[1] 8	1,000	Damage to buildings and trees. [1] Possibly additional number injured.
CONNECTICUT									
1. Sept. 12	(4)	New Haven (NE.)	(4)	(4)	(4)	0	0	(10)	Doubtful tornado occurrence.
VERMONT									
1. Aug. 4	P. m.	Orange (E.-C.)	N	6	(2)	0	0	[c] (10) 2,000	Funnel-shaped cloud observed, accompanied by hail.
NEW JERSEY									
1. May 18	7:30 p. m.	Somerset (SW.)	(4)	(5)	(5)	0	0	(10)	Damage confined to 1 farm, barn demolished.
NEW MEXICO									
1. Mar. 30	12:30 p. m.	Socorro (C.)	N	(4)	60	0	0	200	Only 1 building on edge of path affected.
2. May 3	2 p. m.	San Miguel (NW.)	S	(4)	200	0	0	10,000	Passed near Sapello. 2 dwellings and 6 other buildings destroyed; accompanied by heavy hail over a large area.
3. May 31	2 p. m.	Socorro (C.)	N	(4)	60	1	0	500	Small tornado. Occurred in vicinity of Socorro.
NEW YORK									
1. May 19	4:40 p. m.	Albany (NE.) and Rensselaer (W.).	E	1	(1)	0	0	(10)	Funnel-shaped cloud observed. Occurred about 9 miles N. of Albany station, in vicinity of Cohoes. Unroofed 2 buildings, produced a "waterspout" effect when crossed Hudson River. [1] Width very narrow, 6-8 yards.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
NEW YORK—CON.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
2. June 13	(1)	Jefferson (C.)	(4)	(5)	(6)	0	0	(9)	Small tornado, duration about 1 minute. [1] Late afternoon.
3. July 25	(1)	Jefferson (W.)	(4)	(5)	(6)	0	2	[e] (11) (12)	Produced "waterspout" effect over Guffins Bay. Damage confined to rural districts. [1] Afternoon.
NORTH CAROLINA									
1. Apr. 2	5:57 a. m.	Cabarrus (C.)	(1)	(1)	(1)	(1)	(1)	[1] None	[1] Probable tornado aloft. Funnel-shaped cloud not observed, but "heavy" cloud moved from NW. to SE. over Concord, attended by a loud noise. Winds not tornadic, incurred scattered damage over an area 2 by 5 miles; estimated at $150,000 and injured 2 persons; included in table 11.
2. Apr. 2	[1] 7:12 p. m.	Guilford (E.-C.)	ENE.	[2] 7	350	13	144	2,000,000	[1] Time of appearance. Tornado cut path through Greensboro from western extremity to eastern outskirts. [2] Length of destructive path in county. Inception 65 miles NE. from vicinity of No. 1.
	[1] 8 p. m.	Alamance (C.)	ENE.	[2] 6	100	1	4	10,000	[1] Appeared ½ mile N. of Mebane. [2] Length of destructive path within county.
	[1] 8:15 p. m.	Orange (W.-C.)	ENE.	[2] 1	100	0	0	5,000	[1] Time of appearance 3 miles N. of Hillsboro. [2] Length of destructive path in county. Total length of path (not continuous about 38 miles. Average lineal speed about 36 m. p. h. See discussion p. 27.
3. Apr. 2	9:15 p. m.	Warren (SE.)	ENE.	(1 4)	(1 4)	0	0	(11)	Cooperative observer at Arcola reported a heavy cloud with loud roar passed north of station at 9:15 p. m. No. 3 sighted about 63 miles ENE. from termination of No. 2.
4. June 28	About 3 p. m.	Warren (C.)	(4)	(5)	(6)	0	0	50,000	2 large warehouses demolished and several dwellings damaged.
5. July 29	8:45 p. m.	Pasquotank (SE.)	ENE	5	50	0	0	[e] 2,000 6,000	Damaged a school and other smaller buildings.
NORTH DAKOTA									
1. May 21	About 5 a. m.	McLean (NE.) and McHenry (SW.)	(1 4)	(4)	(4)	0	0	5,000	Rural property damaged. [1] Probable direction of advance NE. Moderate hail fell in both counties near 5 a. m.
OKLAHOMA									
1. Feb. 26	1:15 a. m.	Tulsa (N.)	NE.	5	100	0	18	1,500	Struck the town of Torley. Demolished 3 homes; accompanied by heavy rain.
2. May 1	6:45 p. m.	Caddo (C.)	N.	2	440	3	11	[e] 500 35,000	Struck the town of Albert; destroyed 4 homes.
3. May 8	4:10 p. m.	Coal (SE.)	N.	¼	100	0	1	25,000	Rural property damaged. 1 large house built of native stone completely demolished.
4. May 8	4:10 p. m.	McIntosh	NNE.	[1] ⅓	[1] 150	1	4	40,000	Tornado struck the town of Hanna; moving over a path 1 block wide and 4 blocks long; 15 small homes destroyed, several others partially wrecked. Occurred about 54 miles NNE. from No. 3.
5. May 8	5 p. m.	Pittsburgh (SW.)	NNE.	½	440	0	2	7,000	Struck Ashland about 5 p. m.; 12 houses and a church badly damaged. Origin about 33 miles SSW. from No. 2 and 22 miles NNE. of No. 1, possible reappearance of the latter.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
OKLAHOMA—con.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
6. May 8	8 p. m.	Sequoyah (SW.)	N	[1] 6	100	1	12	15,000	Struck town of Grove about 8 p. m. Several homes destroyed. Length of path not certain. Occurred 48 miles NE. from No. 8; the latter the nearest of the foregoing tornadoes occurring on May 8.
7. May 8	8:15 p. m.	Muskogee (SE.)	NE	8	100	1	20	21,000	Struck near Webbers Fall; origin only a few miles SSW. of No. 6.
	(4)	Sequoyah (SW.)	NE		100	0	6	(10)	Sequoyah County adjacent and east of Muskogee County. Several houses on southern edge of Grove damaged.
8. June 5	5 p. m.	Washita (NE.)	NE	1	[1] 50	1	0	2,000	1 home destroyed. [1] Width not certain.
9. June 5	5:30 p. m.	Kiowa (S.)	N [1]	6	75	1	1	[c] 8,000 8,000	Several buildings demolished and more than 20 head of livestock killed. Attended by destructive hail. [1] Direction of advance not certain. Occurred about 50 miles SSW. from No. 8.
10. June 5	6 p. m.	Comanche (W.)	NE	5	1,760	0	0	[c] (10) 47,000	Many buildings destroyed; 100 people left homeless. Hail attended disturbance; occurred about 10 miles E. of No. 9.
11. 12. 13. June 5 [1]	9 p. m.	Jefferson (W.)	NE [2]	[3] 20	[3] 8,800	3	5	[c] 25,000 25,000	[1] A series of 3 tornadoes struck in vicinity of Hasting. [2] Direction uncertain. [3] Aggregate width and length affected. Series occurred about 40 miles SE. from No. 10.
14. June 5	10 p. m.	Jefferson (ext. NW.)	SE	20	([1] 7)	2	8	[c] (11) 100,000	Probable tornado; 45 homes destroyed, mostly in rural area NW. of Waurika. In latter city a school and hospital partly demolished. [1] Destructive path 2 to 3 miles wide. Origin about 5 miles N. of series, Nos. 11, 12, and 13.
15. June 6	12:45 a. m.	Pushmataha (SW.)	E	20	880	0	0	[c] 400 1,000	Small tornado; occurred in southeastern part of the State, far removed tornadoes of the 5th.
16. June 6	8:30 p. m.	Cotton	SE	[1] ½	[1] 100	0	0	500	Small tornado. [1] Value not certain. Occurred in southwestern part of the State.
17. June 6	8:30 p. m.	Tillman (SE.)	SE	[1] ½	880	0	0	[c] 15,000 8,000	Occurred about 15 miles NW. from No. 16. [1] Length not certain.
18. June 22	4 p. m.	Creek (SE.)	NE [1]	6	2,640	0	0	[c] 1,000 20,000	Direction of advance not definitely known. Attended by heavy hail.
19. June 22	6:45 p. m.	McClain (SE.)	SE	3	200	1	0	[c] 500 1,500	Small tornado; struck the town of Rosedale; occurred about 80 miles SW. of No. 18.
20. June 23	4:30 p. m.	Kiowa (S.)	NE	1	200	0	0	425	Small tornado; attended by heavy hail.
21. Sept. 27	4:30 p. m.	McCurtain (S.)	NE	1	880	0	6	[c] 500 1,500	Struck near Golden; rural property damaged.
PENNSYLVANIA									
1. July 27	4 p. m.	Washington (SW.)	(1)	(1)	(1)	0	0	(2)	2 funnel-shaped clouds observed aloft over Claysville. Wind, not tornadic, incurred damage of $510,000 in Washington County and adjoining Fayette County afternoon of this date—, damage included in table 11
SOUTH CAROLINA									
1. Apr. 2	8:30 a. m.	Colleton (W.)	E	1	80	1	0	1,000	Struck near the town of Lodge, rural property destroyed.
2. Apr. 6	10:05 a. m.	Anderson (C.)	NE	15	400–500	1	30	250,000	Destroyed about 50 homes in Anderson and vicinity.
SOUTH DAKOTA									
1. May 22 [1]	3–4 p. m.	Turner (E.)	E	[2] 10	(4)	0	0	3,000	[1] 4 distinct funnel-shaped clouds were observed. [2] Path not continuous; tornado funnels dipped to earth several times destroying rural property.
2. June 28	5:30–6 p. m.	Davison (NE.), Sanborn (SE.), and Miner (S. and C.).	NE	30	(6)	0	0	(14)	Path not continuous. Several homes, windmills, elevator, and some farm machinery wrecked.

See footnotes at end of table.

TABLE 9.—*Tornadoes of 1936, arranged by States*—Continued

State, number, and date	Time	County	Direction of advance	Length of path	Width of path	Killed	Injured	Property losses	Remarks
S. DAK.—con.				*Miles*	*Yards*	*Number*	*Number*	*Dollars*	
3. July 12	4:30 p. m.	Hyde (E.-C.)	NE	3	70	0	0	300	Rural property damaged.
4. Aug. 18	10:30-11 p. m.	Potter (S.)	E	(4)	110	0	0	20,000	Rural property losses.
TENNESSEE									
1. Apr. 5	7:45 p. m.	Hardin (SE.)	NE	(1)	300	1	4	2,000	Inception in SE. quarter of Hardin County.
	8:10 p. m.	Wayne (N.)	NE	(1)	400	5	27	100,000	Passed through northern half of Wayne County.
	8:30 p. m.	Lewis (W.)	NE	(1)	200	0	4	50,000	Terminated north of Hohenwald (west portion).
				[2] 35					Path of No. 1 not continuous but the time element, direction, and geographic arrangement of areas affected all point to 1 tornado and not several. [2] Total length of path about 35 miles; lineal speed about 47 m. p. h.
2. Apr. 5	8:30 p. m.	Maury (C.)	NNE	5	100-400	5	20	50,000	Inception about 30 miles east from termination of No. 1.
3. July 3	1 p. m.	McMinn (SW.)	NE	(5)	80	0	1	[6] 200 8,000	
4. July 3	2 p. m.	Bradley (NE.) and McMinn (SW.).	NE	[1] 3	60	0	5	[6] 200 6,500	[1] Approximate value.
TEXAS									
1. Mar. 24	2:30 a. m.	Gregg	NE	(1 4)	(1 4)	0	0	[6] 200,000 1,000,000	Probable tornado—occurred in conjunction with a widespread windstorm over NE. portion of State. Heavy property damage due to wrecking of oil well derricks.
2. Apr. 15	7:30 p. m.	Midland (N.)	SE	(4)	3,960	0	0	25,000	
3. Apr. 27	2 a. m.	Milam (SW.)	(4)	(4)	(4)	2	11	(13)	Demolished several frail houses in town of Tracy.
4. May 8	5 p. m.	Fannin (NE.)	NE	12	1,320	1	5	15,000	
5. May 8	(1 4)	Navarro (S.)	SW	(5)	(6)	0	0	(11)	Occurred in afternoon, not known whether preceded or followed No. 5. [1] Locality more than 100 miles SSW. of No. 4.
6. May 9	1 a. m.	Smith (C.)	NE	12	660	0	3	8,000	Struck in vicinity of Tyler.
7. May 9	8:30 a. m.	Lampasas (S.)	NE	3	440	0	0	(11)	Occurred close to 200 miles SW. from No. 6.
8. May 9	(1 4)	Morris (N.)	(4)	(5)	(6)	0	2	5,000	Details lacking. [1] Occurred in morning, time order relative to Nos. 6 and 7 not known. Origin about 60 miles NNE. of No. 7.
9. June 6	5:20 p. m.	Wichita (SE.)	SE	4	440	0	2	50,000	Damage incurred at Wichita and vicinity.
10. Aug. 23	4 p. m.	Hunt (C.)	SE	(4)	880	0	0	(13)	Destroyed 1 barn and damaged other structures at Greenville.
11. Dec. 6	3:50 a. m.	Harrison (C.)	SE	2¼	660	0	4	8,000	
12. Dec. 6	(1 4)	Fulls (C.)	(4)	(4)	(4)	0	0	2,000	Rural property damage. [1] Occurred in early morning, presumably after No. 11; location about 180 miles SW. of No. 11.
VIRGINIA									
1. Mar. 17	5:30 p. m.	Pittsylvania	N	30	400-900	0	0	45,000	Damage confined mostly to buildings.
WASHINGTON									
1. Sept. 3	5:50 p. m.	Walla Walla (SE.)	NE	(5)	(6)	0	0	None	Traveled over stubble field; funnel-shaped cloud observed.
WISCONSIN									
1. May 16	Midnight	Trempealeau (N.)	NE	6	275	0	0	30,000	Mostly rural property damage; 6 barns destroyed and 6 others damaged.
2. July 11	4:30 p. m.	Lincoln (N.)	E	1	1,320	0	0	5,000	Tornado character somewhat doubtful. Property damaged.
3. Aug. 22	12:20 a. m.	Washington (NE.)	NE	3	140	0	0	300	Rural property damaged.
LAKE REGION									
1. 2. July 30*	Afternoon	(1)	(1)	(1)	(1)	0	0	(11)	2 towering waterspouts observed over Lake Erie, migrated inland in the vicinity of Conneaut, Ontario.

*Not included in tables 6, 7, or 8. [1] See adjoining remarks. [2] See adjoining remarks. [3] See adjoining remarks. [4] Data unobtained. [5] Short. [6] Narrow. [7] Wide. [8] Several injured. [9] None reported. [10] Damage occurred; no estimate secured. [11] Slight damage. [12] Few hundred. [13] Several hundred. [14] Several thousand.

HAIL, 1936

Information about damaging hail has once more been collected, but special efforts were exerted to establish losses for the crop season, April to September 1936, inclusive, also to separate crop losses from realty property losses. The regular and cooperative stations have furnished practically all this information which was first assembled by the officials in charge at the various section centers. The aggregate loss for the year 1936 amounted to $11,700,038; of this amount more than 9 million dollars was damage to crops. The total estimated loss is probably too low for in many cases the damage was described as "severe," "considerable," or amounting to "many thousands of dollars." Hail occurred somewhere in the United States every month of the year and losses were incurred in all months, except November. It may be of interest to note here that heavy hail occurred at several points in Alaska; namely, Cordova, Homer, Allakaket, Tanana, and Aniak during May, June, August, and September. No losses to property or crops were reported. There are on record for the year 1936 several instances when hail inflicted considerable injury to livestock and one case of human injury in Alabama in the month of April.

Losses incurred by hailstorms in the United States prior to the crop season (March to September, inclusive) were negligible, except for one instance in Texas during the month of March. During the afternoon of March 24, a severe hailstorm accompanied by wind incurred damage amounting to $250,000 to buildings in Smith County. On the same afternoon in Gregg County, Texas, hail damaged crops to the extent of $5,000.

In the post-crop season, the occurrence of hailstorms were very few in number, though one extremely severe storm took place in Carter County, Okla., on the afternoon of October 6. The storm in question approached from the northwest and covered a path about 3 miles wide and 8 miles long. Many of the stones were unusually large measuring 3 to 4 inches in diameter. They were irregular in shape, some being about 5 inches long and 2 inches thick, possessing rather rough projecting points and sharp edges. They fell with such force and in such quantity as to prove very destructive to property. The roofs of practically all buildings in the main path of the storm were damaged or destroyed. The loss to crops was only slight, but the total damage to other property was estimated at $300,000.

LOSSES DURING THE CROP SEASON

During the crop season (6 months, April–September) the frequency of damaging hailstorms was quite high and damage was correspondingly greater, due in part to the condition of vegetation and in part to the fact that in the summer months the distribution of atmospheric elements is conducive for the generation of severe thunderstorms essentially necessary to the formation of destructive hail. However, due to the prevalence of severe drought conditions in the Midwestern States, damage to crops was considerably minimized, especially so, in the northern Plains States; also when there is little rainfall, there is little hail as a rule. The estimated property and crop losses for the season (April–September) amounted to $10,449,268. July with damage estimated at $3,603,766 was the month with the greatest loss, June was second with $3,541,112 and August with $2,067,209 was third. Figures for the other 3 months are: May, $960,783; September, $162,098; and April, $114,300.

Damaging hail was recorded in all States, except California, Nevada, and Delaware and in Rhode Island in the New England district. Other States in the latter district experienced moderate to heavy hail at some time during the summer months, the extent of damage, if any occurred, was not ascertained owing to the lack of sufficient data. No hail of damaging consequence was reported in Puerto Rico, Hawaii, or the Virgin Islands and only slight damage was noted in the District of Columbia.

From the standpoint of State comparison, Iowa suffered the greatest loss during the season amounting to $2,997,540, of this amount $2,898,290 was crop damage being about three times as great as the corresponding 1935 figure. The largest county damage in Iowa was $351,291 in Clay County located in the extreme northwest portion and the greatest township damage was $164,595 in Garfield township, Clay County. Ten counties in Iowa reported no damage and the actual area visited by damaging hail was about 25 percent of the total area of the State. The second greatest State loss $1,299,000 occurred in North Carolina and Oklahoma ranked third (first in 1935) with damage amounting to $1,349,750. The State of Montana which ranked third in 1935 with losses amounting to $1,041,000 experienced during the 1936 season the lowest hail loss of record totalling a little more than $52,750. The most severe singular hailstorm in the crop season (also for the year) occurred on July 23 in Hendricks and Morgan Counties, Ind. The total estimated damage was set at $350,000 which represents principally crop losses. The area effected approximated 40 square miles. This falls far short of the most severe storm for the year 1935 when on April 17 Kay County, Okla., sustained a loss amounting to $1,255,000.

Table 10 shows separate losses for property and crops by sections during the months of 1936 also similar aggregate totals for the 6 months, April to September inclusive, and for the total 6-months period preceding and following the crop season.

TABLE 10.—*Losses from hailstorms during 1936*

State or section	January		February		March		April		May		June		July	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
Alabama	$300		(1)		$1,000	$500	$3,000			$6,000	$24,000	$34,500		
Arizona													$1,300	$4,300
Arkansas					[2] 500	(1)	(1)	(1)		50,000		56,000	(1)	30,000
Colorado							1,000	[2] $500			(4)	[5] 500		(4)
District of Columbia									$200					
Florida							50,000	(1)			625	5,000		300
Georgia											(3)	(4)		100
Idaho							75	25			5,300	50,300		25,000
Illinois									30,700	400	100		8,600	21,800
Indiana					(1)		(6)		(3)	131,000	(7)	(7)	(1)	375,000
Iowa					155		[1] 5,000		[2] 30,400	[10] 28,983	[2] 300	[10] 57,966	[2] 13,700	[10] 1,246,265
Kansas							5,000	(1)	1,000	35,000	150,000	217,500	[2] 250	[2] 5,500
Kentucky							21,000	5,000				1,000		1,000
Louisiana						200	1,500	[3] 1,000						
Maryland									(1)	50,000		4,500	10,000	125,000
Michigan									10,000	200		9,000	1,000	21,200
Minnesota					(1)		(3)			(3)	(7)	[5] 100,000	(3)	[8] 100,000
Mississippi					(1)		(1)		(1)			(1)		
Missouri					(1)	(7)	(3)	(3)		112,500	[5] 12,500	(4)	(3)	(3)
Montana											(1)	(1)	[2] 1,500	[8] 51,000
Nebraska							20,000	1,000	250,000	1,000	68,000	293,000	1,000	3,000
New England [9]														
New Jersey													(7)	(7)
New Mexico									(7)	102,000	(3)	11,000	(1)	(1)
New York									(1)	20,000	(3)	[8] 150,000	(3)	2,000
North Carolina											10,000	202,500	54,000	1,032,500
North Dakota												2,021		20,751
Ohio													(7)	
Oklahoma			$15						3,200	[8] 5,000	199,000	1,022,250	300	120,000
Oregon		$100						200		400				100
Pennsylvania											101,000	120,000	70,000	40,000
South Carolina												5,000	2,000	120,000
South Dakota														
Tennessee											(3)	(3)	(3)	50,000
Texas					250,000	5,000			25,000			570,000		
Utah														
Virginia										300	2,500	58,500		13,500
Washington												(1)		(1)
West Virginia														500
Wisconsin							(1)	(1)	55,400	10,000	(1)	(1)	3,500	27,800
Wyoming									600	1,500		3,250		
Total	300	100	15		251,655	5,700	106,575	7,725	406,500	554,283	573,325	2,967,787	167,150	3,436,616

State or section	August		September		October		November		December		Crop season Apr.–Sept., inclusive		Period: Jan.–Mar. and Oct.–Dec., inclusive	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
Alabama											$27,000	$40,500	$1,300	$500
Arizona	$100		$150	$50							1,550	4,350		
Arkansas												130,000	500	
Colorado	400	$75,200									1,400	76,200		
District of Columbia											200			
Florida											50,625	5,300		
Georgia												100		
Idaho		40,000									5,375	115,325		
Illinois	[2] 20,600	20,000									60,000	42,200		
Indiana					(1)							506,000		
Iowa	[2] 47,450	[10] 1,449,145	[2] 2,400	[10] 115,931					(1)		99,250	2,898,290	155	
Kansas											156,250	258,000		
Kentucky	2,000			5,000							23,000	12,000		
Louisiana											1,500	1,000		200
Maryland	2,000	25,000									12,000	204,500		
Michigan		8,900		6,700							11,000	46,000		
Minnesota	[5] 10,000	[5] 110,000	10,000	10,000							20,000	320,000		
Mississippi			(1)											
Missouri				(3)							12,500	112,500		
Montana	250	(1)									1,750	51,000		
Nebraska		8,000	(9)	[8] 500							339,000	306,500		
New England [9]														
New Jersey														
New Mexico			(3)	10,000								123,000		
New York												172,000		
North Carolina	(1)	(1)									64,000	1,235,000		

See footnotes at end of table.

TABLE 10.—*Losses from hailstorms during 1936*—Continued

State or section	August		September		October		November		December		Crop season Apr.-Sept., inclusive		Period: Jan. Mar. and Oct.-Dec. inclusive	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
North Dakota		$1,064		$367								$24,203		
Ohio														
Oklahoma					$300,000	(1)					$202,500	1,147,250	$300,015	
Oregon												700		$100
Pennsylvania											171,000	160,000		
South Carolina											2,000	125,000		
South Dakota	$5,000										5,000			
Tennessee												50,000		
Texas				1,000					(7)		25,000	571,000	250,000	5,000
Utah		4,000										4,000		
Virginia	10,000	165,000									12,500	237,300		
Washington														
West Virginia		100										600		
Wisconsin	38,000	[8] 25,000									96,900	62,800		
Wyoming											600	4,750		
Total	135,800	1,931,409	$12,550	149,548	300,000						1,401,900	9,047,368	551,970	5,800

[1] Minor losses reported.
[2] Losses incurred in additon to amount stated; no estimate secured.
[3] Some losses incurred; no estimate obtained.
[4] Losses incurred amounted to several thousand dollars; no exact estimate obtained.
[5] Losses occurred amounting to several thousand dollars, in addition to the amount stated, but an exact estimate not available.
[6] Damages reported as amounting to several hundred dollars.
[7] Damages reported as considerable, but monetary value of losses not obtained.
[8] Losses incurred, in addition to amount stated, reported as considerable, but no estimate secured.
[9] Hail occurred ranging from moderate to heavy in all New England States, except Rhode Island, in the months of April-September, inclusive; however, not sufficient information available to determine damage, if any occurred.
[10] Iowa's total hail-crop-losses (State assessor's statistics) for the 1936 crop season amounted to $2,898,290. This sum was apportioned as follows: April, none; May, 1 percent; June, 2; July, 43; August, 50; and September 4 percent, based on intensity and frequency figures furnished by Iowa Weather Bureau section director.

LOSSES FROM WINDSTORMS, 1936

For the twenty-first consecutive year statistics have been collected, chiefly through field service officials of the Bureau, of the losses of property and life resulting from all classes of severe winds, except those that were considered to have been tornadoes. Special efforts were put forth to break down windstorm damage into two classes, first, damage to property and second, damage to crops. Table 11 shows the results by months, seasons, and sections.

TABLE 11.—*Losses from windstorms, other than tornadoes, by months, seasons, and sections, 1936*

[In dollars]

State or section	January		February		March		April		May		June		July	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
Alabama	[1] 9,975				2,500		9,500				103,500		300,000	3,000,000
Alaska														
Arizona					(2)	(3)					200		18,200	8,800
Arkansas					5,600				5,000		[1] 1,000		11,900	5,000
California			535,000		10,000	10,000					(4)			
Colorado	[1] 770		5,080	(4)	1,200	(4)		(4)	(2)		(6)	(6)	[1] 500	(4)
District of Columbia									100					
Florida			(7)		50,000		5,000		(2)		(7)	(7)	136,500	14,000
Georgia	(4)				(4)						30,000	30,000	[1] 80,000	(4)
Hawaii		(1)		(1)										
Idaho											1,750	250	500	
Illinois					8,900		8,950		39,700		2,600		55,700	62,300
Indiana					(7)				25,000		5,500		85,000	(2)
Iowa					15,850		11,750		12,150		[1] 81,035	[1] 41,050	[1] 315,300	[1] 80,100
Kansas							500		2,200		[1] 34,350	22,000	[1] 1,450	[1] 500
Kentucky							31,000				12,300		20,600	1,000
Louisiana							[1] 1,820	(4)			(4)		750	100
Maryland-Delaware											5,000		35,000	
Michigan									(2)		80,000		25,000	
Minnesota					(7)		[9] 10,000				[1] 40,000	(4)	76,500	(4)
Mississippi					(4)								35,200	5,000
Missouri						(4)	(7)		27,500		(7)	(4)	(4)	(4)
Montana									500				[9] 5,200	
Nebraska									250,000		5,000		3,000	
New England														
New Jersey							(4)						20,000	

See footnotes at end of table.

TABLE 11.—*Losses from windstorms, other than tornadoes, by months, seasons, and sections, 1936*—Continued

[In dollars]

State or section	January		February		March		April		May		June		July	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage
New Mexico					(7)		(7)							
New York			25,750		(4)						(1)		(4)	(10)
North Carolina	2,000				100,000		150,000				2,000	1,000	9,000	2,000
North Dakota									21,000				35,000	
Ohio			2,500		(10)				(4)		[6] 27,500		[9] 35,000	
Oklahoma									50		410,500	52,000	17,500	[9] 1,000
Oregon	(4)								(5)			3,100		
Pennsylvania											19,000	60,000	550,000	10,000
South Carolina	200,000				404,500		9,250		1,500				2,100	
South Dakota			(1)		(1)		(4)		6,800	4,200	5,200		[9] 2,650	(4)
Tennessee					75,500		47,500				62,000		32,500	
Texas					30,000	(5)	[8] 38,000		300		624,000	(3)	1,033,800	2,000
Utah														
Virginia	14,000						750				10,000	1,000	18,600	7,000
Washington	250,000	(5)												
Wisconsin	8,000				1,700		18,000		20,000		25,000	1,000	25,000	5,000
Wyoming											2,500			
Total	484,745		568,330		705,750	10,000	342,020		411,800	4,200	1,589,935	211,400	2,987,450	3,203,800

State or section	August		September		October		November		December		Crop season, Apr.-Sept., inclusive		Annual		Number of—	
	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Property damage	Crop damage	Deaths	Injuries
Alabama	[1] 1,200								1,500		414,200	3,000,000	428,175	3,000,000	2	9
Alaska			(6)				28,800						28,800		[11] 3	
Arizona	10,400	3,000	750	50							35,550	11,850	35,550	11,850		2
Arkansas			200								18,100	5,000	23,700	5,000		
California							(4)		(4)	(4)			545,000	10,000		1
Colorado	(5)		[1] 175								675		7,725		2	
Dist. of Col											100		100			
Florida											141,500	14,000	191,500	14,000	[11] 4	35
Georgia		(5)									110,000	30,000	110,000	30,000	6	[13] 15
Hawaii																
Idaho	1,500	500									3,750	750	3,750	750		
Illinois	21,800		(7)						10,100		128,750	62,300	147,750	62,300		4
Indiana	[1] 600,000				(4)						715,500		715,500		1	4
Iowa	[1] 305,850	[1] 237,960	[1] 210,600	[1] 500					[8] 1,000		936,685	359,610	953,535	359,610	1	9
Kansas	[8] 10,000		4,500						10,000		53,000	22,500	63,000	22,500		3
Kentucky	2,700	1,000									66,600	2,000	66,600	2,000	[11] 5	1
Louisiana											2,570	100	2,570	100		2
Md.-Del	31,500		500,000	83,000							571,500	83,000	571,500	83,000	[11] 8	1
Michigan	(10)				1,000						105,000		106,000		[11] 3	2
Minnesota	[1] 200,000	(5)	[1] 90,000	(5)	(5)		(5)				416,500		416,500			10
Mississippi	8,500		3,000								46,700	5,000	46,700	5,000		
Missouri	[1] 2,000		10,500		(7)		75,300		[1] 500		40,000		115,800		2	11
Montana	200								(7)		5,900		5,900			
Nebraska	3,000		9,000								270,000		270,000			15
New England	355,000		500,000		(1)						855,000		855,000			20
New Jersey	(4)										20,000		20,000		2	(12)
New Mexico																
New York	[9] 130,000	(5)	(1)		(4)	(3)	(4)				130,000		155,750		[11] 4	37
North Carolina			60,000	30,000							221,000	33,000	323,000	33,000	1	2
North Dakota											56,000		56,000			
Ohio	[6] 3,000				200,000						65,500		268,000		25	(12)
Oklahoma	2,500		75,000	(7)					10,000	375,000	505,550	53,000	515,550	428,000	7	[13] 17
Oregon	1,000	500									1,000	3,600	1,000	3,600		
Pennsylvania	30,000										599,000	70,000	599,000	70,000	3	15
South Carolina	1,000				150						13,850		618,500			
South Dakota	(4)		(6)		(1)				(4)		14,650	4,200	14,650	4,200		
Tennessee					13,500						142,000		231,000		2	12
Texas	20,300								50,000		1,816,400	2,000	1,896,400	2,000	2	[13] 25
Utah					500,000								500,000			
Virginia		40,000	850,000	775,000							879,350	823,000	893,350	823,000		7
Washington													250,000		[11] 34	
Wisconsin	117,300								10,000		205,300	6,000	225,000	6,000	[11] 4	7
Wyoming											2,500		2,500			
Total	1,964,750	282,960	2,313,725	888,550	714,650		104,100		93,100	375,000	9,600,680	4,590,910	12,280,355	4,975,910	121	266

[1] Additional losses occurred; no estimate secured.
[2] Losses occurred; no estimate obtained.
[3] Heavy crop losses reported; no monetary estimated obtained.
[4] Considerable damage occurred; no estimate obtained.
[5] Some damage reported; no estimate received.
[6] Losses incurred of several thousand dollars.
[7] Minor damage reported.
[8] Additional damage of several thousand incurred; no accurate estimate received.
[9] Considerable losses incurred above stated amount, no estimate obtained.
[10] Damage incurred amounted to several thousand dollars; no definite monetary estimate secured.
[11] Death by drowning.
[12] Several injuries reported; number not definitely known.
[13] Several injuries occurred in addition to number stated.

Deaths and fire losses caused by lightning, also havoc and loss of life caused by floods of streams are omitted from table 11, even though high winds are a feature of the electrical storm that caused the downpour. When hail or beating rain, or both, accompanied these strong winds, or in the colder months sleet, glaze, or heavy snow aided in causing damage, an effort is made to estimate what share of the total loss was due to winds.

The number of deaths attributed to windstorms other than tornadoes in 1936 was 121, as compared with 461 in 1935. The number injured was somewhat in excess of 266, less than one-half the corresponding 1935 figure. The total losses, property and crops, caused by these storms in 1936 was $17,256,265, which is only a few thousand dollars less than the figure for the preceding year. Four States, namely, Alabama, Iowa, Texas, and Virginia reported losses in excess of a million dollars for the year, and 21 other States reported losses amounting to $100,000 or more. Table 12 shows the deaths and property losses (crops included) caused by windstorms other than tornadoes since 1916.

TABLE 12.—*Deaths and property losses caused by windstorms, other than tornadoes, 1916–36*

Year	Number of lives lost	Property and crop damage	Year	Number of lives lost	Property and crop damage
1916	65	$11,712,125	1929	46	20,334,600
1917	25	1,400,550	1930	49	5,706,000
1918	79	7,602,200	1931	17	7,773,000
1919	344	28,170,760	1932	306	42,657,360
1920	42	4,735,400	1933	156	65,604,100
1921	65	13,174,650	1934	109	19,497,173
1922	133	5,055,800	1935	461	17,191,000
1923	68	5,261,800	1936	121	17,256,265
1924	78	13,545,750			
1925	88	11,612,380	Total	4,620	487,520,323
1926	357	93,610,250			
1927	64	6,783,160	Average	220	23,215,253
1928	1,947	88,836,000			

SUNSHINE, 1936

Table 13 gives for 164 stations the monthly amounts of sunshine and percentage of the possible, as derived from the automatic records made by an instrument designated the "thermometric recorder," illustrated in preceding volumes of this series.

This instrument does not record satisfactorily the duration of sunshine for about 1 hour after sunrise and for about 1 hour before sunset, and on this account it has been considered necessary to apply to the record for these hours what has been designated a "twilight correction." The amount of this correction is found by noting the comparative clearness of the sky during the time that elapses between the hour of sunrise and the moment the instrument begins to record and between the time the instrument ceases to act and the hour of sunset.

The average cloudiness of the whole sky is determined by numerous personal observations at all stations during the daytime, and is given in the column "Daylight" under "Cloudiness" in the tables of Climatology, pages 63 to 155.

44373—38——4

TABLE 13.—*Monthly amounts and percentage of sunshine, 1936*

Stations	January		February		March		April		May		June	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Albany, N. Y.	132	45	188	61	182	49	187	46	311	68	302	66
Albuquerque, N. Mex.	227	72	202	64	299	80	307	78	299	69	358	82
Alpena, Mich.	83	29	170	56	185	50	172	42	298	65	327	70
Amarillo, Tex.	188	60	206	65	290	78	275	70	249	57	379	87
Asheville, N. C.	174	56	182	58	182	49	246	63	357	82	331	76
Atlanta, Ga.	172	54	135	42	225	61	211	54	358	83	343	80
Atlantic City, N. J.	144	47	142	45	184	50	200	50	351	79	227	51
Augusta, Ga.	188	59	174	54	270	73	261	67	367	85	351	82
Austin, Tex.	207	64	138	43	243	65	266	69	207	49	311	74
Baker, Oreg.	92	32	95	31	239	65	277	68	344	75	325	70
Baltimore, Md.	171	56	169	54	187	50	219	55	369	83	279	63
Binghamton, N. Y.	65	22	102	33	127	34	120	30	242	54	219	48
Birmingham, Ala.	184	58	177	55	260	70	236	60	346	80	360	84
Bismarck, N. Dak.	111	40	192	64	195	53	231	57	338	72	319	67
Block Island, R. I.	129	43	166	54	200	54	215	54	323	72	227	50
Boise, Idaho	88	30	105	34	246	66	322	80	361	79	348	75
Boston, Mass.	175	59	167	54	204	55	192	48	320	71	289	64
Brownsville, Tex.	146	44	108	33	185	50	232	60	239	57	342	83
Buffalo, N. Y.	82	29	139	45	157	42	134	33	327	72	357	78
Burlington, Vt.	110	38	152	50	172	46	146	36	281	61	318	69
Canton, N. Y.	100	35	173	57	164	44	132	32	258	56	280	60
Cape Henry, Va.	144	47	132	42	175	47	244	62	360	82	290	66
Charles City, Iowa	146	50	156	51	178	48	227	56	290	64	309	67
Charleston, S. C.	190	60	184	58	252	68	290	74	357	83	342	80
Charlotte, N. C.	170	54	189	59	230	62	253	64	401	92	319	74
Chattanooga, Tenn.	134	43	155	49	227	61	253	64	386	89	368	85
Cheyenne, Wyo.	232	78	244	79	241	65	305	76	359	80	348	77
Chicago University, Ill.	144	49	168	55	232	63	223	56	334	74	333	73
Cincinnati, Ohio	123	41	160	51	219	59	203	51	373	84	371	83
Cleveland, Ohio	69	23	132	43	171	46	149	37	346	77	311	68
Columbia, Mo.	143	47	179	57	241	65	248	62	328	74	347	78
Columbus, Ohio	89	29	166	53	174	47	172	43	323	73	345	77
Concordia, Kans.	188	62	203	65	295	79	310	78	339	76	405	90
Dallas, Tex.	200	63	185	58	290	78	299	77	281	65	377	88
Davenport, Iowa	131	44	143	46	216	58	245	61	322	71	329	72
Del Rio, Tex.	239	73	178	55	216	58	287	74	260	62	290	69
Denver, Colo.	170	56	193	62	254	69	265	66	257	58	282	63
Des Moines, Iowa	132	45	161	52	262	71	287	72	318	70	360	79
Detroit, Mich.	53	18	142	46	204	55	179	45	325	72	325	71
Devils Lake, N. Dak.	164	60	191	64	186	50	291	71	379	80	306	64
Dodge City, Kans.	210	69	223	71	318	86	308	78	291	66	396	89
Dubuque, Iowa	122	41	122	40	196	53	251	63	333	74	351	77
Duluth, Minn.	165	59	225	75	167	45	245	60	286	61	328	69
Eastport, Maine	122	43	188	62	157	42	160	36	237	52	263	56
Elkins, W. Va.	91	30	139	44	146	39	177	45	316	71	294	66
El Paso, Tex.	242	76	254	79	280	75	330	85	339	79	388	91
Erie, Pa.	55	19	143	47	162	44	160	40	313	69	296	65
Escanaba, Mich.	87	31	168	56	175	47	185	45	282	61	289	61
Eureka, Calif.	87	29	123	40	232	63	172	43	278	62	240	53
Evansville, Ind.	156	51	179	57	264	71	256	65	405	92	399	90
Fairbanks, Alaska	77	47	150	61	157	43	352	77	323	55	354	55
Fort Smith, Ark.	168	54	198	62	267	72	281	72	352	81	399	92
Fort Wayne, Ind.	102	34	148	48	241	65	184	46	347	77	354	78
Fort Worth, Tex.	213	67	190	59	298	94	285	73	212	49	365	85
Fresno, Calif.	169	55	169	54	308	83	336	85	411	94	388	88

TABLE 13.—*Monthly amounts and percentage of sunshine, 1936*—Continued

Stations	July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Albany, N. Y	373	80	290	67	220	59	173	51	94	32	103	37	2,556	55
Albuquerque, N. Mex	325	74	305	73	244	66	301	86	285	92	241	79	3,394	76
Alpena, Mich	408	86	235	54	176	47	150	44	77	27	70	25	2,350	50
Amarillo, Tex	379	86	370	89	270	73	244	70	258	83	200	66	3,308	74
Asheville, N. C	267	60	268	64	209	56	153	44	159	52	109	36	2,639	58
Atlanta, Ga	271	62	283	68	214	58	196	56	185	59	110	36	2,702	59
Atlantic City, N. J	253	56	272	64	225	60	211	61	181	60	113	39	2,503	55
Augusta, Ga	306	70	320	77	273	73	243	69	204	65	123	39	3,079	68
Austin, Tex	288	67	314	77	218	59	209	59	159	50	168	53	2,727	61
Baker, Oreg	413	87	380	87	324	86	292	86	209	73	75	28	3,066	66
Baltimore, Md	309	68	284	67	223	60	226	65	176	58	149	51	2,761	61
Binghamton, N. Y	278	60	253	59	202	54	148	43	76	26	74	26	1,908	41
Birmingham, Ala	269	61	298	72	247	66	226	64	170	55	145	47	2,918	64
Bismarck, N. Dak	390	81	245	56	244	65	221	66	144	51	125	47	2,754	60
Block Island, R. I	306	67	268	63	192	51	192	56	133	45	115	40	2,466	54
Boise, Idaho	390	83	368	85	324	86	288	84	241	83	94	34	3,175	68
Boston, Mass	369	80	254	59	212	57	198	58	148	50	115	40	2,644	58
Brownsville, Tex	271	64	259	64	216	59	206	58	107	33	175	54	2,486	55
Buffalo, N. Y	400	86	288	67	236	63	172	50	103	35	126	45	2,524	54
Burlington, Vt	310	66	256	59	230	61	164	48	62	21	86	31	2,285	49
Canton, N. Y	310	66	226	52	215	57	167	49	91	32	105	38	2,221	48
Cape Henry, Va	223	50	296	70	243	65	224	64	188	61	112	37	2,629	58
Charles City, Iowa	394	85	304	71	240	64	194	57	171	59	111	40	2,722	59
Charleston, S. C	348	80	290	70	277	75	214	61	198	63	136	44	3,078	68
Charlotte, N. C	299	68	305	73	256	69	208	59	209	67	100	33	2,937	64
Chattanooga, Tenn	298	68	279	67	226	61	190	54	161	52	107	35	2,786	61
Cheyenne, Wyo	349	76	299	70	298	80	188	54	236	79	187	65	3,286	73
Chicago University, Ill	396	86	315	74	236	63	199	58	178	60	153	54	2,913	64
Cincinnati, Ohio	348	77	316	75	267	71	173	50	174	58	145	49	2,872	62
Cleveland, Ohio	393	85	279	65	234	62	175	51	96	32	124	44	2,479	53
Columbia, Mo	385	85	295	70	196	52	194	56	217	72	142	48	2,915	64
Columbus, Ohio	333	73	276	65	248	66	165	48	130	44	130	45	2,552	55
Concordia, Kans	434	95	367	86	256	69	249	72	249	83	189	65	3,484	77
Dallas, Tex	355	81	375	91	232	62	204	58	181	58	163	52	3,142	69
Davenport, Iowa	397	86	346	81	213	57	192	56	165	56	139	49	2,836	61
Del Rio, Tex	284	67	323	79	147	40	225	63	108	34	172	54	2,729	61
Denver, Colo	330	72	293	69	293	78	222	64	230	77	198	68	2,988	67
Des Moines, Iowa	435	94	319	74	231	62	212	62	193	65	135	48	3,045	66
Detroit, Mich	389	84	282	66	223	60	160	47	125	42	118	41	2,525	54
Devils Lake, N. Dak	422	87	328	74	261	69	218	65	151	54	150	57	3,048	66
Dodge City, Kans	402	89	362	86	222	59	252	73	270	89	192	65	3,445	77
Dubuque, Iowa	418	91	365	85	243	65	187	54	158	54	117	41	2,863	62
Duluth, Minn	409	85	233	53	216	57	141	41	131	47	81	30	2,626	57
Eastport, Maine	270	57	241	55	168	45	156	46	74	26	91	33	2,127	46
Elkins, W. Va	274	61	266	63	224	60	180	52	139	46	142	48	2,389	52
El Paso, Tex	335	77	313	76	264	71	264	75	212	67	239	76	3,461	77
Erie, Pa	389	84	277	65	205	55	140	41	65	22	86	30	2,292	48
Escanaba, Mich	393	83	214	49	218	58	132	39	106	37	82	31	2,332	50
Eureka, Calif	274	60	217	51	256	68	188	55	126	43	106	37	2,300	50
Evansville, Ind	374	83	372	88	268	72	213	61	211	69	144	49	3,241	71
Fairbanks, Alaska	289	46	226	44	155	40	87	29	48	25	38	31	2,258	46
Fort Smith, Ark	375	85	392	94	228	61	214	61	204	66	133	44	3,211	70
Fort Wayne, Ind	397	87	318	74	246	66	181	53	145	49	131	46	2,794	60
Fort Worth, Tex	324	74	341	82	213	57	191	54	187	60	175	56	2,992	67
Fresno, Calif	418	94	399	95	367	99	293	84	275	90	132	44	3,666	80

TABLE 13.—*Monthly amounts and percentage of sunshine, 1936*—Continued

Stations	January		February		March		April		May		June	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Galveston, Tex	154	47	118	36	189	51	254	66	240	57	355	85
Grand Junction, Colo	172	57	161	51	256	69	259	65	331	75	310	69
Grand Rapids, Mich	57	19	115	38	184	50	178	44	362	80	346	75
Green Bay, Wis	122	43	157	52	151	41	142	35	270	59	283	61
Greensboro, N. C	176	57	188	60	196	53	244	62	391	90	308	70
Harrisburg, Pa	136	45	146	47	147	40	196	49	360	81	279	62
Hartford, Conn	150	51	160	52	168	45	192	48	335	74	255	56
Havre, Mont	171	63	212	72	240	65	258	63	378	80	367	76
Helena, Mont	107	38	176	59	241	65	282	69	352	75	323	68
Honolulu, Hawaii	230	67	212	64	193	52	225	59	207	51	248	62
Houston, Tex	165	51	116	36	189	51	220	57	176	41	283	67
Huron, S. Dak	123	42	176	58	246	67	275	68	347	76	359	78
Indianapolis, Ind	125	41	136	44	237	64	221	56	362	81	365	81
Ithaca, N. Y	93	31	153	50	158	43	131	33	316	70	298	65
Jacksonville, Fla	178	55	176	54	233	63	298	77	294	70	316	75
Juneau, Alaska	56	25	192	71	134	37	207	48	198	38	329	60
Kalispell, Mont	65	23	121	41	218	59	253	62	325	69	293	61
Kansas City, Mo	174	57	218	70	307	83	312	79	317	71	392	88
Keokuk, Iowa	185	62	229	74	274	74	273	68	331	74	352	78
Key West, Fla	256	76	203	62	279	75	316	83	261	63	245	60
Knoxville, Tenn	152	49	185	59	219	59	272	69	383	88	389	89
La Crosse, Wis	146	50	194	64	205	55	233	58	338	74	337	73
Lander, Wyo	156	53	177	58	216	58	231	57	361	79	336	73
Lansing, Mich	43	15	120	39	153	41	134	33	320	70	267	58
Lincoln, Nebr	152	51	190	61	285	77	276	69	321	72	375	83
Little Rock, Ark	186	59	170	54	262	71	271	69	337	78	388	89
Los Angeles, Calif	216	68	166	52	243	65	244	62	326	76	355	82
Louisville, Ky	130	43	139	44	235	63	203	51	369	84	369	83
Macon, Ga	158	50	152	48	266	72	269	69	376	87	331	77
Madison, Wis	153	52	167	54	189	51	194	48	302	66	281	61
Marquette, Mich	30	11	154	51	167	45	140	34	229	49	236	50
Memphis, Tenn	171	55	157	50	275	74	264	67	366	84	394	91
Meridian, Miss	197	61	181	56	258	69	248	64	310	72	388	91
Miami, Fla	228	68	166	51	246	66	291	76	260	62	210	51
Miles City, Mont	105	37	159	53	213	58	221	54	369	80	381	81
Milwaukee, Wis	143	49	188	61	217	59	206	51	300	66	308	67
Minneapolis—St. Paul, Minn	144	50	186	61	164	44	248	61	337	73	348	75
Missoula, Mont	66	24	87	29	170	46	272	67	342	73	291	61
Mobile, Ala	169	53	172	53	230	62	262	68	292	69	390	92
Modena, Utah	242	79	162	52	288	77	302	76	378	86	373	84
Nashville, Tenn	155	50	164	52	240	65	239	61	382	88	372	85
New Haven, Conn	156	52	159	51	186	50	204	51	344	77	273	60
New Orleans, La	153	47	163	50	216	58	262	68	235	56	362	86
New York, N. Y	185	62	183	59	217	58	218	54	366	82	287	63
Nome, Alaska	41	25	121	49	219	60	229	50	303	52	241	37
Norfolk, Va	134	43	138	44	193	52	256	65	385	88	297	67
Northfield, Vt	100	35	144	47	126	34	116	29	234	51	251	55
North Head, Wash	57	20	56	18	85	23	124	31	165	36	222	47
North Platte, Nebr	155	52	181	59	266	72	283	71	298	66	357	79
Oklahoma City, Okla	202	64	222	70	308	83	318	81	325	75	397	91
Omaha, Nebr	172	58	208	67	294	79	308	77	362	81	398	88
Oswego, N. Y	53	18	82	27	137	37	155	38	324	71	311	68
Parkersburg, W. Va	57	19	101	32	134	36	125	31	320	72	320	72
Pensacola, Fla	149	46	173	53	230	62	268	69	275	65	374	89
Peoria, Ill	148	50	181	58	242	65	262	66	339	75	356	79

TABLE 13.—*Monthly amounts and percentage of sunshine, 1936*—Continued

Stations	July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Galveston, Tex	276	65	248	61	215	58	230	65	191	59	162	51	2, 633	58
Grand Junction, Colo	343	76	316	74	290	78	254	73	268	89	154	53	3, 113	69
Grand Rapids, Mich	402	86	290	67	235	63	166	49	129	44	116	41	2, 580	55
Green Bay, Wis	358	76	216	50	220	59	156	46	107	37	97	35	2, 279	50
Greensboro, N. C	293	66	276	66	241	65	190	54	190	62	111	37	2, 806	62
Harrisburg, Pa	334	73	213	50	184	49	184	53	103	34	142	48	2, 424	53
Hartford, Conn	314	68	255	60	176	47	163	48	158	54	124	44	2, 452	54
Havre, Mont	421	86	360	81	298	79	212	63	217	79	113	44	3, 247	71
Helena, Mont	382	80	326	74	275	73	212	63	179	64	115	43	2, 970	64
Honolulu, Hawaii	257	62	272	68	268	73	217	60	224	67	181	54	2, 736	62
Houston, Tex	276	64	277	68	235	64	232	65	144	45	122	39	2, 435	54
Huron, S. Dak	413	88	307	71	292	78	213	62	186	64	121	44	3, 058	66
Indianapolis, Ind	356	78	352	83	237	64	204	59	156	52	150	52	2, 903	63
Ithaca, N. Y	359	78	237	55	228	61	182	53	78	26	79	28	2, 313	49
Jacksonville, Fla	298	69	321	78	255	69	198	56	167	52	115	36	2, 849	63
Juneau, Alaska	163	30	178	37	90	26	30	9	13	5	47	23	1, 637	34
Kalispell, Mont	431	89	363	82	237	63	213	63	100	36	20	8	2, 640	55
Kansas City, Mo	425	94	323	76	189	51	202	58	246	81	160	55	3, 266	72
Keokuk, Iowa	404	89	320	75	188	50	175	51	202	68	168	58	3, 101	68
Key West, Fla	292	70	262	65	239	65	290	81	222	68	212	64	3, 076	69
Knoxville, Tenn	287	65	313	75	274	74	200	57	168	54	112	37	2, 954	65
La Crosse, Wis	399	85	282	65	231	62	154	45	166	58	111	40	2, 796	61
Lander, Wyo	311	67	298	69	293	78	184	54	200	69	174	62	2, 938	65
Lansing, Mich	356	77	283	66	220	59	167	49	87	30	103	37	2, 254	48
Lincoln, Nebr	424	92	323	76	250	67	227	66	242	81	136	47	3, 202	70
Little Rock, Ark	355	80	368	88	264	71	216	62	205	66	127	42	3, 149	69
Los Angeles, Calif	321	73	334	81	304	82	237	67	272	87	205	67	3, 224	72
Louisville, Ky	306	68	327	78	221	59	206	60	187	62	139	47	2, 832	62
Macon, Ga	294	67	342	83	254	68	215	61	198	63	111	36	2, 966	65
Madison, Wis	378	81	274	64	173	46	155	45	172	59	141	50	2, 578	56
Marquette, Mich	318	66	122	28	179	48	108	32	49	17	57	21	1, 789	38
Memphis, Tenn	349	79	359	86	243	65	200	57	181	58	118	39	3, 078	67
Meridian, Miss	218	50	287	70	237	64	222	63	166	53	104	33	2, 816	62
Miami, Fla	286	68	250	62	225	61	237	66	188	58	212	65	2, 797	63
Miles City, Mont	403	85	278	64	272	72	205	61	163	57	83	31	2, 853	61
Milwaukee, Wis	396	85	284	66	238	63	144	42	138	47	124	44	2, 686	58
Minneapolis—St. Paul, Minn	425	90	314	72	266	71	184	54	162	56	112	41	2, 890	62
Missoula, Mont	405	85	359	82	276	73	244	72	161	57	58	22	2, 730	58
Mobile, Ala	287	66	312	76	280	76	268	76	202	63	153	49	3, 018	67
Modena, Utah	282	63	333	79	341	91	234	67	280	92	202	68	3, 417	76
Nashville, Tenn	290	65	307	73	230	62	175	50	190	62	129	43	2, 874	63
New Haven, Conn	343	75	288	67	209	56	195	57	162	54	131	46	2, 649	58
New Orleans, La	289	67	263	64	258	70	264	75	181	57	141	44	2, 788	62
New York, N. Y	325	71	255	60	230	62	218	63	174	59	149	52	2, 806	62
Nome, Alaska	182	29	176	34	130	33	110	36	91	47	16	12	1, 859	39
Norfolk, Va	308	69	311	74	262	70	246	71	179	58	112	37	2, 820	62
Northfield, Vt	248	53	208	48	176	47	148	43	97	33	101	37	1, 948	43
North Head, Wash	297	62	240	55	225	60	164	48	144	51	43	16	1, 822	39
North Platte, Nebr	392	85	342	80	278	74	237	69	234	79	165	57	3, 187	70
Oklahoma City, Okla	400	91	394	95	224	60	225	64	234	75	170	56	3, 419	75
Omaha, Nebr	441	96	313	73	225	60	255	74	233	78	142	49	3, 351	73
Oswego, N. Y	375	81	255	59	228	61	147	43	43	15	106	38	2, 216	46
Parkersburg, W. Va	297	66	243	57	236	63	145	42	118	39	117	40	2, 214	47
Pensacola, Fla	252	59	308	75	270	73	266	75	203	63	141	45	2, 908	64
Peoria, Ill	404	88	352	82	223	60	201	58	207	70	158	55	3, 072	67

TABLE 13.—*Monthly amounts and percentage of sunshine, 1936*—Continued

Stations	January		February		March		April		May		June	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Philadelphia, Pa	165	55	164	53	196	53	212	53	364	82	243	54
Phoenix, Ariz	255	80	223	70	311	84	347	89	409	95	413	96
Pittsburgh, Pa	91	31	186	60	166	45	170	43	376	84	347	77
Pocatello, Idaho	125	43	122	40	203	55	248	62	328	72	309	67
Port Arthur, Tex	159	49	139	43	213	57	269	69	253	60	381	90
Portland, Maine	154	53	182	60	191	52	213	53	337	74	320	69
Portland, Oreg	88	31	86	28	144	39	197	48	267	58	261	55
Providence, R. I	167	57	163	53	187	50	191	48	325	72	248	55
Pueblo, Colo	196	64	227	72	333	90	340	86	335	76	373	84
Raleigh, N. C	167	54	189	60	224	60	264	67	386	88	291	67
Rapid City, S. Dak	160	55	183	60	257	69	260	64	370	81	369	80
Reading, Pa	129	43	128	41	148	40	179	45	345	77	241	54
Richmond, Va	155	51	157	50	198	53	228	58	384	87	269	61
Rochester, N. Y	55	19	139	45	150	40	121	30	318	70	331	72
Roseburg, Oreg	79	27	68	22	160	43	246	61	272	60	260	57
Roswell, N. Mex	218	69	263	82	310	83	316	81	283	66	387	90
Sacramento, Calif	118	39	126	40	266	72	296	74	348	78	348	78
St. Joseph, Mo	188	62	200	64	302	81	294	74	314	70	384	85
St. Louis, Mo	100	33	152	49	283	76	239	60	339	76	373	84
Salt Lake City, Utah	132	44	143	46	270	73	318	79	390	87	352	78
San Antonio, Tex	210	64	123	38	197	53	255	66	190	45	299	71
San Diego, Calif	202	64	173	54	232	62	229	59	288	67	263	61
Sandy Hook, N. J	164	55	160	52	216	58	229	57	366	82	294	66
San Francisco, Calif	137	45	154	49	284	77	276	70	339	77	342	77
San Jose, Calif	141	46	152	48	254	68	269	68	341	78	332	75
San Juan, P. R	242	70	246	73	310	83	281	75	209	52	272	69
Sante Fe, N. Mex	268	86	236	74	331	89	326	83	354	81	386	88
Saulte Ste. Marie, Mich	58	20	147	49	157	42	146	36	268	58	300	64
Savannah, Ga	167	52	147	46	221	59	241	62	274	64	307	72
Scranton, Pa	104	35	162	52	183	49	194	48	356	79	297	66
Seattle, Wash	101	37	103	34	124	33	160	39	212	45	211	44
Sheridan, Wyo	116	40	165	54	227	61	263	65	381	83	372	80
Sioux City, Iowa	141	48	185	60	252	68	283	71	341	75	364	80
Spokane, Wash	82	30	107	36	216	59	265	65	325	69	311	65
Springfield, Ill	121	40	147	49	209	56	219	55	339	76	345	77
Springfield, Mo	138	45	198	63	265	71	264	67	301	69	395	90
Syracuse, N. Y	68	23	135	44	162	44	124	31	309	68	306	67
Tampa, Fla	180	55	197	60	204	55	316	82	308	73	275	66
Tatoosh Island, Wash	98	35	125	42	177	48	192	47	183	39	274	57
Terre Haute, Ind	141	46	159	51	232	63	232	58	346	78	364	82
Toledo, Ohio	67	23	134	44	189	51	124	31	304	67	295	65
Trenton, N. J	161	54	174	56	193	52	228	57	368	83	302	67
Valentine, Nebr	170	58	196	64	269	73	255	63	338	74	360	78
Vicksburg, Miss	150	47	112	35	218	59	229	59	308	72	395	93
Walla Walla, Wash	40	14	61	20	185	50	260	64	328	71	288	61
Washington, D. C	152	50	152	49	169	46	198	50	367	83	268	60
Wichita, Kans	189	62	212	68	326	88	333	84	326	74	412	93
Williston, N. Dak	141	51	200	67	224	61	281	68	382	81	332	69
Wilmington, N. C	186	59	165	52	226	61	271	69	360	83	346	80
Winnemucca, Nev	89	30	78	25	232	63	280	70	356	79	340	75
Wytheville, Va	130	42	168	53	191	52	184	47	339	77	275	62
Yakima, Wash	92	33	169	56	280	76	310	76	358	77	322	68
Yellowstone Park, Wyo	113	40	78	26	198	53	231	57	326	71	307	66
Yuma, Ariz	273	86	270	84	340	92	375	96	423	98	423	99

TABLE 13.—*Monthly amounts and percentage of sunshine, 1936*—Continued

Stations	July		August		September		October		November		December		Annual	
	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible	Hours	Percentage of possible
Philadelphia, Pa	274	60	273	64	208	56	201	58	156	52	119	41	2, 572	57
Phoenix, Ariz	372	85	349	84	320	86	298	85	267	85	228	73	3, 790	84
Pittsburgh, Pa	386	84	343	80	281	75	233	68	160	54	140	49	2, 879	62
Pocatello, Idaho	301	65	325	75	328	88	253	74	221	76	101	36	2, 863	63
Port Arthur, Tex	286	67	294	72	228	62	237	67	211	66	141	44	2, 811	62
Portland, Maine	332	71	313	72	221	59	215	63	132	46	116	42	2, 726	60
Portland, Oreg	353	74	322	74	259	69	214	63	182	64	18	6	2, 390	51
Providence, R. I	275	60	241	56	183	49	205	60	150	51	115	40	2, 450	54
Pueblo, Colo	360	80	300	71	277	74	213	61	246	81	178	60	3, 379	75
Raleigh, N. C	304	68	290	69	275	74	247	71	202	66	99	33	2, 938	65
Rapid City, S. Dak	424	90	348	80	307	82	238	70	205	71	135	49	3, 255	71
Reading, Pa	315	69	235	55	187	50	173	50	126	42	130	45	2, 336	51
Richmond, Va	248	55	248	59	262	70	217	62	209	69	114	38	2, 689	59
Rochester, N. Y	366	79	268	62	224	60	126	37	77	26	104	37	2, 278	48
Roseburg, Oreg	348	75	381	88	262	70	200	58	102	35	40	14	2, 419	51
Roswell, N. Mex	328	75	333	80	234	63	241	68	233	74	248	80	3, 395	76
Sacramento, Calif	420	93	402	95	362	97	300	87	261	87	129	44	3, 376	74
St. Joseph, Mo	425	93	318	75	203	54	211	61	242	81	163	56	3, 242	71
St. Louis, Mo	391	86	340	80	182	49	175	50	229	76	135	46	2, 938	64
Salt Lake City, Utah	349	76	366	86	331	88	260	76	245	82	150	52	3, 303	72
San Antonio, Tex	270	63	292	72	211	57	221	62	138	43	160	53	2, 567	57
San Diego, Calif	284	65	295	71	285	77	218	62	232	74	188	60	2, 888	65
Sandy Hook, N. J	332	73	313	74	237	63	221	64	172	57	129	44	2, 834	62
San Francisco, Calif	374	83	282	67	318	85	254	73	240	79	181	61	3, 182	70
San Jose, Calif	398	89	339	81	330	89	258	74	223	73	156	52	3, 192	72
San Juan, P. R	264	65	227	58	220	60	220	61	236	70	224	65	2, 950	67
Sante Fe, N. Mex	347	78	334	80	298	80	274	79	279	91	232	77	3, 665	82
Saulte Ste. Marie, Mich	392	82	209	48	135	36	90	27	74	26	23	9	1, 999	41
Savannah, Ga	313	72	272	66	221	60	202	57	174	55	87	28	2, 626	58
Scranton, Pa	353	77	278	65	236	63	157	46	116	39	99	34	2, 535	54
Seattle, Wash	330	68	281	64	230	61	128	38	121	43	52	20	2, 052	44
Sheridan, Wyo	388	82	353	81	313	83	229	68	191	67	99	36	3, 096	67
Sioux City, Iowa	429	93	336	78	259	69	221	65	196	67	107	37	3, 114	68
Spokane, Wash	424	88	366	83	270	72	258	77	168	60	65	25	2, 857	61
Springfield, Ill	386	85	346	81	212	57	184	53	216	72	147	51	2, 872	63
Springfield, Mo	398	89	322	77	210	56	200	57	242	79	148	50	3, 080	68
Syracuse, N. Y	374	80	276	64	237	63	162	47	96	33	84	30	2, 333	50
Tampa, Fla	249	59	272	67	232	63	226	64	198	61	183	57	2, 841	64
Tatoosh Island, Wash	339	70	258	58	203	54	158	47	124	44	79	30	2, 210	48
Terre Haute, Ind	345	76	355	84	226	60	203	59	193	64	158	54	2, 954	65
Toledo, Ohio	368	80	286	67	222	59	162	47	96	33	119	42	2, 366	51
Trenton, N. J	343	75	298	70	233	62	204	59	164	55	150	51	2, 818	62
Valentine, Nebr	412	89	312	73	281	75	236	69	202	69	130	46	3, 162	69
Vicksburg, Miss	286	66	329	80	286	77	227	64	148	47	97	31	2, 786	61
Walla Walla, Wash	417	88	374	86	287	76	282	83	168	59	34	13	2, 724	57
Washington, D. C	271	60	265	63	216	58	185	53	160	53	156	53	2, 560	56
Wichita, Kans	426	95	384	91	252	67	255	74	264	87	165	56	3, 543	78
Williston, N. Dak	412	85	291	66	265	70	203	61	183	66	140	54	3, 055	67
Wilmington, N. C	330	75	299	72	256	69	230	65	200	64	112	36	2, 982	65
Winnemucca, Nev	373	81	348	81	320	85	265	77	248	84	104	36	3, 034	66
Wytheville, Va	228	51	217	52	197	53	163	47	177	58	95	32	2, 365	52
Yakima, Wash	404	84	378	86	298	79	298	88	159	57	98	37	3, 168	68
Yellowstone Park, Wyo	307	65	301	69	286	76	223	66	193	67	60	22	2, 621	56
Yuma, Ariz	395	90	381	92	363	98	318	91	282	90	264	85	4, 105	92

EXCESSIVE RAINFALL, 1936

Table 14 contains statistics of maximum amounts of rainfall during the calendar year 1936.

The method of tabulating excessive precipitation has been changed, beginning with the year 1936, to meet the needs of many sewerage engineers.

The method heretofore used gave the accumulated depth of precipitation for each 5 minutes for a storm 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, etc., and 0.80 inch in any 1-hour period, or 1.40 inch in 2 hours, the tabulation beginning with the 5-minute period where the rate of 0.05 inch in 5 minutes began and continuing for 5-minute periods up to 120 minutes.

The present method gives the maximum fall of precipitation for the periods 5 to 180 minutes, the maximum amounts being taken for the periods in which the fall is the greatest for the given time and is tabulated to show the maximum amounts for 5, 10, 20, 30, 45, 60, 80, 100, 120, 150, and 180 minutes, even if the fall does not equal the excessive rate for some of the periods.

Table 14 shows for most stations of the Weather Bureau furnished with self-registering gages, the maximum amounts of precipitation in 5, 10, 20, 30, 45, 60, 80, 100, 120, 150, and 180 minutes. The following table A, showing limits at which precipitation is considered as excessive for all stations, except in the Southern States, including North Carolina, South Carolina, Georgia, Florida, Alabama, Mississippi, Tennessee, Arkansas, Louisiana, Texas, Oklahoma, and San Juan, P. R.:

TABLE A.—*Showing limits at which precipitation may be considered as excessive*

Duration (in minutes)	Depth of precipitation (in inches)	Duration (in minutes)	Depth of precipitation (in inches)
5	0.25	35	0.55
10	.30	40	.60
15	.35	45	.65
20	.40	50	.70
25	.45	60	.80
30	.50		

This table is made up from the formula $A=t+20$, where A is the accumulated depth in hundredths of inches and t is the time in minutes.

For the Southern States, table B is used. This table is made up from the formula $A=2t+30$:

TABLE B.—*Showing limits at which precipitation may be considered as excessive*

Duration (in minutes)	Depth of precipitation (in inches)	Duration (in minutes)	Depth of precipitation (in inches)
5	0.40	40	1.10
10	.50	45	1.20
15	.60	50	1.30
20	.70	60	1.50
25	.80	80	1.90
30	.90	100	2.30
35	1.00	120	2.70

Similar data for the years 1896 to 1934, inclusive, have been presented in the appropriate annual reports of the Chief of the Weather Bureau and for the year 1935 in the United States Meteorological Yearbook (1935). The published data prior to 1896 consists 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 gages.

The excessive precipitation data for the years 1897–1935, inclusive, show the accumulated amounts of precipitation for each 5 minutes during all storms 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.

Normal standard time at the place of occurrence is employed in these tables.

TABLE 14.—*Maximum precipitation for stated intervals during 1936 at all stations furnished with self-registering gages*

Stations and dates	Maximum amounts of precipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
NEW ENGLAND STATES											
Eastport, Maine:											
May 13	0.23	0.35	0.47	0.53	0.58	0.62	0.63	0.63	0.63	0.64	0.64
June 12	.20	.35	.50	.58	.79	.88	.95	1.00	1.07	1.12	1.16
June 20-21	.42	.53	.63	.64	.64	.65	.65	.65	.66	.66	.66
Aug. 15	.22	.29	.50	.66	.71	.72	.90	1.02	1.02	1.04	1.06
Portland, Maine:											
June 12	.18	.32	.59	.75	.87	.98	1.08	1.12	1.14	1.16	1.17
Burlington, Vt.:											
May 13	.24	.42	.44	.44	.44	.44	.44	.44	.44	.47	.56
July 9-10	.28	.40	.49	.51	.54	.55	.56	.56	.56	.56	.71
July 11	.27	.47	.58	.64	.66	.67	.67	.67	.67	.67	.67
Aug. 15	.31	.41	.49	.50	.50	.50	.50	.50	.50	.50	.50
Aug. 29	.27	.40	.55	.62	.71	1.07	1.14	1.15	1.15	1.16	1.16
Northfield, Vt.:											
July 10	.15	.33	.40	.43	.45	.47	.49	.50	.59	.66	.77
Aug. 16	.46	.78	1.35	1.46	1.52	1.52	1.52	1.52	1.52	1.52	1.52
Aug. 23	.41	.61	.64	.66	.71	.76	.84	.86	.87	.89	.90
Boston, Mass.:											
Aug. 30	.24	.40	.56	.67	.72	.84	.96	1.00	1.18	1.39	1.42
Nantucket, Mass.:											
July 18	.09	.25	.37	.54	.58	.61	.66	.67	.67	.67	.67
Dec. 31	.25	.42	.58	.62	.64	.65	.72	.73	.73	.74	.78
Block Island, R. I.:											
June 14	.26	.33	.38	.43	.50	.54	.59	.62	.62	.62	.63
July 18	.36	.44	.46	.48	.50	.52	.53	.55	.55	.55	.55
Sept. 18	.10	.19	.35	.49	.66	.81	1.01	1.14	1.23	1.58	1.77
Providence, R. I.:											
July 14	.25	.37	.47	.51	.51	.52	.52	.52	.52	.52	.52
Aug. 17	.21	.32	.64	.65	.65	.65	.65	.65	.65	.65	.65
Sept. 12	.25	.47	.66	.76	.83	.86	.89	.90	.91	.92	.92
Hartford, Conn.:											
June 3	.39	.58	.68	.68	.69	.72	.75	.81	.84	.85	.85
July 24	.21	.33	.62	.68	.70	.80	.81	.84	.89	.98	.98
New Haven, Conn.:											
Jan. 3	.11	.20	.37	.54	.61	.65	.70	.73	.77	.82	1.88
June 12	.32	.56	.93	1.21	1.70	2.08	2.53	2.82	3.12	3.29	3.43
June 12-13	.18	.31	.48	.65	.89	1.22	1.41	1.79	2.16	2.39	2.72
June 18	.30	.55	.92	1.12	1.44	1.75	1.93	1.97	2.02	2.09	2.40
July 18	.24	.35	.49	.52	.54	.56	.56	.58	.59	.61	.61
MIDDLE ATLANTIC STATES											
Albany, N. Y.:											
May 3	.31	.49	.93	1.25	1.50	1.53	1.54	1.54	1.54	1.55	1.55
May 12	.36	.50	.53	.53	.54	.54	.54	.54	.54	.54	.54
July 11	.21	.31	.41	.43	.43	.44	.44	.44	.44	.44	.44
Aug. 10	.24	.36	.68	.78	.79	.80	.81	.83	.91	1.04	1.09
Binghamton, N. Y.:											
May 3	.16	.26	.44	.52	.53	.54	.55	.57	.60	.61	.62
June 18	.24	.43	.57	.61	.66	.71	.80	.80	.80	.81	.81
June 20	.34	.57	.74	.79	.95	.96	.96	.96	.96	.96	.96
Aug. 14	.29	.43	.58	.62	.63	.63	.63	.85	.89	.92	.93
Aug. 19	.44	.76	1.10	1.20	1.28	1.29	1.33	1.35	1.37	1.38	1.38
New York, N. Y.:											
May 13	.23	.32	.46	.63	.76	.77	.78	.87	.90	.92	.92
June 18	.24	.34	.41	.63	.78	1.06	1.16	1.20	1.22	1.22	1.23
July 14	.34	.66	.76	.76	.77	.87	.88	.88	.88	.88	.88
Aug. 23	.16	.28	.48	.58	.67	.67	.67	.67	.67	.71	.82
Sept. 18	.11	.19	.35	.50	.67	.84	1.08	1.29	1.52	1.84	2.12
Oct. 17	.27	.47	.84	1.08	1.27	1.40	1.50	1.63	1.75	1.95	2.07
Harrisburg, Pa.:											
May 3	.13	.30	.40	.45	.50	.51	.52	.52	.52	.52	.52
June 18	.42	.61	.76	.80	.89	.91	.94	.96	.99	1.05	1.05
June 28	.21	.36	.48	.50	.59	.60	.61	.61	.61	.61	.61
July 3	.26	.40	.75	1.01	1.16	1.21	1.28	1.47	1.47	1.48	1.48
July 11	.27	.48	.76	.90	.94	.94	.94	.96	.96	.96	.96
July 21	.32	.53	.99	1.17	1.26	1.28	1.32	1.38	1.45	1.49	1.50
Aug. 15	.16	.25	.47	.58	.69	.71	.74	.74	.76	.77	.77
Sept. 2	.27	.39	.48	.55	.57	.58	.59	.59	.60	.60	.60
Sept. 8	.25	.31	.31	.31	.31	.31	.31	.31	.31	.31	.31
Philadelphia, Pa.:											
June 18	.19	.29	.53	.67	.76	.86	.87	.89	.89	.89	.89
July 29	.32	.53	.69	.92	.93	.94	.94	.94	.94	.94	.99
Aug. 6	.18	.27	.43	.44	.44	.44	.45	.45	.46	.49	.74
Reading, Pa.:											
May 13	.22	.34	.34	.35	.36	.36	.36	.36	.36	.36	.36
June 12	.18	.32	.61	.82	1.02	1.14	1.27	1.37	1.46	1.55	1.59
June 18	.22	.34	.52	.66	.75	.83	.94	1.02	1.06	1.08	1.12
July 28	.23	.30	.37	.42	.45	.45	.45	.45	.45	.45	.45
Aug. 16	.26	.51	.72	.80	.87	.92	.92	.92	.92	.92	1.03
Aug. 21	.30	.51	.73	.75	.75	.76	.76	.76	.76	.76	.76
Aug. 23	.28	.45	.59	.59	.59	.59	.59	.59	.59	.59	.59
Aug. 25	.25	.45	.71	.77	.89	.96	.97	.97	1.02	1.08	1.08
Oct. 7	.25	.46	.64	.69	.72	.75	.76	.77	.83	.83	.83
Scranton, Pa.:											
June 11	.37	.60	.90	1.21	1.38	1.40	1.41	1.41	1.42	1.51	1.52
June 18	.29	.49	.61	.69	.81	.87	.94	.97	.97	.99	1.02
June 20	.34	.58	.84	1.33	1.64	1.78	1.86	1.95	2.47	2.74	2.75
Aug. 14	.23	.41	.53	.57	.67	.72	.73	.78	.73	.74	.74

Stations and dates	Maximum amounts of precipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
MIDDLE ATLNT'C—STATES—contd.											
Atlantic City, N. J.:											
June 19	0.30	0.59	0.92	1.28	1.56	1.76	1.90	1.92	1.96	2.09	2.13
July 24	.45	.66	.80	1.34	1.39	1.42	1.42	1.76	1.90	1.91	1.91
July 29	.24	.40	.42	.42	.43	.43	.43	.43	.43	.43	.43
Aug. 29	.20	.30	.37	.40	.48	.54	.58	.60	.60	.61	.62
Sandy Hook, N. J.:											
June 11	.25	.34	.36	.39	.42	.43	.45	.49	.50	.51	.52
June 18	.29	.56	.79	.90	.92	.96	1.00	1.10	1.12	1.12	1.13
July 5	.21	.32	.41	.42	.43	.44	.45	.45	.46	.46	.47
July 14	.27	.48	.85	.95	.96	.96	.97	.97	.97	.97	.97
Sept. 18	.10	.22	.36	.52	.75	.94	1.16	1.34	1.48	1.75	1.98
Oct. 1	.12	.24	.41	.54	.72	.84	1.02	1.18	1.32	1.44	1.51
Oct. 17	.11	.22	.39	.51	.61	.69	.87	.91	1.09	1.23	1.30
Trenton, N. J.:											
May 13	.29	.47	.60	.60	.61	.61	.81	.84	.86	.86	.86
July 29	.20	.28	.38	.52	.55	.55	.55	.55	.55	.55	.55
Aug. 15	.28	.46	.54	.55	.55	.55	.57	.58	.58	.59	.59
Aug. 24	.14	.27	.41	.57	.66	.71	.72	.74	.74	.74	.75
Sept. 20	.15	.25	.48	.64	.72	.77	.80	.88	.90	.92	.93
Baltimore, Md.:											
May 3	.20	.31	.41	.50	.55	.58	.69	.78	.87	.98	1.04
May 18	.17	.25	.34	.55	.65	.77	.77	.78	.91	.93	1.06
May 27	.34	.39	.43	.44	.44	.46	.47	.47	.47	.47	.47
July 20	.22	.36	.52	.59	.63	.64	.64	.64	.66	.66	.66
July 23	.19	.35	.53	.58	.62	.63	.69	.74	.76	.78	.78
July 27	.24	.31	.36	.55	.73	.99	1.03	1.04	1.05	1.07	1.08
Aug. 25	.27	.43	.55	.63	.65	.66	.68	.69	.69	.69	.69
Aug. 29	.53	.89	1.48	1.53	1.56	1.57	1.58	1.58	1.91	1.95	1.98
Washington, D. C.:											
May 3	.53	.94	1.30	1.39	1.59	1.57	1.61	1.73	1.88	2.00	2.16
May 13	.29	.35	.48	.48	.65	.68	.68	.69	.69	.69	.69
May 18	.41	.62	.89	1.08	1.11	1.15	1.15	1.17	1.17	1.17	1.21
June 31	.34	.52	.73	.75	.80	.80	.80	.80	.80	.80	.80
July 23	.43	.76	1.16	1.45	1.70	1.73	1.81	1.87	1.94	1.98	1.98
July 24	.30	.40	.47	.48	.48	.48	.48	.48	.48	.48	.48
Aug. 21	.42	.77	1.18	1.33	1.42	1.64	1.75	1.78	1.79	1.79	1.83
Aug. 22	.27	.43	.69	.73	.75	.75	.75	.75	.75	.75	.75
Cape Henry, Va.:											
Jan. 19	.24	.42	.49	.52	.58	.67	.72	.74	.80	.89	1.07
Apr. 6	.23	.30	.30	.32	.34	.37	.41	.48	.51	.51	.51
June 4	.16	.31	.51	.65	.79	1.00	1.08	1.14	1.20	1.31	1.38
Sept. 18	.10	.19	.36	.53	1.14	1.40	1.70	1.91	2.13	2.47	2.67
Oct. 1	.24	.40	.64	.91	1.18	1.58	1.94	2.04	2.05	2.05	2.05
Oct. 16	.20	.33	.54	.79	1.10	1.23	1.39	1.56	1.71	1.89	2.06
Lynchburg, Va.[1]											
Norfolk, Va.:											
June 4	.23	.39	.63	.80	.93	1.00	1.04	1.12	1.20	1.27	1.30
July 5	.28	.37	.41	.47	.49	.50	.80	.97	1.04	1.06	1.06
July 16	.15	.28	.39	.41	.44	.46	.47	.47	.47	.47	.47
July 18	.43	.74	1.18	1.49	1.56	1.62	1.82	2.16	2.24	2.30	2.34
July 20	.42	.75	1.09	1.22	1.28	1.29	1.29	1.29	1.29	1.29	1.29
July 29	.26	.35	.42	.44	.46	.65	.71	.72	.74	.77	.84
Sept. 18	.15	.22	.39	.56	.76	.99	1.16	1.53	1.72	2.03	2.35
Oct. 1	.21	.35	.51	.84	1.05	1.13	1.29	1.34	1.35	1.35	1.36
Oct. 16	.21	.31	.54	.64	.79	.95	1.33	1.43	1.55	1.69	1.80
Richmond, Va.[1]											
June 8	.39	.62	1.04	1.58	1.80	1.87	2.00	2.09	2.14	2.16	2.17
July 12	.44	.73	.97	1.09	1.09	1.10	1.10	1.10	1.10	1.10	1.10
July 24	.20	.31	.39	.43	.44	.45	.45	.45	.45	.45	.45
Aug. 16	.22	.39	.62	.74	.79	.79	.79	.82	.84	.88	.89
Aug. 16	.28	.43	.62	.63	.63	.63	.63	.63	.63	.64	.64
Oct. 9	.19	.29	.45	.52	.64	.70	.73	.73	.73	.73	.73
Wytheville, Va.:											
Aug. 14	.35	.50	.80	.87	.90	.90	.90	.90	.90	.90	.90
Sept. 29	.14	.22	.38	.50	.72	.93	1.06	1.13	1.19	1.37	1.46
SOUTH ATLANTIC STATES											
Asheville, N. C.:											
May 11	.27	.44	.69	.84	.93	.98	.99	1.03	1.08	1.12	1.14
Charlotte, N. C.:											
July 21	.31	.51	.82	.83	.83	.83	.86	.86	.86	.86	.86
July 29	.38	.52	.95	1.03	1.18	1.27	1.37	1.38	1.39	1.40	1.52
July 30	.20	.34	.68	.87	1.17	1.40	1.61	1.68	1.71	2.00	2.32
Sept. 3	.36	.68	.96	1.15	1.41	1.52	1.52	1.52	1.52	2.09	2.35
Oct. 7	.52	.84	1.34	1.75	2.08	2.11	2.17	2.20	2.20	2.21	2.23
Greensboro, N. C.:											
Jan. 19	.36	.48	.71	.75	.79	.89	.92	.93	.95	1.00	1.09
Apr. 6	.46	.59	.63	.67	.73	.79	.86	.91	.93	.98	1.06
June 18	.39	.60	.63	.71	.88	.90	.91	.91	.91	.91	.91
July 10	.22	.37	.70	.97	1.28	1.32	1.35	1.35	1.39	1.48	1.56
July 29	.37	.59	.91	1.02	1.05	1.07	1.11	1.12	1.12	1.12	1.13
Aug. 7	.38	.67	.84	.89	.91	.91	.92	.92	.92	.92	.92
Hatteras, N. C.:											
June 20	.42	.76	.86	.87	1.09	1.10	1.10	1.11	1.11	1.13	1.13
July 1	.36	.55	.81	1.02	1.19	1.32	1.33	1.37	1.41	1.45	1.47
July 13	.34	.62	1.06	1.36	1.46	1.50	1.52	1.53	1.59	1.61	1.61
Aug. 8	.53	.91	1.50	2.07	2.30	2.52	2.67	2.70	2.74	2.84	2.88
Dec. 19	.25	.44	.83	1.05	1.25	1.32	1.35	1.38	1.44	1.57	1.63

See footnotes at end of table.

TABLE 14.—*Maximum precipitation for stated intervals during 1936 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
SOUTH ATLANTIC STATES—contd.											
Raleigh, N. C.:											
Apr. 6	0.40	0.59	0.71	0.96	0.99	1.01	1.02	1.06	1.07	1.07	1.17
June 12	.22	.41	.62	.89	1.22	1.60	1.78	1.83	1.84	1.90	1.92
June 18-19	.48	.69	1.02	1.29	1.43	1.44	1.45	1.45	1.48	1.52	1.74
July 1	.41	.65	.82	.84	.86	.87	.88	1.07	1.12	1.14	1.15
July 3	.47	.50	.52	.55	.55	.55	.56	.56	.56	.56	.56
July 20	.20	.36	.66	.97	1.19	1.29	1.33	1.35	1.43	1.46	1.48
Aug. 27-28	.31	.52	.82	1.03	1.38	1.51	1.53	1.55	1.57	1.59	1.60
Sept. 10	.37	.65	1.07	1.32	1.44	1.53	1.68	1.77	1.83	1.94	2.01
Wilmington, N. C.:											
June 13	.34	.67	1.09	1.18	1.35	1.40	1.41	1.41	1.41	1.41	1.41
July 14	.32	.58	.89	1.27	1.39	1.39	1.39	1.39	1.40	1.40	1.40
July 16	.28	.49	.78	.92	1.00	1.03	1.05	1.05	1.07	1.12	1.15
Aug. 26	.52	.84	1.04	1.14	1.24	1.26	1.26	1.27	1.29	1.30	1.30
Charleston, S. C.:											
May 14	.38	.68	1.09	1.28	1.43	1.47	1.47	1.51	1.52	1.53	1.53
June 4	.31	.56	.77	.82	.84	.90	.96	.98	1.00	1.00	1.00
July 21	.49	.85	1.34	1.40	1.41	1.42	1.86	2.41	2.42	2.50	2.51
Aug. 8	.25	.44	.77	.90	1.17	1.23	1.24	1.25	1.26	1.26	1.27
Aug. 11	.28	.54	.95	1.02	1.04	1.05	1.08	1.09	1.09	1.09	1.09
Aug. 25	.48	.75	1.29	1.51	1.63	1.65	1.65	1.65	1.65	1.65	1.65
Columbia, S. C.:											
Apr. 2	.24	.44	.75	.85	.89	.93	.97	1.05	1.15	1.20	1.25
July 2	.53	.67	.71	.71	.72	.72	.72	.72	.72	.72	.72
July 13	.51	.93	1.37	1.84	1.94	1.95	1.95	1.95	1.95	1.95	1.95
July 19	.35	.60	.86	1.02	1.08	1.08	1.11	1.12	1.12	1.13	1.13
Aug. 6	.38	.56	.98	1.24	1.64	1.85	2.08	2.20	2.24	2.24	2.24
Aug. 29	.46	.74	1.31	1.59	1.93	2.12	2.31	2.48	2.49	2.51	2.51
Augusta, Ga.:											
May 11	.38	.65	.77	.78	.79	.79	.79	.79	.79	.79	.79
Aug. 1	.26	.47	.75	.87	.93	.97	1.04	1.12	1.20	1.27	1.31
Aug. 29	.31	.47	.92	1.20	1.35	1.46	1.85	1.96	1.97	2.01	2.03
Sept. 4	.34	.53	.68	.75	.77	.78	.78	.78	.78	.78	.78
Savannah, Ga.:											
June 19	.45	.64	1.07	1.18	1.31	1.31	1.31	1.31	1.31	1.31	1.32
July 31	.30	.58	.80	1.02	1.08	1.35	1.45	1.51	1.54	1.55	1.55
Sept. 30	.30	.53	.72	.82	.84	.85	.85	.85	.85	.86	.87
Jacksonville, Fla.:											
June 10	.63	1.13	1.70	2.00	2.23	2.32	2.35	2.39	2.41	2.42	2.42
July 22	.47	.76	.91	.99	1.00	1.01	1.03	1.06	1.07	1.07	1.11
Aug. 9	.41	.69	.74	.75	.75	.75	.75	.75	.75	.75	.75
Aug. 10	.35	.58	.87	1.06	1.12	1.14	1.15	1.16	1.16	1.16	1.16
Oct. 5	.40	.68	1.00	1.08	1.56	1.82	1.91	1.95	2.02	2.04	2.05
Oct. 14	.30	.49	.88	1.13	1.25	1.27	1.27	1.31	1.33	1.35	1.35
FLORIDA PENINSULA											
Key West, Fla.:											
Feb. 15	.25	.47	.81	1.01	1.18	1.23	1.29	1.36	1.42	1.46	1.47
May 21	.37	.53	.62	.63	.63	.63	.63	.63	.63	.63	.63
June 6	.31	.59	1.03	1.31	1.45	1.56	1.60	1.73	1.93	1.95	1.95
June 20	.51	.87	1.31	1.39	1.40	1.40	1.40	1.40	1.40	1.40	1.40
Aug. 4	.31	.51	.79	1.08	1.21	1.23	1.25	1.25	1.25	1.25	1.30
Sept. 18	.40	.69	.88	.90	.91	.92	.92	.92	.92	.92	.92
Miami, Fla.:											
May 28	.52	.88	1.64	2.18	2.89	3.17	3.36	3.58	3.91	4.03	4.31
June 14	.33	.56	.91	1.20	1.57	1.76	1.84	1.97	2.13	2.45	2.89
June 21	.39	.66	.97	1.04	1.10	1.13	1.15	1.18	1.18	1.19	1.19
June 25	.25	.48	.84	1.12	1.52	1.80	1.95	1.99	2.00	2.02	2.16
June 30	.32	.53	.71	1.01	1.35	1.48	1.61	1.62	1.65	1.66	1.69
July 4	.36	.59	.69	.75	.75	.75	.75	.75	.75	.75	.75
July 13	.27	.45	.70	.96	1.05	1.07	1.08	1.11	1.19	1.29	1.34
Aug. 4	.38	.59	.84	.85	.93	.94	1.19	1.57	1.65	1.68	1.79
Aug. 5	.54	.95	1.20	1.33	1.35	1.39	1.45	1.46	1.47	1.48	1.49
Aug. 13	.39	.50	.50	.51	.51	.51	.51	.51	.51	.51	.51
Aug. 16	.41	.76	1.18	1.57	1.65	1.66	1.66	1.66	1.66	1.66	1.66
Sept. 20-21	.28	.51	.83	.87	.88	.88	.88	.88	.88	1.19	1.20
Oct. 2	.40	.70	1.18	1.59	2.24	2.69	2.97	2.99	3.01	3.01	3.01
Oct. 13	.44	.66	.98	1.08	1.25	1.38	1.56	1.60	1.64	1.68	1.72
Tampa, Fla.:											
Mar. 10	.50	.56	.57	.58	.58	.59	.59	.59	.59	.59	.59
July 4 (2)	----	----	----	----	----	2.25	----	----	3.21	----	3.44
July 13	.22	.41	.72	.86	.90	.91	.91	.91	.91	.93	.93
Aug. 18	.28	.50	.82	.98	1.08	1.10	1.15	1.15	1.15	1.16	1.16
Aug. 30	.64	1.01	1.55	1.96	2.36	2.64	2.64	2.69	2.71	2.71	2.71
Sept. 4	.33	.47	.73	1.01	1.35	1.42	1.52	1.56	1.58	1.58	1.58
EAST GULF STATES											
Atlanta, Ga.:											
Aug. 10	.20	.40	.67	1.05	1.14	1.27	1.33	1.37	1.39	1.39	1.40
Sept. 29	.30	.55	.94	1.25	1.41	1.75	2.53	2.89	3.17	3.73	3.98
Macon, Ga.:											
Apr. 2	.34	.55	.86	.96	1.09	1.16	1.27	1.34	1.37	1.45	1.47
July 16 (2)	.31	.58	.96	1.00	----	2.10	----	----	3.50	----	4.55
Aug. 9	.43	.65	.94	1.00	1.05	1.12	1.19	1.32	1.40	1.49	1.52
Aug. 10	.25	.42	.77	.85	.95	.96	.98	1.03	1.05	1.07	1.09

Stations and dates	Maximum amounts of precipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
EAST GULF STATES—continued											
Apalachicola, Fla.[1]											
Pensacola, Fla.:											
Jan. 1	0.29	0.51	0.81	1.08	1.30	1.41	1.60	1.63	2.00	2.28	2.46
Jan. 8	.41	.69	1.02	1.15	1.51	1.66	1.83	1.94	2.06	2.10	2.16
Apr. 2	.41	.58	.76	.79	1.13	1.30	1.31	1.31	1.33	1.39	1.39
May 19	.42	.79	1.22	1.65	1.97	2.06	2.08	2.08	2.08	2.08	2.08
July 20	.50	.87	1.20	1.31	1.35	1.45	1.51	1.55	1.61	1.69	1.70
Aug. 2	.34	.63	1.02	1.24	1.33	1.34	1.38	1.40	1.42	1.42	1.42
Sept. 24	.29	.54	.59	.59	.59	.59	.59	.59	.59	.69	.70
Oct. 7	.45	.68	1.12	1.35	1.80	2.24	2.46	2.48	2.65	2.98	3.20
Birmingham, Ala.:											
July 22	.28	.52	.67	.78	.82	1.11	1.53	1.64	1.74	1.79	1.80
Aug. 17	.34	.62	.72	.75	.77	.78	.78	.78	.78	.78	.78
Sept. 23	.38	.70	.85	.86	.86	.87	.87	.87	.87	.87	.87
Dec. 6	.34	.52	.66	.85	.90	.92	1.16	1.22	1.25	1.25	1.28
Mobile, Ala.:											
Jan. 2	.31	.50	.92	1.25	1.73	2.06	2.70	2.93	3.28	3.59	3.75
Apr. 9	.37	.62	.75	.76	.76	.76	.79	.80	.80	.80	.80
Apr. 28	.29	.51	.84	.97	1.09	1.13	1.19	1.24	1.24	1.25	1.25
June 10	.44	.70	1.02	1.13	1.16	1.16	1.17	1.17	1.17	1.17	1.17
July 8	.38	.72	1.20	1.24	1.28	1.29	1.30	1.30	1.30	1.30	1.30
Aug. 23	.44	.60	.64	.65	.65	.75	1.00	1.11	1.35	1.55	1.56
Sept. 12	.27	.50	.71	.79	.87	.89	.89	.89	.89	.89	.89
Montgomery, Ala.:											
June 9	.40	.70	1.02	1.04	1.05	1.06	1.06	1.06	1.06	1.06	1.06
June 11	.31	.50	.88	1.17	1.38	1.41	1.41	1.42	1.42	1.42	1.43
June 22	.26	.49	.72	.86	1.01	1.14	1.15	1.17	1.17	1.18	1.19
July 4	.28	.47	.75	.83	.89	.92	.92	.92	.92	.92	.92
July 17	.43	.72	1.06	1.11	1.15	1.16	1.16	1.18	1.20	1.28	1.31
Oct. 8	.32	.60	1.10	1.38	1.70	1.82	1.83	1.83	1.84	1.84	1.84
Meridian, Miss.:											
Feb. 3	.41	.66	.90	1.19	1.35	1.96	2.29	2.98	3.43	4.11	4.31
Apr. 28	.41	.57	.65	.76	.84	.88	.93	.95	.98	1.00	1.02
Apr. 29	.22	.32	.63	.90	1.00	1.06	1.12	1.15	1.16	1.18	1.21
June 3	.37	.64	.83	.83	.84	.84	.95	.97	.98	.99	1.00
July 11	.30	.54	.85	1.03	1.16	1.19	1.19	1.19	1.20	1.20	1.20
July 18	.39	.68	.78	1.14	1.31	1.39	1.40	1.40	1.46	1.50	1.50
July 20	.26	.54	.75	.77	.77	.77	.77	.77	.77	.79	.80
Vicksburg, Miss.:											
Apr. 29	.38	.44	.75	1.01	1.25	1.65	2.15	2.27	2.33	2.51	2.52
May 18	.22	.38	.68	.90	1.11	1.26	1.33	1.35	1.36	1.38	1.38
July 1	.23	.46	.81	.92	.93	.93	.93	.97	.98	.98	.98
July 13	.30	.49	.82	1.09	1.23	1.24	1.24	1.24	1.24	1.24	1.24
July 22	.43	.74	.97	1.02	1.11	1.12	1.13	1.15	1.65	1.68	1.71
New Orleans, La.:											
Apr. 28	.32	.53	.76	.87	.91	.96	1.02	1.06	1.14	1.29	1.31
May 17	.36	.52	.66	.68	.70	.74	.77	.78	.80	.95	1.08
July 24	.42	.78	1.38	1.95	2.18	2.19	2.19	2.20	2.20	2.20	2.20
Aug. 29	.35	.56	.66	.68	.68	.68	.68	.68	.68	.76	.76
Aug. 30	.40	.59	1.05	1.36	1.37	1.38	1.56	1.82	1.84	1.98	2.01
Sept. 15	.50	.80	1.08	1.17	1.43	1.48	1.48	1.49	1.49	1.49	1.78
Oct. 5	.19	.35	.63	.91	1.07	1.21	1.32	1.40	1.45	1.52	1.55
WEST GULF STATES											
Shreveport, La.:											
May 10	.56	.84	.88	.93	1.06	1.10	1.11	1.11	1.12	1.12	1.14
Oct. 25	.41	.70	1.03	1.18	1.29	1.31	1.37	1.38	1.38	1.38	1.38
Fort Smith, Ark.:											
Sept. 26	.41	.71	1.01	1.03	1.04	1.06	1.07	1.08	1.11	1.33	1.36
Little Rock, Ark.:											
Apr. 5	.31	.49	.72	.78	.78	.80	.81	.81	.81	.81	.81
June 7	.30	.51	.91	1.05	1.10	1.14	1.42	1.48	1.57	1.61	1.62
July 21	.35	.64	1.15	1.47	2.19	2.38	2.42	2.44	2.46	2.50	2.51
Austin, Tex.:											
May 26	.39	.71	.76	.99	1.06	1.12	1.18	1.22	1.25	1.26	1.27
June 30	.27	.44	.64	.91	1.05	1.11	1.21	1.31	1.38	1.46	1.59
July 7	.32	.53	.70	.71	.71	.71	.71	.71	.71	.71	.71
July 16	.39	.58	1.08	1.48	2.01	2.23	2.70	3.46	3.74	4.00	4.22
July 22	.35	.65	.93	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.10
Aug. 30	.63	1.04	1.88	2.21	2.29	2.35	2.38	2.38	2.38	2.38	2.38
Brownsville, Tex.:											
Apr. 22	.43	.76	1.30	1.51	1.66	1.70	1.73	1.75	1.76	1.76	1.76
July 14	.33	.65	1.24	1.36	1.43	1.49	1.63	1.92	2.05	2.12	2.39
Aug. 30	.52	.94	1.33	1.54	1.64	1.65	1.74	1.77	1.77	1.80	1.81
Corpus Christi, Tex.:											
Aug. 28	.40	.73	.97	1.09	1.12	1.13	1.13	1.13	1.13	1.13	1.13
Dallas, Tex.:											
July 5	.46	.64	.67	.67	.67	.67	.86	.87	.91	.92	.92
July 20	.40	.70	1.16	1.37	1.49	1.58	1.61	1.63	1.64	1.64	1.64
Sept. 14	.33	.54	.55	.60	.68	.68	.69	.70	.70	.70	.70
Sept. 26	.32	.55	.86	.95	1.17	1.26	1.48	1.67	1.77	1.93	2.16
Fort Worth, Tex.:											
May 28	.37	.65	1.08	1.36	1.52	1.78	2.19	2.19	2.25	2.26	2.29

See footnotes at end of table.

TABLE 14.—*Maximum precipitation for stated intervals during 1936 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
WEST GULF STATES—continued											
Galveston, Tex.:											
Apr. 28	0.35	0.49	0.68	0.74	0.77	0.81	0.88	0.93	1.01	1.10	1.16
Dec. 10	.44	.75	1.07	1.25	1.38	1.46	1.50	1.56	1.63	1.73	1.78
Houston, Tex.:											
May 10	.24	.43	.62	.90	.98	1.21	1.63	1.98	2.02	2.11	2.13
May 24	.35	.53	.85	.92	1.00	1.03	1.08	1.30	1.41	1.59	1.68
Aug. 23	.38	.69	1.35	1.87	2.15	2.34	2.40	2.40	2.40	2.41	2.43
Dec. 30	.37	.56	.77	.87	.92	1.00	1.06	1.07	1.07	1.07	1.07
Palestine, Tex.:											
May 9–10	.20	.44	.79	.93	1.01	1.05	1.07	1.09	1.10	1.17	1.18
July 10	.40	.57	.62	.70	.73	.73	.86	1.16	1.24	1.25	1.25
July 13	.32	.54	.89	1.05	1.15	1.19	1.19	1.19	1.22	1.23	1.23
Port Arthur, Tex.:											
Jan. 14	.50	.66	1.04	1.18	1.39	1.42	1.42	1.42	1.42	1.43	1.43
May 18	.23	.43	.72	.85	.90	.90	.90	.90	.90	.90	.90
May 25	.43	.74	1.20	1.62	1.96	2.23	2.56	2.81	2.90	3.02	3.09
May 28	.38	.66	1.01	1.16	1.45	1.57	1.76	1.92	2.16	2.27	2.39
July 13	.50	.92	1.33	1.39	1.45	1.48	1.48	1.48	1.50	1.55	1.61
July 23	.33	.55	1.05	1.41	1.98	2.54	3.20	3.57	4.06	4.51	4.65
Aug. 31	.37	.65	1.04	1.35	1.50	1.58	1.61	1.62	1.62	1.62	1.62
Sept. 13	.42	.75	.98	1.01	1.08	1.11	1.11	1.12	1.12	1.12	1.19
Sept. 14	.40	.66	1.18	1.39	1.66	1.72	1.75	1.76	1.77	1.77	1.78
Sept. 20	.43	.69	.73	.74	.74	.74	.74	.74	.74	.74	.74
Dec. 30	.33	.54	.61	.61	.62	.62	.63	.73	.77	.78	.78
San Antonio, Tex.:											
Apr. 27–28	.23	.38	.67	.97	1.21	1.32	1.52	1.59	1.60	1.60	1.61
June 24	.23	.42	.83	1.06	1.09	1.09	1.09	1.19	1.19	1.21	1.21
July 15	.43	.66	.83	.84	.85	.85	.93	.95	.95	1.03	1.03
Sept. 27	.40	.78	1.12	1.16	1.17	1.17	1.17	1.17	1.17	1.17	1.17
OHIO VALLEY AND TENNESSEE											
Chattanooga, Tenn.:											
May 12	.33	.57	.86	1.10	1.28	1.30	1.39	1.42	1.43	1.45	1.45
July 15	.47	.84	1.27	1.46	1.60	1.67	1.75	1.80	1.89	2.02	2.05
July 17	.29	.46	.70	.72	.72	.72	.72	.72	.72	.72	.72
Aug. 10	.25	.43	.73	.98	1.41	1.66	1.72	1.72	1.72	1.72	1.72
Knoxville, Tenn.:											
Apr. 5–6	.27	.44	.74	.89	1.04	1.09	1.14	1.22	1.32	1.38	1.50
Memphis, Tenn.:											
May 11	.44	.58	.66	.66	.67	.75	1.13	1.13	1.13	1.13	1.13
Sept. 3	.35	.46	.71	1.03	1.50	2.09	2.47	2.59	2.69	2.86	3.07
Nashville, Tenn.:											
Mar. 26	.34	.48	.63	.91	1.19	1.38	1.77	1.87	2.22	2.43	2.50
July 15	.33	.61	1.15	1.60	1.99	2.04	2.18	2.29	2.32	2.32	2.32
Oct. 7	.40	.66	.80	.80	.80	.80	.80	.80	.80	.80	.80
Louisville, Ky.:											
Aug. 5	.13	.30	.37	.37	.52	.59	.72	.77	.77	.77	.77
Aug. 5	.24	.33	.36	.38	.39	.42	.43	.43	.43	.43	.43
Sept. 23	.23	.40	.52	.57	.72	.76	.94	.98	1.13	1.38	1.46
Oct. 6	.50	.70	.74	.74	.75	.75	.75	.75	.75	.84	.84
Dec. 30	.31	.35	.40	.44	.47	.50	.53	.57	.59	.64	.67
Evansville, Ind.:											
Apr. 5	.22	.42	.45	.50	.53	.54	.59	.61	.66	.69	.74
Sept. 23	.24	.33	.36	.40	.41	.46	.58	.59	.59	.59	.62
Oct. 6	.23	.34	.36	.43	.66	.67	.69	.70	.70	.70	.70
Oct. 9	.22	.30	.36	.60	.71	.73	.76	.79	.87	1.16	1.23
Nov. 2–3	.10	.17	.32	.44	.64	.85	1.10	1.24	1.39	1.60	1.72
Indianapolis, Ind.:											
June 2	.24	.44	.76	1.02	1.46	1.69	1.96	2.03	2.08	2.14	2.15
Aug. 25	.19	.29	.52	.78	.90	.95	.96	.96	.96	1.00	1.00
Aug. 27	.19	.32	.50	.60	.74	.77	.77	.77	.77	.77	.77
Terre Haute, Ind.:											
Feb. 25	.30	.37	.39	.40	.58	.77	.79	.81	.82	.83	.84
July 16	.31	.44	.47	.47	.48	.48	.48	.48	.48	.51	.52
July 25	.35	.65	1.18	1.37	1.92	2.36	2.70	2.72	2.74	2.83	2.86
Aug. 10	.21	.32	.39	.44	.49	.53	.56	.61	.62	.65	.65
Aug. 28	.35	.56	.71	.72	.72	.73	.73	.74	.74	.74	.74
Oct. 6	.32	.55	.68	.74	.76	.77	.78	.78	.78	.78	.78
Oct. 9	.35	.42	.43	.55	.69	.71	.73	.75	.75	.75	.75
Oct. 16	.36	.58	.70	.72	.73	.73	.73	.73	.73	.73	.73
Nov. 2	.23	.33	.55	.68	.83	1.07	1.28	1.43	1.57	1.79	1.89
Cincinnati, Ohio:											
Aug. 4	.51	.71	1.07	1.13	1.38	1.40	1.58	1.64	1.75	1.99	2.02
Aug. 16	.24	.35	.40	.40	.41	.41	.43	.43	.43	.43	.44
Sept. 2	.16	.31	.45	.67	.84	.89	.95	1.03	1.04	1.07	1.11
Sept. 16	.25	.44	.58	.59	.59	.59	.59	.59	.59	.59	.59
Oct. 6	.19	.32	.62	.82	.98	1.02	1.05	1.09	1.09	1.09	1.09
Oct. 9	.27	.31	.39	.40	.40	.41	.42	.42	.42	.42	.42
Columbus, Ohio:											
May 13	.25	.27	.33	.46	.49	.49	.49	.49	.49	.49	.49
June 7	.21	.36	.42	.47	.49	.49	.49	.49	.49	.49	.49
June 10	.36	.58	.77	.91	.92	.93	.94	.94	.94	.94	.94
July 27	.21	.36	.37	.37	.43	.49	.49	.49	.53	.55	.56
Aug. 25	.46	.73	.82	.88	1.05	1.06	1.06	1.06	1.06	1.06	1.06
Aug. 28	.33	.55	.91	.98	1.01	1.02	1.05	1.10	1.13	1.31	1.32
OHIO VALLEY AND TENNESSEE—con.											
Dayton, Ohio:											
July 23	0.30	0.57	0.83	1.00	1.15	1.15	1.22	1.22	1.22	1.22	1.22
Aug. 14	.25	.34	.35	.39	.56	.58	.59	.60	.61	.63	.64
Aug. 28	.22	.35	.60	.63	.78	1.10	1.18	1.20	1.35	1.47	1.52
Oct. 6	.18	.25	.41	.49	.55	.60	.66	.68	.70	.70	.70
Elkins, W. Va.:											
Mar. 24	.17	.31	.45	.47	.57	.64	.75	.80	.81	.82	.82
May 4	.38	.53	.54	.54	.54	.54	.54	.54	.54	.56	.58
May 14	.23	.31	.35	.38	.40	.44	.45	.49	.52	.53	.54
May 28	.23	.37	.47	.47	.47	.47	.47	.47	.65	.75	.76
June 30	.33	.52	.64	.92	.92	.92	.92	1.12	1.39	1.40	1.40
July 1	.17	.32	.47	.57	.94	1.06	1.10	1.11	1.11	1.11	1.13
July 5	.49	.82	1.07	1.16	1.31	1.34	1.34	1.35	1.68	1.98	2.14
July 27	.32	.48	.52	.53	.53	.53	.53	.53	.53	.53	.53
July 29	.21	.34	.44	.51	.53	.56	.58	.59	.59	.60	.60
Parkersburg, W. Va.:											
May 11	.21	.27	.37	.39	.40	.40	.40	.40	.40	.40	.40
May 13	.28	.38	.40	.42	.44	.44	.44	.44	.44	.44	.44
June 7	.31	.35	.35	.35	.35	.35	.35	.35	.35	.35	.35
June 30	.22	.26	.43	.44	.45	.45	.70	.72	.72	.72	.72
Aug. 13	.45	.60	1.05	1.09	1.09	1.09	1.10	1.10	1.10	1.10	1.10
Sept. 8	.20	.32	.48	.49	.49	.49	.50	.50	.50	.50	.50
Pittsburgh, Pa.:											
July 24	.15	.24	.36	.45	.71	.80	.80	.80	.81	.81	.81
July 27	.38	.70	.94	.94	1.06	1.10	1.11	1.11	1.11	1.11	1.11
Aug. 5	.22	.35	.50	.69	.74	.75	.75	.84	.99	1.02	1.04
Aug. 29	.33	.44	.51	.52	.53	.59	.68	.76	.82	.94	1.14
Sept. 12	.37	.38	.38	.38	.38	.38	.38	.38	.38	.38	.38
Sept. 13	.14	.27	.38	.50	.59	.80	.83	.83	.83	.83	.83
Sept. 29	.13	.23	.42	.53	.76	.89	1.07	1.27	1.42	1.62	1.87
Oct. 10	.18	.33	.35	.35	.35	.48	.48	.48	.48	.48	.57
LOWER LAKE REGION											
Buffalo, N. Y.:											
Aug. 19	.25	.37	.52	.61	.62	.62	.63	.64	.64	.64	.65
Aug. 22	.18	.21	.39	.40	.40	.40	.40	.40	.40	.40	.40
Canton, N. Y.:											
June 18	.25	.46	.90	1.09	1.25	1.34	1.48	1.59	1.67	1.73	1.74
July 3	.37	.71	1.16	1.55	2.14	2.34	2.35	2.42	2.42	2.44	2.44
July 25	.38	.51	.58	.62	.65	.73	.78	.87	.95	1.06	1.17
Aug. 23	.24	.27	.49	.55	.61	.71	.72	1.17	1.21	1.22	1.23
Ithaca, N. Y.:											
July 3	.22	.38	.51	.56	.61	.62	.84	.86	.89	.92	.92
Aug. 21	.27	.38	.54	.61	.64	.66	.67	.67	.67	.67	.67
Oswego, N. Y.:											
May 13	.19	.34	.36	.39	.40	.45	.46	.46	.47	.47	.47
July 3	.23	.43	.58	.58	.58	.58	.58	.58	.58	.58	.58
Aug. 10	.39	.49	.72	.74	.84	.85	.85	.86	.86	.86	.86
Aug. 23	.20	.37	.50	.60	.75	.76	.76	.76	.76	.76	.76
Sept. 24	.26	.39	.47	.56	.62	.71	.80	.89	1.01	1.13	1.21
Rochester, N. Y.:											
May 2	.36	.42	.58	.68	.73	.74	.74	.74	.74	.74	.74
June 18	.32	.63	.97	1.20	1.22	1.22	1.23	1.32	1.33	1.34	1.34
July 24	.21	.31	.43	.45	.46	.48	.49	.49	.51	.53	.53
Sept. 24	.14	.24	.44	.57	.66	.84	1.02	1.21	1.31	1.34	1.39
Erie, Pa.:											
Nov. 2	.25	.34	.45	.50	.50	.56	.71	.76	.80	.82	.82
Cleveland, Ohio:											
May 2	.23	.36	.39	.40	.45	.49	.51	.52	.54	.68	.73
May 27	.28	.38	.46	.48	.48	.48	.48	.48	.48	.48	.48
June 7	.25	.33	.35	.35	.35	.35	.35	.35	.35	.35	.35
June 10	.20	.30	.43	.45	.51	.52	.52	.52	.52	.52	.52
July 23	.22	.43	.73	.83	.94	1.03	1.07	1.10	1.11	1.14	1.16
Oct. 6	.18	.32	.36	.38	.41	.42	.43	.45	.45	.45	.45
Sandusky, Ohio:											
July 4	.45	.54	.64	.64	.64	.64	.64	.65	.65	.68	.68
July 23–24	.21	.32	.54	.62	.68	.81	.94	1.04	1.06	1.06	1.21
Nov. 2	.23	.33	.39	.43	.44	.44	.44	.45	.46	.51	.55
Toledo, Ohio:											
June 6–7	.17	.32	.46	.48	.50	.55	.60	.62	.62	.63	.63
July 23	.31	.47	.73	.81	.91	1.08	1.58	1.61	1.64	1.70	1.71
Sept. 13–14	.41	.60	.75	.83	1.10	1.13	1.32	1.41	1.43	1.43	1.49
Oct. 6	.17	.31	.37	.38	.38	.39	.39	.40	.40	.40	.40
Fort Wayne, Ind.:											
June 2	.28	.29	.31	.33	.34	.34	.34	.34	.34	.34	.34
June 29	.21	.37	.39	.43	.45	.47	.52	.52	.52	.55	.57
July 23	.23	.36	.52	.62	.70	.81	1.06	1.33	1.49	1.50	1.50
Aug. 20	.32	.59	.88	.94	.96	1.01	1.07	1.12	1.16	1.19	1.20
Aug. 23	.27	.37	.38	.39	.39	.39	.39	.39	.42	.45	.46
Sept. 13	.28	.50	.64	.66	.69	.72	.76	.78	.80	.80	.80
Nov. 1	.41	.46	.46	.47	.47	.47	.47	.47	.48	.48	.48

See footnotes at end of table.

TABLE 14.—*Maximum precipitation for stated intervals during 1936 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of precipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
LOWER LAKE REGION—continued											
Detroit, Mich.:											
Apr. 28	0.24	0.40	0.45	0.54	0.79	0.96	1.10	1.21	1.29	1.34	1.34
May 2	.13	.27	.41	.47	.49	.52	.56	.57	.58	.58	.58
June 1	.16	.33	.45	.46	.47	.47	.48	.52	.53	.62	.71
Sept. 7–8	.28	.43	.71	.86	1.07	1.07	1.08	1.08	1.08	1.20	1.55
Sept. 30	.13	.22	.37	.50	.60	.67	.79	.89	1.00	1.08	1.20
UPPER LAKE REGION											
Alpena, Mich.:											
May 1	.24	.35	.44	.51	.51	.56	.63	.71	.77	.84	.86
July 23	.26	.29	.30	.31	.32	.32	.32	.32	.33	.34	.34
Escanaba, Mich.:											
Sept. 6	.30	.51	.85	.97	1.04	1.12	1.23	1.29	1.31	1.31	1.31
Grand Rapids, Mich.:											
June 2	.14	.25	.41	.56	.57	.57	.59	.59	.65	.69	.72
Aug. 28	.21	.30	.39	.47	.56	.59	.65	.69	.75	.78	.78
Sept. 11	.45	.69	.73	.78	.83	.84	.85	.96	1.22	1.33	1.37
Sept. 23	.45	.80	.95	1.02	1.06	1.08	1.08	1.10	1.11	1.11	1.11
Lansing, Mich.:											
Apr. 29	.30	.44	.65	.65	.65	.65	.65	.65	.65	.65	.65
June 1–2	.16	.21	.36	.50	.77	.84	.91	.97	1.02	1.03	1.04
Aug. 22	.21	.25	.42	.56	.57	.59	.59	.59	.60	.62	.66
Sept. 7	.35	.54	.75	1.00	1.08	1.09	1.10	1.10	1.10	1.10	1.10
Sept. 11	.42	.57	.67	.84	.98	1.04	1.08	1.11	1.17	1.22	1.22
Sept. 23–24	.18	.30	.39	.45	.52	.56	.59	.60	.60	.62	.62
Marquette, Mich.:											
May 7	.28	.43	.48	.64	.72	.72	.73	.74	.79	.87	.87
May 12	.30	.44	.49	.49	.50	.51	.51	.51	.51	.51	.51
May 22	.22	.32	.48	.55	.82	.86	.91	.94	.95	.95	.95
June 17	.21	.33	.42	.47	.49	.50	.50	.50	.50	.50	.50
Sept. 10	.16	.26	.45	.61	.64	.66	.67	.71	.72	.72	.72
Sault Ste. Marie, Mich.:											
Aug. 22	.14	.20	.38	.51	.58	.63	.68	.72	.73	.73	.73
Sept. 11	.34	.55	.73	.95	1.07	1.17	1.18	1.26	1.35	1.40	1.87
Chicago University, Ill.:											
May 1	.21	.38	.55	.63	.65	.67	.69	.72	.72	.74	.75
June 29	.18	.32	.38	.39	.39	.40	.40	.41	.41	.41	.41
Aug. 16	.33	.46	.46	.46	.46	.47	.48	.49	.49	.49	.49
Sept. 11	.24	.40	.66	.86	.94	.95	.98	1.04	1.09	1.17	1.21
Sept. 13	.61	1.11	1.45	1.81	2.04	2.15	2.20	2.26	2.36	2.39	2.39
Sept. 15	.29	.38	.43	.44	.48	.57	.80	.84	1.02	1.15	1.21
Oct. 9	.35	.54	.68	.73	.82	.84	1.06	1.08	1.21	1.21	1.22
Green Bay, Wis.:											
July 15	.20	.30	.42	.44	.45	.47	.52	.53	.56	.56	.57
Milwaukee, Wis.:											
May 10	.41	.58	.72	.73	.75	.77	.78	.78	.78	.78	.79
May 17	.24	.32	.36	.37	.39	.68	.75	.80	.81	.84	.86
May 31	.26	.36	.46	.60	.66	.67	.67	.67	.68	.68	.74
Aug. 19	.26	.40	.69	.74	.77	.80	.83	.84	.85	.85	.85
Aug. 25	.32	.51	.61	.66	.70	.70	.75	.76	.76	.90	1.05
Aug. 28	.25	.46	.63	.89	1.00	1.10	1.20	1.30	1.35	1.40	1.41
Sept. 15	.26	.31	.39	.62	.73	.77	.90	.96	.96	1.12	1.28
Duluth, Minn.:											
Aug. 24	.25	.30	.30	.30	.30	.30	.30	.30	.30	.30	.30
Bismarck, N. Dak.:											
Sept. 5	.32	.55	.81	.84	.85	.85	.85	.85	.85	.85	.85
Sept. 13	.17	.23	.46	.49	.49	.49	.49	.49	.49	.49	.49
Devils Lake, N. Dak.:											
June 7	.35	.52	.75	.82	.85	.89	.93	.95	.95	.96	.99
July 8	.60	.89	1.02	1.03	1.03	1.03	1.03	1.03	1.26	1.46	1.48
Aug. 21	.27	.49	.64	.74	.83	.93	.95	.96	.96	.96	.96
Sept. 4	.18	.34	.63	.91	1.07	1.22	1.28	1.35	1.38	1.40	1.41
Williston, N. Dak.:											
June 6–7	.14	.25	.46	.57	.64	.74	.86	.91	.94	.97	.97
UPPER MISSISSIPPI VALLEY											
Minneapolis, Minn.:											
May 22	.19	.26	.35	.55	.69	.72	.73	.77	.78	.91	.96
June 16	.19	.34	.39	.39	.39	.39	.40	.40	.40	.40	.40
Aug. 15	.25	.31	.36	.37	.37	.38	.40	.41	.44	.44	.44
Aug. 21	.41	.61	.83	.92	.92	.92	.95	.95	.95	.95	.95
Aug. 21	.23	.31	.35	.38	.39	.40	.40	.40	.40	.40	.40
La Crosse, Wis.:											
Apr. 30	.20	.26	.43	.65	.84	1.04	1.17	1.20	1.24	1.30	1.32
May 6	.15	.24	.43	.55	.57	.58	.58	.58	.58	.58	.60
May 22	.23	.34	.36	.37	.40	.56	.71	.74	.75	.83	.91
July 18	.20	.33	.39	.51	.53	.55	.55	.55	.55	.55	.55
July 22	.27	.40	.53	.54	.55	.56	.56	.56	.57	.65	.65
Aug. 27	.24	.40	.69	.85	1.01	1.19	1.38	1.44	1.53	1.59	1.61
Sept. 15	.08	.13	.36	.64	.75	.80	.82	.84	.88	.88	.88
Sept. 20	.06	.15	.33	.57	.61	.61	.61	.61	.61	.61	.61
UPPER MISSISSIPPI VALLEY—continued											
Madison, Wis.:											
Aug. 21	0.15	0.23	0.43	0.62	0.82	0.94	1.01	1.06	1.11	1.13	1.32
Aug. 28	.22	.36	.59	.65	.85	.88	1.01	1.17	1.26	1.35	1.48
Sept. 6	.26	.40	.42	.45	.48	.49	.50	.50	.50	.50	.50
Sept. 15	.21	.33	.40	.44	.49	.50	.55	.56	.57	.64	.64
Charles City, Iowa:											
Mar. 23	.16	.25	.45	.62	.85	.93	1.31	1.44	1.46	1.46	1.46
Apr. 30	.31	.40	.56	.81	.97	1.19	1.39	1.43	1.47	1.48	1.50
Aug. 20	.28	.49	.76	.97	1.07	1.11	1.38	1.69	1.76	1.78	1.83
Aug. 27	.22	.35	.58	.67	.74	.84	1.03	1.09	1.13	1.21	1.41
Sept. 5	.18	.28	.45	.55	.62	.69	.77	.86	.92	1.01	1.05
Sept. 10	.33	.54	.76	.80	.88	.90	.91	.92	.93	.98	1.08
Nov. 1	.36	.50	.56	.56	.56	.58	.59	.61	.61	.61	.62
Davenport, Iowa:											
June 1	.33	.35	.36	.36	.36	.45	.48	.48	.48	.49	.49
Aug. 19	.22	.31	.42	.46	.49	.54	.60	.63	.66	.67	.67
Aug. 23	.23	.30	.36	.40	.43	.44	.47	.47	.47	.47	.47
Aug. 27	.13	.24	.43	.55	.67	.68	.68	.68	.68	.68	.68
Sept. 12	.22	.37	.50	.54	.57	.62	.67	.68	.78	1.04	1.09
Sept. 16	.19	.29	.51	.72	.97	1.04	1.12	1.19	1.25	1.32	1.33
Nov. 2	.18	.34	.54	.71	.90	.97	1.03	1.11	1.19	1.26	1.27
Des Moines, Iowa:											
June 5–6	.16	.24	.41	.54	.64	.67	.74	.86	.94	1.00	1.05
June 9	.28	.41	.53	.57	.59	.63	.81	.88	.91	.94	.94
June 22	.21	.33	.35	.37	.38	.49	.52	.52	.61	.64	.65
Dubuque, Iowa:											
June 9	.19	.31	.44	.56	.61	.62	.65	.84	.96	.97	1.01
Aug. 27–28	.36	.56	1.09	1.39	1.69	1.70	1.71	1.71	1.71	1.73	1.73
Keokuk, Iowa:											
May 1	.24	.44	.52	.56	.57	.58	.59	.61	.63	.64	.64
May 10	.29	.38	.40	.40	.40	.40	.40	.40	.40	.40	.40
Cairo, Ill.:											
Apr. 5	.20	.32	.40	.68	.76	.89	1.08	1.15	1.19	1.32	1.38
May 12	.33	.52	.71	.79	.83	.83	.84	.84	.84	.84	.84
June 30	.30	.35	.36	.37	.42	.60	.62	.69	.71	.74	.76
July 8	.19	.30	.46	.48	.50	.50	.51	.51	.51	.52	.52
Sept. 1	.20	.36	.57	.78	.99	1.15	1.20	1.21	1.25	1.30	1.36
Nov. 2	.27	.43	.77	1.02	1.24	1.39	1.55	1.63	1.68	1.78	1.88
Dec. 30	.23	.38	.51	.58	.70	.74	.78	.84	.90	1.04	1.13
Peoria, Ill.:											
Aug. 9	.31	.42	.49	.52	.52	.54	.54	.54	.54	.54	.56
Sept. 11	.16	.28	.39	.60	.68	.83	.99	.99	.99	1.00	1.00
Sept. 15	.42	.65	.75	.77	.93	1.03	1.08	1.29	1.31	1.32	1.33
Sept. 23	.28	.49	.86	1.06	1.30	1.41	1.43	1.44	1.44	1.44	1.44
Sept. 27	.23	.33	.47	.70	.93	1.07	1.15	1.16	1.19	1.36	1.46
Oct. 9	.23	.39	.51	.56	.97	1.07	1.19	1.31	1.37	1.44	1.46
Springfield, Ill.:											
Mar. 23	.23	.40	.72	.88	1.09	1.33	1.68	1.96	2.08	2.09	2.11
July 15	.20	.30	.55	.71	.79	.79	.79	.79	.81	.80	.84
Aug. 15	.36	.49	.51	.51	.52	.53	.53	.53	.53	.53	.53
Oct. 9	.28	.37	.44	.45	.49	.51	.53	.53	.53	.60	.65
St. Louis, Mo.:											
June 2	.22	.40	.46	.56	.58	.59	.59	.59	.59	.59	.59
June 10	.30	.45	.54	.59	.75	.77	.77	.77	.77	.77	.77
June 30	.29	.40	.69	.74	.82	.83	.90	.93	.94	.94	.94
Aug. 15	.25	.33	.45	.47	.47	.47	.47	.47	.47	.47	.47
Sept. 1	.17	.30	.46	.56	.85	1.06	1.34	1.52	1.75	1.84	1.92
Oct. 6	.27	.36	.53	.63	.70	.70	.71	.72	.72	.73	.73
MISSOURI VALLEY											
Columbia, Mo.:											
Mar. 23	.31	.56	.81	.99	1.19	1.36	1.39	1.39	1.40	1.40	1.41
May 10	.30	.41	.43	.48	.49	.51	.51	.52	.52	.52	.52
May 18	.18	.35	.38	.46	.47	.48	.51	.53	.57	.64	.65
May 24	.32	.46	.49	.49	.49	.49	.49	.49	.49	.49	.49
Sept. 1	.24	.30	.36	.38	.43	.45	.47	.50	.52	.52	.87
Sept. 15	.30	.59	.83	.84	.84	.84	.84	.84	.88	.88	.78
Sept. 23	.13	.26	.40	.52	.56	.57	.62	.67	.70	.70	.83
Kansas City, Mo.:											
May 23	.17	.25	.44	.51	.53	.55	.56	.56	.56	.56	.56
Sept. 1	.19	.33	.44	.53	.58	.59	.74	.81	.86	.96	.97
Sept. 4	.27	.43	.56	.58	.68	.93	.95	.95	.96	.96	.96
Sept. 12	.24	.38	.48	.53	.54	.55	.56	.58	.60	.63	.64
St. Joseph, Mo.:											
May 23	.30	.38	.39	.39	.39	.39	.40	.43	.44	.45	.45
June 5	.20	.36	.64	.79	.85	1.09	1.34	1.65	1.99	2.31	2.35
Sept. 4	.21	.31	.35	.42	.59	.60	.60	.60	.60	.60	.60
Sept. 16	.15	.28	.47	.58	.68	.80	1.02	1.19	1.31	1.47	1.57
Dec. 30	.23	.32	.37	.41	.46	.47	.51	.58	.59	.59	.59
Springfield, Mo.:											
Mar. 23	.39	.69	.72	.74	.74	.74	.74	.74	.74	.74	.74
June 30–July 1	.20	.33	.57	.61	.62	.66	.69	.69	.69	.69	.69
July 16	.22	.33	.41	.42	.42	.42	.42	.42	.42	.42	.42
Nov. 2	.36	.40	.46	.55	.75	.80	.81	.85	1.00	1.03	1.07
Topeka, Kans.:											
Apr. 29	.29	.52	.73	.81	.99	1.02	1.05	1.22	1.25	1.28	1.28
June 5	.16	.23	.35	.48	.73	.80	.84	.84	.84	.84	.84
July 27	.14	.22	.42	.52	.58	.81	.91	.94	.96	1.05	1.07
Sept. 12	.18	.31	.52	.62	.67	.67	.69	.70	.70	.77	.79

See footnotes at end of table.

TABLE 14.—*Maximum precipitation for stated intervals during 1936 at all stations furnished with self-registering gages*—Continued

Stations and dates	Maximum amounts of percipitation (in inches) (5 to 180 minutes)										
	5	10	20	30	45	60	80	100	120	150	180
MISSOURI VALLEY—continued											
Lincoln, Nebr.:											
Apr. 28	$35	0.50	0.66	0.70	0.80	0.85	0.93	0.97	0.98	0.98	0.98
June 10	.33	.47	.51	.51	.52	.52	.52	.52	.52	.52	.52
Sept. 4	.19	.27	.49	.50	.53	.56	.63	.74	.78	.83	.92
Sept. 26	.17	.29	.46	.54	.70	.76	.89	.90	.92	.93	.95
Omaha, Nebr.:											
May 17	1.00	1.49	2.10	2.32	2.34	2.62	2.62	2.62	2.62	2.62	2.62
June 1	.38	.59	.68	.72	.75	.97	.97	.97	.97	.97	.97
June 9	.60	.86	1.15	1.26	1.30	1.32	1.32	1.32	1.32	1.32	1.32
Aug. 21	.27	.38	.38	.41	.42	.42	.42	.42	.43	.53	.57
Oct. 4	.24	.46	.67	.77	.80	.80	.80	.80	.80	.80	.80
Valentine, Nebr.:											
Sept. 3	.28	.37	.38	.40	.40	.40	.40	.40	.40	.40	.40
Sioux City, Iowa:											
May 22	.22	.41	.61	.76	.94	.99	1.32	1.63	1.72	1.75	1.76
June 26	.53	.81	1.06	1.21	1.23	1.23	1.23	1.23	1.23	1.23	1.23
Sept. 6	.35	.55	.67	.74	.77	.77	.77	.77	.77	.77	.77
Huron, S. Dak.:											
June 8	.20	.30	.34	.36	.36	.37	.37	.37	.37	.37	.37
July 26	.22	.38	.50	.55	.61	.61	.62	.62	.63	.63	.63
NORTHERN SLOPE											
Cheyenne, Wyo.:											
May 22	.19	.31	.49	.55	.57	.58	.58	.58	.58	.59	.59
July 20	.30	.58	.78	.89	.89	.90	.90	.90	.90	.90	.90
Sept. 3	.52	.66	.70	.74	.83	.88	.90	.90	.91	.91	.91
MIDDLE SLOPE											
Denver, Colo.:											
Aug. 2	.22	.35	.58	.62	.69	.74	.78	.82	.87	.90	.91
Aug. 12	.31	.56	.89	.97	1.10	1.20	1.32	1.34	1.35	1.35	1.35
Pueblo, Colo.:											
May 27	.22	.35	.66	.85	1.14	1.30	1.45	1.54	1.59	1.64	1.66
Aug. 2	.29	.40	.51	.60	.63	.64	.64	.64	.65	.65	.65
Concordia, Kans.:											
Apr. 30–May 1	.41	.60	.69	.82	.83	.90	1.09	1.24	1.37	1.40	1.41
July 27	.13	.23	.35	.52	.64	.65	.65	.65	.66	.67	.70
Dodge City, Kans.:											
May 8	.36	.41	.42	.43	.44	.44	.44	.44	.47	.51	.53
May 23	.24	.32	.50	.73	.90	1.17	1.43	1.51	1.55	1.62	1.69
June 30–July 1	.25	.42	.64	.82	.99	1.00	1.01	1.01	1.01	1.01	1.01
Wichita, Kans.:											
Sept. 26	.18	.28	.42	.47	.50	.53	.55	.55	.55	.55	.57
Oklahoma City, Okla.:											
Feb. 25	.42	.54	.71	.74	.74	.74	.74	.74	.74	.74	.74
May 1	.38	.65	.80	.99	1.03	1.03	1.04	1.04	1.04	1.04	1.04
SOUTHERN SLOPE											
Abilene, Tex.:											
Apr. 15–16	.36	.62	1.05	1.28	1.45	1.49	1.51	1.56	1.61	1.74	1.88
May 7	.30	.51	.63	.77	.85	.89	.90	.97	1.03	1.07	1.13
Amarillo, Tex.:											
Sept. 4	.27	.41	.73	.96	1.44	1.76	2.10	2.48	2.51	2.51	2.51
Del Rio, Tex.:											
Apr. 26	.34	.64	.92	.98	.98	.98	.98	.98	.98	.98	.98
May 27–28	.30	.60	.98	1.13	1.13	1.13	1.13	1.13	1.13	1.13	1.13
June 29	.24	.46	.66	.84	1.09	1.23	1.44	1.54	1.59	1.62	1.77
SOUTHERN SLOPE—continued											
Roswell, N. Mex.:											
July 1	0.22	0.36	0.56	0.70	0.71	0.71	0.71	0.71	0.72	0.72	0.72
Sept. 21	.21	.28	.42	.54	.66	.67	.67	.89	1.06	1.07	1.07
SOUTHERN PLATEAU											
Santa Fe, N. Mex.:											
Sept. 7	.12	.23	.46	.55	.62	.68	.71	.73	.76	.76	.76
Phoenix, Ariz.:											
July 26	.43	.39	.53	.91	.95	.96	.96	.97	.98	.98	.98
July 25	.16	.31	.58	.76	.80	.81	.82	.82	.83	.88	.93
MIDDLE PLATEAU											
Modena, Utah:											
Aug. 1	.23	.34	.61	.75	.87	.93	1.00	1.01	1.01	1.01	1.01
Salt Lake City, Utah:											
June 24	.26	.31	.41	.46	.47	.48	.48	.48	.48	.48	.48
NORTHERN PLATEAU											
Pocatello, Idaho:											
July 31	.37	.64	.87	.94	.97	1.03	1.03	1.05	1.06	1.06	1.16
NORTH PACIFIC COAST REGION											
North Head, Wash.:											
June 27	.18	.28	.48	.57	.62	.65	.66	.66	.75	.84	.85
Roseburg, Oreg.:											
June 5	.17	.31	.40	.43	.45	.46	.46	.46	.46	.46	.46
MIDDLE PACIFIC COAST REGION											
Redding, Calif.:											
Apr. 23	.29	.42	.45	.46	.46	.46	.46	.46	.46	.46	.46
Apr. 29	.23	.40	.52	.52	.52	.52	.52	.52	.52	.52	.54
SOUTH PACIFIC COAST REGION											
San Diego, Calif.:											
Feb. 14	.23	.33	.54	.61	.66	.78	.79	.81	.81	.81	.81
Nov. 22	.26	.32	.33	.33	.33	.33	.34	.34	.34	.34	.34
ISLAND POSSESSIONS											
San Juan, P. R.:											
May 6	.41	.67	.89	.90	.90	.90	.90	.90	.94	.94	.94
May 25	.62	.96	1.70	1.95	2.21	2.27	2.27	2.27	2.27	2.28	2.28
July 2	.37	.64	.96	.97	.97	1.04	1.04	1.04	1.04	1.04	1.04
July 22	.27	.51	.67	.73	.82	.91	1.00	1.10	1.30	1.38	1.62
Aug. 10	.35	.60	1.01	1.25	1.28	1.29	1.30	1.30	1.32	1.33	1.36
Sept. 27	.32	.63	.99	1.04	1.07	1.08	1.36	1.42	1.45	1.50	1.55
Nov. 2	.29	.48	.77	.96	1.03	1.04	1.24	1.33	1.33	1.33	1.56
Honolulu, Hawaii:											
Jan. 16	.23	.37	.41	.68	.70	.70	.71	.79	.84	.84	.84
Mar. 18	.16	.26	.45	.48	.48	.49	.49	.49	.49	.49	.49
Oct. 22	.39	.69	1.07	1.21	1.32	1.38	1.83	2.41	2.56	2.59	2.59
Oct. 28	.31	.55	.83	.96	1.05	1.21	1.32	1.40	1.51	1.57	1.63
Oct. 30	.27	.49	.85	.91	.92	.92	.92	.92	.92	.92	.92

[1] No record.
[2] Estimated.

NOTE.—The following stations had no excessive precipitation during the year 1936: the lower Lake region, Syracuse, N. Y.; North Dakota section, Moorhead, Minn.; northern slope, Havre, Helena, Kalispell, and Miles City in Montana, Lander, Sheridan and Yellowstone Park in Wyoming, Rapid City, S. Dak. and North Platte, Nebr.; southern plateau, El Paso, Tex., Albuquerque, N. Mex.; middle plateau, Reno, Nev., Grand Junction, Colo.; northern plateau, Baker, Oreg., Boise, Idaho, and Spokane, Walla Walla, and Yakima in Washington; north Pacific coast region, Portland, Oreg., and Seattle and Tatoosh Island, Wash.; middle Pacific coast region, Eureka, Sacramento, and San Francisco in California; southern Pacific coast region, Fresno and Los Angeles in California; and in Alaska, Fairbanks, Juneau, and Nome.

Excessive precipitation data for the year 1931 and 1932 and for 1933 and 1934 appear respectively in the 1933–34 and 1934–35 issues of the Report of the Chief of the Weather Bureau.

MONTHLY AND ANNUAL EVAPORATION, 1936

The monthly and annual amounts of evaporation during the year 1936 appear in table below. The number of these reports at the present time is small, records appearing from less than half of the States.

The evaporation measurements are all made from cylindrical pans, 4 feet in diameter, 10 inches deep, placed on framework laid on the ground, and exposed as far as possible to full sunshine. A description of equipment and methods of observation appeared in the Monthly Weather Review of December 1916, pages 674 to 677.

TABLE 15.—*Monthly and annual evaporation at class A stations for 1936*

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
	In.	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*
ALABAMA													
Fairhope [1]	2.21	2.29	4.11	4.92	5.51	7.64	6.49	5.61	4.68	3.84	2.38	1.39	51.02
ALASKA													
Fairbanks						5.80	4.78	3.14	1.35				
Matanuska					4.86			2.97	1.97				
ARIZONA													
Lee's Ferry	1.89	2.93	6.47	9.14	11.95	13.72	13.56	11.36	9.03	5.42	2.86	1.85	90.18
Mesa	2.48	2.89	5.88	8.35	11.21	12.32	12.06	9.97	9.08	6.63	4.94	2.41	88.22
Roosevelt	1.72	2.41	4.56	6.38	8.79	11.32	10.75	8.71	6.62	4.64	2.61	1.40	69.91
University of Arizona (Tucson)	2.56	3.34	6.38	8.96	11.97	13.26	12.94	9.56	8.37	6.87	5.62	2.45	92.28
Yuma (citrus)	3.81	4.92	8.75	11.30	13.78	15.17	15.41	14.75	12.26	8.47	5.89	3.99	118.50
Yuma (valley)	3.62	4.75	8.06	10.54	13.20	14.17	13.39	12.08	9.86	6.71	5.14	3.53	105.05
CALIFORNIA													
Alvarado (near)	1.30	1.74	3.83	5.06	7.52	6.89	7.76	6.79	5.30	3.52	1.60	1.42	52.73
Chula Vista	2.78	2.80	4.95	5.68	7.59	7.57	7.79	7.68	6.30	4.58	3.93	2.99	64.73
Davis	1.76	1.49	5.13	5.80	8.95	8.39	11.11	10.20	8.61	5.56	2.76	1.76	71.52
Fall River Mills	1.06	1.45	4.18	5.39	7.56	8.59	12.20	10.75	6.67	4.79			
Lodi	1.26	1.43	3.71	5.26	9.27	10.31	12.48	11.62	8.51	4.79	2.01	.83	71.48
Mojave (Backus Ranch) [2]						18.50	19.46			8.67	5.23	3.50	
Oakdale (near)	.89	1.48	2.84	4.38	9.71	11.46	14.33	12.97	9.32	4.82	1.97	1.30	75.47
Tahoe					3.69	3.97	5.06	5.28	3.64	2.08			
GEORGIA													
Experiment [3]										3.94	2.87	1.78	
HAWAII													
Hoaeae (Upper)	4.01	4.57	4.90	5.40	5.38	6.21	7.11	6.78	4.87	5.02	3.69		
Pahala	3.96	4.67	5.16	4.76	6.79	6.44	6.67	6.84	4.94	4.54	4.69	5.68	65.14
IDAHO													
Aberdeen					7.89	7.67	8.71	8.05	5.85	3.62			
Arrowrock				4.59	8.05	6.98	12.02	10.56	6.95				
Lifton					8.35	8.90	9.82	8.85	6.23	3.02			
Milner Dam				6.01	7.66	6.72	8.95	7.72	5.91	3.56			
IOWA													
Ames				5.19	8.10	8.55	14.74	10.85	5.13	2.95			
KANSAS													
Tribune					9.03	12.46	14.96	12.45	8.98				
MISSOURI													
Lakeside			4.59	5.42	8.24	9.87	11.09	10.35	5.54	3.22	2.57	1.00	
MONTANA													
Agriculture College (Bozeman)					7.88	7.85	11.05	9.36	5.55	2.59			
Malta					10.91	10.06	13.03	8.94	6.80	4.04			
Sherburne Lake					8.32	7.32	12.10	8.48	5.89				
Valier					10.47	8.30	10.70	9.36	6.44				
NEBRASKA													
Bridgeport [4]					6.93	9.05	11.22	8.18	6.63				
Lincoln					7.64	10.74	16.93	12.94	7.66	5.08			
NEVADA													
Boulder City	4.56	4.73	9.46	13.24	17.82	20.04	18.37	15.62	13.98	8.06	5.93	3.53	135.34
Lamoille					8.08	7.34	8.64	8.01	6.64	3.75			
NEW MEXICO													
Agriculture College	3.59	5.26	9.07	10.85	13.31	15.33	12.60	10.43	7.29	5.63	3.65	2.56	99.57
Conchas Dam [5]												3.43	
Elephant Butte Dam	2.99	5.65	9.11	12.10	14.07	17.41	14.50	14.22	9.66	8.01	4.64	3.60	115.96
El Vado Dam [6]							8.90	7.89	6.18	3.68			
Navajo [7]								9.29	7.04	6.18			
Portales [8]	2.35		8.48	10.47	11.29	12.33	10.74	11.45	6.92	5.18	3.64		
Therma					8.22	10.32	8.01	6.79	5.27	3.85			

See footnotes at end of table.

TABLE 15.—*Monthly and annual evaporation at class A stations for 1936*—Continued

Station	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Annual
NEW YORK	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*
Albany					5.75	6.11	7.44	5.64	3.26	2.13			
Ithaca					5.22	6.40	7.54	6.16	4.62	3.22			
NORTH CAROLINA													
Chapel Hill	0.94		3.02	4.47	6.97	6.12	6.13	5.18	4.07	2.92	1.88	1.05	
OHIO													
Ohio State University				2.21	4.56	5.74	6.48	4.67	3.59	1.42			
Wooster					5.06	6.21	7.09	5.09	4.12	2.21			
OREGON													
Corvallis				3.48	3.96	4.73	6.83	6.62	4.09				
Fish Lake							6.30	6.32	3.61	2.74			
Warmspring Reservoir				6.24	8.94	9.10	12.26	11.27	6.52	4.45			
PENNSYLVANIA													
Wallenpaupack Dam					7.56	6.97	8.70	6.33	4.30	2.65			
PUERTO RICO													
San Juan	5.66	7.19	8.41	9.47	6.31	7.72	8.44	6.91	6.02	5.54	5.64	5.59	82.90
TEXAS													
Austin	2.30	2.64	5.60	6.45	5.53	8.93	7.83	8.09	5.67	3.80	2.44	1.96	61.24
Dilley	2.90	3.54	5.87	7.89	6.72	9.15	7.55	9.28	5.28	4.88	2.73	2.28	68.07
UTAH													
Myton					8.15	7.99	7.31	6.84	5.44				
Piute Dam					11.46	11.05	9.08	9.46	7.93				
Utah Lake			3.44	6.23	10.91	9.99	9.81	9.39	7.49	4.01			
VIRGIN ISLANDS													
St. Croix	6.60	6.22	6.27	6.76	6.23	6.07	6.29	6.51	6.29	5.55	5.04	5.49	73.32
WASHINGTON													
Kachess Lake								6.61		1.81			
Walla Walla			3.24	6.02	8.09	7.26	11.00	10.39	5.15	3.75			
WEST VIRGINIA													
Clarksburg				3.29	5.73	6.85	6.50	4.99	3.81	1.81			

[1] Observations taken at Silverhill prior to April 1934.
[2] Station opened May 1, 1936.
[3] Station opened Sept. 28, 1936.
[4] Became class A station May 1936.
[5] Station opened Nov. 25, 1936.
[6] Station opened June 15, 1936.
[7] Station opened July 14, 1936.
[8] Observations taken at Santa Fe, prior to March 1934.

MONTHLY AND ANNUAL METEOROLOGICAL SUMMARIES FOR 183 STATIONS FOR 1936

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 evelation. Each observation as made, therefore, is corrected by the application of the following:

(1) Correction of 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 deducted from the corrected observations of pressure at 8 a. m. and 8 p. m., seventy-fifth meridian time, by taking the mean thereof and applying thereto a correction to reduce to the mean of 24-hourly observations. At several Alaska stations and at Honolulu the mean is printed uncorrected. The extremes are determined, wherever possible, from the barograph trace.

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

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

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

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

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

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

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

By the maximum precipitation in 24 hours is meant the greatest measurement for any 24 consecutive hours; it does not refer to the rate of rainfall for 24 hours, as deduced from short, heavy showers.

The number of days with precipitation amounting to 0.01 and 0.04 inch, respectively, relates to the rainfall from midnight to midnight, standard of time in local use. No record is made of deposits of dew.

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

The cloudiness recorded in the summaries is derived from personal observations. The proportion of sky covered by clouds is estimated by the observer at 8 a. m., 8 p. m., and noon, on a scale of 0–10. These observations cannot be combined into a daily mean in the present state of our knowledge of the diurnal variations in cloudiness, and are therefore given separately. In order, however, to obtain a general record of the sunshine as affecting the growth of plants, the observer keeps some memoranda of the cloudiness, sufficient to enable him at the end of the day to determine the average cloudiness on the scale given above from sunrise to sunset; the resulting average for each month is given in the column of "daylight" cloudiness.

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

Wind.—The direction and velocity of the wind are recorded at nearly all the stations on what is known as the "triple register." On these instruments the direction of the wind is recorded every minute. The maximum velocities given are for 5-minute periods.

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

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

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

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

References and abbreviations.—H, official elevation of station=height of the ground above sea level at station; 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 (top) above ground; h_a=height of anemometer (cups) above ground.

44373—38——5

Blank page retained for pagination

ANNUAL METEOROLOGICAL SUMMARIES, 1936

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*

ABILENE, TEX.

[ϕ=32°27′ N.; λ=99°44′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.21	28.73	27.69	35.0	50.4	46.3	55.9	30.8	43.4	76	9	23	23	24	64	38	45	0.125	0.124	0.131	0.60	0.37	3.8	3.9	4.2	4.8	4.3
February	28.16	28.61	27.62	33.4	51.2	49.9	60.4	29.4	44.9	85	9	23	23	23	64	35	35	.145	.144	.132	.12	.09	T	5.6	5.0	3.7	5.1
March	28.09	28.46	27.63	49.8	68.8	67.9	74.5	47.8	61.2	86	38	31	30	30	52	28	28	.186	.187	.184	.94	.91	.0	4.8	3.8	4.8	4.6
April	28.19	28.56	27.76	53.5	72.2	71.6	77.9	50.2	64.0	95	28	39	38	36	61	32	30	.273	.256	.239	4.09	2.30	.0	4.3	3.1	2.7	3.3
May	28.15	28.41	27.77	65.0	79.6	78.0	84.3	62.9	73.6	93	54	59	58	56	82	50	51	.510	.490	.461	3.75	1.30	.0	6.5	6.0	5.3	5.6
June	28.11	28.30	27.72	72.7	90.5	91.3	95.6	71.1	83.4	105	63	62	60	57	69	38	33	.553	.534	.471	.01	.01	.0	3.0	2.4	2.4	2.6
July	28.16	28.38	27.97	73.3	91.4	90.1	96.5	71.7	84.1	108	65	66	62	60	78	39	40	.638	.559	.528	2.09	1.34	.0	2.4	3.5	3.2	3.1
August	28.17	28.35	27.95	74.1	94.9	93.6	99.8	73.7	86.8	110	60	60	57	55	62	30	28	.532	.476	.438	.12	.12	.0	1.5	2.9	1.8	2.0
September	28.15	28.36	27.83	68.9	81.9	78.7	85.7	67.6	76.6	100	46	63	62	61	83	56	59	.601	.582	.551	7.32	2.69	.0	5.7	6.2	5.2	5.6
October	28.26	28.64	27.95	53.1	68.6	64.2	72.8	51.4	62.1	91	35	46	49	50	80	53	62	.324	.361	.367	2.42	1.96	.0	4.3	3.2	3.2	3.6
November	28.40	28.73	27.91	43.2	58.0	53.2	61.5	39.7	50.6	82	26	36	36	37	77	47	57	.231	.230	.241	.62	.32	.0	4.9	5.0	5.0	5.0
December	28.26	28.57	27.77	42.6	56.6	52.5	60.2	39.7	50.0	73	29	35	36	37	76	50	57	.215	.229	.229	.77	.59	.0	5.5	4.3	3.4	4.3
Year	28.19	28.73	27.62	55.4	72.0	69.8	77.1	53.0	65.1	110	9	45	44	44	71	41	44	.361	.348	.331	22.85	2.69	3.8	4.4	4.1	3.8	4.1

ALBANY, N. Y.

[ϕ=42° 39′ N.; λ=73°45′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.88	30.46	29.10	20.2	25.4	24.7	30.1	17.0	23.6	45	−6	14	16	16	76	66	69	0.095	0.099	0.100	4.59	1.66	22.7	7.1	6.1	5.4	6.3
February	29.99	30.43	29.21	13.2	22.8	21.7	28.1	8.5	18.3	46	−12	6	10	13	73	57	67	.067	.076	.086	1.92	.61	11.2	5.0	5.7	4.8	5.5
March	29.80	30.32	28.97	37.2	44.7	44.4	51.4	33.2	42.3	73	6	32	34	34	81	69	66	.200	.222	.212	5.39	1.54	.3	6.9	6.1	7.0	6.7
April	29.90	30.40	29.28	41.9	47.8	46.8	52.7	37.4	45.0	78	28	35	37	36	78	67	66	.216	.229	.221	3.12	.76	T	7.6	7.2	6.9	7.5
May	29.90	30.57	29.44	57.1	67.4	64.6	73.4	50.8	62.1	91	34	46	46	48	67	49	57	.334	.343	.364	4.20	1.55	.0	4.7	4.7	4.1	5.0
June	29.80	30.21	29.39	65.0	73.9	71.4	78.9	59.5	69.2	89	49	54	52	55	68	49	59	.425	.411	.450	1.86	.95	.0	5.7	5.4	5.2	5.6
July	29.77	30.21	29.44	68.5	80.4	76.5	86.2	62.6	74.4	103	51	58	55	57	71	43	52	.498	.454	.477	1.94	.66	.0	3.6	4.1	4.5	4.5
August	29.90	30.27	29.59	66.3	76.2	74.0	81.6	61.3	71.4	97	53	58	58	59	76	55	62	.491	.487	.514	6.54	2.27	.0	5.1	3.7	5.4	4.8
September	30.00	30.37	29.49	58.5	68.0	65.0	72.7	54.2	63.4	87	37	53	54	55	83	64	72	.419	.453	.457	1.34	.35	.0	5.7	5.2	4.4	5.5
October	29.96	30.51	29.00	48.0	56.9	53.4	61.2	43.3	52.2	78	22	43	42	42	82	59	66	.295	.292	.296	3.99	1.61	T	6.1	5.3	4.0	5.4
November	29.93	30.59	29.25	33.2	39.3	38.0	45.3	29.0	37.2	72	8	25	25	25	70	56	59	.147	.153	.158	2.16	1.66	4.1	6.5	6.9	5.1	6.9
December	30.15	30.68	29.19	29.5	33.9	33.4	40.0	24.1	32.0	56	4	23	23	23	75	64	66	.134	.134	.134	2.90	.87	3.8	7.6	6.3	6.1	6.6
Year	29.91	30.68	28.97	44.9	53.1	51.2	58.5	40.1	49.3	103	−12	37	38	39	75	58	63	.277	.279	.289	39.95	2.27	42.1	6.0	5.6	5.2	5.9

ALBUQUERQUE, N. MEX.[1]

[ϕ=35°05′ N.; λ 106°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	25.03	25.30	24.62	22.9	39.2	36.7	46.2	19.1	32.6	64	10	19	21	21	83	48	53	0.101	0.110	0.112	0.55	0.31	6.8	3.7	4.5	3.7	4.6
February	24.94	25.25	24.54	29.7	47.7	47.2	54.3	25.5	39.9	66	13	22	21	20	71	36	35	.119	.117	.112	.12	.08	.3	3.8	5.5	4.2	5.3
March	24.95	25.27	24.42	33.9	57.7	57.2	63.9	30.3	47.1	73	16	20	19	18	57	22	24	.109	.103	.101	.11	.07	.1	3.0	3.8	3.7	3.8
April	25.03	25.32	24.72	40.8	66.2	66.3	72.5	38.4	55.4	85	18	26	24	21	56	22	21	.146	.132	.118	.09	.07	.7	3.2	4.0	5.2	4.4
May	25.02	25.29	24.59	51.6	75.9	74.6	81.1	48.9	65.0	90	37	39	36	33	64	26	25	.243	.222	.192	.27	.09	T	5.0	4.7	7.5	5.6
June	25.04	25.26	24.72	60.2	85.4	86.2	91.7	56.9	74.3	100	45	41	39	35	51	20	20	.274	.252	.224	.43	.29	.0	2.1	2.0	4.1	2.7
July	25.10	25.25	24.86	64.3	86.3	83.9	91.8	62.3	77.0	99	55	51	50	48	64	29	34	.382	.360	.351	.67	.35	.0	3.6	1.5	4.9	3.5
August	25.11	25.30	24.89	62.9	85.9	83.7	91.3	61.4	76.4	99	55	50	50	48	66	30	33	.375	.365	.348	.62	.46	.0	3.5	2.2	6.3	3.7
September	25.08	25.29	24.72	55.6	74.6	72.6	79.3	53.2	66.2	92	35	47	48	47	76	41	45	.336	.344	.333	2.05	1.23	T	3.7	4.2	4.2	4.2
October	25.11	25.34	24.79	43.9	64.1	61.7	69.5	41.0	55.2	80	34	37	37	37	76	39	43	.219	.225	.225	.17	.10	.0	3.6	3.6	3.5	3.9
November	25.21	25.46	24.70	29.5	52.5	46.5	58.5	25.4	42.0	71	17	20	22	22	65	30	36	.106	.117	.114	T	T	.0	2.2	2.2	1.9	2.1
December	25.07	25.37	24.59	24.8	44.2	39.0	49.6	20.7	35.2	60	11	20	25	23	81	47	52	.110	.137	.126	.13	.11	1.5	2.5	4.1	2.9	4.0
Year	25.06	25.46	24.42	43.3	65.0	63.0	70.8	40.3	55.5	100	10	33	33	31	68	32	35	.210	.207	.196	5.21	1.23	9.4	3.3	3.5	4.3	4.0

ALPENA, MICH.

[ϕ=45°04′ N.; λ=83°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.29	29.89	28.48	16.9	21.8	19.2	24.7	12.8	18.8	36	−5	14	16	15	86	76	81	0.088	0.096	0.093	1.99	0.61	23.7	9.2	7.2	7.7	8.0
February	29.33	29.76	28.29	5.3	15.2	12.8	20.3	−.4	10.0	49	−14	2	6	5	84	65	69	.053	.062	.060	2.00	.57	27.2	6.6	6.1	4.4	5.6
March	29.19	29.75	28.49	27.0	33.2	30.2	37.1	23.3	30.2	52	−7	23	23	24	82	66	76	.126	.126	.131	1.46	.36	10.3	6.6	6.1	6.9	6.6
April	29.34	29.89	28.85	32.9	39.8	35.1	43.3	28.4	35.8	75	10	28	29	28	80	66	75	.157	.167	.158	1.91	.49	13.0	6.6	6.9	6.4	6.7
May	29.36	29.93	28.72	52.6	58.0	55.2	65.6	43.8	54.7	91	32	43	43	44	71	61	68	.288	.289	.301	2.69	1.12	.0	4.8	4.8	4.1	4.7
June	29.29	29.65	28.61	58.0	64.9	60.4	68.8	48.9	58.8	88	39	48	48	49	70	57	69	.336	.341	.359	1.33	.55	.0	3.6	3.9	4.4	4.1
July	29.30	29.71	29.05	68.1	77.5	72.7	81.2	59.0	70.1	104	46	56	56	57	66	50	59	.453	.463	.479	1.02	.41	.0	2.4	2.7	2.3	2.8
August	29.35	29.64	28.92	63.2	71.5	66.4	74.9	56.6	65.8	93	47	56	56	56	78	64	71	.453	.451	.463	4.74	1.86	.0	5.6	4.9	4.3	5.3
September	29.40	29.81	28.95	56.1	65.4	60.3	68.3	50.4	59.4	93	32	52	54	53	85	67	78	.402	.431	.425	3.59	.87	.0	5.9	6.0	5.0	5.7
October	29.35	29.83	28.81	40.8	49.1	45.2	52.4	36.6	44.5	76	20	36	37	38	84	64	77	.227	.236	.248	33.2	1.24	T	6.4	6.5	5.7	6.3
November	29.35	30.07	28.62	29.1	33.3	30.7	37.9	24.4	31.2	63	9	24	23	24	80	65	74	.138	.132	.136	1.14	.78	4.4	8.3	7.4	7.4	7.7
December	29.44	29.95	28.65	27.3	32.0	29.9	35.3	22.9	29.1	53	6	23	25	24	84	74	78	.132	.142	.134	1.67	.63	7.0	7.7	7.3	6.8	7.7
Year	29.33	30.07	28.29	39.8	46.8	43.2	50.8	33.9	42.4	104	−14	34	35	35	79	65	73	.238	.245	.249	26.86	1.86	85.6	6.1	5.8	5.4	5.9

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ABILENE, TEX.

[H=1,726 ft.; H_b=1,738 ft.; h_t=10 ft.; h_r=3 ft.; h_a=56 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.01 inch or over	Snow: Trace or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	10.0	S.	25	S.	0	13	3	2	6	15	10	7	5	1	15	7	9	2	2	2	2	0	0	0	1	0	17	0	0
February	11.4	S.	33	W.	2	16	2	6	3	27	2	0	1	1	8	14	7	2	1	2	0	0	1	0	2	0	20	2	0
March	10.9	S.	31	S.	0	11	2	2	6	25	7	5	4	0	14	9	8	3	2	0	0	0	0	0	0	0	0	3	0
April	12.0	S.	35	S.	2	10	2	2	14	24	2	3	3	0	20	3	7	6	6	0	0	0	0	0	0	0	5	2	6
May	9.0	SE.	30	SE.	0	6	4	11	18	13	3	4	2	1	9	12	10	10	9	0	0	0	1	0	0	6	0	6	0
June	10.0	S.	25	SE.	0	2	4	6	20	22	2	3	0	1	20	7	3	1	0	0	0	0	0	0	0	27	0	2	0
July	9.5	S.	32	E.	1	2	4	5	16	29	2	1	3	0	19	9	3	5	4	0	0	1	0	0	0	27	0	8	0
August	8.8	S.	34	S.	1	1	0	2	19	36	0	1	1	2	23	6	2	1	1	0	0	0	0	0	0	31	0	4	0
September	9.6	S.	27	S.	0	7	5	7	10	23	1	2	5	0	10	8	12	9	8	0	0	0	3	0	0	13	0	3	0
October	9.0	S.	27	S.	0	14	1	2	14	20	2	4	5	0	18	3	10	5	4	0	0	0	3	0	0	2	0	0	0
November	7.8	S.	24	N.	0	16	0	2	9	13	5	8	4	3	12	9	9	4	3	0	0	0	3	2	0	0	4	0	0
December	9.7	S.	25	SE.	0	10	0	4	7	27	2	8	4	0	16	5	10	7	3	0	0	0	3	0	0	0	5	1	0
Year	9.8	S.	35	S.	6	108	27	51	142	274	38	46	37	9	184	92	90	55	43	4	2	1	14	2	3	111	48	35	0

ALBANY, N. Y.

[H=19 ft.; H_b=97 ft.; h_t=97 ft.; h_r=88 ft.; h_a=112 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.9	NW.	28	S.	0	10	9	4	0	10	7	3	19	0	9	7	15	16	13	21	11	0	4	1	15	0	27	0	0
February	7.1	S.	26	S.	0	13	8	4	1	8	13	2	9	0	10	8	11	14	10	16	11	0	0	0	20	0	27	0	0
March	7.6	S.	30	SE.	0	10	6	5	3	19	5	2	12	0	8	8	15	18	15	8	4	0	13	1	3	0	10	1	0
April	8.4	S.	31	S.	0	6	4	2	2	20	4	5	17	0	5	5	20	17	10	8	4	1	7	0	0	0	7	2	0
May	8.1	S.	21	SW.	0	5	3	2	0	23	7	8	14	0	9	15	7	10	9	0	0	[1] 1	7	1	0	2	0	7	0
June	8.0	S.	24	S.	0	14	3	1	2	24	6	6	4	0	8	14	8	11	7	0	0	0	6	1	0	0	0	3	0
July	6.8	S.	24	E.	0	16	8	1	2	19	5	2	9	0	9	21	1	7	5	0	0	0	12	0	0	8	0	8	1
August	6.7	S.	25	NW.	0	13	6	1	2	24	7	7	2	0	12	11	8	12	10	0	0	0	12	0	0	4	0	5	0
September	7.8	S.	24	S.	0	19	3	1	2	23	7	0	5	0	11	9	10	10	7	0	0	0	16	2	0	0	0	4	0
October	7.5	S.	27	SW.	0	11	0	1	2	28	9	4	7	0	13	5	13	13	8	1	0	0	12	1	0	0	4	0	0
November	8.2	S.	26	S.	0	6	4	1	1	20	5	6	16	1	5	7	18	10	5	12	5	0	4	0	6	0	20	0	0
December	7.8	S.	29	SE.	0	17	8	2	3	11	9	1	11	0	8	6	17	13	10	10	3	0	9	1	6	0	25	0	0
Year	7.7	S.	31	S.	0	140	62	25	20	229	84	46	125	1	107	116	143	151	109	76	38	2	102	8	50	14	120	30	1

ALBUQUERQUE, N. MEX.[2]

[H=5,101 ft.; H_b=4,972 ft.; h_t=5 ft.; h_r=15 ft.; h_a=39 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.9	N.	35	NW.	2	18	5	5	3	3	4	16	8	0	11	11	9	4	4	9	4	0	5	1	1	0	31	0	0
February	10.1	W.	37	NW.	4	18	1	0	0	12	3	16	8	0	9	10	10	4	1	3	3	0	1	1	0	0	21	0	0
March	10.9	W.	42	W.	6	11	7	1	5	7	6	14	11	0	13	14	4	4	1	2	1	2	0	0	0	0	18	1	0
April	10.2	W.	41	NW.	6	13	3	3	6	3	3	19	9	1	11	12	7	3	1	2	2	0	0	0	0	0	8	4	0
May	9.7	N.	36	W.	1	16	4	4	8	8	7	8	6	1	8	12	11	6	3	1	0	0	0	0	0	0	0	3	0
June	9.3	SE.	38	W.	4	15	5	3	9	8	4	10	6	0	19	9	2	4	2	0	0	1	0	0	0	21	0	8	0
July	8.5	N.	34	N.	1	20	7	5	15	9	2	1	2	1	15	12	4	8	5	0	0	1	0	0	0	23	0	12	0
August	8.3	N.	38	NW.	2	19	7	0	13	8	1	5	9	0	18	7	6	4	3	0	0	0	1	0	0	20	0	13	0
September	7.5	N.	35	W.	3	16	6	3	12	7	3	5	8	0	13	9	8	9	6	1	0	1	1	1	0	4	0	5	0
October	7.3	N.	36	NW.	2	16	3	4	6	13	6	6	8	0	16	11	4	6	3	0	0	0	0	0	0	0	0	0	0
November	7.6	N.	34	W.	1	14	2	1	9	3	15	10	6	0	22	5	3	0	0	0	0	0	0	0	0	0	29	0	0
December	7.0	N.	45	NW.	1	17	0	2	2	4	5	18	12	2	16	8	7	3	1	3	1	0	2	1	0	0	30	0	0
Year	8.6	N.	45	NW.	33	193	50	31	88	85	59	128	93	5	171	120	75	55	30	21	11	5	10	4	1	68	137	46	0

ALPENA, MICH.

[H=587 ft.; H_b=609 ft.; h_t=13 ft.; h_r=4 ft.; h_a=89 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	Trace or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.6	NW.	34	NW.	1	1	2	2	7	7	11	9	23	0	1	10	20	18	11	26	17	0	0	0	20	0	30	0	0
February	12.2	W.	38	SE.	5	0	2	8	2	2	10	19	14	1	11	4	14	12	11	19	12	0	0	0	27	0	29	0	0
March	11.9	NW.	34	NW.	2	3	1	4	15	7	5	9	18	0	7	9	15	12	6	9	7	0	3	3	7	0	25	1	0
April	12.0	NW.	31	SE.	0	6	4	5	11	4	4	3	23	0	5	10	15	15	11	13	10	0	3	1	3	0	17	0	0
May	11.2	NW.	37	NW.	2	4	1	5	12	6	10	2	21	1	13	8	10	12	9	0	0	1	4	2	0	2	1	7	0
June	9.9	NW.	26	NW.	0	11	3	5	9	8	2	5	17	0	16	9	5	6	5	0	0	0	1	2	0	0	0	3	0
July	9.0	NW.	29	NW.	0	3	4	2	9	5	3	10	24	2	20	9	2	4	3	0	0	1	0	0	0	6	0	4	1
August	10.3	NW.	34	NW.	1	2	4	13	6	7	5	10	15	0	10	11	10	13	8	0	0	0	5	2	0	4	0	5	0
September	9.8	NW.	28	SE.	0	6	2	9	8	6	7	9	13	0	9	10	11	12	9	0	0	0	6	0	0	1	1	3	2
October	11.0	NW.	37	NW.	2	2	5	2	3	11	11	13	14	1	6	14	11	13	10	5	0	0	4	1	0	0	9	3	1
November	12.7	NW.	35	NW.	1	3	2	3	0	7	12	9	24	0	2	10	18	14	4	19	9	0	3	1	9	0	24	0	0
December	11.9	S.	34	SE.	3	0	4	2	10	14	9	11	12	0	4	5	22	13	8	16	8	0	6	3	13	0	28	0	0
Year	11.0	NW.	38	SE.	17	41	34	60	92	84	89	109	218	5	104	109	153	144	95	107	63	2	35	15	79	13	164	26	4

[1] Occurred in vicinity.

[2] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

AMARILLO, TEX.

[ϕ=35°13′ N.; λ=101°50′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	26.22	26.63	25.71	28.4	40.7	37.9	46.2	25.0	35.6	69	11	21	24	24	73	54	58	0.115	0.131	0.125	1.02	0.40	10.3	3.5	5.3	4.5	4.9
February	26.15	26.58	25.60	25.4	39.6	39.6	48.4	18.6	33.5	73	−3	14	17	16	62	44	41	.090	.098	.093	.25	.25	2.5	2.9	4.0	4.7	4.2
March	26.15	26.56	25.65	40.4	59.9	60.3	66.4	38.0	52.2	78	25	23	23	21	50	25	22	.126	.125	.115	T	T	.0	2.4	2.8	3.8	2.9
April	26.27	26.62	25.84	45.0	67.6	65.9	73.1	42.9	58.0	91	14	28	30	29	53	28	28	.162	.171	.168	.25	.25	T	2.8	3.3	4.3	4.0
May	26.28	26.53	25.80	57.6	73.6	71.3	77.4	56.6	67.0	91	43	49	51	49	75	50	51	.363	.387	.367	9.02	4.38	.0	5.9	6.6	5.7	6.1
June	26.25	26.50	25.82	66.4	84.5	87.1	89.5	65.5	77.5	102	56	54	54	53	66	38	34	.423	.429	.419	.84	.46	.0	2.8	2.1	1.7	2.1
July	26.32	26.57	26.13	69.3	88.1	88.1	92.6	68.5	80.6	102	62	58	54	53	68	33	33	.479	.423	.410	.51	.28	.0	2.2	3.4	4.2	3.2
August	26.32	26.53	26.12	69.8	89.9	89.9	94.8	69.0	81.9	103	60	50	51	50	52	29	29	.370	.380	.374	1.39	.83	.0	2.2	3.1	3.2	2.7
September	26.29	26.54	25.99	60.8	74.4	72.1	79.0	59.4	69.2	95	36	55	56	56	83	57	60	.455	.462	.461	4.74	2.55	.0	5.6	6.4	5.4	5.7
October	26.34	26.71	26.02	46.3	63.4	60.4	68.5	44.5	56.5	89	29	39	41	40	77	50	53	.242	.270	.258	.82	.48	2.3	4.0	4.4	4.5	4.3
November	26.45	26.74	25.90	35.9	55.2	50.0	59.7	33.3	46.5	74	18	22	23	22	55	30	35	.117	.125	.122	T	T	.0	2.1	2.0	2.3	2.1
December	26.28	26.58	25.80	34.4	47.8	44.9	53.6	32.2	42.9	67	25	27	29	28	74	50	54	.155	.162	.157	.88	.51	.5	2.9	4.0	4.5	4.1
Year	26.28	26.74	25.60	48.3	65.4	64.0	70.8	46.1	58.4	103	−3	37	38	37	66	41	42	.258	.264	.256	19.72	4.38	15.6	2.3	4.0	4.1	3.9

APALACHICOLA, FLA.

[ϕ=29°45′ N.; λ=84°58′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.04	30.45	29.49	49.4	----	53.9	60.5	47.0	53.8	71	28	---	---	---	---	---	---	----	----	----	4.60	(1) 1.13	0.0	5.0	----	3.9	----
February	30.03	30.38	29.28	48.5	----	52.7	58.2	46.2	52.2	69	28	---	---	---	---	---	---	----	----	----	3.47	.72	.0	6.2	----	5.5	----
March	29.94	30.18	29.62	57.8	----	62.9	69.5	56.4	63.0	79	43	---	---	---	---	---	---	----	----	----	2.95	.97	.0	6.1	----	6.9	----
April	30.04	30.28	29.60	64.2	----	66.9	73.8	60.3	67.0	83	45	---	---	---	---	---	---	----	----	----	.89	.48	.0	4.1	----	4.7	----
May	29.97	30.20	29.62	73.1	----	75.8	81.5	68.6	75.0	89	61	---	---	---	---	---	---	----	----	----	3.25	2.31	.0	5.2	----	4.9	----
June	29.89	30.15	29.67	79.1	----	80.5	86.7	73.1	79.9	92	67	---	---	---	---	---	---	----	----	----	3.64	1.25	.0	3.8	----	4.2	----
July	29.97	30.15	29.70	80.2	----	82.3	88.6	75.5	82.0	94	70	---	---	---	---	---	---	----	----	----	10.14	4.04	.0	7.1	----	7.0	----
August	29.97	30.14	29.70	79.8	----	81.6	87.5	74.7	81.1	93	71	74	---	74	84	---	77	0.851	----	0.833	5.75	1.56	.0	4.1	----	5.8	5.0
September	29.96	30.10	29.71	77.9	85.0	81.2	87.3	74.1	80.7	91	70	73	72	78	84	66	76	.799	0.794	.809	2.83	1.23	.0	4.5	5.4	5.0	5.2
October	29.99	30.19	29.77	69.0	78.0	73.9	80.4	66.3	73.4	90	53	64	65	66	85	66	77	.615	.641	.652	4.40	2.19	.0	3.9	4.1	2.6	4.2
November	30.11	30.40	29.89	55.1	65.4	61.2	68.6	52.1	60.4	82	33	48	50	52	79	60	71	.372	.401	.418	.39	.19	.0	4.5	4.2	3.8	4.5
December	30.10	30.41	29.80	52.5	59.0	56.2	62.0	49.5	55.8	72	37	50	51	52	96	77	85	.371	.393	.391	3.81	1.73	.0	7.1	6.7	6.5	6.9
Year	30.00	30.45	29.28	65.6	----	69.1	75.4	62.0	68.7	94	28	---	---	---	---	---	---	----	----	----	46.18	4.04	.0	5.1	----	5.1	----

[1] For period January–July maximum amounts based on 8 a. m. and 8 p. m. readings.

ASHEVILLE, N. C.

[ϕ=35°36′ N.; λ=82°32′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	27.64	28.01	26.75	28.2	37.7	35.0	43.3	23.6	33.4	63	1	23	24	25	81	61	68	0.139	0.145	0.148	7.15	2.74	3.8	5.5	5.2	5.3	5.9
February	27.68	28.01	27.19	29.3	42.0	38.8	47.3	26.0	36.6	73	7	25	24	26	82	51	60	.142	.140	.150	3.78	1.42	10.5	7.0	6.2	5.1	5.6
March	27.56	27.86	26.96	41.1	55.0	51.7	60.4	37.7	49.0	75	24	35	34	36	79	50	57	.214	.217	.221	6.42	2.16	12.2	5.9	6.6	5.3	6.2
April	27.72	28.01	27.23	47.3	58.6	55.9	64.6	42.0	53.3	83	22	38	36	36	71	47	51	.247	.232	.229	4.38	1.65	.2	6.2	6.1	5.0	5.9
May	27.77	28.16	27.41	59.7	75.2	70.0	80.3	52.7	66.5	89	43	48	46	46	65	37	46	.338	.320	.324	1.44	1.14	.0	2.8	3.6	4.2	3.5
June	27.66	27.91	27.44	66.3	80.2	75.8	85.0	59.7	72.4	98	44	58	55	57	75	45	55	.486	.451	.471	2.58	.93	.0	3.6	4.1	5.3	4.2
July	27.70	27.96	27.47	69.0	81.4	76.2	86.6	64.5	75.6	99	55	64	64	65	85	56	70	.601	.594	.614	6.77	1.85	.0	5.5	6.6	7.5	6.8
August	27.78	27.96	27.54	67.0	81.5	73.8	86.2	63.5	74.8	94	52	64	64	65	90	56	75	.599	.604	.620	3.40	1.21	.0	4.0	5.4	6.2	4.9
September	27.78	28.01	27.55	62.9	77.3	70.1	80.8	59.6	70.2	89	46	59	60	62	89	57	76	.515	.531	.561	5.30	1.96	.0	5.0	5.8	5.8	5.8
October	27.78	28.05	27.33	53.2	64.2	58.9	67.6	49.4	58.5	77	29	49	49	50	87	61	74	.369	.374	.383	3.85	2.26	.0	5.8	6.3	5.5	5.8
November	27.77	28.10	27.36	38.6	51.8	46.3	55.6	34.2	44.9	73	12	33	34	33	80	51	61	.205	.216	.203	1.15	.71	.8	4.5	4.9	5.4	5.4
December	27.82	28.21	27.40	37.3	46.5	43.7	51.0	33.9	42.4	60	22	33	34	34	85	64	71	.202	.207	.209	4.84	1.40	6.2	7.5	8.0	7.0	6.9
Year	27.72	28.21	26.75	50.0	62.6	58.0	67.4	45.6	56.5	99	1	44	44	45	81	53	64	.338	.336	.344	51.06	2.74	33.7	5.3	5.7	5.6	5.6

ATLANTA, GA.[2]

[ϕ=33°39′ N.; λ=84°26′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.01	29.45	28.17	32.8	43.2	39.9	48.8	29.3	39.0	71	5	28	31	31	83	64	72	0.180	0.197	0.195	10.82	2.66	8.0	5.6	6.0	4.9	5.4
February	29.04	29.38	28.46	34.3	45.4	43.8	51.3	32.0	41.6	74	10	30	32	33	83	60	67	.182	.193	.203	8.42	3.24	2.5	6.7	6.8	6.3	6.8
March	28.90	29.18	28.45	47.8	63.6	58.6	68.4	44.9	56.6	82	32	42	42	43	80	47	58	.285	.293	.302	4.22	1.76	T	5.2	6.4	5.5	5.5
April	29.04	29.34	28.54	53.1	64.3	61.5	69.5	48.0	58.8	87	30	46	44	44	78	53	57	.334	.317	.316	9.86	4.26	.0	5.7	6.2	5.3	5.6
May	29.03	29.40	28.63	67.0	80.6	77.1	85.6	60.5	73.0	96	54	55	52	53	66	38	45	.439	.391	.410	.32	.29	.0	3.0	4.5	3.7	4.2
June	28.92	29.22	28.71	73.6	86.6	82.8	91.8	67.1	79.4	102	54	63	61	61	72	45	51	.589	.551	.544	3.17	2.27	.0	2.7	4.2	4.5	4.1
July	28.97	29.16	28.75	74.7	86.6	82.3	91.5	70.8	81.2	100	59	68	68	68	81	55	65	.694	.679	.694	4.03	2.61	.0	6.0	7.0	6.8	6.8
August	29.03	29.22	28.81	74.1	85.1	80.0	89.6	70.0	79.8	97	59	69	68	69	85	59	71	.711	.702	.724	5.95	1.91	.0	5.0	5.5	4.7	5.4
September	29.03	29.22	28.79	69.2	82.4	75.6	86.0	66.1	76.0	93	56	65	65	66	87	57	73	.627	.621	.648	5.44	4.59	.0	5.7	7.1	4.1	6.2
October	29.06	29.32	28.72	58.1	70.1	63.9	73.4	55.5	64.4	83	40	55	55	57	90	61	79	.457	.464	.490	3.61	1.54	.0	4.8	5.8	3.7	5.6
November	29.12	29.43	28.78	43.3	56.2	50.7	60.2	40.0	50.1	81	20	38	38	39	82	54	66	.252	.258	.260	2.33	1.84	T	5.1	4.9	4.4	5.1
December	29.14	29.57	28.77	41.3	50.1	48.1	54.0	39.2	46.6	66	29	37	40	41	86	71	78	.236	.264	.278	7.98	2.07	.0	6.4	7.3	6.6	7.5
Year	29.02	29.57	28.17	55.8	67.8	63.7	72.5	52.0	62.2	102	5	50	50	50	81	55	65	.416	.411	.422	66.15	4.59	10.5	5.2	6.0	5.0	5.7

[2] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

AMARILLO, TEX.

[H=3,657 ft.; H_b=3,676 ft.; h_t=10 ft.; h_r=3 ft.; h_a=49 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	9.3	W.	23	W.	0	6	3	5	3	5	12	18	10	0	10	13	8	6	5	5	5	0	3	2	4	0	23	0	0
February	9.4	SE.	25	NE.	0	6	5	5	10	9	13	5	5	0	13	9	7	1	1	4	1	0	2	1	5	0	23	0	0
March	11.0	SW.	32	W.	1	7	6	4	8	7	20	8	4	0	18	11	2	0	0	0	0	0	0	0	0	0	5	0	0
April	11.0	S.	31	W.	0	7	2	4	9	15	12	5	6	0	15	9	6	1	1	2	0	0	1	1	0	2	6	2	0
May	9.6	S.	27	E.	0	3	8	10	10	12	9	2	7	1	7	12	12	13	11	0	0	0	1	1	0	1	0	8	0
June	9.4	S.	28	SE.	0	1	5	5	14	11	17	5	1	1	21	9	0	4	3	0	0	0	1	1	0	15	0	4	0
July	8.9	SE.	25	SE.	0	1	4	5	17	14	5	7	7	2	17	13	1	6	5	0	0	0	0	0	0	22	0	3	0
August	8.5	S.	27	SE.	0	0	2	1	14	18	18	7	2	0	23	6	2	5	3	0	0	0	0	0	0	27	0	3	0
September	9.0	S.	21	N.	0	6	3	3	9	22	7	5	5	0	9	12	9	11	7	0	0	0	4	0	0	6	0	2	0
October	8.9	S.	21	N.	0	11	4	3	7	11	10	9	7	0	16	7	8	5	4	2	2	0	3	2	0	0	4	0	0
November	9.3	SW.	32	W.	1	10	6	1	4	10	12	8	8	1	24	3	3	0	0	0	0	0	1	0	1	0	13	0	0
December	9.4	SW.	27	W.	0	6	4	1	2	17	14	8	10	0	17	5	9	4	2	2	2	0	6	3	0	0	18	0	0
Year	9.5	S.	32	W.	2	64	52	47	105	151	149	87	72	5	190	109	67	56	42	15	10	0	22	11	10	73	92	22	0

APALACHICOLA, FLA.

[H=13 ft.; H_b=35 ft.; h_t=11 ft.; h_r=3 ft.; h_a=51 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	----	------	[1] 45	WSW.	1	9	10	11	7	11	1	7	6	0	9	8	14	13	9	0	0	0	12	8	0	0	2	3	0
February	----	------	----	------	----	16	8	13	7	9	0	3	0	2	7	10	12	15	12	0	0	0	4	5	0	0	1	3	0
March	----	------	----	------	----	6	6	8	5	16	4	10	7	0	7	8	16	12	7	0	0	0	4	3	0	0	0	3	0
April	----	------	----	------	----	5	11	6	5	14	7	9	2	1	11	11	8	5	4	0	0	0	1	0	0	0	0	2	0
May	----	------	----	------	----	12	10	13	9	3	3	10	2	0	9	14	8	4	4	0	0	0	0	0	0	0	0	4	0
June	----	------	----	------	----	7	8	7	6	7	12	9	6	0	10	18	2	11	8	0	0	0	0	0	0	0	5	10	0
July	----	------	40	E.	1	5	4	2	3	5	15	22	6	0	2	16	13	13	11	0	0	0	0	0	0	6	0	14	0
August	----	------	----	------	----	14	8	5	8	10	4	7	6	0	10	16	5	14	12	0	0	0	0	0	0	6	0	16	0
September	----	------	----	------	----	11	11	9	6	6	4	9	4	0	9	15	6	8	7	0	0	0	0	0	0	3	0	16	0
October	8.3	N.	26	S.	0	20	17	5	7	4	0	4	4	1	14	10	7	8	7	0	0	0	5	1	0	0	0	2	0
November	8.7	N.	26	N.	0	17	16	4	4	2	2	5	10	0	15	5	10	4	2	0	0	0	8	0	0	0	0	0	0
December	9.3	E.	28	NE.	0	11	21	12	3	5	1	3	6	0	6	5	20	9	7	0	0	0	10	1	0	0	0	3	0
Year	----	------	[1] 45	WSW.	----	133	128	95	70	92	53	98	59	4	109	136	121	116	90	0	0	0	44	18	0	20	3	76	0

[1] Estimated.

ASHEVILLE, N. C.

[H=2,192 ft.; H_b=2,253 ft.; h_t=89 ft.; h_r=87 ft.; h_a=104 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.8	N.	31	NW.	0	19	0	1	14	12	1	0	15	0	11	6	14	13	12	8	4	0	4	3	7	0	18	3	0
February	9.3	NW.	32	NW.	1	14	0	1	11	12	0	1	18	1	9	10	10	13	11	7	6	0	5	0	3	0	21	0	0
March	10.2	NW.	38	NW.	3	14	0	3	15	9	3	0	16	2	7	10	14	15	11	5	4	0	4	3	0	0	8	5	0
April	10.7	NW.	32	NW.	1	6	0	2	21	5	0	4	19	3	6	14	10	10	6	3	1	0	2	1	1	0	6	3	0
May	6.9	NW.	21	SW.	0	12	1	3	16	8	3	4	15	0	19	9	3	5	3	0	0	0	0	0	0	0	0	4	0
June	6.6	S.	27	NE.	0	14	2	2	13	12	4	5	5	3	14	10	6	9	8	0	0	2	2	0	0	9	0	9	0
July	5.9	NW.	31	W.	0	16	0	3	11	3	1	2	23	3	4	12	15	16	14	0	0	1	9	0	0	10	0	16	0
August	5.8	S.	30	N.	0	8	0	3	14	17	1	2	10	7	9	16	6	10	8	0	0	0	19	6	0	6	0	15	0
September	6.3	SE.	23	SE.	0	4	2	7	16	11	0	2	6	12	8	12	10	9	8	0	0	0	15	8	0	0	0	6	0
October	7.9	SE.	24	NE	0	15	2	7	17	6	0	0	12	3	9	11	11	11	8	0	0	0	5	4	0	0	1	1	0
November	9.4	NW.	27	NW.	0	14	0	2	12	5	0	0	22	5	11	10	9	8	4	3	1	0	5	4	2	0	14	0	0
December	8.6	N.	26	SE.	0	14	1	1	17	15	0	2	8	4	5	9	17	14	12	3	2	0	3	0	0	0	17	0	0
Year	8.1	NW.	38	NW.	5	150	8	35	177	115	13	22	169	43	112	129	125	133	105	29	18	3	73	29	13	25	85	62	0

ATLANTA, GA.[1]

[H=975 ft.; H_b=976 ft.; h_t=5 ft.; h_r=38 ft.; h_a=53 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.7	NW.	48	W.	1	8	4	10	2	5	5	5	23	0	13	5	13	15	15	3	2	0	14	5	3	0	18	6	0
February	9.5	NW.	35	SW.	2	4	8	6	4	8	2	5	21	0	7	6	16	14	12	4	3	0	14	6	0	0	14	1	0
March	10.1	NW.	43	NW.	3	6	6	2	5	13	4	9	15	2	10	10	11	10	8	1	1	0	9	3	0	0	1	5	0
April	10.0	NW.	30	NW.	0	5	4	8	5	10	6	8	13	1	9	9	12	12	9	0	0	1	10	3	0	0	2	5	0
May	7.2	S.	22	NE.	0	7	7	11	8	9	4	2	13	1	13	14	4	2	1	0	0	0	1	0	0	6	0	2	0
June	7.4	SW.	35	NW.	1	3	11	6	7	6	11	9	5	2	12	14	4	7	4	0	0	0	4	0	0	22	0	12	0
July	7.7	W.	32	SW.	1	4	6	4	2	6	11	21	8	0	4	11	16	11	9	0	0	0	2	1	0	19	0	10	0
August	5.9	NE.	30	N.	0	12	12	8	3	10	4	7	6	0	7	18	6	11	8	0	0	0	7	1	0	20	0	13	0
September	6.2	NE.	25	NW.	0	6	21	7	3	6	6	4	5	2	3	17	10	8	6	0	0	0	4	1	0	8	0	7	0
October	7.5	NE.	24	NW.	0	6	17	13	2	8	1	4	11	0	10	8	13	10	8	0	0	0	8	2	0	0	0	2	0
November	9.3	NW.	29	NW.	0	10	9	4	3	2	4	9	19	0	13	3	14	7	5	2	0	0	7	1	0	0	6	0	0
December	8.9	NE.	27	NE.	0	5	19	15	6	1	0	4	12	0	4	7	20	17	15	0	0	0	11	4	0	0	4	2	0
Year	8.3	NW.	48	W.	8	76	124	94	50	84	58	87	151	8	105	122	139	124	100	10	6	1	91	27	3	75	45	65	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ATLANTIC CITY, N. J.

[ϕ=39°22′ N.; λ=74°25′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.96	30.49	28.87	28.0	33.4	32.1	37.7	24.6	31.2	51	1	23	23	24	79	66	70	0.137	0.143	0.143	5.92	1.87	2.7	6.5	6.2	4.8	6.3
February	30.04	30.47	29.30	26.3	31.6	29.9	35.5	22.1	28.8	63	6	20	20	22	75	64	70	.122	.124	.126	4.71	1.65	8.5	6.3	6.8	4.9	6.3
March	29.84	30.35	29.02	42.1	46.0	43.5	49.6	37.9	43.8	73	24	37	38	36	83	75	78	.227	.236	.223	3.87	1.29	T	5.7	7.1	6.6	7.0
April	29.99	30.51	29.35	45.8	49.8	48.4	53.8	41.4	47.6	70	31	37	37	38	72	64	70	.230	.233	.241	3.32	.97	T	5.7	7.2	6.9	6.8
May	30.00	30.56	29.54	59.5	62.9	59.7	67.5	53.2	60.4	85	42	49	50	50	71	65	74	.365	.373	.376	2.47	.91	.0	4.3	4.7	5.2	4.7
June	29.87	30.18	29.48	65.9	69.7	67.0	73.0	61.5	67.2	90	57	60	60	60	82	74	80	.525	.532	.528	4.50	2.41	.0	6.9	7.0	8.0	7.2
July	29.84	30.26	29.55	72.4	76.7	73.5	79.8	67.8	73.8	94	62	64	66	67	77	70	80	.615	.643	.664	3.74	2.00	.0	6.5	5.9	8.3	6.8
August	29.96	30.30	29.71	73.1	77.4	73.7	79.9	68.4	74.2	93	60	66	67	66	80	72	79	.658	.675	.661	3.01	1.49	.0	5.6	5.3	7.2	6.3
September	30.03	30.36	29.33	66.7	70.8	67.7	73.2	63.0	68.1	80	51	61	61	62	82	73	82	.544	.550	.565	5.74	4.01	.0	5.2	6.9	5.0	6.3
October	30.04	30.48	29.20	57.6	63.3	59.7	65.5	53.3	59.4	74	31	52	51	51	82	66	75	.419	.404	.410	2.30	1.45	.0	5.7	5.8	4.5	5.7
November	30.02	30.54	29.36	43.2	49.5	45.5	52.6	37.6	45.1	67	18	34	34	33	70	55	63	.217	.217	.222	.67	.44	.1	5.7	6.0	3.8	5.9
December	30.19	30.66	29.50	38.6	44.6	42.3	48.2	34.2	41.2	64	15	32	34	34	77	69	73	.198	.219	.208	7.65	2.01	T	6.8	7.3	6.7	7.3
Year	29.98	30.66	28.87	51.6	56.3	53.6	59.7	47.1	53.4	94	1	45	45	45	78	68	74	.355	.362	.364	47.90	4.01	11.3	5.9	6.4	6.0	6.4

AUGUSTA, GA.

[ϕ=33°28′ N.; λ=81°54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.86	30.27	29.05	37.7	48.5	46.9	54.4	34.3	44.4	73	17	32	34	34	81	60	62	0.208	0.226	0.221	6.00	1.82	2.9	4.9	5.3	3.8	5.3
February	29.89	30.27	29.16	39.2	49.9	49.2	55.4	36.4	45.9	76	17	33	33	34	79	55	58	.203	.207	.211	4.91	2.04	T	5.2	6.0	4.9	5.9
March	29.72	30.03	29.08	51.7	65.9	62.8	71.4	48.5	60.0	86	35	45	43	44	79	46	54	.324	.304	.313	4.37	1.30	T	4.4	5.0	4.2	5.7
April	29.87	30.22	29.35	56.0	67.2	65.6	72.7	51.8	62.2	90	34	48	46	46	76	52	53	.357	.343	.334	7.99	3.60	.0	5.3	5.6	4.3	5.5
May	29.85	30.24	29.45	67.7	81.8	77.7	86.0	63.1	74.6	96	58	58	53	57	73	39	51	.499	.416	.473	.92	.79	.0	3.8	3.7	3.6	4.1
June	29.73	30.04	29.53	74.4	86.4	82.2	90.8	68.7	79.8	105	57	66	63	64	76	48	57	.642	.589	.614	1.92	.69	.0	3.8	3.8	4.7	4.6
July	29.76	30.01	29.51	77.6	89.4	84.4	93.8	73.1	83.4	102	59	69	67	68	75	50	60	.709	.673	.681	2.98	1.24	.0	5.0	5.4	6.5	5.8
August	29.84	30.06	29.62	76.2	87.1	82.7	91.4	72.6	82.0	98	63	72	71	72	87	59	72	.781	.734	.798	8.31	3.64	.0	4.2	4.7	3.6	4.9
September	29.84	30.04	29.62	71.8	83.7	78.6	87.4	69.1	78.2	96	59	67	67	69	86	58	74	.677	.672	.719	1.92	1.04	.0	6.3	5.4	3.8	5.7
October	29.88	30.17	29.47	62.3	74.6	69.1	78.4	59.5	69.0	88	42	58	57	59	85	56	71	.505	.496	.522	3.11	1.63	.0	4.5	4.7	4.0	5.1
November	29.95	30.30	29.58	46.7	60.3	55.7	64.5	43.9	54.2	82	25	41	40	42	81	50	62	.282	.280	.295	2.64	1.81	.0	4.1	4.5	3.6	4.7
December	30.00	30.42	29.60	44.9	54.5	51.7	58.8	42.5	50.6	75	30	41	43	44	87	69	76	.281	.297	.309	5.82	1.51	.0	7.9	7.2	7.2	7.5
Year	29.85	30.42	29.05	58.8	70.8	67.2	75.4	55.3	65.4	105	17	52	51	53	80	54	62	.456	.436	.458	50.89	3.64	2.9	5.0	5.1	4.5	5.4

AUSTIN, TEX.

[ϕ=30°16′ N.; λ=97°44′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.41	29.93	28.88	40.5	55.2	54.6	61.6	37.2	49.4	82	23	33	34	33	74	49	49	0.198	0.210	0.198	0.39	0.17	T	4.6	4.0	2.7	4.1
February	29.38	29.83	28.82	41.2	52.1	53.7	60.0	37.2	48.6	82	16	35	36	37	78	57	54	.233	.245	.243	1.70	.79	0.0	7.1	6.1	5.9	6.1
March	29.27	29.64	28.89	55.5	71.9	72.1	76.8	54.0	65.4	90	42	47	46	45	76	45	43	.340	.337	.330	1.52	1.47	.0	5.5	5.0	4.9	4.7
April	29.39	29.74	28.83	57.2	73.8	73.5	78.6	54.5	66.6	94	38	48	48	46	74	44	41	.379	.377	.346	.66	.59	.0	5.6	3.9	3.9	4.3
May	29.31	29.50	29.07	67.8	79.5	77.4	82.5	65.4	74.0	91	59	64	63	63	89	59	63	.605	.560	.576	8.15	1.72	.0	7.4	7.2	6.1	6.4
June	29.26	29.46	28.96	74.7	89.3	88.6	93.4	72.8	83.1	106	64	68	65	66	80	46	49	.690	.626	.639	3.30	3.18	.0	4.0	3.0	2.9	3.4
July	29.33	29.49	29.06	74.7	87.7	85.5	91.0	73.3	82.2	96	69	72	68	70	90	54	61	.775	.702	.733	9.25	5.12	.0	5.6	3.7	3.6	4.1
August	29.32	29.51	29.13	74.9	91.1	88.3	94.6	73.5	84.0	105	64	69	67	68	83	46	53	.721	.664	.683	2.90	2.38	.0	3.3	3.2	3.4	3.5
September	29.30	29.51	29.05	72.3	84.6	81.2	89.0	70.7	79.8	98	56	69	67	68	91	58	66	.735	.681	.697	5.22	1.52	.0	5.8	5.6	3.8	5.1
October	29.43	29.73	29.18	56.2	70.9	69.1	75.0	54.5	64.8	88	43	52	53	55	88	58	63	.405	.422	.442	2.63	1.19	.0	4.6	4.1	3.3	4.3
November	29.58	29.95	29.13	48.1	60.4	58.0	64.7	45.5	55.1	87	30	42	42	44	81	54	62	.294	.296	.316	2.30	.75	.0	6.4	6.6	4.3	5.9
December	29.48	29.79	29.02	45.8	59.0	57.8	63.7	42.9	53.3	78	29	43	44	44	89	60	63	.292	.304	.311	1.88	.64	.0	5.4	5.1	4.4	5.2
Year	29.37	29.95	28.82	59.1	73.0	71.6	77.6	56.8	67.2	106	16	54	53	53	83	52	56	.472	.452	.460	39.90	5.12	T	5.4	4.8	4.1	4.8

BAKER, OREG.

[ϕ=44°46′ N.; λ=117°50′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	26.45	26.84	25.94	23.9	30.2	29.5	33.5	19.1	26.3	46	−3	19	22	22	79	70	74	0.107	0.119	0.122	2.44	0.76	25.0	7.4	8.0	7.4	7.8
February	26.31	26.83	25.57	17.3	25.2	25.6	29.8	11.2	20.5	46	−14	12	15	18	78	64	70	.081	.094	.104	1.64	.30	20.5	7.4	8.8	8.3	8.5
March	26.44	26.87	25.86	29.1	40.9	41.8	44.9	25.3	35.1	63	10	23	23	24	76	49	50	.120	.126	.130	.98	.33	6.7	5.4	6.4	5.5	6.1
April	26.48	26.89	25.98	38.8	57.0	58.9	61.6	36.6	49.1	83	7	32	32	33	78	42	42	.188	.185	.190	1.15	.60	1.4	5.6	6.0	6.3	6.2
May	26.42	26.74	26.02	45.6	66.7	68.7	71.8	43.1	57.4	91	33	38	37	36	75	35	34	.230	.223	.222	.69	.45	T	4.8	4.5	5.7	5.0
June	26.42	26.67	26.09	49.7	69.9	71.4	75.4	47.7	61.6	99	39	44	45	45	82	44	43	.295	.305	.302	1.60	.45	.0	5.4	5.0	5.4	5.6
July	26.43	26.61	26.11	54.7	78.7	83.2	86.4	53.1	69.8	99	43	41	44	45	63	32	30	.263	.292	.311	.49	.35	.0	2.2	2.8	2.7	2.5
August	26.46	26.66	26.21	53.5	78.5	82.2	84.9	51.1	68.0	94	39	36	38	38	53	24	23	.214	.233	.239	.08	.07	.0	2.2	2.7	3.2	2.8
September	26.49	26.80	26.15	43.6	67.4	70.3	73.5	40.3	56.9	90	25	31	33	32	61	30	28	.179	.195	.186	.33	.19	T	2.5	2.3	2.7	2.4
October	26.56	26.81	26.16	38.1	62.1	62.6	67.1	34.6	50.8	82	24	27	35	33	65	38	36	.149	.204	.192	.03	.03	T	2.5	1.9	2.8	2.8
November	26.74	27.00	26.25	23.8	44.7	41.4	49.1	19.2	34.2	61	10	15	21	20	67	39	41	.082	.114	.107	T	T	.4	1.8	3.9	4.3	3.8
December	26.46	26.88	25.87	26.8	36.4	34.1	38.7	22.1	30.4	50	12	23	26	26	84	64	71	.121	.139	.141	.35	.18	1.5	6.0	8.4	8.5	8.4
Year	26.47	27.00	25.57	37.1	54.8	55.8	59.7	33.6	46.7	99	−14	28	31	31	72	44	45	.169	.186	.188	9.78	.76	55.5	4.4	5.1	5.2	5.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ATLANTIC CITY, N. J.

[H=8 ft.; 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 of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	16.8	W.	51	NE.	11	3	3	4	4	5	5	32	6	0	7	8	16	12	9	10	3	0	2	1	10	0	19	1	0
February	15.6	W.	50	NE.	6	11	9	1	3	5	4	17	8	0	10	1	18	11	9	5	4	0	6	3	12	0	24	0	0
March	17.5	S.	46	E.	10	7	3	6	7	21	7	8	3	0	5	7	19	16	11	2	0	0	15	9	1	0	8	0	0
April	16.5	W.	57	S.	8	6	4	5	6	14	4	15	6	0	5	11	14	15	8	1	0	0	5	3	0	0	2	3	0
May	15.1	S.	36	NW.	2	4	6	2	4	25	9	0	12	0	14	9	8	7	5	0	0	0	7	5	0	0	0	4	0
June	14.8	S.	40	SE.	6	7	8	6	8	14	7	5	5	0	4	7	19	13	10	0	0	0	7	5	0	1	0	8	0
July	13.1	S.	43	NW.	3	6	5	8	8	12	11	8	4	0	6	9	16	12	8	0	0	0	2	0	0	3	0	12	0
August	14.2	S.	37	W.	1	5	12	5	3	13	14	8	2	0	6	14	11	10	5	0	0	0	6	4	0	2	0	10	0
September	15.9	S.	73	NE.	5	5	11	8	9	11	12	2	2	0	7	8	15	9	8	0	0	0	11	2	0	0	0	2	0
October	14.7	SE.	59	E.	5	12	2	7	12	10	6	8	5	0	10	6	15	10	8	0	0	0	8	3	0	0	1	0	0
November	16.7	W.	43	W.	7	3	4	0	1	8	9	22	13	0	9	6	15	7	3	2	1	0	3	0	0	0	9	0	0
December	17.7	NW.	51	SE.	7	11	6	7	1	3	12	10	12	0	4	7	20	13	11	2	0	0	8	4	0	0	11	0	0
Year	15.7	S.	73	NE.	71	80	73	59	66	141	100	135	78	0	87	93	186	135	95	22	8	0	80	39	23	6	74	40	0

AUGUSTA, GA.

[H=134 ft.; H_b=182 ft.; h_t=62 ft.; h_r=54 ft.; h_a=77 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.3	NW.	41	SW.	1	3	9	2	8	6	4	6	20	4	11	8	12	14	13	2	2	0	8	3	0	0	14	0	0
February	6.3	NW.	21	NW.	0	7	11	4	4	5	4	5	16	2	10	4	15	11	9	2	1	0	6	2	0	0	10	0	0
March	7.1	NW.	27	NW.	0	3	4	5	9	9	6	9	12	5	8	11	12	13	10	1	0	0	3	2	0	0	0	3	0
April	6.9	NW.	24	W.	0	2	7	6	14	6	0	6	17	2	11	7	12	10	8	0	0	0	2	0	0	1	0	6	0
May	5.8	S.	24	NE.	0	2	11	8	10	14	4	3	7	3	13	12	6	4	3	0	0	0	2	0	0	6	0	2	0
June	6.1	S.	29	N.	0	8	9	6	8	12	6	5	6	0	11	12	7	11	4	0	0	0	0	0	0	17	0	7	0
July	6.5	W.	24	W.	0	3	4	2	3	16	11	14	9	0	6	17	8	12	7	0	0	0	0	0	0	28	0	9	0
August	4.9	S.	28	S.	0	2	12	6	5	16	2	2	13	4	8	17	6	12	8	0	0	0	3	0	0	22	0	9	0
September	5.3	NE.	15	NE.	0	6	18	5	9	9	1	2	8	2	7	13	10	8	5	0	0	0	4	0	0	8	0	7	0
October	5.8	NE.	21	SE.	0	7	21	7	1	3	1	4	13	5	13	7	11	7	7	0	0	0	3	1	0	0	0	2	0
November	6.4	NW.	21	NW.	0	6	13	1	4	1	8	8	17	2	11	9	10	7	6	0	0	0	6	2	0	0	3	0	0
December	6.3	NE.	20	NW.	0	10	15	8	4	3	3	3	10	6	5	6	20	14	12	0	0	0	7	2	0	0	3	0	0
Year	6.1	NW.	41	SW.	1	59	134	60	79	100	50	67	148	35	114	123	129	123	92	5	3	0	44	12	0	82	30	45	0

AUSTIN, TEX.

[H=531 ft.; H_b=605 ft.; h_t=68 ft.; h_r=60 ft.; h_a=90 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.3	N.	28	NW.	0	14	8	1	11	7	1	7	11	2	15	10	6	4	3	2	1	0	7	1	0	0	8	0	0
February	8.9	N.	30	N.	0	15	5	9	18	5	3	0	2	1	7	9	13	5	3	0	0	0	8	2	0	0	11	1	0
March	8.7	S.	31	N.	0	15	2	1	12	23	2	0	5	2	11	13	7	4	1	0	0	0	5	0	0	2	0	1	0
April	10.3	SE.	35	SW.	1	13	7	1	24	8	3	0	4	0	14	7	9	6	3	0	0	0	1	0	0	2	0	4	0
May	7.4	SE.	27	N.	0	8	8	16	20	6	1	1	2	0	5	14	12	13	11	0	0	0	3	0	0	1	0	9	0
June	7.7	SE.	22	NE.	0	5	2	13	19	15	1	1	3	1	17	10	3	3	3	0	0	0	1	0	0	26	0	3	0
July	6.9	SE.	27	SE.	0	3	2	3	29	15	0	3	4	3	13	16	2	11	7	0	0	0	2	0	0	19	0	11	0
August	6.0	SE.	23	S.	0	3	1	4	28	12	4	2	3	5	16	13	2	7	4	0	0	0	1	0	0	27	0	3	0
September	7.7	SE.	29	S.	0	7	0	8	28	9	1	1	3	3	10	12	8	10	8	0	0	0	7	2	0	18	0	5	0
October	6.9	N.	30	NW.	0	17	8	5	8	9	3	1	10	1	16	3	12	8	6	0	0	0	4	1	0	0	0	0	0
November	7.0	N.	27	NE.	0	28	5	3	0	5	4	2	9	4	7	12	11	8	5	0	0	0	5	0	0	0	2	0	0
December	7.1	N.	23	N.	0	12	2	6	6	8	11	3	11	3	12	8	11	8	6	0	0	0	7	5	0	0	3	0	0
Year	7.7	SE.	35	SW.	1	140	50	70	203	122	34	21	67	25	143	127	96	87	60	2	1	0	51	11	0	95	24	37	0

BAKER, OREG.

[H=3,445 ft.; H_b=3,471 ft.; h_t=36 ft.; h_r=41 ft.; h_a=54 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.4	SE.	21	W.	0	2	4	3	25	18	2	2	2	4	4	4	23	20	16	25	20	0	8	4	13	0	28	0	0
February	6.1	S.	26	SW.	0	7	2	0	17	16	5	4	7	0	1	6	22	18	13	22	17	0	6	2	17	0	27	0	0
March	6.5	SE.	24	SW.	0	9	2	3	25	11	5	3	3	1	8	11	12	15	9	16	12	0	0	0	2	0	29	0	0
April	6.1	SE.	26	N.	0	12	0	3	21	9	3	2	9	1	5	14	11	10	4	5	2	1	0	0	1	0	7	4	0
May	6.2	SE.	26	N.	0	11	1	3	30	7	4	2	3	1	11	11	9	6	4	1	1	1	0	0	0	1	0	2	0
June	5.6	N.	26	W.	0	12	2	3	14	14	3	4	8	0	10	7	13	11	8	0	0	0	0	0	0	3	0	5	0
July	5.7	N.	23	S.	0	13	0	2	17	14	4	2	9	1	21	6	4	5	2	0	0	1	0	0	0	12	0	3	0
August	5.8	N.	17	SW.	0	16	3	0	17	12	2	1	10	1	22	4	5	2	1	0	0	0	0	0	0	9	0	1	0
September	6.0	N.	17	N.	0	19	3	0	22	5	1	2	8	0	22	3	5	6	2	1	0	0	0	0	0	0	5	0	0
October	6.4	SE.	23	N.	0	18	1	0	29	0	3	9	2	0	21	7	3	1	0	1	1	1	0	0	0	0	11	0	0
November	6.5	SE.	18	NW.	0	11	0	0	31	8	1	7	1	1	16	7	7	0	0	2	0	0	0	0	1	0	30	0	0
December	5.8	SE.	19	SW.	0	3	1	2	36	3	1	10	5	1	2	5	24	9	2	14	4	0	2	1	3	0	27	0	0
Year	6.1	SE.	29	W.	0	133	19	19	284	117	34	48	67	11	143	85	138	103	61	87	57	4	16	7	37	25	164	15	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

BALTIMORE, MD.

[ϕ=39°17′ N.; λ=76°37′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	*In.*	*In.*	°	°	°	°	°	°	°	°	°	°	°	%	%	%	*In.*	*In.*	*In.*	*In.*	*In.*	*In.*				
January	29.91	30.42	28.96	27.0	32.8	31.8	37.1	24.5	30.8	55	0	20	21	22	72	62	64	0.121	0.131	0.127	5.94	2.37	2.2	6.5	5.5	5.1	5.9
February	29.99	30.46	29.28	25.2	31.3	32.0	36.8	22.6	29.7	65	9	17	18	20	70	58	60	.106	.112	.119	3.75	1.73	14.6	7.3	6.7	4.1	6.1
March	29.76	30.27	28.96	44.6	52.1	49.8	56.9	40.8	48.8	75	24	38	41	40	76	66	71	.236	.268	.267	6.42	2.10	1.6	6.4	7.2	4.6	7.0
April	29.92	30.40	29.30	47.7	56.3	53.7	60.8	42.9	51.8	86	32	35	40	38	63	56	58	.221	.268	.245	2.56	.72	T	5.9	6.7	5.4	6.5
May	29.92	30.49	29.54	63.0	72.0	69.8	77.7	57.8	67.8	91	45	50	52	53	64	51	57	.376	.405	.419	3.18	1.22	.0	4.0	3.2	3.4	3.4
June	29.79	30.10	29.45	70.2	78.8	75.3	81.9	64.6	73.2	96	55	60	59	59	68	54	60	.508	.519	.532	1.48	.47	.0	5.5	5.3	5.6	5.2
July	29.77	30.20	29.51	74.6	83.1	80.4	87.6	69.6	78.6	107	60	63	62	65	69	51	60	.587	.568	.621	4.89	1.31	.0	4.7	4.7	5.7	5.0
August	29.89	30.22	29.62	74.3	83.7	79.5	87.0	69.5	78.2	97	59	64	64	66	72	53	64	.619	.620	.647	4.60	2.51	.0	4.5	5.5	5.6	5.0
September	29.96	30.29	29.58	67.3	75.6	72.2	79.0	63.8	71.4	92	49	58	59	61	74	58	69	.505	.517	.550	2.16	1.58	.0	5.5	5.5	4.3	5.4
October	29.98	30.38	29.19	55.5	65.4	60.9	68.4	51.5	60.0	81	30	48	48	49	76	55	67	.367	.369	.383	1.73	.89	.0	5.3	5.1	4.7	5.0
November	29.96	30.52	29.35	42.1	50.1	46.2	53.5	37.6	45.6	78	20	31	32	32	65	50	57	.195	.201	.205	.79	.36	T	6.3	5.9	4.5	5.5
December	30.13	30.58	29.42	36.5	43.7	41.7	47.8	33.8	40.8	64	15	29	31	32	74	62	67	.169	.183	.187	7.10	1.94	2.8	5.6	6.2	5.7	6.0
Year	29.91	30.58	28.96	52.3	60.4	57.8	64.5	48.2	56.4	107	0	43	44	45	70	56	63	.334	.347	.358	44.60	2.51	21.2	5.6	5.6	4.9	5.5

BINGHAMTON, N. Y.

[ϕ=42°6′ N.; λ=75°55′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.03	29.59	28.33	19.9	25.0	-----	28.9	15.3	22.1	44	−8	17	18	---	88	76	---	0.102	0.107	-----	3.12	1.05	17.9	9.2	7.7	----	8.5
February	29.11	29.56	28.38	13.1	22.5	-----	28.9	7.3	18.1	56	−13	11	16	---	91	75	---	.078	.096	-----	1.24	.57	8.2	7.9	7.1	----	7.3
March	28.95	29.40	28.18	35.1	44.8	-----	50.5	30.9	40.7	69	4	31	33	---	84	65	---	.185	.202	-----	6.24	1.62	5.1	6.9	8.8	----	8.2
April	29.06	29.52	28.46	40.2	48.0	-----	53.2	35.0	44.1	82	24	33	34	---	74	60	---	.199	.208	-----	2.65	.57	.4	8.4	8.2	----	8.4
May	29.13	29.70	28.71	54.6	68.1	-----	73.5	47.0	60.2	91	31	46	46	---	74	46	---	.333	.332	-----	2.36	1.14	.0	5.8	6.3	----	6.1
June	29.01	29.37	28.65	62.8	73.1	-----	77.8	56.1	67.0	89	42	53	53	---	72	52	---	.416	.420	-----	3.07	1.05	.0	5.8	6.6	----	6.8
July	29.00	29.41	28.75	65.2	81.2	-----	86.0	57.6	71.8	103	45	57	54	---	76	40	---	.477	.436	-----	.88	.35	.0	3.4	6.7	----	6.4
August	29.10	29.48	28.82	64.6	78.4	-----	83.3	59.4	71.4	97	43	59	58	---	82	53	---	.507	.501	-----	6.79	2.20	.0	6.3	5.7	----	6.7
September	29.18	29.48	28.72	56.3	70.4	-----	75.1	51.9	63.5	91	33	52	54	---	87	57	---	.408	.440	-----	2.49	1.00	.0	4.5	6.6	----	6.6
October	29.13	29.58	28.30	47.1	57.1	-----	61.1	42.1	51.6	79	20	42	43	---	84	60	---	.291	.301	-----	3.48	1.12	T	7.0	6.9	----	7.5
November	29.09	29.69	28.50	32.3	38.9	-----	44.0	27.3	35.6	71	3	28	28	---	83	67	---	.161	.168	-----	2.92	1.54	6.1	8.1	7.7	----	8.0
December	29.29	29.72	28.38	29.4	35.5	-----	41.0	23.7	32.4	60	−6	24	27	---	82	71	---	.141	.155	-----	1.99	.62	4.1	8.3	7.8	----	8.2
Year	29.09	29.72	28.18	43.4	53.6	-----	58.6	37.8	48.2	103	−13	38	39	---	81	60	---	.275	.280	-----	37.14	2.20	41.8	6.8	7.2	----	7.4

BIRMINGHAM, ALA.

[ϕ=33°32′ N.; λ=86°50′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.29	29.75	28.70	37.5	45.9	43.9	51.0	32.3	41.6	75	8	32	33	32	82	62	65	0.221	0.217	0.210	10.07	2.45	11.8	5.7	5.5	4.2	5.3
February	29.31	29.68	28.71	37.1	47.7	46.4	53.8	33.6	43.7	74	11	31	31	33	80	55	62	.196	.198	.212	7.34	4.18	.1	7.0	6.4	6.1	6.8
March	29.17	29.41	28.86	51.5	65.4	61.9	70.2	48.7	59.4	84	34	43	44	43	74	48	53	.306	.314	.302	2.87	1.00	.0	5.8	5.1	4.6	5.2
April	29.30	29.58	28.75	54.6	65.5	63.4	71.4	50.4	60.9	88	31	46	45	45	74	52	56	.336	.329	.332	5.20	1.43	.0	5.7	6.1	4.7	5.6
May	29.28	29.62	28.89	67.0	81.4	77.4	85.1	63.3	74.2	90	52	57	56	55	71	43	48	.471	.458	.442	.65	.45	.0	3.5	4.6	3.6	3.8
June	29.16	29.43	28.93	74.0	89.4	84.9	94.0	69.5	81.8	101	59	63	61	60	70	40	46	.588	.546	.530	1.81	.61	.0	1.1	3.5	3.0	2.5
July	29.24	29.44	29.06	74.7	86.4	80.8	90.7	70.7	80.7	102	60	70	70	69	86	60	69	.736	.732	.711	8.52	2.69	.0	6.2	6.7	6.2	6.5
August	29.27	29.41	28.99	73.9	86.6	80.9	90.3	70.5	80.4	97	60	70	69	70	88	57	70	.735	.719	.729	4.00	1.85	.0	3.8	5.0	4.3	4.6
September	29.27	29.46	29.06	70.9	84.8	78.1	88.7	68.2	78.4	95	56	66	66	67	85	56	69	.650	.658	.666	2.70	1.21	.0	3.4	5.8	3.7	5.0
October	29.31	29.54	29.03	58.6	73.3	66.7	76.7	55.8	66.2	85	43	54	55	55	87	55	67	.446	.454	.451	1.64	.91	.0	4.4	4.8	4.1	4.5
November	29.40	29.69	29.06	44.1	58.4	53.1	61.8	41.1	51.4	82	24	38	39	39	80	51	61	.246	.264	.266	1.62	.58	.0	4.6	4.6	3.1	4.7
December	29.39	29.75	29.02	43.9	53.6	49.9	57.1	40.9	49.0	71	26	40	41	42	85	66	75	.262	.279	.282	7.78	2.08	.0	6.2	6.6	5.3	6.5
Year	29.28	29.75	28.70	57.3	69.9	65.6	74.2	53.8	64.0	102	8	51	51	51	80	54	62	.433	.431	.428	54.20	4.18	11.9	4.8	5.4	4.4	5.1

BISMARCK, N. DAK.

[ϕ=46°48′ N.; λ=100°48′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	28.24	28.75	27.60	−7.1	0.1	−0.3	5.3	−13.0	−3.8	30	−28	−14	−6	−6	71	72	73	0.024	0.034	0.034	0.36	0.08	7.6	6.2	6.2	5.8	6.5
February	28.28	28.53	27.70	−15.9	−6.8	−6.6	−2.2	−20.6	−11.4	23	−45	−20	−12	−11	81	77	80	.018	.026	.028	.59	.17	9.3	4.9	5.7	5.2	5.0
March	28.06	28.53	27.67	23.8	32.1	31.5	36.5	20.0	28.2	55	0	20	24	24	85	70	72	.113	.130	.128	.88	.48	11.6	6.7	7.0	6.2	6.3
April	28.27	28.71	27.75	29.3	44.4	45.0	49.5	26.7	38.1	81	3	23	25	26	77	50	51	.132	.138	.149	.37	.33	.1	5.4	5.9	6.3	5.3
May	28.16	28.56	27.50	51.9	70.8	73.3	76.6	48.7	62.6	92	33	40	39	40	66	35	32	.257	.248	.255	.12	.06	.0	4.1	3.8	4.8	3.9
June	28.12	28.56	27.65	59.0	77.4	78.3	82.6	55.7	69.2	105	42	47	44	43	65	32	32	.335	.301	.297	.47	.26	.0	4.9	3.3	3.9	3.9
July	28.09	28.52	27.75	71.3	92.0	94.8	98.1	68.6	83.4	114	55	55	51	50	58	27	24	.447	.386	.380	.10	.08	.0	2.4	2.4	2.7	2.3
August	28.18	28.52	27.90	61.3	79.9	81.0	85.5	59.8	72.6	99	48	50	48	47	68	36	33	.360	.350	.332	.62	.35	.0	5.3	4.9	4.7	4.8
September	28.16	28.63	27.72	50.7	68.3	68.8	75.3	48.0	61.6	95	31	44	45	42	78	47	41	.309	.318	.291	1.66	.85	.0	3.9	4.4	3.3	4.0
October	28.24	28.83	27.64	34.7	52.4	49.1	57.3	30.3	43.8	89	8	25	29	28	68	43	48	.139	.162	.159	.14	.13	.8	4.0	3.9	4.5	4.3
November	28.33	28.82	27.96	26.5	35.4	32.9	40.2	22.1	31.2	64	−1	21	24	24	80	66	71	.118	.134	.135	.45	.17	6.7	4.2	5.8	6.0	5.4
December	28.20	28.57	27.74	14.3	20.7	18.6	25.2	8.2	16.7	54	−21	9	12	13	80	69	77	.080	.086	.088	.21	.08	3.8	4.9	6.0	5.7	5.9
Year	28.19	28.83	27.50	33.3	47.2	47.2	52.5	29.5	41.0	114	−45	25	27	27	73	52	53	.194	.193	.190	5.97	.85	39.9	4.7	4.9	4.9	4.8

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

BALTIMORE, MD.

[H=14 ft.; H_b=123 ft.; h_t=100 ft.; h_r=90 ft.; h_a=215 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.9	SW.	42	SW.	2	5	11	3	3	8	23	0	9	0	9	7	15	14	9	11	8	0	15	1	9	0	19	0	0
February	10.1	SW.	31	NE.	0	13	12	5	1	8	15	0	4	0	7	6	16	11	7	7	5	0	11	2	13	0	23	0	0
March	10.7	SE.	34	S.	2	3	18	2	12	11	11	0	5	0	6	8	17	15	11	2	2	0	18	3	0	0	6	1	0
April	12.2	SW.	40	NW.	5	8	4	4	3	13	17	5	6	0	6	9	15	14	8	1	0	0	7	0	0	0	2	1	0
May	10.2	S.	32	NE.	2	8	5	2	8	17	12	2	8	0	20	8	3	6	5	0	0	1	2	0	0	4	0	5	0
June	10.3	SW.	32	NW.	1	10	11	6	7	11	12	0	3	0	12	8	10	13	7	0	0	0	1	0	0	5	0	6	0
July	9.2	SW.	38	NE.	1	9	11	2	1	13	19	1	6	0	12	9	10	15	12	0	0	1	2	0	0	14	0	12	0
August	9.7	SW.	32	W.	2	5	12	3	3	10	21	6	2	0	14	8	9	12	11	0	0	0	2	0	0	13	0	10	0
September	10.1	S.	38	NE.	1	9	11	5	6	15	7	1	6	0	12	6	12	8	6	0	0	0	7	1	0	3	0	1	0
October	9.9	SW.	38	SE.	3	9	13	4	2	14	13	1	6	0	14	5	12	9	6	0	0	0	19	0	0	0	2	0	0
November	11.2	SW.	35	NW.	3	4	10	2	1	8	18	5	12	0	7	14	9	7	4	2	0	0	9	1	0	0	7	0	0
December	10.1	N.	35	W.	1	13	15	4	1	4	6	7	12	0	11	5	15	14	13	4	3	0	15	2	1	0	13	0	0
Year	10.4	SW.	42	SW.	23	96	133	42	48	132	174	28	79	0	130	93	143	138	99	27	18	2	108	10	23	39	72	36	0

BINGHAMTON, N. Y.

[H=858 ft.; H_b=871 ft.; h_t=57 ft.; h_r=49 ft.; h_a=79 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.7	W.	28	SW.	0	2	6	5	2	0	2	5	9	0	1	6	24	18	13	24	11	0	19	0	13	0	28	0	0
February	7.2	W.	23	W.	0	4	7	4	2	1	0	6	5	0	5	5	19	9	7	16	8	0	17	0	17	0	27	0	0
March	6.9	NE.	30	NW.	0	3	8	3	5	1	2	4	5	0	2	8	21	20	15	11	8	0	17	0	2	0	14	2	2
April	7.8	NW.	27	NW.	0	1	7	4	4	2	2	3	7	0	4	4	22	18	12	9	3	0	12	1	0	0	13	1	0
May	6.5	NW.	37	W.	1	2	9	3	2	2	4	2	7	0	10	8	13	10	7	0	0	0	19	1	0	1	1	7	0
June	6.0	NW.	21	SW.	0	0	10	1	3	2	3	5	6	0	6	8	16	9	7	0	0	1	8	1	0	0	0	4	0
July	5.6	NW.	23	NE.	0	3	9	7	0	0	1	6	5	0	5	16	10	10	8	0	0	0	21	6	0	8	0	8	0
August	5.3	NE.	36	W.	0	0	14	4	3	0	3	5	2	0	6	10	15	17	12	0	0	0	23	7	0	7	0	8	0
September	5.5	NE.	17	NW.	0	2	12	5	1	1	2	2	4	1	8	6	16	9	8	0	0	0	20	9	0	1	0	4	0
October	6.3	NW.	25	NW.	0	2	9	5	0	1	2	5	7	0	3	9	19	14	11	3	1	0	18	5	0	0	5	0	0
November	7.4	NW.	25	NW.	0	2	5	3	2	2	4	2	10	0	3	5	22	15	10	15	9	0	21	2	4	0	21	0	0
December	6.8	NW.	24	W.	0	1	7	6	3	1	1	3	9	0	4	5	22	16	11	13	6	0	14	0	6	0	23	0	0
Year	6.6	NW.	37	W.	1	22	103	50	27	13	26	48	76	1	57	90	219	165	121	91	46	1	209	32	42	17	132	34	2

BIRMINGHAM, ALA.

[H=694 ft.; H_b=700 ft.; h_t=11 ft.; h_r=3 ft.; h_a=48 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.3	NW.	27	SE.	0	14	2	5	6	9	2	9	14	1	12	7	12	17	14	3	3	0	6	1	4	0	13	6	0
February	7.9	NW.	40	S.	1	14	4	6	6	8	0	3	17	0	7	4	18	11	10	1	1	0	6	1	0	0	13	2	0
March	8.7	NW.	26	NW.	0	4	5	2	7	13	1	11	18	1	11	10	10	7	6	0	0	0	1	0	0	0	0	4	0
April	8.1	NW.	32	S.	1	10	5	4	10	5	6	7	12	1	10	7	13	11	11	0	0	1	1	0	0	0	1	4	0
May	6.4	E.	21	SE.	0	10	10	7	17	5	2	3	8	0	18	6	7	5	4	0	0	0	0	0	0	1	0	4	0
June	6.1	SW.	30	SE.	0	9	5	4	5	12	12	7	6	0	21	8	1	6	6	0	0	0	0	0	0	26	0	8	0
July	6.0	S.	23	S.	0	5	8	4	0	16	19	9	1	0	4	15	12	16	12	0	0	1	1	0	0	16	0	20	0
August	5.4	S.	21	NE.	0	5	9	7	8	18	8	5	1	1	11	15	5	16	10	0	0	0	2	1	0	16	0	16	0
September	6.1	E.	28	E.	0	5	11	15	8	8	7	2	4	0	10	13	7	9	7	0	0	0	1	1	0	11	0	15	0
October	6.6	N.	18	SE.	0	13	8	9	11	3	3	3	11	1	14	8	9	9	6	0	0	0	2	1	0	0	0	2	0
November	6.9	N.	20	SE.	0	17	6	3	5	4	7	3	14	1	14	6	10	7	6	0	0	0	2	2	0	0	6	0	0
December	8.1	E.	30	SE.	0	10	8	12	15	2	1	3	11	0	9	4	18	16	12	0	0	0	2	1	0	0	5	2	0
Year	7.0	N.	40	S.	2	116	81	78	98	103	68	65	117	6	141	103	122	130	104	4	4	2	24	8	4	70	38	83	0

BISMARCK, N. DAK.

[H=1,670 ft.; H_b=1,674 ft.; h_t=8 ft.; h_r=3 ft.; h_a=57 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.5	NW.	27	NW.	0	4	8	12	2	2	4	6	16	8	8	8	15	9	5	20	9	0	4	1	31	0	31	0	0
February	7.0	NW.	25	NW.	0	4	5	4	7	0	2	5	21	10	9	13	7	10	5	12	10	0	4	1	29	0	29	0	0
March	10.4	NW.	30	NW.	0	5	4	7	7	3	1	10	25	0	5	13	13	6	6	9	5	0	2	0	7	0	29	0	0
April	9.8	NW.	31	NW.	0	7	6	8	6	7	3	4	19	0	11	9	10	5	1	6	1	0	0	0	5	0	16	0	0
May	10.5	SE.	31	SW.	0	6	5	7	12	8	3	13	7	1	15	12	4	3	2	0	0	0	0	0	0	2	0	3	0
June	10.2	SE.	34	SE.	1	7	6	12	16	2	1	4	11	1	15	10	5	6	3	0	0	0	0	0	0	8	0	7	0
July	10.1	SE.	34	N.	1	6	15	9	14	4	2	3	9	0	23	8	0	2	1	0	0	0	0	0	0	26	0	2	0
August	8.8	NE.	34	W.	1	12	16	9	12	1	2	2	7	1	15	10	6	7	3	0	0	0	2	1	0	11	0	3	0
September	9.3	NW.	34	SE.	1	8	5	9	15	3	0	5	14	1	14	13	3	5	5	0	0	0	4	0	0	3	1	4	0
October	9.2	NW.	25	W.	0	11	4	4	6	5	5	10	16	1	15	10	6	3	2	5	3	0	1	0	1	0	14	0	0
November	9.4	NW.	35	NW.	2	6	7	2	7	7	4	9	18	0	8	12	10	6	4	10	6	0	0	0	9	0	26	0	0
December	8.7	NW.	35	NW.	1	5	5	9	13	4	3	11	11	1	11	7	13	6	2	12	6	0	3	0	17	0	31	0	0
Year	9.2	NW.	35	NW.	7	81	86	92	117	46	30	82	174	24	149	125	92	68	39	74	40	0	20	3	99	50	177	19	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

BLOCK ISLAND, R. I.

[ϕ=41°10′ N.; λ=71°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.90	30.50	28.80	28.1	31.4	31.2	35.8	25.0	30.4	52	9	23	24	24	81	75	75	0.136	0.146	0.145	5.49	1.38	1.9	6.4	5.9	4.6	6.3
February	30.02	30.43	29.29	24.2	26.5	26.8	30.5	20.0	25.2	45	7	18	19	19	75	74	72	.108	.115	.113	3.43	.78	8.8	5.4	5.2	5.2	6.0
March	29.88	30.39	29.06	39.1	42.6	39.4	45.8	34.6	40.2	61	21	35	38	35	87	83	85	.213	.230	.210	6.50	1.81	2.6	5.9	5.9	5.5	6.4
April	29.98	30.50	29.33	41.7	46.2	42.9	48.4	37.8	43.1	61	31	36	38	37	81	74	82	.220	.235	.228	2.53	.69	.0	6.4	5.7	6.9	6.2
May	29.99	30.59	29.47	53.6	57.9	53.2	60.5	48.1	54.3	72	40	47	49	48	79	74	84	.331	.354	.340	1.18	.45	.0	3.7	3.4	3.6	4.6
June	29.89	30.27	29.40	61.6	66.4	62.2	68.3	57.9	63.1	76	53	58	59	58	87	78	86	.479	.506	.478	3.50	2.04	.0	4.5	5.2	6.1	6.6
July	29.85	30.26	29.51	67.2	71.0	66.3	73.7	62.2	68.0	85	59	62	63	63	86	77	90	.571	.579	.581	1.34	.64	.0	5.5	4.2	4.9	5.2
August	29.98	30.29	29.69	67.3	72.2	67.8	74.9	63.2	69.0	82	58	63	64	64	88	78	88	.590	.616	.598	1.11	.43	.0	6.5	5.1	6.1	5.7
September	30.06	30.44	29.35	62.4	65.9	62.0	68.3	58.6	63.4	81	49	58	58	58	85	77	86	.496	.499	.504	5.07	4.18	.0	6.2	5.9	6.2	6.4
October	30.05	30.56	29.21	54.7	58.2	54.8	60.5	49.9	55.2	70	29	49	51	49	80	77	81	.370	.394	.367	2.08	.85	.0	5.1	5.2	4.6	5.5
November	29.98	30.59	29.31	42.4	44.4	43.1	49.8	36.4	43.1	65	17	35	36	36	76	72	77	.226	.230	.239	1.44	.61	.7	6.1	5.6	5.1	6.0
December	30.19	30.68	29.44	37.2	39.8	39.7	45.2	32.8	39.0	56	16	34	34	34	86	80	81	.205	.207	.209	9.42	1.87	T	6.7	6.6	6.6	6.8
Year	29.98	30.68	28.80	48.3	51.9	49.2	55.1	43.9	49.5	85	7	43	44	44	83	77	82	.328	.343	.334	43.09	4.18	14.0	5.7	5.3	5.4	6.0

BOISE, IDAHO

[ϕ=43°37′ N.; λ=116°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	27.23	27.64	26.73	29.6	34.0	34.0	37.5	25.6	31.6	55	4	25	26	25	84	72	70	0.138	0.144	0.140	2.13	0.52	9.7	7.1	8.2	7.6	8.4
February	27.07	27.62	26.40	23.9	32.0	32.5	36.8	19.9	28.4	57	−3	19	21	22	80	63	65	.107	.118	.125	2.26	.58	13.2	8.7	8.5	8.6	8.7
March	27.18	27.60	26.51	33.4	44.0	47.3	50.3	30.1	40.2	68	19	26	26	25	74	52	42	.141	.144	.135	.73	.29	4.8	5.4	6.5	6.4	6.7
April	27.18	27.66	26.72	44.5	61.0	63.9	65.9	42.3	54.1	88	11	35	34	32	72	39	34	.212	.205	.187	.70	.31	T	5.1	4.9	5.3	5.4
May	27.11	27.40	26.66	52.0	70.0	73.9	76.4	49.2	62.8	95	35	39	39	36	64	34	28	.244	.244	.220	.60	.36	T	3.6	3.7	5.0	4.4
June	27.09	27.38	26.82	57.7	76.0	79.5	82.3	56.0	69.2	104	47	47	46	45	71	39	33	.329	.326	.305	1.59	.76	.0	4.8	4.3	4.5	4.4
July	27.07	27.22	26.81	64.4	85.6	90.9	93.5	63.1	78.3	104	54	48	51	48	57	32	25	.341	.382	.343	.41	.17	.0	2.6	3.0	3.7	3.3
August	27.12	27.36	26.91	62.5	84.0	87.6	89.9	60.1	75.0	100	48	46	47	45	56	28	25	.321	.329	.318	.38	.28	.0	3.3	2.2	3.4	2.8
September	27.17	27.51	26.75	49.7	70.9	74.0	76.3	47.6	62.0	90	34	36	37	38	60	30	28	.220	.226	.237	.07	.07	.0	2.3	1.9	1.8	1.9
October	27.25	27.54	26.85	43.4	65.6	65.0	69.0	40.9	55.0	85	30	30	33	35	59	30	33	.169	.189	.205	.04	.02	.0	2.6	1.9	2.4	2.7
November	27.48	27.77	26.93	29.1	44.8	43.9	49.0	25.8	37.4	59	18	18	21	23	61	39	43	.097	.113	.123	.01	.01	T	1.9	2.6	4.0	3.2
December	27.21	27.66	26.66	31.3	38.8	38.2	42.2	28.1	35.2	56	16	25	27	27	77	62	65	.135	.145	.149	.78	.36	2.6	6.5	8.1	7.8	7.7
Year	27.18	27.77	26.40	43.5	58.9	60.9	64.1	40.7	52.4	104	−3	33	34	33	68	43	41	.204	.214	.207	9.79	.76	30.3	4.5	4.6	5.0	5.0

BOSTON, MASS.[1]

[ϕ=42°22′ N.; λ=71°02′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.88	30.47	29.06	23.5	30.0	28.0	35.3	21.0	28.2	54	4	17	19	19	75	61	67	0.108	0.117	0.114	6.40	1.60	0.0	5.5	4.7	4.1	5.1
February	30.01	30.46	29.30	19.4	25.8	24.4	30.1	15.5	22.8	46	4	10	14	12	66	59	58	.079	.093	.084	3.66	1.48	.0	4.9	5.0	4.7	5.4
March	29.89	30.39	29.03	38.4	44.4	41.3	49.1	34.4	41.8	70	15	32	33	32	78	68	73	.191	.201	.195	6.40	1.78	.0	6.0	6.1	5.3	6.5
April	29.95	30.41	29.35	42.1	48.8	45.9	52.7	37.8	45.2	80	29	32	32	33	69	57	63	.192	.198	.201	3.54	1.20	.0	6.1	7.2	6.6	6.7
May	29.95	30.60	29.41	57.7	65.5	59.7	71.1	50.2	60.6	91	34	45	46	46	64	51	64	.316	.328	.330	1.70	.95	.0	3.9	4.8	5.2	5.0
June	29.87	30.30	29.39	65.4	70.4	65.9	74.1	58.2	66.2	85	52	55	55	55	71	61	72	.442	.441	.447	2.37	1.44	.0	5.9	6.3	6.1	6.2
July	29.83	30.26	29.43	68.5	76.7	71.4	80.0	62.2	71.1	98	57	59	59	60	72	57	70	.501	.515	.525	1.04	.48	.0	5.4	5.7	5.6	5.9
August	29.97	30.28	29.64	68.0	74.8	68.8	78.0	61.4	69.7	94	54	60	59	60	78	60	76	.535	.501	.535	5.15	2.09	.0	4.7	5.4	5.3	5.4
September	30.06	30.46	29.58	59.9	66.6	61.7	70.0	55.2	62.6	90	41	53	53	54	78	64	78	.413	.426	.444	3.70	3.31	.0	5.6	6.6	5.9	6.3
October	30.04	30.59	29.16	50.8	59.4	53.7	62.8	46.1	54.4	79	25	43	44	43	75	58	69	.300	.313	.308	2.67	1.64	.0	4.8	5.9	3.2	5.1
November	29.96	30.64	29.25	36.5	42.5	39.4	47.5	31.5	39.5	75	13	28	27	28	70	55	63	.173	.168	.175	1.33	.50	.0	5.8	4.8	5.6	5.5
December	30.20	30.77	29.32	32.4	37.7	36.2	42.9	27.0	35.0	59	10	27	28	28	79	68	72	.161	.165	.166	8.19	1.81	.0	6.7	6.8	6.7	6.8
Year	29.97	30.77	29.03	46.9	53.6	49.7	57.8	41.7	49.8	98	4	38	39	39	73	60	69	.284	.289	.294	46.30	3.31	.0	5.4	5.8	5.4	5.8

BROWNSVILLE, TEX.

[ϕ=25°54′ N.; λ=97°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.94	30.36	29.46	53.1	61.6	58.6	65.8	49.1	57.4	83	32	50	49	51	90	67	77	0.395	0.378	0.401	0.41	0.18	0.0	6.1	6.1	4.9	6.0
February	29.91	30.32	29.46	52.6	62.8	59.7	67.1	49.7	58.4	88	28	50	51	54	92	69	81	.386	.413	.443	1.56	.71	.0	7.2	7.4	7.0	7.5
March	29.82	30.21	29.50	63.3	75.0	69.9	77.3	61.6	69.4	88	51	61	60	61	91	61	75	.546	.534	.555	.58	.38	.0	6.5	5.8	5.7	6.0
April	29.92	30.22	29.40	64.7	75.6	71.3	78.6	63.1	70.8	92	48	61	58	61	88	58	71	.557	.516	.563	2.02	1.77	.0	4.8	4.9	4.1	4.9
May	29.83	30.05	29.57	70.8	81.6	76.9	83.9	69.4	76.6	91	63	69	67	69	93	63	77	.705	.671	.708	4.05	1.82	.0	5.3	7.2	5.3	5.6
June	29.78	29.95	29.55	77.0	88.5	83.8	90.7	75.5	83.1	96	71	74	71	73	90	56	70	.826	.756	.813	.66	.54	.0	1.9	5.2	1.8	3.3
July	29.85	30.00	29.66	77.7	86.5	83.0	89.5	76.0	82.8	96	71	75	73	74	92	64	75	.873	.807	.838	5.43	3.07	.0	4.2	6.3	5.2	5.4
August	29.85	30.00	29.69	76.7	87.8	82.9	90.4	75.4	82.9	96	70	74	71	73	92	59	74	.854	.761	.818	6.70	4.39	.0	4.7	6.5	5.1	5.5
September	29.82	30.03	29.48	75.0	83.9	79.8	86.4	73.8	80.1	91	60	73	72	74	93	68	81	.810	.794	.835	8.15	3.23	.0	4.5	7.2	5.4	5.9
October	29.93	30.15	29.74	64.4	75.9	71.8	79.1	62.9	71.0	88	51	61	61	63	89	63	76	.553	.554	.594	.61	.22	.0	5.6	5.7	4.4	5.4
November	30.09	30.47	29.72	58.8	68.4	64.3	71.2	56.4	63.8	85	42	52	54	55	81	62	73	.429	.455	.458	.45	.22	.0	7.4	7.1	6.7	7.5
December	30.00	30.36	29.64	57.7	68.1	63.7	70.8	54.9	62.8	80	39	55	54	57	89	64	80	.450	.447	.487	2.41	1.20	.0	5.0	5.1	4.9	5.3
Year	29.90	30.47	29.40	66.0	76.3	72.1	79.2	64.0	71.6	96	28	63	62	64	90	63	76	.615	.590	.626	33.03	4.39	.0	5.3	6.2	5.0	5.7

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

BLOCK ISLAND, R. I.

[H=35 ft.; H_b=26 ft.; h_t=11 ft.; h_r=3 ft.; h_a=46 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	19.4	W.	54	NE.	17	5	3	3	5	4	3	18	21	0	7	10	14	14	13	4	3	0	5	1	10	0	22	0	0
February	17.6	W.	49	NW.	11	10	3	7	3	4	1	21	9	0	10	7	12	12	10	5	5	0	9	7	17	0	25	0	0
March	15.5	S.	43	NW.	7	3	5	3	12	19	5	9	5	1	7	11	13	15	11	3	3	1	19	13	1	0	8	2	0
April	16.2	W.	39	W.	6	8	4	3	2	11	10	15	7	0	6	11	13	13	11	0	0	0	12	7	0	0	2	3	0
May	15.3	SW.	33	SW.	3	4	2	2	0	13	22	11	8	0	14	12	5	8	6	0	0	0	14	7	0	0	0	3	0
June	13.9	SW.	38	NE.	1	5	9	6	4	9	16	7	3	1	7	11	12	10	6	0	0	0	18	13	0	0	0	1	0
July	12.0	SW.	36	N.	1	2	6	6	5	9	24	2	8	0	11	12	8	6	5	0	0	0	15	7	0	0	0	8	0
August	13.1	SW.	34	W.	2	3	10	5	9	10	18	5	2	0	7	17	7	9	6	0	0	0	18	7	0	0	0	7	0
September	14.4	SW.	58	N.	3	5	10	6	3	12	17	3	4	0	6	11	13	8	7	0	0	0	16	6	0	0	0	1	0
October	15.2	S.	55	SE.	6	7	2	2	6	16	10	7	10	2	10	9	12	9	7	0	0	0	13	5	0	0	1	0	0
November	18.7	NW.	51	NW.	7	5	4	1	0	8	15	9	18	0	8	10	12	8	6	2	2	0	8	1	2	0	13	0	0
December	18.5	N.	44	SE.	10	11	4	11	4	3	8	9	12	0	8	6	17	15	14	1	0	0	11	5	0	0	11	0	0
Year	15.8	SW.	58	N.	74	68	62	55	53	118	149	116	107	4	101	127	138	127	102	15	13	1	158	79	30	0	82	25	0

BOISE, IDAHO

[H=2,705 ft.; H_b=2,739 ft.; h_t=79 ft.; h_r=72 ft.; h_a=87 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.3	SE.	21	SE.	0	3	2	1	31	2	1	5	16	1	2	3	26	19	15	14	10	0	5	3	9	0	22	0	0
February	5.4	SE.	24	N.	0	4	1	0	22	2	3	6	14	6	1	3	25	14	13	17	13	0	1	0	11	0	26	1	0
March	6.4	SE.	24	NW.	0	7	1	5	19	3	0	2	20	5	6	12	13	11	7	10	8	0	0	0	0	0	22	0	0
April	6.3	SE.	26	NW.	0	7	2	3	21	3	1	2	18	3	9	12	9	6	5	1	0	0	0	0	0	0	4	1	0
May	6.4	NW.	22	NW.	0	4	1	3	12	3	3	8	27	1	13	11	7	3	3	1	1	1	0	0	0	3	0	1	0
June	5.5	NW.	21	SE.	0	9	3	4	16	1	2	3	18	4	15	6	9	10	6	0	0	2	0	0	0	8	0	8	1
July	5.2	NW.	24	SE.	0	5	0	4	17	6	0	4	24	2	18	8	5	4	4	0	0	0	0	0	0	22	0	3	0
August	5.0	SE.	25	SW.	0	9	1	6	12	3	3	6	18	4	19	9	3	4	2	0	0	0	0	0	0	18	0	4	0
September	4.8	NW.	23	NW.	0	11	0	1	12	3	0	8	22	3	21	6	3	1	1	0	0	0	0	0	0	1	0	1	0
October	4.8	SE.	18	SE.	0	4	0	4	18	1	0	10	25	0	18	12	1	2	0	0	0	0	0	0	0	0	1	0	0
November	4.0	SE.	19	N.	0	3	2	2	11	1	0	10	27	4	18	9	3	1	0	2	1	0	3	0	0	0	28	0	0
December	5.0	SE.	23	SE.	0	7	1	3	29	2	0	1	16	3	4	5	22	9	4	6	2	0	2	1	2	0	24	0	0
Year	5.4	SE.	26	NW.	0	73	14	36	220	30	13	65	245	36	144	96	126	84	60	51	35	3	11	4	22	52	127	19	1

BOSTON, MASS.[1]

[H=16 ft.; H_b=29 ft.; h_t=31 ft.; h_r=3 ft.; h_a=50 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	12.6	W.	40	NE.	5	7	3	2	1	6	8	21	14	0	14	4	13	15	11	13	7	0	10	0	11	0	26	0	0
February	11.5	W.	37	NE.	3	10	1	7	2	4	4	22	8	0	13	4	12	9	5	9	5	0	9	3	17	0	26	0	0
March	10.7	E.	31	W.	0	7	5	11	4	11	8	8	7	1	9	7	15	12	10	5	2	0	12	6	2	0	9	1	0
April	12.3	W.	36	S.	1	6	4	3	2	9	11	14	11	0	5	11	14	14	9	3	0	0	9	0	0	0	1	1	2
May	11.2	SW.	34	SW.	1	8	3	4	1	11	15	11	9	0	12	10	9	8	5	0	0	1	6	1	0	2	0	6	0
June	10.0	SW.	28	W.	0	5	8	11	1	8	10	10	6	1	6	10	14	9	6	0	0	0	12	5	0	0	0	3	1
July	9.1	W.	34	NW.	1	3	12	6	5	6	10	11	9	0	7	15	9	9	6	0	0	1	9	4	0	3	0	7	0
August	8.7	E.	27	N.	0	7	8	6	5	5	14	7	6	4	9	13	9	11	10	0	0	1	12	4	0	4	0	8	0
September	9.8	SW.	39	N.	3	5	11	4	3	12	16	4	5	0	4	15	11	11	7	0	0	0	9	3	0	0	0	3	0
October	10.0	SW.	38	SE.	3	4	2	2	2	18	12	13	9	0	13	7	11	8	5	0	0	0	8	1	0	0	3	0	0
November	11.3	W.	31	NW.	0	4	2	2	1	7	14	15	15	0	11	9	10	9	8	4	2	0	8	1	3	0	16	0	0
December	11.0	NW.	37	S.	1	10	4	0	7	4	12	7	18	0	8	5	18	16	14	6	2	0	12	5	4	0	20	0	0
Year	10.7	W.	40	NE.	18	76	63	58	34	101	134	143	117	6	111	110	145	131	96	40	18	3	116	33	37	9	101	29	3

BROWNSVILLE, TEX.

[H=35 ft.; H_b=57 ft.; h_t=88 ft.; h_r=80 ft.; h_a=96 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.4	NW.	38	S.	3	8	3	8	11	8	1	0	23	0	12	4	15	10	4	0	0	0	8	1	0	0	1	1	0
February	12.2	NW.	34	N.	1	12	3	7	14	5	0	1	16	0	2	11	16	12	7	0	0	0	11	3	0	0	1	0	0
March	10.8	SE.	32	N.	2	8	3	12	25	7	0	0	7	0	8	12	11	5	4	0	0	0	10	0	0	0	0	1	0
April	12.2	SE.	35	NW.	2	10	1	9	29	3	0	0	7	1	13	10	7	6	3	0	0	0	6	1	0	1	0	1	0
May	9.5	SE.	39	SE.	1	5	2	11	32	1	1	1	9	0	8	15	8	11	10	0	0	0	2	1	0	1	0	10	0
June	10.3	SE.	26	SE.	0	4	4	17	26	1	1	1	6	0	19	10	1	3	3	0	0	0	0	0	0	21	0	2	0
July	9.8	SE.	26	E.	0	1	4	14	39	3	0	1	0	0	10	14	7	9	7	0	0	0	0	0	0	10	0	4	0
August	8.7	E.	24	NE.	0	4	6	23	17	1	1	1	5	4	9	14	8	9	8	0	0	0	0	0	0	4	0	7	0
September	9.8	SE.	31	S.	0	5	3	18	25	1	0	1	5	2	5	18	7	14	13	0	0	0	0	0	0	0	0	0	0
October	9.8	NW.	27	NW.	0	5	5	11	9	2	1	4	24	1	11	9	11	8	6	0	0	0	9	2	0	0	0	0	0
November	10.3	NW.	33	NW.	1	10	3	9	10	2	1	2	23	0	2	9	19	5	4	0	0	0	3	1	0	0	0	0	0
December	10.8	SE.	30	S.	0	6	2	15	10	12	2	0	15	0	9	12	10	10	7	0	0	0	4	0	0	0	0	0	0
Year	10.5	SE.	39	SE.	10	78	39	154	247	46	8	12	140	8	108	138	120	102	76	0	0	0	53	9	0	59	2	33	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

BUFFALO, N. Y.

[ϕ=42°53′ N.; λ=78°53′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.11	29.68	28.39	21.3	23.3	23.7	28.1	18.2	23.2	46	−3	18	19	20	84	82	86	0.103	0.108	0.116	2.26	0.47	20.0	9.5	8.6	8.0	8.6
February	29.19	29.66	28.28	16.0	18.8	18.1	25.6	11.4	18.5	49	−3	12	14	15	82	80	85	.085	.091	.091	2.37	.52	14.3	7.0	7.4	5.2	7.1
March	29.03	29.51	28.45	32.6	36.8	35.6	41.5	28.5	35.0	59	9	27	29	30	80	75	81	.152	.167	.175	7.03	2.62	38.5	7.2	8.0	6.7	7.5
April	29.15	29.62	28.49	36.6	40.3	39.2	46.1	32.4	39.2	70	22	31	32	33	80	74	80	.182	.192	.201	1.78	.30	2.3	8.4	8.5	7.8	8.1
May	29.21	29.75	28.68	51.6	54.1	54.3	61.9	44.9	53.4	82	32	46	46	46	82	75	75	.319	.315	.322	.92	.30	.0	4.6	4.7	5.3	5.0
June	29.10	29.44	28.60	63.0	68.0	68.1	73.4	57.3	65.4	89	49	55	56	55	76	67	65	.445	.466	.445	1.08	.42	.0	4.7	3.9	4.6	4.7
July	29.10	29.52	28.83	68.5	74.0	73.9	78.4	64.0	71.2	96	53	58	58	57	69	58	58	.484	.483	.480	1.08	.87	.0	3.1	4.3	4.1	4.0
August	29.18	29.54	28.86	67.2	72.6	70.8	77.0	62.4	69.7	87	53	57	59	57	70	64	64	.470	.517	.483	1.94	.65	.0	4.5	5.2	4.5	5.0
September	29.24	29.56	28.80	60.8	67.3	65.0	70.7	56.2	63.4	86	37	53	55	54	78	66	70	.433	.458	.443	2.91	.93	.0	4.7	4.9	4.4	5.1
October	29.21	29.65	28.48	47.8	53.0	52.6	58.5	44.8	51.6	76	24	42	44	44	82	72	75	.289	.306	.312	2.90	.61	T	6.8	6.3	6.4	6.6
November	29.18	29.82	28.56	33.0	36.4	35.8	41.2	28.9	35.0	67	10	28	29	30	81	75	78	.168	.177	.175	1.76	.56	9.7	8.1	7.5	6.2	7.7
December	29.34	29.79	28.51	31.9	35.1	34.6	39.6	28.0	33.8	58	6	26	27	29	79	73	80	.149	.153	.167	1.74	.83	6.2	7.9	6.9	6.6	7.1
Year	29.17	29.82	28.28	44.2	48.3	47.6	53.5	39.8	46.6	96	−3	38	39	39	79	72	75	.273	.286	.284	27.77	2.62	91.0	6.4	6.4	5.8	6.4

BURLINGTON, VT.

[ϕ=44°29′ N.; λ=73°12′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.49	30.17	28.60	13.3	18.5	-----	23.2	7.2	15.2	40	−15	9	12	---	82	75	---	0.076	0.087	-----	3.46	0.72	28.6	8.1	7.8	----	7.6
February	29.59	30.07	28.84	9.5	18.1	-----	22.5	4.6	13.6	43	−9	4	9	---	76	65	---	.058	.069	-----	1.48	.41	16.3	6.9	6.4	----	6.5
March	29.43	29.98	28.60	33.0	39.7	38.1	45.1	28.1	36.6	63	−6	27	30	30	80	69	73	.163	.181	0.183	3.80	1.16	3.8	6.4	6.5	7.1	6.9
April	29.50	29.97	28.81	38.7	43.7	42.4	48.1	34.4	41.2	73	24	31	32	32	75	64	66	.187	.194	.186	3.48	.76	7.1	7.1	7.4	8.0	7.7
May	29.52	30.24	29.04	54.2	62.0	58.7	67.7	47.1	57.4	89	29	45	46	46	71	57	65	.319	.336	.332	2.88	.80	T	7.1	6.1	7.9	6.7
June	29.45	29.87	28.98	62.8	70.4	66.6	74.9	54.2	64.6	86	42	51	52	52	68	53	60	.393	.398	.394	1.51	.60	.0	5.4	6.2	5.2	5.9
July	29.42	29.85	29.13	66.2	74.0	69.0	77.4	57.9	67.6	91	47	57	57	56	72	57	65	.469	.480	.465	3.67	1.60	.0	6.4	5.5	5.9	5.7
August	29.55	29.85	29.23	62.8	70.8	67.0	75.5	56.0	65.8	87	45	55	56	55	76	61	67	.434	.450	.440	3.94	1.68	.0	6.9	6.4	7.0	6.5
September	29.64	30.06	29.08	56.2	64.8	59.9	68.3	49.3	58.8	84	30	50	50	51	81	61	74	.383	.388	.397	2.77	.74	.0	6.2	6.4	4.8	5.9
October	29.58	30.20	28.64	45.4	51.3	47.8	56.3	39.6	48.0	74	22	39	40	39	78	66	72	.256	.266	.260	4.75	.87	.1	6.4	5.3	4.5	6.0
November	29.53	30.22	28.84	29.1	32.7	31.7	38.9	23.4	31.2	68	1	24	25	25	81	72	74	.140	.149	.150	2.30	1.39	11.8	8.3	8.4	7.2	8.0
December	29.77	30.32	28.70	23.9	28.2	26.2	34.7	16.6	25.6	53	−5	19	21	21	81	73	80	.113	.120	.121	2.20	.94	15.3	7.8	7.7	6.8	7.5
Year	29.54	30.32	28.60	41.3	47.8	-----	52.7	34.9	43.8	91	−15	34	36	---	77	64	---	.249	.260	-----	36.24	1.68	83.0	6.9	6.7	----	6.7

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: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.70	30.25	29.22	26.1	32.2	32.9	38.1	23.5	30.8	66	−3	22	24	25	83	71	73	0.132	0.142	0.148	0.95	0.60	1.4	7.0	7.7	5.9	7.3
February	29.72	30.09	29.02	26.8	33.2	34.3	39.4	22.7	31.0	71	−4	20	24	26	76	67	70	.139	.157	.165	2.01	.68	8.0	6.7	5.7	7.4	6.2
March	29.52	29.89	29.16	45.0	57.4	57.0	63.3	42.2	52.8	76	29	38	39	41	77	53	58	.238	.257	.268	4.04	1.45	T	6.4	5.5	6.1	5.5
April	29.67	30.07	29.04	48.9	57.8	58.4	63.6	46.4	55.0	84	26	42	42	44	77	58	61	.285	.297	.311	3.79	1.91	T	5.7	5.6	5.1	5.7
May	29.67	29.96	29.33	64.2	77.1	76.1	81.3	62.0	71.6	89	49	57	57	57	79	52	54	.481	.474	.477	1.72	.99	.0	4.2	5.2	5.1	4.8
June	29.53	29.76	29.16	70.1	84.9	85.0	89.7	66.8	78.2	101	58	60	60	60	72	44	45	.532	.521	.526	2.18	2.55	.0	4.0	3.7	3.5	3.7
July	29.56	29.88	29.38	75.8	87.3	87.2	91.7	73.6	82.6	105	62	70	71	72	84	60	62	.756	.769	.793	2.64	.86	.0	5.3	4.5	5.4	4.7
August	29.60	29.78	29.40	74.9	89.1	87.5	93.0	73.9	83.4	101	63	68	66	66	78	47	50	.682	.646	.652	.12	.07	.0	4.2	4.6	4.2	4.2
September	29.62	29.89	29.25	68.6	80.6	76.7	84.0	67.1	75.6	94	52	64	65	66	86	60	70	.615	.633	.645	3.57	2.01	.0	6.1	6.7	6.7	6.3
October	29.70	30.04	29.34	53.0	64.3	62.1	68.8	51.3	60.0	81	35	49	49	52	86	60	69	.363	.366	.402	3.81	1.34	.0	5.8	5.7	5.8	5.6
November	29.80	30.13	29.39	38.2	48.9	47.3	54.2	34.9	44.6	79	20	32	31	33	78	52	58	.191	.189	.201	2.78	2.30	4.3	4.6	3.8	3.6	4.1
December	29.79	30.13	29.20	37.6	45.1	44.2	50.3	34.3	42.3	66	18	32	34	34	82	67	67	.201	.209	.204	4.06	1.44	T	6.6	6.2	5.4	6.2
Year	29.66	30.35	29.02	52.4	63.2	62.4	68.1	49.9	59.0	105	−4	46	47	48	80	58	61	.385	.388	.399	31.67	2.55	13.7	5.6	5.4	5.4	5.4

CANTON, N. Y.

[ϕ=44°36′ N.; λ=75°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.46	30.11	28.65	12.1	17.1	14.8	21.8	6.7	14.2	42	−15	10	13	13	94	84	92	0.083	0.092	0.087	2.27	0.71	15.4	8.3	7.6	7.0	7.7
February	29.54	30.06	28.64	9.0	17.6	13.2	20.9	3.3	12.1	46	−11	8	12	11	94	77	91	.067	.081	.074	2.14	.61	15.1	6.9	6.9	4.9	6.5
March	29.38	29.94	28.61	30.7	38.3	34.3	42.7	24.9	33.8	61	−8	27	29	29	85	71	82	.156	.172	.169	2.94	.44	12.8	6.6	7.8	7.2	7.3
April	29.46	29.96	28.71	38.3	44.4	41.6	48.0	32.6	40.3	70	21	33	35	35	80	70	79	.199	.214	.218	3.50	.66	2.8	7.6	8.3	7.8	7.9
May	29.49	30.17	29.00	54.7	63.4	58.7	68.2	44.9	56.6	87	24	46	50	49	73	62	72	.327	.389	.368	1.83	.83	T	6.0	6.3	6.2	6.2
June	29.41	29.81	28.89	63.4	70.4	66.4	75.2	53.2	64.2	88	39	52	51	53	69	53	64	.410	.396	.418	4.24	2.51	.0	5.2	6.9	5.9	5.7
July	29.39	29.81	29.12	66.6	74.5	69.9	79.3	56.2	67.8	95	45	57	56	57	73	55	65	.480	.471	.476	5.73	2.88	.0	4.3	5.4	5.8	5.4
August	29.51	29.83	29.16	62.8	71.8	66.2	75.9	54.0	65.0	87	41	55	55	56	76	57	71	.441	.447	.458	4.77	1.71	.0	6.0	6.6	6.5	6.4
September	29.59	29.97	29.04	57.4	67.5	59.8	71.2	49.3	60.2	86	30	50	51	51	78	57	74	.387	.406	.394	5.08	1.65	.0	5.2	6.0	4.6	5.8
October	29.53	30.12	28.67	44.4	51.3	47.3	57.2	38.2	47.7	75	14	39	39	40	82	66	75	.261	.269	.265	4.31	.90	1.5	6.7	6.4	5.9	6.7
November	29.50	30.18	28.83	28.3	33.5	31.0	38.5	21.5	30.0	67	−8	24	26	25	85	74	80	.144	.161	.152	2.70	.88	12.3	7.6	7.8	6.5	7.8
December	29.70	30.25	28.65	23.3	28.7	25.6	35.6	14.5	25.0	58	−15	20	21	22	86	73	86	.117	.121	.126	2.06	.48	10.3	7.3	7.0	6.5	6.9
Year	29.50	30.25	28.61	40.9	48.2	44.1	52.9	33.3	43.1	95	−15	35	36	37	81	67	78	.256	.268	.267	41.57	2.88	70.2	6.5	6.9	6.2	6.7

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

BUFFALO, N. Y.

[H=604 ft.; H_b=768 ft.; h_t=243 ft.; h_r=238 ft.; h_a=280 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	18.4	SW.	56	W.	13	1	3	6	7	8	17	15	5	0	2	5	24	24	16	25	20	0	2	0	15	0	28	0	0
February	19.7	SW.	70	SW.	15	1	4	6	4	4	28	10	1	0	4	9	16	17	14	23	16	0	4	1	21	0	27	0	0
March	15.6	SW.	61	SW.	10	2	10	6	7	9	18	8	2	0	4	8	19	19	13	15	11	0	9	1	5	0	22	2	0
April	15.0	SW.	57	W.	7	0	4	7	4	9	18	14	4	0	2	6	22	18	13	14	5	0	10	0	2	0	16	0	0
May	14.6	SW.	47	W.	9	0	2	3	2	5	34	7	9	0	12	10	9	14	6	0	0	0	9	1	0	0	1	5	0
June	12.2	SW.	50	W.	5	3	10	3	5	7	20	6	6	0	14	10	6	9	6	0	0	1	1	0	0	0	0	4	2
July	11.2	SW.	32	SW.	1	6	8	2	1	4	20	12	9	0	14	16	1	5	4	0	0	0	1	0	0	1	0	4	0
August	13.0	SW.	43	SW.	4	2	12	11	1	16	13	4	3	0	10	13	8	10	8	0	0	0	2	0	0	0	0	5	0
September	13.1	SW.	50	SW.	4	1	10	13	3	12	12	3	6	0	11	10	9	10	8	0	0	0	3	0	0	0	0	4	0
October	15.3	SW.	56	SW.	11	0	7	4	2	16	9	13	11	0	3	12	16	11	10	3	1	0	5	0	0	0	6	2	0
November	18.5	W.	54	SW.	14	1	6	3	0	9	12	16	13	0	4	7	19	15	11	15	9	0	4	0	6	0	20	2	0
December	16.8	S.	50	SW.	12	1	2	5	8	14	14	11	7	0	6	9	16	10	6	10	4	0	10	0	5	0	22	0	0
Year	15.3	SW.	70	SW.	105	18	78	69	44	113	215	119	76	0	86	115	165	162	115	105	66	1	60	3	54	1	142	28	2

BURLINGTON, VT.

[H=398 ft.; H_b=403 ft.; h_t=11 ft.; h_r=3 ft.; h_a=48 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.1	S.	34	S.	3	5	4	3	7	6	0	0	6	0	5	6	20	19	16	22	17	0	4	1	22	0	31	0	0
February	10.2	S.	43	S.	3	2	0	4	4	9	4	2	4	0	6	7	16	11	8	15	10	0	5	0	25	0	29	0	1
March	10.8	S.	38	S.	3	7	3	1	18	12	3	5	13	0	7	8	16	17	11	10	5	0	13	6	5	0	18	0	0
April	10.7	S.	38	S.	3	7	2	4	8	19	1	8	11	0	5	6	19	16	13	8	5	0	10	1	0	0	13	3	0
May	10.3	S.	29	S.	0	9	1	1	3	23	4	6	15	0	3	14	14	11	10	1	0	1	8	3	0	0	3	7	0
June	8.7	S.	30	S.	0	8	2	0	6	21	6	5	12	0	7	10	13	6	4	0	0	0	7	1	0	0	0	3	0
July	6.9	NW.	26	S.	0	12	0	3	2	18	2	8	17	0	8	14	9	11	8	0	0	0	6	0	0	1	0	10	0
August	7.6	S.	26	S.	0	14	1	5	7	19	6	0	10	0	6	11	14	11	9	0	0	0	7	0	0	0	0	5	0
September	9.6	S.	29	S.	0	6	7	5	3	25	1	1	12	0	4	19	7	12	9	0	0	0	10	1	0	0	2	2	0
October	11.5	S.	35	NW.	3	3	5	3	9	23	6	6	7	0	9	8	14	15	14	3	1	0	15	0	0	0	7	0	0
November	12.2	S.	34	S.	2	6	3	3	7	23	1	1	16	0	2	4	24	16	10	17	10	0	12	2	7	0	20	0	0
December	11.7	S.	35	S.	3	14	2	4	10	19	0	2	11	0	4	9	18	11	9	17	7	0	8	1	13	0	29	0	0
Year	10.0	S.	43	S.	20	93	30	36	84	217	34	44	134	0	66	116	184	156	121	93	55	1	105	16	72	1	152	30	1

CAIRO, ILL.

[H=315 ft.; H_b=358 ft.; h_t=87 ft.; h_r=80 ft.; h_a=93 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.9	NW.	30	N.	0	9	7	6	4	10	9	2	15	0	4	7	20	10	7	5	3	0	3	1	10	0	18	0	0
February	9.4	N.	30	S.	0	13	9	4	6	11	5	5	5	0	8	7	14	10	8	9	5	0	5	2	12	0	22	1	0
March	10.9	S.	33	S.	2	14	3	4	9	13	6	6	7	0	10	12	9	11	9	2	0	1	0	0	0	0	1	7	0
April	10.3	S.	30	N.	0	8	9	6	9	9	9	5	5	0	10	6	14	10	8	2	0	2	1	1	0	0	2	4	0
May	7.6	S.	40	SW.	1	9	10	4	14	15	3	2	3	2	12	9	10	7	5	0	0	1	0	0	0	0	0	7	0
June	8.4	N.	27	W.	0	17	16	5	1	9	9	0	2	1	16	8	6	5	3	0	0	0	0	0	0	18	0	5	0
July	7.4	SW.	27	SE.	0	8	8	1	7	17	16	5	0	0	11	14	6	7	5	0	0	0	0	0	0	19	0	9	0
August	7.3	S.	18	N.	0	4	10	1	2	34	6	1	1	3	15	13	3	3	2	0	0	0	0	0	0	22	0	1	0
September	7.6	S.	30	N.	0	12	8	3	5	21	6	3	1	1	9	5	16	9	7	0	0	0	2	0	0	7	0	9	0
October	7.8	S.	24	N.	0	14	4	6	10	13	8	2	5	0	11	6	14	9	7	0	0	0	3	1	0	0	0	4	0
November	9.1	N.	26	S.	0	14	9	0	1	11	11	3	11	0	17	5	8	5	5	3	3	0	4	2	0	0	13	2	0
December	8.1	S.	27	S.	0	13	10	6	10	11	5	1	4	2	10	4	17	10	8	1	0	0	6	2	0	0	12	1	0
Year	8.7	S.	40	SW.	3	135	103	46	78	174	93	35	59	9	133	96	137	96	74	22	11	4	24	9	22	66	68	50	0

CANTON, N. Y.

[H=406 ft.; H_b=448 ft.; h_t=10 ft.; h_r=4 ft.; h_a=61 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.5	W.	37	W.	1	3	6	9	4	1	15	22	2	0	2	9	20	15	11	20	14	0	8	0	20	0	31	0	1
February	10.6	W.	44	SW.	2	3	2	8	0	1	25	19	0	0	5	9	15	15	11	20	13	0	5	1	24	0	28	0	0
March	10.1	W.	34	SW.	1	6	3	12	4	4	18	10	5	0	4	9	18	20	17	14	8	0	10	3	7	0	22	0	1
April	10.1	W.	30	SW.	0	5	1	9	2	4	19	12	8	0	3	7	20	21	11	14	8	0	9	0	0	0	16	0	0
May	9.5	W.	29	SW.	0	8	3	9	0	2	19	17	4	0	5	14	12	16	10	1	1	0	4	1	0	0	3	2	0
June	7.4	W.	30	SW.	0	6	6	8	0	4	18	16	2	0	9	10	11	11	9	0	0	0	3	0	0	0	0	4	2
July	6.5	W.	25	W.	0	7	5	7	3	0	16	16	8	0	8	18	5	13	8	0	0	1	4	3	0	3	0	7	0
August	7.0	SW.	21	SW.	0	5	5	15	2	9	15	8	3	0	5	15	11	14	12	0	0	0	7	1	0	0	0	3	0
September	7.2	SW.	21	E.	0	8	3	12	1	6	20	5	3	2	5	18	7	13	11	0	0	0	11	4	0	0	1	3	0
October	8.9	SW.	32	W.	1	3	3	9	1	5	29	8	4	0	3	15	13	17	14	5	2	1	5	0	1	0	13	3	0
November	9.8	SW.	32	SW.	1	6	5	4	0	3	21	8	12	1	4	7	19	16	12	18	8	0	3	3	9	0	23	0	1
December	9.9	SW.	35	SW.	2	6	10	14	1	5	16	7	3	0	9	4	18	13	10	13	5	0	7	1	13	0	29	0	0
Year	8.8	SW.	44	SW.	8	66	52	116	18	44	231	148	54	3	62	135	169	184	136	105	59	2	76	17	74	3	166	22	5

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CAPE HENRY, VA.

[ϕ=36°56′ N.; λ=76°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	30.02	30.53	28.91	33.7	39.4	36.7	43.7	30.0	36.8	72	12	29	30	30	83	71	78	0.177	0.192	0.184	6.46	2.18	9.6	5.4	5.2	4.8	5.9
February	30.07	30.53	29.27	33.6	37.0	34.4	42.5	28.3	35.4	74	10	29	29	29	81	74	81	.169	.175	.168	4.80	1.46	17.2	6.1	6.1	5.0	6.7
March	29.88	30.35	29.18	48.5	56.2	50.7	60.2	43.0	51.6	81	33	42	42	42	81	64	75	.284	.288	.279	3.82	1.50	T	6.0	5.5	5.2	6.4
April	30.05	30.50	29.45	53.1	57.1	53.5	62.7	46.4	54.6	88	37	43	42	45	70	61	75	.289	.287	.312	4.50	1.51	.0	4.8	4.3	5.3	5.3
May	30.05	30.57	29.63	65.1	70.6	64.2	74.0	58.0	66.0	93	48	56	55	55	72	60	74	.448	.443	.444	.44	.39	.0	3.1	3.1	2.7	3.2
June	29.91	30.15	29.55	71.6	77.4	72.0	80.6	65.5	73.0	103	57	63	64	64	76	66	78	.584	.602	.612	3.81	1.43	.0	5.7	4.4	5.2	4.9
July	29.89	30.25	29.66	77.3	83.0	77.0	86.1	71.1	78.6	97	62	70	70	71	79	67	82	.740	.748	.759	2.70	1.12	.0	5.9	5.7	5.9	6.3
August	30.00	30.29	29.80	77.4	83.2	77.1	85.8	71.8	78.8	97	60	71	70	70	80	66	80	.758	.749	.746	1.03	.48	.0	5.0	5.0	5.4	5.0
September	30.04	30.32	29.14	72.0	77.2	72.0	79.3	67.7	73.5	93	59	66	66	66	80	70	82	.636	.644	.646	4.52	3.78	.0	5.0	4.9	4.2	5.1
October	30.08	30.42	29.35	63.5	68.8	64.3	70.5	59.1	64.8	81	41	57	57	57	81	67	78	.498	.493	.492	5.88	2.71	.0	4.5	5.1	4.0	4.7
November	30.08	30.56	29.51	47.9	55.3	50.8	57.5	43.1	50.3	82	24	40	40	40	75	59	66	.271	.274	.271	1.69	.59	.0	5.8	5.0	4.1	5.2
December	30.21	30.70	29.65	43.2	48.0	45.0	52.1	39.2	45.6	70	29	39	40	40	85	75	83	.248	.256	.257	5.43	1.69	T	6.5	6.5	4.8	6.5
Year	30.02	30.70	28.91	57.2	62.8	58.1	66.2	51.9	59.1	103	10	50	50	51	79	67	78	.425	.429	.431	45.08	3.78	26.8	5.3	5.1	4.7	5.4

CHARLES CITY, IOWA

[ϕ=43°04′ N.; λ=92°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.96	29.46	28.36	2.7	10.4	7.8	14.9	−2.9	6.0	36	−29	1	4	5	90	74	85	0.058	0.066	0.062	1.44	0.43	14.8	7.0	5.8	6.5	6.0
February	28.99	29.35	28.28	−2.2	7.3	4.8	11.9	−7.6	2.2	40	−24	−4	0	1	89	69	82	.043	.050	.052	1.97	.52	25.4	6.3	6.4	6.8	6.3
March	28.77	29.29	28.20	28.3	37.0	36.2	42.1	25.9	34.0	71	5	24	25	28	82	62	71	.131	.145	.159	3.14	2.25	1.6	6.4	5.7	6.6	6.1
April	28.96	29.30	28.57	36.6	48.0	47.4	53.2	32.2	42.7	78	12	29	30	32	73	52	57	.169	.182	.197	2.34	2.12	5.0	6.0	5.3	5.4	5.2
May	28.93	29.28	28.42	59.4	71.6	69.0	75.9	53.4	64.6	92	39	50	50	52	73	49	58	.377	.381	.407	2.28	1.11	.0	4.9	5.8	4.5	5.0
June	28.88	29.26	28.22	62.1	75.2	72.6	79.4	55.3	67.4	96	43	51	52	53	69	47	52	.387	.404	.414	1.62	1.18	.0	3.7	5.1	4.3	4.6
July	28.87	29.36	28.55	72.7	90.8	87.6	94.1	66.3	80.2	106	48	59	56	57	63	33	36	.511	.459	.474	.80	.25	.0	2.3	2.6	2.5	2.3
August	28.90	29.16	28.59	67.2	83.9	80.8	87.5	63.2	75.4	98	50	59	58	59	76	45	51	.509	.500	.521	7.52	2.54	.0	4.3	3.3	4.8	3.9
September	28.92	29.37	28.62	58.5	71.8	66.9	74.5	55.3	64.9	92	40	55	55	58	90	59	74	.458	.471	.501	8.26	2.99	.0	4.7	3.6	4.0	4.3
October	28.96	29.50	28.49	41.5	54.0	47.8	57.3	37.2	47.2	75	19	37	38	38	83	56	71	.233	.248	.251	1.58	.65	.0	5.7	5.5	3.7	5.0
November	29.03	29.57	28.39	26.9	37.5	32.8	39.8	23.0	31.4	61	6	23	26	26	84	63	74	.126	.145	.142	1.35	.80	3.4	4.8	5.5	4.0	5.2
December	29.00	29.38	28.07	22.5	29.4	26.8	33.8	16.8	25.3	55	−9	19	22	22	86	73	80	.117	.132	.129	1.67	.69	6.5	5.7	6.2	6.6	6.4
Year	28.93	29.57	28.07	39.7	51.4	48.4	55.4	34.8	45.1	106	−29	34	35	36	80	57	66	.260	.265	.276	33.97	2.99	56.7	5.2	5.1	5.0	5.0

CHARLESTON, S. C.

[ϕ=32°47′ N.; λ=79°56′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.03	30.42	29.35	43.5	51.7	47.9	54.8	39.4	47.1	70	23	39	37	40	83	61	75	0.264	0.257	0.271	2.54	0.80	0.0	5.0	4.7	4.5	5.5
February	30.05	30.42	29.36	44.0	52.3	48.6	55.8	40.9	48.4	75	24	38	38	39	81	61	72	.248	.249	.256	3.45	1.36	.0	6.5	5.6	5.8	6.2
March	29.88	30.19	29.25	55.9	64.2	59.5	67.8	52.0	59.9	83	39	50	48	50	81	60	73	.378	.372	.384	5.51	4.07	.0	5.6	5.5	5.9	6.1
April	30.04	30.39	29.55	61.3	68.5	63.6	72.0	57.0	64.5	91	39	52	52	53	72	58	71	.411	.414	.427	2.20	1.00	.0	5.1	4.2	4.7	4.7
May	30.02	30.36	29.62	71.1	77.7	72.7	80.0	66.1	73.0	93	62	63	62	64	75	60	75	.575	.567	.607	1.79	1.53	.0	4.4	3.9	3.5	4.3
June	29.90	30.19	29.70	77.4	82.7	78.3	85.3	72.2	78.8	99	63	68	67	70	74	61	76	.696	.676	.733	3.08	1.53	.0	5.3	4.4	4.2	4.4
July	29.93	30.16	29.70	80.8	88.2	81.8	90.6	75.2	82.9	101	65	72	71	73	74	57	76	.775	.751	.826	3.42	2.53	.0	4.7	5.3	6.4	5.8
August	30.00	30.18	29.79	80.4	85.8	81.1	88.2	75.1	81.6	96	68	74	73	73	80	66	78	.829	.804	.825	6.37	1.65	.0	5.3	5.7	4.7	5.5
September	29.99	30.17	29.80	76.3	83.2	79.0	85.0	72.6	78.8	92	61	70	69	71	82	64	78	.748	.723	.769	2.47	.82	.0	5.8	6.4	5.6	6.2
October	30.02	30.32	29.61	66.2	75.3	70.4	77.2	63.5	70.4	87	48	61	62	64	84	65	80	.568	.585	.619	5.55	2.46	.0	4.5	5.5	4.5	5.1
November	30.09	30.45	29.67	52.7	61.8	57.5	64.7	49.7	57.2	80	30	44	43	48	75	55	72	.331	.330	.364	.83	.53	.0	5.0	4.8	4.0	4.8
December	30.14	30.55	29.74	48.1	56.3	52.4	58.7	45.8	52.2	73	36	45	47	47	89	73	83	.313	.339	.335	2.99	.82	0	6.8	7.5	7.0	7.6
Year	30.01	30.55	29.25	63.1	70.6	66.1	73.3	59.1	66.2	101	23	56	56	58	79	62	76	.511	.506	.535	40.20	4.07	.0	5.3	5.3	5.1	5.5

CHARLOTTE, N.C.

[ϕ=35°13′ N.; λ=80°51′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.20	29.66	28.27	31.8	40.6	40.5	46.4	29.0	37.7	65	9	26	28	29	80	62	66	0.166	0.169	0.176	10.39	3.61	4.7	4.6	5.6	4.8	5.5
February	29.25	29.67	28.62	34.1	43.9	43.8	48.6	32.0	40.3	76	11	28	28	31	79	56	61	.167	.167	.184	5.25	1.68	6.7	5.4	5.9	5.1	5.9
March	29.07	29.44	28.27	48.3	59.1	57.3	64.8	45.1	55.0	83	32	42	42	41	80	56	58	.287	.285	.275	7.12	2.42	T	6.0	6.2	5.0	6.2
April	29.24	29.62	28.67	51.6	61.8	61.4	67.6	47.0	57.3	89	29	43	42	42	74	54	53	.297	.290	.284	9.01	4.08	T	6.0	5.6	5.0	5.7
May	29.25	29.68	28.81	65.8	80.0	77.4	84.8	60.5	72.6	93	50	53	50	49	64	36	38	.413	.368	.356	.01	.01	.0	2.5	3.8	3.6	3.2
June	29.12	29.42	28.89	71.8	83.7	80.5	88.3	66.6	77.4	101	55	62	59	59	73	46	52	.563	.508	.514	3.20	1.79	.0	5.1	4.1	4.9	4.5
July	29.14	29.46	28.89	75.5	86.3	82.1	91.3	70.5	80.9	101	57	68	65	66	77	52	59	.677	.627	.637	9.18	5.58	.0	6.3	6.0	6.3	6.1
August	29.24	29.49	29.00	73.5	84.9	79.6	88.8	70.1	79.4	95	60	69	67	68	86	57	69	.707	.674	.697	4.30	2.03	.0	3.9	5.3	6.0	4.9
September	29.25	29.49	28.98	68.8	80.2	75.8	83.4	65.4	74.4	92	48	63	62	64	82	57	69	.584	.577	.617	5.46	2.67	.0	4.1	5.6	5.2	5.1
October	29.28	29.58	28.74	57.5	69.3	65.1	72.7	54.8	63.8	83	38	52	52	54	84	56	70	.417	.419	.451	6.10	3.94	.0	5.4	5.4	3.4	5.3
November	29.30	29.72	28.84	42.4	55.1	52.5	59.0	40.3	49.6	78	22	35	35	37	75	48	57	.225	.232	.240	1.52	.98	T	4.0	4.4	4.7	4.8
December	29.38	29.85	28.94	40.3	47.0	46.7	52.4	37.8	45.1	67	23	36	36	38	84	70	74	.226	.229	.243	5.53	.99	T	6.8	7.2	7.0	7.3
Year	29.23	29.85	28.27	55.1	66.0	63.6	70.7	51.6	61.1	101	9	48	47	48	78	54	60	.394	.379	.390	67.07	5.58	11.4	5.0	5.4	5.1	5.4

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CAPE HENRY, VA.

[H=16 ft.; H_b=18 ft.; h_t=8 ft.; h_r=3 ft.; h_a=54 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	12.2	NW.	51	NW.	7	5	12	5	7	7	5	7	14	0	9	7	15	12	11	5	4	0	7	5	8	0	16	3	0
February	12.7	N.	49	N.	2	14	9	4	7	6	9	4	4	1	7	8	14	13	13	6	5	0	4	6	7	0	21	1	0
March	11.6	SW.	32	NW.	1	3	4	7	10	16	16	4	2	0	8	8	15	16	12	1	0	0	9	7	0	0	0	2	0
April	11.6	SE.	39	N.	2	7	7	6	12	10	9	4	5	0	12	10	8	10	9	0	0	0	4	4	0	0	0	2	0
May	11.1	SE.	36	N.	2	7	5	7	17	12	9	3	2	0	19	11	1	3	1	0	0	0	6	4	0	2	0	2	0
June	11.0	SW.	44	NW.	2	5	7	9	9	9	11	2	8	0	13	9	8	10	10	0	0	0	4	2	0	5	0	7	0
July	9.3	SW.	31	N.	0	2	7	2	10	9	18	8	6	0	7	13	11	16	13	0	0	0	1	1	0	7	0	16	0
August	10.4	SW.	26	N.	0	3	9	7	7	14	12	5	5	0	10	16	5	8	5	0	0	0	0	0	0	10	0	5	0
September	13.0	E.	[1] 75	N.	4	1	9	14	9	10	11	3	3	0	10	11	9	7	6	0	0	0	3	2	0	1	0	3	0
October	12.7	SW.	37	NW.	5	8	10	9	11	6	12	3	3	0	13	9	9	8	6	0	0	0	4	1	0	0	0	1	0
November	13.8	SW.	43	NW.	9	10	9	3	3	8	14	8	5	0	11	13	6	6	5	0	0	0	1	0	0	0	4	0	0
December	13.1	N.	35	N.	4	22	7	6	3	7	7	4	6	0	9	6	16	13	11	1	0	0	11	10	0	0	7	1	0
Year	11.9	SW.	[1] 75	N.	38	87	95	79	105	114	133	55	63	1	128	121	117	122	102	13	9	0	54	42	15	25	48	43	0

[1] Estimated.

CHARLES CITY, IOWA

[H=1,013 ft.; H_b=1,015 ft.; h_t=10 ft.; h_r=4 ft.; h_a=51 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.9	NW.	19	NW.	0	8	7	0	10	2	2	14	18	1	9	9	13	13	10	17	13	0	3	1	27	0	31	0	0
February	7.9	W.	28	SW.	0	11	6	4	7	2	3	12	12	1	8	8	13	16	9	4	16	0	0	0	24	0	29	0	0
March	9.0	W.	27	SW.	0	10	5	2	11	4	8	7	14	1	8	9	14	11	6	12	8	1	1	0	5	0	26	2	1
April	8.6	N.	24	SW.	0	14	3	5	8	8	6	4	11	1	12	6	12	7	6	4	4	1	2	1	4	0	13	2	0
May	7.2	SE.	27	SW.	0	9	6	4	14	12	7	6	3	1	12	6	13	9	7	0	0	0	2	1	0	1	0	5	0
June	6.7	N.	21	S.	0	12	8	8	14	4	7	3	4	0	12	11	7	7	4	0	0	0	0	0	9	6	0	5	0
July	6.2	SE.	24	S.	0	10	3	12	13	6	12	4	1	1	21	8	2	7	5	0	0	1	0	0	0	20	0	7	0
August	6.3	SE.	21	SE.	0	11	4	11	15	9	4	4	4	0	14	11	6	15	11	0	0	0	1	0	0	11	0	10	0
September	6.3	SE.	28	NW.	0	7	5	12	22	4	1	4	2	3	17	4	9	9	7	0	0	0	9	2	0	1	0	6	0
October	7.3	N.	22	NW.	0	6	5	5	10	11	6	8	11	0	12	7	12	7	6	0	0	1	10	2	0	0	10	3	1
November	7.9	NW.	23	NW.	0	4	3	5	10	5	6	14	12	1	11	10	9	6	4	8	4	1	1	0	7	0	27	1	0
December	7.4	SE.	25	W.	0	4	3	3	23	7	6	10	5	1	8	5	18	6	3	9	3	0	7	2	13	0	28	1	0
Year	7.3	SE.	28	SW.	0	106	58	71	157	74	68	90	97	11	144	94	128	113	78	54	48	5	36	9	80	39	164	12	2

CHARLESTON, S.C.

[H=9 ft.; H_b=48 ft.; h_t=11 ft.; h_r=3 ft.; h_a=92 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.1	W.	36	S.	1	6	9	7	2	10	7	9	12	0	12	5	14	11	9	0	0	0	15	5	0	0	7	1	0
February	11.3	NE.	30	W.	0	10	11	7	2	5	10	7	6	0	10	2	17	14	9	0	0	0	9	0	0	0	4	1	0
March	10.9	W.	34	NE.	2	4	9	4	7	10	8	15	5	0	7	10	14	8	5	0	0	0	8	2	0	0	0	4	0
April	11.7	SW.	28	E.	0	5	8	11	5	3	18	3	7	0	13	7	10	7	5	0	0	0	5	1	0	1	0	4	0
May	10.7	E.	32	E.	1	5	17	10	2	13	8	4	3	0	15	8	8	5	4	0	0	0	7	1	0	1	0	1	0
June	9.8	S.	28	NE.	0	9	3	3	7	21	7	9	1	0	15	7	8	9	5	0	0	0	4	1	0	4	0	6	0
July	10.6	SW.	37	N.	1	4	4	1	3	10	24	11	5	0	8	10	13	8	6	0	0	0	1	0	0	17	0	10	0
August	8.4	S.	40	NE.	1	7	8	4	9	13	8	9	4	0	7	14	10	13	10	0	0	0	3	0	0	8	0	15	0
September	9.8	NE.	27	NE.	0	12	14	6	6	11	6	3	2	0	4	15	11	10	8	0	0	0	2	0	0	2	0	3	0
October	11.1	NE.	31	NE.	0	13	18	10	1	4	8	3	5	0	13	5	13	9	8	0	0	0	8	2	0	0	0	4	0
November	10.6	N.	27	NE.	0	9	14	5	4	1	8	12	7	0	13	6	11	5	3	0	0	0	4	0	0	0	1	0	0
December	10.8	N.	27	SW.	0	18	19	5	4	2	3	6	5	0	3	8	20	10	7	0	0	0	14	4	0	0	0	0	0
Year	10.5	NE.	40	NE.	6	102	134	73	52	103	115	91	62	0	120	97	149	109	79	0	0	0	80	16	0	33	12	49	0

CHARLOTTE, N. C.

[H=741 ft.; H_b=779 ft.; h_t=63 ft.; h_r=55 ft.; h_a=86 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.4	NE.	46	SW.	1	7	17	3	5	10	12	2	6	0	12	6	13	14	13	4	3	0	21	11	3	0	17	2	0
February	8.0	NE.	26	NE.	0	5	18	4	4	9	7	4	7	0	9	6	14	11	11	5	4	0	14	6	0	0	15	0	0
March	8.6	S.	30	NW.	0	4	9	5	8	12	9	10	4	1	8	9	14	15	13	2	1	0	14	3	0	0	1	5	0
April	8.1	NE.	26	SW.	0	8	13	3	4	7	13	4	8	0	8	11	11	10	9	1	0	0	9	1	0	0	2	5	0
May	6.9	NE.	18	W.	0	7	13	5	8	11	11	3	4	0	18	10	3	1	0	0	0	0	1	0	0	8	0	0	0
June	7.3	SW.	21	SW.	0	4	12	6	5	10	18	4	1	0	10	12	8	6	4	0	0	0	8	0	0	14	0	7	0
July	6.6	SW.	25	N.	0	6	10	2	3	12	18	7	4	0	6	12	13	11	11	0	0	0	7	1	0	21	0	12	0
August	5.8	SW.	22	NW.	0	8	10	2	8	7	20	4	2	1	10	14	7	13	13	0	0	0	14	1	0	15	0	12	0
September	6.1	NE.	18	NW.	0	4	23	5	2	13	4	0	3	6	10	11	9	8	6	0	0	0	16	5	0	4	0	5	0
October	6.1	NE.	18	SW.	0	10	22	3	3	10	5	2	6	1	11	9	11	9	5	0	0	0	13	3	0	0	0	2	0
November	7.8	SW.	22	NW.	0	5	14	0	4	9	16	4	6	2	13	8	9	6	3	1	0	0	10	3	0	0	7	0	0
December	7.1	NE.	22	SW.	0	13	24	4	3	5	6	2	3	2	8	3	20	16	15	2	0	0	20	8	0	0	8	0	0
Year	7.2	NE.	46	SW.	1	81	185	42	57	115	139	46	54	13	123	111	132	120	103	15	8	0	147	42	3	62	50	50	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CHATTANOOGA, TENN.

[ϕ=35°04′ N.; λ=85°18′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.25	29.72	28.53	33.6	41.4	40.5	46.1	29.1	37.6	71	5	28	28	28	80	61	62	0.180	0.172	0.168	9.62	2.77	6.4	6.1	5.7	5.2	5.6
February	29.28	29.62	28.71	34.6	43.9	44.5	50.0	31.4	40.7	75	14	29	29	30	79	57	57	.177	.176	.180	5.64	3.34	5.5	6.2	6.2	5.2	5.6
March	29.11	29.39	28.70	48.8	61.9	60.6	67.3	46.1	56.7	81	35	40	38	40	73	46	49	.269	.257	.265	5.04	1.89	T	5.3	5.3	4.3	5.0
April	29.26	29.59	28.79	53.0	63.9	62.7	69.4	48.5	59.0	87	31	42	41	39	67	47	45	.286	.284	.258	6.40	3.09	T	5.4	5.7	4.8	5.3
May	29.25	29.63	28.91	66.5	81.5	79.0	86.1	60.9	73.5	94	52	53	52	50	62	37	38	.409	.390	.376	2.06	1.95	.0	3.0	3.7	3.1	3.1
June	29.12	29.41	28.88	74.6	90.1	86.3	94.2	69.2	81.7	102	55	61	58	58	63	36	41	.544	.507	.502	1.92	.75	.0	2.0	3.1	3.7	3.0
July	29.18	29.42	28.99	76.3	87.3	83.1	91.1	72.1	81.6	103	65	68	68	68	77	56	63	.701	.697	.702	6.89	2.62	.0	5.0	5.8	6.6	5.5
August	29.24	29.43	29.03	74.7	87.7	84.0	92.0	71.5	81.8	103	61	68	66	67	80	51	58	.688	.652	.660	3.70	1.79	.0	4.7	5.3	4.6	4.9
September	29.24	29.44	29.05	70.9	84.6	79.6	87.9	67.4	77.6	95	58	64	63	64	78	58	61	.598	.583	.611	1.73	.65	.0	3.9	5.4	3.4	5.0
October	29.29	29.56	28.98	57.4	70.7	66.4	73.7	54.6	64.2	84	40	52	52	54	84	55	64	.415	.420	.435	3.95	1.05	.0	5.0	5.3	3.9	5.1
November	29.36	29.66	29.01	44.0	54.9	51.9	58.9	40.0	49.4	80	20	36	36	36	73	50	56	.226	.230	.235	1.90	1.30	T	5.5	4.8	3.9	4.9
December	29.37	29.76	29.00	42.4	50.5	49.7	54.7	39.8	47.2	69	29	36	36	37	78	60	64	.226	.226	.237	7.00	1.55	T	6.5	7.0	5.4	6.7
Year	29.25	29.76	28.53	56.4	68.2	65.7	72.6	52.6	62.6	103	5	48	47	48	74	51	55	.393	.383	.386	55.85	3.34	11.9	4.9	5.3	4.5	5.0

CHEYENNE, WYO.[1]

[ϕ=41°08′ N.; λ=104°48′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	23.79	24.06	23.36	21.7	32.4	25.8	36.5	14.4	25.4	58	−10	12	15	14	66	46	60	0.075	0.083	0.081	0.30	0.14	3.8	4.5	5.5	5.2	5.2
February	23.69	24.12	23.20	16.1	29.0	22.1	35.6	4.8	20.2	63	−34	8	12	11	72	51	62	.064	.079	.074	.59	.28	7.0	4.9	7.5	7.0	7.0
March	23.79	24.15	23.35	26.2	41.3	39.7	46.0	20.4	33.2	63	0	16	18	18	67	42	45	.091	.100	.099	1.17	.53	13.5	5.9	6.4	7.5	6.2
April	23.94	24.22	23.44	33.6	52.5	49.3	56.7	29.2	43.0	74	−6	25	26	29	71	41	51	.142	.147	.166	1.26	.40	5.0	5.3	6.2	6.3	5.9
May	23.98	24.21	23.55	45.5	65.6	63.0	69.6	42.0	55.8	81	30	36	34	36	73	36	41	.227	.208	.218	2.90	1.37	1.8	5.6	5.3	6.7	5.8
June	24.00	24.27	23.54	55.4	75.2	71.8	79.3	51.1	65.2	95	39	45	43	44	70	36	43	.302	.288	.297	2.64	1.55	.0	5.5	4.4	6.7	5.3
July	24.07	24.25	23.79	60.7	83.4	81.0	88.2	56.6	72.4	96	49	47	45	43	63	29	31	.326	.303	.290	1.76	.90	.0	3.3	5.0	6.6	4.8
August	24.08	24.23	23.90	56.2	79.7	75.7	83.0	54.0	68.5	94	39	45	43	46	70	32	40	.312	.289	.319	1.10	.68	.0	4.0	4.5	6.0	4.8
September	24.02	24.30	23.69	46.0	70.5	66.7	73.6	43.0	58.3	85	28	35	32	33	66	29	34	.206	.190	.200	1.14	.91	.7	2.2	2.6	3.7	2.7
October	24.03	24.26	23.63	36.5	53.6	47.0	58.0	30.9	44.4	77	17	27	29	29	71	45	57	.148	.157	.162	.68	.26	5.8	4.6	5.8	5.5	5.3
November	24.08	24.37	23.55	29.0	46.6	36.1	49.3	21.5	35.4	65	5	17	19	20	62	36	53	.096	.104	.110	.24	.09	2.3	2.4	2.9	3.4	3.3
December	23.86	24.16	23.39	25.7	39.4	30.3	42.1	18.9	30.5	60	−3	14	18	18	62	43	60	.080	.096	.096	.41	.23	4.2	4.3	5.3	5.0	4.9
Year	23.94	24.37	23.20	37.7	55.8	50.7	59.8	32.2	46.0	96	−34	27	28	28	68	39	48	.172	.170	.176	14.19	1.55	44.1	4.4	5.1	5.8	5.1

CHICAGO, ILL., UNIVERSITY OBSERVATORY

[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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.29	29.80	28.66	16.7	20.9	19.7	25.1	12.9	19.0	49	−17	12	14	13	80	72	74	0.093	0.097	0.096	1.64	0.67	11.6	6.5	7.0	5.9	6.7
February	29.33	29.66	28.42	11.9	18.2	17.5	23.5	7.0	15.2	56	−14	7	11	10	78	70	71	.073	.082	.084	1.33	.37	12.7	6.8	6.9	6.1	6.8
March	29.15	29.63	28.62	36.0	42.5	40.8	47.2	32.1	39.6	72	14	29	28	28	76	57	61	.169	.159	.164	1.00	.39	2.0	7.0	6.6	4.7	6.3
April	29.32	29.70	28.89	39.7	47.0	44.2	51.2	36.1	43.6	82	22	31	32	32	71	58	64	.189	.201	.195	2.54	.71	4.8	6.5	7.3	6.7	6.7
May	29.34	29.72	28.81	59.5	68.7	66.5	73.5	55.4	64.4	88	39	49	49	49	70	52	56	.367	.364	.366	2.08	.94	.0	5.2	4.8	5.6	5.1
June	29.24	29.59	28.61	60.7	67.2	66.0	73.4	55.7	64.6	95	48	50	50	50	70	58	59	.368	.371	.376	1.03	.51	.0	5.3	4.6	4.1	4.8
July	29.23	29.69	28.89	72.6	80.4	77.9	84.7	69.0	76.8	102	58	60	62	61	66	55	58	.534	.563	.549	.22	.10	.0	3.5	2.9	2.9	3.3
August	29.27	29.60	28.98	70.0	79.4	76.6	83.0	66.9	75.0	99	57	62	63	64	78	59	67	.578	.588	.613	4.29	1.41	.0	4.8	4.5	3.5	4.2
September	29.31	29.73	28.98	63.2	72.2	68.9	75.1	61.2	68.2	91	46	58	59	60	82	65	73	.493	.525	.530	8.97	2.69	.0	5.3	5.3	4.7	5.2
October	29.32	29.77	28.76	49.1	57.0	55.2	61.1	46.1	53.6	81	31	42	43	44	78	62	68	.289	.298	.315	3.00	1.86	T	6.0	5.8	4.2	5.7
November	29.38	29.93	28.86	34.0	39.3	39.1	44.8	31.1	38.0	68	18	27	28	29	73	62	66	.155	.161	.175	.90	.62	.6	6.3	6.0	5.5	5.8
December	29.42	29.82	28.58	31.9	36.8	35.3	40.7	27.3	34.0	60	1	27	27	28	80	66	74	.156	.158	.164	2.58	1.14	.8	6.5	6.0	5.7	6.0
Year	29.30	29.93	28.42	45.4	52.5	50.6	56.9	41.7	49.3	102	−17	38	39	39	75	61	66	.289	.297	.302	29.58	2.69	32.5	5.8	5.6	5.0	5.6

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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.37	29.88	28.83	21.8	27.3	26.7	33.0	17.3	25.2	57	−16	17	20	18	80	74	69	0.113	0.125	0.119	1.28	0.32	9.9	7.8	7.9	6.4	7.5
February	29.41	29.74	28.60	21.6	30.1	30.0	36.0	17.5	26.8	67	−8	16	19	20	78	62	66	.112	.128	.130	2.04	.78	7.5	6.9	6.2	6.4	6.5
March	29.22	29.58	28.83	40.2	51.0	50.1	57.6	36.0	46.8	78	19	33	36	35	77	58	58	.195	.222	.211	2.55	.67	1.2	6.9	5.7	6.4	6.4
April	29.37	29.82	28.78	44.2	52.9	52.4	58.5	39.9	49.2	79	23	36	37	38	73	58	61	.227	.236	.252	3.11	1.37	.4	7.1	6.9	7.2	6.9
May	29.41	29.77	29.05	61.1	75.5	70.7	78.9	54.8	66.8	91	39	51	52	52	70	46	52	.391	.412	.397	1.04	.59	.0	2.8	3.7	4.5	3.8
June	29.26	29.54	28.86	68.0	82.9	78.3	86.8	61.5	74.2	98	50	55	55	54	64	41	46	.441	.452	.432	.80	.45	.0	3.1	5.2	4.6	4.4
July	29.28	29.71	29.03	74.8	89.4	84.5	93.1	70.3	81.7	106	57	64	61	61	71	42	48	.617	.568	.561	.84	.45	.0	4.6	4.1	5.8	4.6
August	29.34	29.52	29.11	72.9	86.2	82.0	91.2	69.0	80.1	103	58	64	64	62	76	50	54	.618	.605	.578	4.32	2.02	.0	4.9	5.4	5.3	5.3
September	29.37	29.66	29.09	64.0	78.6	73.8	81.9	61.0	71.4	94	44	59	60	59	84	56	62	.510	.536	.509	3.71	1.57	.0	4.7	4.4	4.9	4.9
October	29.42	29.76	28.98	49.6	61.5	58.1	66.4	46.8	56.6	80	26	46	48	48	89	64	70	.337	.360	.358	4.45	1.93	.0	5.3	6.3	5.5	6.2
November	29.46	29.90	28.99	34.6	44.3	41.0	48.8	31.4	40.1	72	20	30	31	31	83	60	67	.178	.185	.181	3.95	1.71	8.9	5.6	4.7	4.0	5.1
December	29.52	29.94	29.01	32.3	41.6	39.7	45.7	29.7	37.7	62	16	28	31	31	84	67	72	.165	.185	.188	2.60	.68	1.2	6.8	6.3	5.0	6.5
Year	29.37	29.94	28.60	48.8	60.1	57.3	64.8	44.6	54.7	106	−16	42	43	42	77	56	60	.325	.334	.326	30.69	2.02	29.1	5.5	5.6	5.5	5.7

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CHATTANOOGA, TENN.

[H=689 ft.; H_b=762 ft.; h_t=71 ft.; h_r=64 ft.; h_a=214 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	8.4	W.	34	W.	2	10	8	1	7	9	3	9	12	3	10	10	11	16	15	6	4	1	2	1	7	0	16	2	0
February	8.4	NE.	27	SE.	0	8	17	2	5	8	1	9	7	1	11	6	12	11	11	6	2	0	3	1	1	0	16	1	0
March	9.4	W.	38	NW.	2	4	9	3	7	9	5	10	9	6	10	12	9	12	9	2	0	0	4	1	0	0	0	4	0
April	9.4	W.	38	SW.	1	5	8	2	14	5	3	10	9	4	11	10	9	8	8	3	0	1	0	0	0	0	0	3	0
May	6.3	W.	24	NW.	0	8	10	3	7	6	4	13	6	5	18	11	2	4	3	0	0	0	6	0	0	7	0	4	0
June	7.5	W.	31	W.	0	9	5	5	9	5	11	12	2	2	18	11	1	9	5	0	0	0	1	0	0	24	0	9	0
July	7.6	W.	30	W.	0	3	4	3	3	1	8	31	5	4	7	16	8	11	10	0	0	1	3	0	0	19	0	11	0
August	6.1	W.	33	NW.	1	3	3	3	12	8	4	18	3	8	11	15	5	8	6	0	0	0	4	1	0	20	0	8	0
September	6.3	SE.	24	W.	0	6	9	5	12	8	3	6	2	9	13	12	5	8	6	0	0	0	5	1	0	12	0	4	0
October	6.8	NE.	24	NW.	0	10	11	6	10	3	3	7	7	5	11	10	10	9	7	0	0	0	3	2	0	0	0	1	0
November	8.7	W.	29	NW.	0	9	8	6	4	6	6	11	10	0	13	6	11	8	7	2	0	0	1	1	0	0	5	0	0
December	7.7	NE.	24	W.	0	6	14	5	13	7	1	8	5	3	5	11	15	17	14	1	0	0	2	0	0	0	5	1	0
Year	7.7	W.	38	SW.	6	81	106	44	103	75	52	144	77	50	138	130	98	121	101	20	6	3	28	8	8	82	45	48	0

CHEYENNE, WYO.[1]

[H=6,139 ft.; H_b=6,094 ft.; h_t=5 ft.; h_r=15 ft.; h_a=39 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	16.8	NW.	54	NW.	16	7	1	0	0	5	9	16	23	1	10	12	9	9	2	16	9	0	3	0	8	0	30	0	0
February	16.3	W.	49	NW.	16	6	2	3	0	8	12	18	9	0	0	17	12	11	3	16	11	0	2	0	11	0	28	0	0
March	16.9	NW.	49	NW.	15	8	6	1	1	4	10	14	17	1	6	12	13	11	10	16	11	0	3	1	4	0	30	0	0
April	13.3	NW.	37	NW.	10	5	4	3	4	8	3	11	21	1	7	10	13	10	8	7	4	2	8	3	3	0	10	7	0
May	12.0	SE.	45	NW.	4	6	4	2	13	10	7	6	14	0	6	14	11	11	8	1	1	3	5	4	0	0	1	6	0
June	11.4	NW.	51	NW.	3	5	5	3	3	15	6	11	12	0	8	14	8	11	6	0	0	1	3	1	0	3	0	9	1
July	9.3	NW.	47	W.	1	3	2	3	10	2	7	12	22	1	9	16	6	7	6	0	0	2	3	2	0	18	0	7	0
August	9.9	NW.	28	W.	0	5	4	0	6	7	7	16	16	1	11	15	5	10	5	0	0	0	3	2	0	7	0	7	0
September	10.9	NW.	39	N.	2	12	3	2	4	11	3	12	12	1	22	3	5	5	4	2	2	1	1	0	0	0	3	3	0
October	11.6	NW.	37	NW.	4	12	6	0	1	10	7	10	16	0	11	10	10	9	6	7	5	1	7	3	3	0	17	1	0
November	13.8	NW.	44	NW.	8	7	1	0	2	4	6	19	20	1	15	12	3	6	2	7	5	0	4	3	5	0	29	0	0
December	13.2	NW.	50	NW.	11	6	4	2	3	7	11	16	13	0	10	14	7	6	4	13	6	0	9	5	5	0	31	0	0
Year	12.9	NW.	54	NW.	90	82	42	19	47	91	88	161	195	7	115	149	102	106	64	85	54	10	51	24	39	31	179	40	1

CHICAGO, ILL., UNIVERSITY OBSERVATORY

[H=594 ft.; H_b=673 ft.; h_t=7 ft.; h_r=3 ft.; h_a=131 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.1	W.	28	NW.	0	2	5	4	9	3	12	20	7	0	9	6	16	12	9	20	11	0	4	1	18	0	29	1	0
February	11.9	W.	32	W.	1	6	7	7	5	6	4	17	6	0	7	4	18	10	8	18	10	0	3	0	21	0	27	1	0
March	11.5	W.	35	SE.	2	4	7	3	9	8	3	17	11	0	7	13	11	12	8	9	3	1	0	0	1	0	14	4	0
April	10.7	NE.	35	NW.	1	6	9	12	5	8	5	1	13	1	5	12	13	13	10	9	5	0	6	0	3	0	10	3	0
May	9.7	SW.	27	SW.	0	2	10	3	8	15	14	7	3	0	12	9	10	11	6	0	0	0	5	0	0	0	0	7	0
June	9.8	NE.	29	SW.	0	14	15	6	9	5	4	4	3	0	13	8	9	9	5	0	0	0	2	0	0	2	0	5	0
July	7.1	NE.	20	N.	0	6	22	10	8	2	6	4	4	0	17	12	2	5	2	0	0	0	1	0	0	9	0	4	0
August	9.2	S.	32	NE.	1	4	11	11	8	12	6	6	4	0	16	8	7	15	11	0	0	0	5	0	0	6	0	13	0
September	9.3	S.	35	NW.	1	4	8	7	12	13	7	4	5	0	13	5	12	14	11	0	0	0	5	1	0	3	0	6	0
October	10.3	S.	30	N.	0	3	6	2	3	20	6	11	11	0	12	4	15	10	6	1	0	0	4	0	0	0	2	3	0
November	12.1	NW.	27	SW.	0	5	5	4	3	7	11	11	14	0	9	7	14	5	3	9	2	0	2	0	4	0	19	0	0
December	11.3	SW.	35	SW.	1	3	2	3	8	15	12	9	9	1	11	4	16	8	6	5	2	0	4	3	3	0	22	0	0
Year	10.3	SW.	35	SW.	7	59	107	72	87	114	90	111	90	2	131	92	143	124	85	71	33	1	41	5	50	20	123	47	0

CINCINNATI, OHIO

[H=553 ft.; H_b=627 ft.; h_t=11 ft.; h_r=3 ft.; h_a=51 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.8	SW.	28	SW.	0	5	3	6	3	11	17	13	4	0	4	7	20	13	9	10	6	0	3	1	11	0	24	0	0
February	8.9	W.	34	SW.	1	6	9	4	7	9	9	12	2	0	8	6	15	10	7	17	5	0	2	1	13	0	26	0	0
March	9.5	S.	29	N.	0	8	6	5	1	15	13	6	8	0	7	9	15	13	11	5	4	1	1	1	0	0	12	4	0
April	9.0	W.	30	W.	0	5	8	5	7	8	8	13	6	0	6	6	18	11	8	5	2	0	2	0	1	0	7	5	0
May	6.5	S.	22	SW.	0	16	8	3	3	17	8	2	4	1	19	4	8	6	5	0	0	0	0	0	0	1	0	8	0
June	7.0	N.	26	W.	0	17	10	9	0	12	6	2	4	0	15	9	6	7	4	0	0	0	0	0	0	12	0	5	0
July	6.7	SW.	21	NW.	0	6	12	2	5	4	23	8	2	0	14	10	7	6	3	0	0	0	1	0	0	21	0	8	0
August	6.2	SW.	28	SW.	0	4	11	7	7	6	20	3	4	0	9	15	7	11	8	0	0	1	2	0	0	20	0	16	0
September	6.5	S.	21	SW.	0	5	16	2	8	13	11	2	3	0	11	11	8	11	9	0	0	0	2	0	0	9	0	4	0
October	6.5	S.	24	SW.	0	7	9	3	4	15	15	5	4	0	9	8	14	11	10	0	0	0	10	5	0	0	3	3	0
November	8.6	SW.	24	W.	0	5	9	1	1	5	19	9	10	1	12	7	11	5	4	5	1	0	5	2	2	0	18	2	0
December	7.6	S.	24	SE.	0	6	7	7	9	15	8	0	10	0	10	3	18	11	10	6	2	0	11	7	1	0	21	0	0
Year	7.6	SW.	34	SW.	1	90	108	54	55	130	157	75	61	2	124	95	147	115	88	48	20	2	39	17	28	63	111	55	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.15	29.69	28.50	21.9	25.1	24.2	30.7	16.8	23.8	51	−10	19	20	20	86	81	82	0.111	0.114	0.116	1.41	0.38	11.2	8.1	8.6	8.3	8.4
February	29.22	29.62	28.25	18.7	21.3	22.5	29.0	12.9	21.0	60	−5	14	15	17	83	76	77	.097	.097	.106	2.19	.72	9.1	7.8	6.8	6.5	6.9
March	29.04	29.52	28.54	36.8	44.2	41.6	47.1	31.9	39.5	68	11	30	32	32	77	70	70	.175	.187	.192	3.28	.74	10.1	7.9	7.3	6.0	7.1
April	29.19	29.63	28.56	39.4	44.0	46.2	52.5	36.1	44.3	78	23	32	33	35	75	68	67	.192	.203	.223	2.18	.49	3.6	8.2	7.7	7.3	7.8
May	29.25	29.73	28.77	59.9	65.1	66.4	71.5	53.8	62.6	87	39	46	48	48	62	56	53	.329	.346	.341	2.05	.96	.0	4.3	3.9	4.1	4.1
June	29.12	29.46	28.63	63.9	68.4	69.9	74.1	58.3	66.2	90	49	52	53	52	67	62	56	.392	.416	.407	2.32	1.12	.0	4.5	4.7	5.1	5.0
July	29.14	29.57	28.82	71.5	76.3	78.0	81.8	67.5	74.6	99	57	57	60	56	63	58	50	.482	.527	.468	2.23	1.43	.0	3.4	3.4	3.6	3.2
August	29.19	29.55	28.95	70.4	75.3	76.1	80.8	66.9	73.8	94	56	61	62	60	73	64	60	.550	.563	.536	2.92	.89	.0	5.5	5.1	4.3	5.1
September	29.24	29.59	28.89	63.5	72.0	69.1	75.5	60.4	68.0	90	41	54	56	56	73	60	64	.445	.474	.460	2.75	1.21	.0	5.8	4.7	5.0	5.2
October	29.24	29.64	28.68	49.7	57.7	55.9	61.4	46.9	54.2	77	31	42	42	43	77	58	64	.291	.289	.300	1.78	.53	T	6.0	5.8	5.3	6.2
November	29.24	29.84	28.67	36.6	40.4	39.1	45.4	32.5	39.0	70	15	29	30	30	72	68	69	.169	.179	.172	3.32	1.15	14.3	7.4	7.6	6.3	7.4
December	29.35	29.74	28.78	33.3	39.3	38.4	43.3	29.5	36.4	64	11	26	28	29	75	64	69	.150	.160	.169	1.64	.43	4.3	7.3	7.0	6.6	7.1
Year	29.20	29.84	28.25	47.1	52.2	52.3	57.8	42.8	50.3	99	−10	38	40	40	74	65	65	.282	.296	.291	28.07	1.43	52.6	6.4	6.0	5.7	6.1

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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.22	29.82	28.66	18.7	25.2	----	30.9	14.8	22.8	64	−16	14	17	---	82	71	---	0.096	0.107	----	0.93	0.48	8.5	7.3	5.1	----	5.6
February	29.24	29.62	28.57	15.1	23.2	----	31.0	11.8	21.4	74	−10	11	14	---	83	68	---	.089	.101	----	1.40	1.23	2.7	5.8	4.8	----	4.9
March	29.06	29.43	28.62	39.2	53.3	----	60.1	36.4	48.2	78	21	30	32	---	71	46	---	.173	.189	----	2.20	1.63	T	3.0	4.9	----	4.4
April	29.20	29.52	28.72	44.4	59.4	----	64.5	41.6	53.0	90	18	34	35	---	67	44	---	.214	.232	----	.63	.15	.2	4.8	4.2	----	4.3
May	29.20	29.54	28.78	62.4	77.3	----	80.5	58.9	69.7	89	47	54	54	---	74	46	---	.421	.429	----	2.88	.86	.0	4.0	4.6	----	3.9
June	29.09	29.36	28.51	69.7	84.2	----	88.8	63.8	76.3	105	50	55	54	---	62	38	---	.452	.436	----	.27	.21	.0	3.0	3.4	----	3.5
July	29.12	29.54	28.88	76.9	96.0	----	99.8	73.4	86.6	111	59	62	59	---	61	31	---	.570	.518	----	.97	.48	.0	2.0	2.1	----	2.3
August	29.13	29.40	28.90	75.2	92.9	----	97.4	72.8	85.1	108	56	62	62	---	65	37	---	.567	.563	----	1.34	.91	.0	2.7	3.6	----	3.5
September	29.14	29.59	28.70	66.4	77.8	----	81.7	64.1	72.9	100	50	60	61	---	82	61	---	.537	.557	----	10.21	2.47	.0	5.7	6.1	----	5.6
October	29.22	29.65	28.86	49.2	61.8	----	65.7	47.3	56.5	82	30	44	47	---	84	60	---	.310	.340	----	2.09	.99	.0	4.3	5.2	----	5.1
November	29.33	29.72	28.72	34.3	46.2	----	51.2	30.4	40.8	76	14	29	31	---	79	56	---	.168	.188	----	1.48	1.24	2.8	2.7	3.0	----	3.2
December	29.30	29.61	28.56	33.7	41.8	----	46.4	30.2	38.3	65	8	28	30	---	80	64	---	.166	.184	----	2.44	.94	2.1	5.7	6.1	----	5.9
Year	29.19	29.82	28.51	48.8	61.6	----	66.5	45.5	56.0	111	−16	40	41	---	74	52	---	.314	.320	----	26.84	2.47	16.3	4.2	4.4	----	4.4

COLUMBIA, S. C.

[ϕ=34°00′ N.; λ=81°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	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.69	30.15	28.84	36.7	45.7	45.2	52.3	33.6	43.0	72	15	30	31	34	78	58	63	0.197	0.197	0.206	5.96	1.46	6.2	5.0	4.5	3.6	5.0
February	29.72	30.12	28.97	38.5	48.0	47.9	53.7	35.7	44.7	76	16	32	31	33	76	54	59	.193	.191	.206	4.30	1.26	1.1	5.7	5.1	4.9	5.6
March	29.54	29.89	28.83	51.6	63.2	60.7	68.8	48.3	58.6	87	35	44	42	43	78	50	56	.317	.295	.308	5.36	1.44	T	5.7	5.2	4.4	5.4
April	29.70	30.05	29.14	55.5	65.6	64.3	71.0	50.3	60.6	89	32	45	44	44	70	50	52	.326	.315	.312	10.76	3.98	.0	4.7	5.1	4.3	5.0
May	29.69	30.10	29.26	66.8	80.8	78.0	85.3	62.4	73.8	94	56	57	53	54	72	39	46	.473	.411	.432	.06	.06	.0	3.7	2.6	3.0	3.1
June	29.57	29.86	29.35	73.1	84.7	80.8	89.8	68.7	79.2	103	59	64	62	63	75	49	57	.602	.560	.584	1.55	1.00	.0	3.5	3.3	4.2	3.6
July	29.60	29.91	29.32	76.6	87.8	83.0	92.8	72.0	82.4	101	58	68	68	67	76	54	62	.691	.688	.667	7.10	1.98	.0	4.5	4.5	5.5	4.8
August	29.68	29.92	29.45	75.5	86.1	81.1	90.3	71.8	81.0	97	61	71	69	70	85	57	70	.752	.706	.734	9.82	2.95	.0	3.7	4.0	4.4	4.3
September	29.69	29.91	29.44	71.0	82.3	77.9	86.0	68.0	77.0	92	55	66	65	66	84	57	70	.642	.626	.658	2.09	.74	.0	3.9	4.3	3.3	4.4
October	29.72	30.04	29.26	60.8	72.7	68.5	76.2	58.2	67.2	84	43	56	56	57	84	58	68	.470	.481	.496	4.72	2.23	.0	4.3	4.1	4.3	4.2
November	29.77	30.16	29.35	46.1	58.8	55.1	62.8	43.7	53.2	80	22	39	38	39	75	49	58	.257	.263	.270	2.58	1.83	.0	4.1	3.8	4.2	4.3
December	29.84	30.29	29.41	44.4	52.2	50.4	56.8	42.1	49.4	72	30	39	40	41	82	68	73	.260	.271	.280	4.62	1.40	.0	7.3	6.9	6.9	7.0
Year	29.68	30.29	28.83	58.0	69.0	66.1	73.8	54.6	64.2	103	15	51	50	51	78	54	61	.432	.417	.429	58.92	3.98	7.3	4.7	4.4	4.4	4.7

COLUMBUS, OHIO

[ϕ=39°58′ N.; λ=83°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	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.14	29.60	28.60	22.2	26.2	24.8	30.9	16.6	23.8	50	−16	17	20	19	79	74	77	0.109	0.118	0.116	1.26	0.36	12.1	8.4	7.1	7.4	7.6
February	29.20	29.52	28.38	19.6	26.6	27.8	33.1	15.7	24.4	65	−7	14	16	20	75	61	69	.099	.111	.122	2.87	1.25	9.6	6.5	5.3	5.1	5.7
March	29.01	29.42	28.60	38.4	47.2	47.6	53.2	34.5	43.8	76	18	31	34	35	75	61	63	.183	.202	.211	3.10	.78	2.8	6.8	6.6	6.0	6.3
April	29.17	29.60	28.54	42.8	49.5	50.6	56.1	38.4	47.2	80	24	34	34	37	71	57	62	.209	.211	.240	3.17	1.11	.2	7.3	8.0	7.1	7.2
May	29.21	29.61	28.84	60.6	72.6	70.1	76.5	54.5	65.5	94	39	49	48	50	67	44	51	.364	.359	.373	2.34	.83	.0	3.3	4.6	4.5	4.1
June	29.06	29.35	28.66	66.0	79.3	77.4	84.2	59.9	72.0	97	50	53	51	52	64	40	45	.413	.399	.410	2.23	1.17	.0	3.4	4.3	4.1	4.1
July	29.08	29.50	28.78	73.3	86.9	84.5	91.5	67.7	79.6	106	55	60	56	57	63	38	42	.523	.473	.483	1.80	.76	.0	4.0	4.1	5.4	4.2
August	29.14	29.46	28.93	71.8	84.4	81.2	88.1	67.6	77.8	101	55	63	62	62	74	49	54	.583	.569	.573	4.94	2.16	.0	4.2	5.6	4.5	4.9
September	29.18	29.47	28.90	63.8	77.7	73.1	81.2	60.4	70.8	95	45	56	56	58	77	49	61	.467	.463	.493	3.29	2.06	.0	4.8	4.3	4.5	4.4
October	29.22	29.58	28.73	49.9	60.1	57.4	64.4	46.6	55.5	78	29	45	46	47	83	63	69	.316	.340	.344	3.41	.96	.0	5.5	5.7	5.1	5.9
November	29.24	29.74	28.73	34.6	42.1	39.5	45.8	30.8	38.3	66	16	28	31	30	76	64	68	.167	.183	.176	2.95	1.89	3.6	5.9	6.4	3.9	6.0
December	29.32	29.70	28.82	32.5	39.9	38.8	44.2	29.7	37.0	62	17	27	30	30	78	66	70	.152	.171	.175	1.79	.58	3.8	5.9	6.3	6.1	6.3
Year	29.16	29.74	28.38	48.0	57.7	56.1	62.4	43.5	53.0	106	−16	40	40	41	74	56	61	.299	.300	.310	33.15	2.16	32.1	5.5	5.7	5.3	5.6

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CLEVELAND, OHIO

[H=651 ft.; H_b=762 ft.; h_t=267 ft.; h_r=264 ft.; h_a=318 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																										
January	16.7	SW.	43	W.	11	6	3	2	6	12	20	8	5	0	3	4	24	17	9	23	14	0	8	0	16	0	30	0	0
February	16.6	SW.	51	SW.	11	8	6	2	9	5	16	10	2	0	6	8	15	14	9	21	12	0	5	1	16	0	26	0	0
March	16.7	W.	51	N.	12	4	8	5	13	4	14	8	6	0	4	10	17	16	14	10	7	1	3	1	5	0	18	2	0
April	15.0	NW.	54	W.	12	4	6	2	9	8	8	12	11	0	4	4	22	17	14	12	6	0	7	0	1	0	10	4	0
May	12.8	SW.	52	W.	3	9	6	4	2	13	14	6	8	0	15	10	6	7	5	0	0	0	1	0	0	0	0	4	0
June	12.3	N.	51	NW.	6	12	12	7	4	13	4	4	4	0	7	16	7	7	6	0	0	0	4	0	0	0	0	6	0
July	10.2	N.	51	W.	2	13	12	2	6	10	5	8	6	0	20	7	4	4	4	0	0	1	2	0	0	7	0	6	0
August	12.2	S.	43	NW.	5	7	10	7	10	13	5	8	2	0	9	15	7	10	8	0	0	2	0	0	0	4	0	9	0
September	13.7	S.	47	NW.	4	5	7	10	10	12	8	3	5	0	11	9	10	11	6	0	0	0	1	0	0	0	0	4	0
October	15.3	S.	54	SW.	9	6	3	5	10	18	10	3	7	0	8	8	15	10	6	2	0	0	0	0	0	0	1	1	0
November	18.3	NW.	45	NW.	14	1	3	4	2	15	13	9	13	0	6	4	20	15	8	11	9	0	0	0	4	0	16	0	0
December	16.9	S.	44	W.	7	5	3	2	14	21	4	6	7	0	5	8	18	11	8	7	3	0	4	0	5	0	21	0	0
Year	14.7	S.	54	W.	96	80	79	52	95	144	121	85	76	0	98	103	165	139	97	86	51	4	35	2	47	11	122	36	0

COLUMBIA, MO.

[H=740 ft.; H_b=784 ft.; h_t=6 ft.; h_r=3 ft.; h_a=64 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.0	W.	25	NW.	0	3	1	2	3	4	1	9	8	0	10	7	14	12	4	16	8	0	0	0	15	0	27	0	0
February	9.8	W.	27	NW.	0	4	5	4	0	3	2	8	3	0	12	8	9	8	4	10	5	0	0	0	18	0	24	2	0
March	10.4	W.	32	W.	1	5	3	1	6	1	5	6	4	0	14	10	7	6	5	2	0	0	1	0	0	0	8	2	0
April	9.7	S.	26	SW.	0	3	2	3	7	8	1	1	5	0	16	6	8	10	5	6	3	0	0	0	1	0	6	3	0
May	7.7	S.	22	S.	0	1	3	3	5	11	1	5	2	0	17	12	2	8	7	0	0	0	1	1	0	0	0	6	0
June	8.4	SW.	27	SW.	0	6	2	4	6	3	6	2	1	0	16	10	4	3	3	0	0	0	0	0	0	15	0	1	0
July	7.5	SW.	26	NW.	0	2	3	5	3	5	10	1	2	0	22	8	1	5	5	0	0	0	0	0	0	26	0	6	0
August	7.5	S.	24	NW.	0	2	1	6	7	6	7	0	2	0	17	10	4	6	5	0	0	0	1	0	0	25	0	6	0
September	7.7	S.	26	SE.	0	4	5	3	3	9	4	1	1	0	11	7	12	11	9	0	0	0	3	1	0	10	0	5	0
October	7.9	S.	26	SW.	0	5	3	3	1	9	5	1	4	0	11	9	11	9	7	0	0	0	1	0	0	0	2	4	0
November	8.9	SW.	27	N.	0	5	1	1	2	6	6	6	3	0	19	5	6	2	2	3	1	0	0	0	1	0	19	1	0
December	8.3	S.	25	W.	0	1	3	5	4	9	5	0	4	0	8	12	11	7	5	4	2	0	2	0	1	0	20	1	0
Year	8.6	S.	32	W.	1	41	32	40	47	74	53	40	39	0	173	104	89	87	61	41	19	0	9	2	36	76	106	37	0

COLUMBIA, S. C.

[H=332 ft.; H_b=347 ft.; h_t=70 ft.; h_r=68 ft.; h_a=91 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.8	NW.	43	SW.	1	4	10	6	7	6	9	10	10	0	15	5	11	15	12	2	2	0	11	4	1	0	11	2	0
February	7.0	NE.	21	S.	0	11	15	2	3	4	11	6	6	0	11	3	15	11	10	3	1	0	4	2	0	0	12	0	0
March	7.7	S.	28	W.	0	6	10	3	8	14	10	6	5	0	13	6	12	14	11	1	1	0	5	2	0	0	0	4	0
April	7.3	SE.	21	SW.	0	3	11	7	12	4	7	5	11	0	13	8	9	8	8	0	0	0	5	0	0	0	1	6	0
May	6.6	NE.	17	NE.	0	2	17	8	10	8	6	8	3	0	20	8	3	1	1	0	0	0	5	1	0	8	0	2	0
June	6.6	S.	18	W.	0	3	13	8	9	10	7	6	3	1	16	9	5	11	7	0	0	0	3	0	0	14	0	7	0
July	6.6	SW.	26	NE.	0	3	4	3	8	7	23	9	5	0	12	15	4	11	10	0	0	1	3	2	0	21	0	12	0
August	5.7	SE.	27	NW.	0	8	12	5	15	8	6	4	4	0	13	15	3	13	9	0	0	0	2	1	0	18	0	10	0
September	7.3	NE.	22	NE.	0	5	17	12	6	14	1	3	2	0	12	13	5	9	8	0	0	0	5	2	0	5	0	6	0
October	7.8	NE.	24	NE.	0	8	25	5	3	5	1	8	6	1	16	5	10	8	8	0	0	0	3	1	0	0	0	3	0
November	8.8	NE.	24	W.	0	6	15	3	7	5	10	6	8	0	14	8	8	8	5	0	0	0	4	1	0	0	5	0	0
December	8.0	NE.	25	SW.	0	14	25	3	5	4	5	5	1	0	6	7	18	14	11	0	0	0	11	2	0	0	2	0	0
Year	7.2	NE.	43	SW.	1	73	174	65	93	89	96	76	64	2	161	102	103	123	100	6	4	1	61	18	1	66	31	52	0

COLUMBUS, OHIO

[H=724 ft.; H_b=822 ft.; h_t=90 ft.; h_r=88 ft.; h_a=110 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.7	SW.	37	W.	2	6	3	9	3	17	13	11	0	0	2	12	17	14	7	12	9	0	7	1	13	0	24	0	0
February	10.7	S.	43	SW.	4	7	9	7	4	10	12	7	2	0	9	10	10	12	9	16	8	0	4	2	15	0	26	0	0
March	11.4	S.	41	N.	3	9	8	6	3	14	6	7	9	0	7	9	15	17	11	8	6	0	4	1	0	0	14	6	0
April	10.3	S.	38	SW.	3	8	7	6	6	9	9	8	6	1	3	12	15	13	10	7	2	1	2	0	0	0	8	6	0
May	8.0	S.	37	SW.	2	14	7	6	1	20	5	7	1	1	16	8	7	10	9	0	0	1	0	0	0	0	2	0	7
June	8.9	N.	35	SW.	2	18	11	6	0	18	2	3	2	0	13	15	2	8	5	0	0	0	0	0	0	7	0	7	0
July	7.6	S.	38	NW.	2	11	19	5	3	15	3	3	2	1	15	12	4	5	5	0	0	0	0	0	0	17	0	9	0
August	7.7	S.	43	NW.	3	5	8	9	3	27	2	4	4	0	10	17	4	16	10	0	0	0	1	0	0	14	0	10	0
September	8.5	S.	29	SW.	0	8	10	6	3	23	6	3	0	1	14	11	5	10	8	0	0	0	2	0	0	7	0	0	0
October	8.8	S.	34	SW.	1	12	4	7	7	16	5	6	3	2	8	10	13	15	10	0	0	0	3	0	0	0	1	2	0
November	10.1	S.	31	SW.	0	13	4	2	2	16	9	8	6	0	10	6	14	5	4	6	2	0	1	1	3	0	18	1	0
December	9.3	S.	31	SW.	0	7	5	10	5	23	3	8	1	0	9	6	16	9	8	6	4	0	5	0	1	0	21	0	0
Year	9.3	S.	43	SW.	22	118	95	79	40	208	75	75	36	6	116	128	122	134	96	55	31	2	29	5	32	47	112	48	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CONCORDIA, KANS.

[ϕ=39°35′ N.; λ=97°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.59	29.17	28.01	17.3	24.6	23.5	30.4	13.7	22.0	54	−2	14	17	18	87	71	80	0.089	0.100	0.105	0.69	0.37	6.0	4.6	6.2	5.2	5.5
February	28.60	29.03	27.96	9.2	20.3	20.3	27.1	6.4	16.8	70	−14	6	10	12	87	66	72	.066	.078	.084	.14	.04	3.0	5.6	5.8	5.3	5.6
March	28.42	28.84	27.72	34.7	53.3	52.9	60.0	32.6	46.3	79	19	24	25	26	67	34	36	.133	.136	.140	.15	.15	T	3.8	4.2	4.9	4.4
April	28.57	28.95	28.08	42.3	58.5	59.6	64.6	39.6	52.1	89	14	30	32	32	65	43	40	.189	.198	.201	2.08	1.43	2.5	4.1	4.0	4.9	4.6
May	28.54	28.88	28.05	61.2	73.5	73.1	77.5	58.0	67.8	90	42	54	55	55	78	55	56	.420	.445	.445	2.86	1.24	.0	5.2	5.5	5.4	5.3
June	28.46	28.80	27.78	67.9	84.7	85.4	89.9	63.8	76.8	109	48	55	53	55	66	37	38	.450	.421	.454	.98	.80	.0	2.9	3.5	2.7	3.0
July	28.49	28.90	28.20	77.2	95.6	96.9	100.5	74.0	87.2	113	61	57	54	50	52	26	23	.470	.423	.381	.75	.70	.0	2.3	2.8	2.6	2.6
August	28.48	28.75	28.21	74.3	93.5	92.9	99.3	71.2	85.2	116	58	56	55	54	58	31	31	.472	.446	.433	1.82	.92	.0	3.3	3.9	3.5	3.6
September	28.51	28.91	28.05	64.7	77.4	74.7	82.3	61.6	72.0	100	44	57	56	55	79	51	55	.493	.462	.461	4.56	1.50	.0	5.0	5.3	4.4	4.9
October	28.61	29.13	28.10	46.4	60.0	56.2	64.7	43.7	54.2	84	23	38	40	42	75	49	60	.248	.262	.283	.75	.38	T	3.9	4.4	3.3	4.2
November	28.73	29.12	28.13	32.1	47.9	44.5	54.2	29.2	41.7	75	15	25	26	25	74	45	47	.137	.143	.136	T	T	T	2.3	3.8	2.3	3.0
December	28.60	28.91	27.95	30.8	39.5	36.6	44.1	26.6	35.4	63	7	28	30	30	88	68	77	.155	.171	.172	1.24	.65	T	4.0	5.9	4.9	4.9
Year	28.55	29.17	27.72	46.5	60.7	59.7	66.2	43.4	54.8	116	−14	37	38	38	73	48	51	.277	.274	.275	16.02	1.50	11.5	3.9	4.6	4.1	4.3

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: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.02	30.52	29.51	49.2	57.2	55.6	62.6	46.2	54.4	86	29	45	46	49	87	68	79	0.325	0.331	0.364	0.61	0.37	0.0	5.2	5.1	4.6	5.3
February	29.99	30.42	29.48	48.7	55.6	53.7	60.6	45.0	52.8	83	25	44	47	48	84	75	81	.322	.360	.359	.34	.14	.0	6.6	8.2	5.3	7.6
March	29.88	30.29	29.53	62.8	71.4	68.6	74.5	61.3	67.9	91	52	59	58	59	88	67	75	.516	.512	.529	3.29	2.85	.0	5.7	6.0	5.4	5.5
April	29.99	30.32	29.42	63.3	71.7	70.1	75.2	61.9	68.6	95	48	58	59	60	83	66	72	.510	.535	.547	1.92	.95	.0	5.2	4.1	4.3	4.4
May	29.90	30.13	29.63	72.4	79.6	77.1	81.6	70.9	76.2	87	64	69	68	68	89	69	76	.714	.694	.700	5.27	1.46	.0	6.7	6.2	6.4	6.1
June	29.85	30.03	29.59	79.1	86.9	84.9	89.0	76.8	82.9	95	71	74	73	73	84	64	70	.828	.813	.824	3.05	2.35	.0	3.3	3.8	3.3	3.3
July	29.92	30.08	29.67	79.4	86.4	84.0	88.6	77.8	83.2	94	73	75	74	75	87	67	74	.870	.830	.860	2.17	.91	.0	4.5	5.6	5.3	5.2
August	29.93	30.08	29.77	78.9	87.5	84.6	89.7	77.6	83.6	95	72	74	74	74	86	66	72	.847	.847	.850	3.23	1.76	.0	4.6	5.0	4.5	4.7
September	29.89	30.11	29.67	77.1	84.7	81.7	86.0	75.5	80.8	90	61	73	72	73	87	68	76	.819	.810	.824	3.93	1.39	.0	5.9	6.1	5.4	5.9
October	30.01	30.29	29.80	64.6	75.8	72.5	78.5	62.5	70.5	88	51	61	60	62	87	61	72	.549	.539	.580	.95	.84	.0	4.7	4.2	3.6	4.2
November	30.17	30.55	29.77	56.7	65.4	62.4	68.5	53.9	61.2	84	38	50	51	52	80	63	72	.404	.408	.428	.47	.25	.0	7.0	6.9	6.7	7.2
December	30.08	30.43	29.67	55.6	64.5	61.0	67.0	53.1	60.0	78	39	52	52	53	89	66	78	.416	.417	.430	1.05	.60	.0	6.2	6.0	4.8	5.5
Year	29.97	30.55	29.42	65.6	73.9	71.4	76.8	63.5	70.2	95	25	61	61	62	86	67	75	.593	.591	.608	26.28	2.85	.0	5.5	5.6	5.0	5.4

DALLAS, TEX.

[ϕ=32°46′ N.; λ=96°47′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.49	30.07	28.94	36.2	47.9	48.1	54.2	33.0	43.6	79	14	28	31	31	73	55	56	0.163	0.181	0.178	0.48	0.19	3.6	4.9	3.7	3.9	4.2
February	29.48	29.96	28.85	33.4	43.3	47.2	53.3	30.7	42.0	77	10	26	28	29	74	58	51	.167	.186	.188	.28	.23	T	6.3	5.9	4.9	5.3
March	29.34	29.71	28.95	54.1	68.6	69.8	73.8	51.5	62.6	90	39	41	39	38	64	38	34	.276	.261	.242	.90	.45	.0	4.6	4.1	4.5	4.1
April	29.46	29.82	28.93	55.7	70.3	72.1	76.4	52.1	64.2	93	31	44	43	40	67	41	34	.321	.309	.280	.50	.40	.0	5.1	4.0	3.5	3.6
May	29.41	29.63	29.17	66.6	78.0	77.8	81.9	65.7	73.8	89	61	62	61	61	86	58	58	.560	.542	.539	4.12	1.20	.0	6.6	7.1	6.5	5.9
June	29.34	29.55	28.99	74.6	88.7	90.7	94.5	73.7	84.1	105	66	64	61	61	71	41	40	.608	.556	.558	T	T	.0	3.0	2.9	2.3	2.1
July	29.39	29.63	29.17	75.3	88.1	88.7	92.7	73.3	83.0	104	66	69	66	66	82	50	50	.714	.646	.651	3.54	1.77	.0	4.2	4.7	3.4	3.6
August	29.40	29.57	29.21	77.7	92.7	93.8	97.1	76.9	87.0	110	67	66	62	61	69	38	36	.652	.572	.552	.26	.26	.0	2.2	2.6	2.7	2.6
September	29.39	29.56	29.11	72.1	83.6	82.8	87.9	71.2	79.6	99	51	67	65	64	85	56	58	.673	.626	.609	10.01	6.17	.0	5.7	5.9	5.3	5.5
October	29.51	29.85	29.25	55.9	67.4	67.1	71.6	53.6	62.6	88	38	51	50	51	85	58	60	.388	.371	.385	2.89	1.72	.0	5.3	4.6	3.9	4.3
November	29.66	30.00	29.16	46.8	56.4	56.1	60.8	43.5	52.2	83	29	40	38	39	76	55	56	.266	.256	.267	.74	.27	.0	5.2	5.1	4.0	4.5
December	29.55	29.86	29.12	44.4	52.9	54.8	58.9	41.7	50.3	69	28	39	40	41	84	65	62	.255	.260	.270	2.17	1.04	.0	5.8	5.3	3.9	5.1
Year	29.45	30.07	28.85	57.7	69.8	70.8	75.3	55.6	65.4	110	10	50	49	48	76	51	50	.420	.397	.393	25.98	6.17	3.6	4.9	4.7	4.1	4.2

DAVENPORT, IOWA

[ϕ=41°30′ N.; λ=90°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.40	29.91	28.79	11.9	16.1	16.2	21.7	7.5	14.6	48	−22	9	10	11	86	73	78	0.078	0.081	0.086	1.44	0.39	17.1	6.4	6.3	6.3	6.5
February	29.43	29.74	28.80	7.8	13.8	14.0	20.2	3.0	11.6	55	−15	4	6	7	83	70	73	.065	.070	.073	1.76	.82	11.5	6.0	6.2	5.7	6.4
March	29.22	29.66	28.70	34.3	43.6	44.3	50.0	31.5	40.8	77	14	27	28	29	74	54	57	.150	.157	.169	1.25	.36	2.6	5.5	6.2	6.3	6.0
April	29.38	29.73	29.00	40.0	51.8	52.1	57.0	37.8	47.4	84	18	32	32	33	72	49	51	.194	.197	.214	1.80	.62	5.3	5.6	6.0	5.5	5.8
May	29.38	29.77	28.88	60.8	73.7	72.5	77.8	57.6	67.7	91	42	50	50	51	70	45	49	.377	.375	.383	1.78	.74	.0	5.5	5.4	5.1	5.3
June	29.28	29.61	28.62	64.1	76.8	77.3	83.0	59.9	71.4	104	50	52	51	55	66	44	48	.405	.392	.451	2.32	.02	.0	4.8	4.6	5.2	4.9
July	29.27	29.75	29.00	75.4	91.2	92.3	97.1	72.8	85.0	111	58	61	59	59	62	35	34	.551	.509	.514	.14	.08	.0	2.9	3.4	3.6	3.6
August	29.31	29.63	29.02	70.2	84.7	85.5	91.4	68.5	80.0	105	57	62	61	61	74	47	45	.567	.545	.542	3.85	.90	.0	3.5	4.2	4.2	4.1
September	29.35	29.80	28.96	62.7	73.1	71.3	77.6	60.8	69.2	94	48	58	59	60	84	63	70	.498	.523	.543	9.29	2.28	.0	6.2	6.2	5.1	6.2
October	29.38	29.89	28.94	47.2	57.7	55.0	62.3	45.2	53.8	82	28	42	43	45	82	60	69	.280	.303	.313	2.09	.73	T	5.8	5.3	4.6	5.7
November	29.47	29.99	28.86	31.3	40.3	39.5	45.5	29.2	37.4	67	17	26	28	29	79	60	65	.144	.160	.172	1.64	1.51	.3	3.7	5.1	3.3	5.2
December	29.48	29.86	28.60	29.3	35.3	33.9	40.7	25.2	33.0	59	−3	24	26	26	78	67	72	.138	.152	.152	2.72	1.20	2.5	5.2	5.9	4.9	5.9
Year	29.36	29.99	28.60	44.6	54.8	54.5	60.4	41.6	51.0	111	−22	37	38	39	76	56	59	.287	.289	.301	30.08	2.28	39.3	5.1	5.4	5.0	5.5

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

CONCORDIA, KANS.

[H = 1,375 ft.; H_b = 1,392 ft.; h_t = 50 ft.; h_r = 42 ft.; h_a = 58 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.9	N.	26	NW.	0	11	9	10	5	8	6	7	5	1	12	9	10	7	4	9	7	0	2	0	17	0	30	0	0
February	9.2	NE.	26	N.	0	9	16	9	7	5	2	2	8	0	7	15	7	7	1	10	7	0	3	0	20	0	25	0	0
March	10.2	W.	32	NW.	1	10	7	6	6	7	6	14	5	1	13	14	4	1	1	2	0	0	0	0	0	0	19	0	0
April	10.3	NE.	27	NE.	0	10	13	7	3	13	3	4	5	2	16	7	7	7	5	2	2	2	4	1	2	0	6	4	0
May	8.4	S.	30	SW.	0	5	5	7	4	20	5	9	2	5	10	15	6	7	5	0	0	0	1	0	0	1	0	4	0
June	8.7	S.	26	N.	0	4	6	16	7	10	14	1	2	0	19	9	2	6	4	0	0	0	0	0	0	17	0	5	0
July	8.3	SW.	24	SW.	0	1	6	7	3	12	23	3	5	2	21	8	2	3	2	0	0	0	0	0	0	28	0	2	0
August	7.8	S.	26	W.	0	3	5	7	10	12	13	3	2	7	16	11	4	10	10	0	0	0	1	0	0	24	0	10	0
September	8.9	S.	22	SW.	0	7	10	6	3	13	15	2	2	2	10	11	9	9	7	0	0	1	2	0	0	11	0	5	0
October	8.7	SW.	26	S.	0	10	11	1	0	13	13	5	6	3	15	11	5	5	3	1	0	0	0	0	1	0	6	2	0
November	9.5	N.	35	NW.	1	11	8	1	2	8	11	9	9	1	17	9	4	0	0	2	0	0	1	0	1	0	16	0	0
December	8.5	S.	25	N.	0	11	6	6	5	15	8	6	2	3	11	12	8	6	4	6	2	1	6	2	2	0	27	2	0
Year	8.9	S.	35	NW.	2	92	102	83	55	136	119	65	53	27	167	131	68	68	46	32	18	4	20	3	43	81	129	34	0

CORPUS CHRISTI, TEX.

[H = 17 ft.; H_b = 20 ft.; h_t = 11 ft.; h_r = 63 ft.; h_a = 78 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
January	10.2	N.	31	N.	0	21	4	5	5	16	1	2	8	0	13	5	13	8	3	0	0	0	12	7	0	0	1	0	0
February	10.6	N.	35	N.	1	19	8	9	6	9	1	1	5	0	3	10	16	8	5	0	0	0	14	10	0	0	2	1	0
March	10.8	S.	34	S.	1	8	5	6	20	17	2	3	1	0	10	11	10	5	3	0	0	0	9	5	0	1	0	2	0
April	12.7	SE.	31	N.	0	7	9	4	26	11	2	1	0	0	11	13	6	7	7	0	0	1	2	1	0	1	0	7	0
May	10.5	SE.	38	E.	1	9	5	7	24	10	3	1	3	0	8	8	15	13	12	0	0	0	2	0	0	0	0	12	0
June	10.9	SE.	49	N.	1	5	3	6	22	16	2	4	2	0	20	6	4	7	5	0	0	0	1	0	0	9	0	7	0
July	10.9	S.	31	S.	0	3	1	6	17	30	3	2	0	0	12	9	10	9	5	0	0	0	0	0	0	5	0	10	0
August	10.0	SE.	26	E.	0	2	5	6	23	13	7	6	0	0	14	12	5	7	5	0	0	0	0	0	0	12	0	8	0
September	10.8	S.	35	E.	2	7	3	7	17	18	1	4	3	0	9	10	11	15	11	0	0	0	0	0	0	2	0	8	0
October	9.6	N.	29	E.	0	19	9	7	6	9	0	7	5	0	16	8	7	6	2	0	0	0	5	3	0	0	0	1	0
November	9.8	N.	29	N.	0	19	9	9	4	9	0	4	4	2	5	9	16	8	2	0	0	0	6	3	0	0	0	0	0
December	10.5	S.	32	N.	1	11	12	10	6	14	2	3	3	1	13	3	15	8	3	0	0	0	1	1	0	0	0	0	0
Year	10.6	SE.	49	N.	7	130	73	82	176	172	24	38	34	3	134	104	128	101	63	0	0	1	52	30	0	30	3	56	0

DALLAS, TEX.

[H = 460 ft.; H_b = 512 ft.; h_t = 220 ft.; h_r = 194 ft.; h_a = 227 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
January	12.2	N.	31	NW.	0	15	2	5	12	6	1	10	11	0	15	8	8	3	3	3	2	0	3	0	2	0	11	0	0
February	12.8	N.	38	NW.	5	12	11	4	16	5	1	4	5	0	7	13	9	6	1	4	0	1	6	3	3	0	18	2	0
March	13.0	S.	36	NW.	3	11	3	2	14	14	3	4	11	0	14	10	7	4	3	0	0	0	1	0	0	1	0	4	0
April	14.0	SE.	40	SW.	3	12	5	8	17	9	5	2	2	0	17	5	8	3	3	0	0	0	2	0	0	2	1	1	0
May	11.2	E.	35	N.	3	3	17	20	14	4	3	1	0	0	7	12	12	12	8	0	0	0	3	0	0	0	0	13	0
June	11.2	S.	34	N.	2	4	11	5	18	17	0	2	3	0	21	8	1	0	0	0	0	0	1	0	0	26	0	2	0
July	10.4	SE.	68	N.	3	4	5	7	23	14	6	2	0	1	17	10	4	4	4	0	0	1	3	0	0	24	0	4	0
August	9.3	SE.	40	NE.	1	2	3	3	34	10	8	1	1	0	19	10	2	1	1	0	0	0	0	0	0	31	0	1	0
September	10.7	SE.	29	SE.	0	5	2	9	19	13	4	5	3	0	7	14	9	7	7	0	0	0	0	0	0	17	0	6	0
October	10.3	SE.	29	W.	0	11	4	7	19	4	3	9	5	0	16	5	10	7	5	0	0	0	4	0	0	0	0	2	0
November	10.8	N.	34	S.	2	12	5	3	6	9	4	9	12	0	14	6	10	7	5	0	0	1	6	1	0	0	2	2	0
December	10.5	SE.	33	W.	1	7	7	6	19	3	8	5	7	0	15	5	11	8	8	0	0	0	6	2	0	0	2	1	0
Year	11.4	SE.	68	N.	23	98	75	79	211	108	46	54	60	1	169	106	91	62	48	7	2	3	35	6	5	101	34	38	0

DAVENPORT, IOWA

[H = 579 ft.; H_b = 606 ft.; h_t = 66 ft.; h_r = 60 ft.; h_a = 161 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
January	9.8	NW.	32	NW.	1	2	10	2	5	3	5	17	17	1	7	9	15	12	9	21	12	0	2	0	21	0	30	0	0
February	10.6	NE.	32	W.	2	7	17	1	5	1	6	12	8	1	9	4	16	11	9	18	11	0	3	3	23	0	27	1	0
March	11.7	NW.	40	SW.	3	10	7	1	9	5	6	12	12	0	8	11	12	10	6	8	6	1	1	0	0	0	15	1	0
April	11.3	NW.	37	NW.	2	5	9	2	11	8	6	9	10	0	7	12	11	11	8	5	5	0	2	1	2	0	10	2	1
May	9.8	SW.	32	SW.	2	3	10	3	9	12	12	5	8	0	10	9	12	7	5	0	0	0	1	1	0	1	0	5	0
June	9.5	NE.	46	NW.	2	10	18	3	5	4	9	2	7	2	12	9	9	8	7	0	0	0	1	0	0	7	0	6	0
July	7.8	NE.	24	SE.	0	6	13	9	4	4	16	5	5	0	13	16	2	4	1	0	0	0	0	0	0	23	0	5	0
August	8.6	SE.	30	NE.	0	4	10	6	12	7	17	2	4	0	14	12	5	12	9	0	0	0	5	0	0	18	0	9	0
September	8.6	NE.	32	NE.	1	6	18	4	9	8	9	2	4	0	7	9	14	14	14	0	0	0	8	0	0	4	0	8	0
October	9.3	SW.	31	SW.	0	11	6	4	4	9	15	8	5	0	9	9	13	8	4	2	2	0	6	1	0	0	3	4	0
November	11.3	NW.	33	NW.	1	6	8	3	3	2	15	9	14	0	11	11	8	5	3	8	2	0	4	2	1	0	21	1	0
December	10.2	SW.	38	SW.	1	5	6	3	11	3	16	7	11	0	9	8	14	6	5	3	1	1	4	2	5	0	24	1	0
Year	9.9	SW.	46	NW.	15	75	132	41	87	66	132	90	105	4	116	119	131	108	80	65	39	2	37	10	52	53	130	43	1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

DAYTON, OHIO

[ϕ=39°46′ N.; λ=84°12′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.01	29.54	28.51	21.5	24.1	24.3	30.7	16.1	23.4	53	−16	18	19	---	85	79	---	0.112	0.116	-----	1.47	0.34	10.4	8.4	8.2	----	7.5
February	29.10	29.40	28.27	19.7	25.0	26.8	33.4	15.3	24.4	64	−9	15	16	---	81	66	---	.102	.113	-----	2.99	1.28	7.9	7.5	6.7	----	6.3
March	28.92	29.32	28.51	39.5	46.5	46.5	55.0	34.7	44.8	76	19	32	33	---	74	60	---	.186	.198	-----	2.94	.94	5.5	6.7	6.4	----	6.4
April	29.08	29.52	28.50	42.7	48.9	50.2	57.0	38.4	47.7	79	24	34	34	---	71	58	---	.210	.212	-----	3.81	1.51	.8	7.2	7.0	----	7.1
May	29.13	29.50	28.75	61.1	71.6	69.2	76.9	54.5	65.7	91	39	49	49	---	66	46	---	.367	.363	-----	1.04	.60	.0	3.6	3.7	----	4.0
June	28.98	29.27	28.55	66.8	78.7	77.4	84.4	60.5	72.4	97	50	53	52	---	63	42	---	.412	.404	-----	.52	.23	.0	4.2	4.9	----	4.4
July	29.00	29.41	28.72	74.5	86.0	85.3	92.9	69.9	81.4	106	58	60	59	---	62	42	---	.534	.522	-----	1.38	1.22	.0	4.0	3.6	----	4.0
August	29.07	29.36	28.84	72.9	83.2	80.9	89.5	68.9	79.2	102	57	63	62	---	72	50	---	.589	.561	-----	4.50	2.22	.0	4.7	4.5	----	4.6
September	29.06	29.40	28.80	65.1	75.6	72.6	80.8	61.3	71.0	94	45	57	58	---	76	56	---	.483	.498	-----	3.94	1.84	.0	4.9	4.9	----	4.9
October	29.12	29.49	28.63	49.8	58.2	57.4	64.5	46.7	55.6	77	28	45	46	---	88	66	---	.321	.336	-----	4.08	1.40	.0	4.7	6.4	----	5.5
November	29.16	29.62	28.68	34.3	40.3	39.5	46.7	31.3	39.0	70	21	29	30	---	80	67	---	.170	.181	-----	3.36	1.97	7.3	5.9	5.9	----	5.4
December	29.26	29.62	28.71	33.0	38.7	38.1	43.8	29.6	36.7	62	16	28	30	---	80	70	---	.160	.172	-----	2.02	.62	2.3	6.0	6.9	----	6.3
Year	29.07	29.62	28.27	48.4	56.4	55.7	63.0	43.9	53.4	106	−16	40	41	---	75	58	---	.304	.306	-----	32.05	2.22	34.2	5.6	5.8	----	5.5

DEL RIO, TEX.

[ϕ=29°20′ N.; λ=100°53′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.02	29.54	28.54	39.3	55.5	57.5	63.8	36.6	50.2	83	23	32	32	31	77	46	42	0.187	0.190	0.184	0.33	0.23	0.0	3.6	4.5	3.5	3.8
February	28.96	29.45	28.51	44.0	56.6	61.7	66.6	41.3	54.0	83	22	35	35	33	71	48	36	.230	.227	.210	.01	.01	.0	6.2	5.6	4.6	5.4
March	28.88	29.26	28.42	55.5	70.3	74.0	77.3	53.3	65.3	91	44	45	45	44	72	46	39	.320	.323	.303	.89	.83	.0	5.4	5.8	5.5	5.6
April	28.97	29.38	28.55	57.8	73.1	78.2	81.5	56.5	69.0	92	40	49	49	45	73	47	35	.379	.391	.336	1.30	1.04	.0	4.4	4.3	4.2	4.0
May	28.89	29.17	28.56	66.9	80.5	81.7	86.0	65.2	75.6	91	60	63	61	60	87	53	50	.573	.541	.520	3.72	1.30	.0	6.5	6.2	6.2	6.2
June	28.85	29.05	28.56	74.3	87.9	90.0	93.3	72.5	82.9	103	66	68	65	62	81	49	42	.681	.630	.568	4.18	3.64	.0	4.9	5.1	3.9	4.6
July	28.92	29.10	28.71	74.3	86.7	87.2	91.6	72.7	82.2	97	65	71	68	67	89	55	53	.749	.694	.664	1.45	.70	.0	5.5	5.8	4.6	5.3
August	28.93	29.10	28.69	74.8	89.5	91.1	94.1	73.9	84.0	104	66	68	65	62	79	45	40	.680	.618	.571	1.20	.57	.0	3.5	4.1	4.3	3.9
September	28.89	29.15	28.60	72.3	79.5	83.4	86.6	70.9	78.8	94	58	69	66	65	90	61	55	.722	.666	.624	2.97	.98	.0	7.2	7.6	5.2	7.0
October	29.03	29.33	28.75	57.2	71.3	71.1	76.2	55.3	65.8	95	42	53	54	53	87	58	58	.414	.426	.418	1.57	.41	.0	5.0	4.0	3.3	4.2
November	29.18	29.58	28.72	49.5	60.9	60.4	65.7	47.4	56.6	86	35	45	43	43	84	54	54	.312	.300	.302	.55	.35	.0	6.9	7.8	7.1	7.3
December	29.06	29.39	28.61	46.2	59.5	59.7	64.8	43.9	54.4	80	31	42	44	43	85	60	57	.283	.301	.294	.32	.11	.0	4.9	5.3	3.8	5.0
Year	28.96	29.58	28.42	59.3	72.6	74.7	79.0	57.5	68.2	104	22	53	52	51	81	52	47	.461	.442	.416	18.49	3.64	.0	5.3	5.5	4.7	5.2

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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	24.60	24.91	24.16	28.0	38.1	36.8	43.3	21.1	32.2	67	4	13	16	15	56	44	43	0.078	0.089	0.084	0.40	0.13	6.1	3.9	5.9	5.5	5.5
February	24.52	24.94	24.00	18.5	32.7	32.5	42.1	11.6	26.8	72	−25	6	10	11	59	43	45	.061	.069	.074	.31	.16	5.6	4.0	5.8	5.8	5.5
March	24.58	24.97	24.12	32.3	47.5	49.0	53.3	29.0	41.2	73	12	17	19	17	55	38	34	.096	.104	.097	1.95	1.10	15.1	5.7	5.4	6.1	5.4
April	24.71	24.98	24.23	40.3	57.3	58.5	62.6	38.4	50.5	77	11	27	24	26	62	31	34	.152	.138	.149	.72	.30	2.7	5.8	5.6	6.5	5.7
May	24.74	24.99	24.32	51.5	68.0	68.1	73.2	49.4	61.3	86	33	38	35	36	63	34	36	.237	.212	.223	1.28	.50	T	5.2	5.3	6.6	5.6
June	24.75	25.04	24.30	60.4	79.2	78.1	83.7	58.5	71.1	99	47	45	41	43	59	29	35	.301	.267	.290	1.36	.86	.0	4.5	3.9	7.0	4.9
July	24.81	25.01	24.51	66.5	85.1	83.6	89.9	64.7	77.3	100	57	47	44	45	53	27	31	.338	.300	.312	1.70	.61	.0	2.3	3.3	6.6	4.1
August	24.83	25.02	24.62	63.6	81.4	79.1	85.1	62.1	73.6	97	57	50	46	47	64	33	39	.372	.316	.331	3.22	1.35	.0	4.1	3.8	6.1	4.7
September	24.77	25.06	24.41	53.9	70.7	72.1	75.9	51.8	63.8	88	30	38	34	35	58	32	32	.237	.199	.208	2.89	2.31	16.5	3.0	2.6	3.5	3.1
October	24.80	25.08	24.33	41.2	56.1	54.5	61.4	38.3	49.8	81	21	32	31	33	72	44	51	.183	.173	.190	2.04	.70	7.3	4.9	4.6	5.8	5.0
November	24.88	25.20	24.31	32.4	49.9	47.1	54.5	29.1	41.8	70	4	19	20	22	58	36	42	.102	.109	.120	.30	.20	3.7	1.5	2.8	3.2	2.8
December	24.66	24.95	24.20	29.5	43.7	39.6	47.5	25.5	36.5	64	9	15	17	18	57	38	44	.083	.092	.100	.37	.21	7.7	3.1	4.3	3.4	4.3
Year	24.72	25.20	24.00	43.2	59.1	58.2	64.4	40.0	52.2	100	−25	29	28	29	60	36	39	.187	.172	.182	16.54	2.31	64.7	4.0	4.4	5.5	4.7

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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.16	29.69	28.58	8.2	13.6	13.1	18.6	3.7	11.2	41	−22	6	9	9	90	78	82	0.070	0.078	0.075	1.86	0.53	21.1	5.2	6.2	5.7	5.9
February	29.19	29.49	28.50	3.6	10.7	10.9	16.0	−.1	8.0	48	−18	0	4	6	86	72	78	.052	.058	.068	.95	.22	12.4	6.2	6.1	6.2	6.0
March	28.96	29.44	28.39	34.0	45.0	45.8	51.6	31.0	41.3	75	17	27	28	30	76	53	54	.152	.163	.174	1.57	.96	T	6.6	6.1	5.0	5.8
April	29.13	29.48	28.73	39.5	53.4	54.5	58.8	36.8	47.8	87	12	31	30	31	72	44	46	.191	.190	.195	1.33	1.36	4.7	6.2	5.0	5.2	5.4
May	29.10	29.46	28.61	61.0	74.5	74.5	78.7	57.7	68.2	92	43	52	51	51	74	48	47	.399	.391	.392	1.45	.25	.0	6.0	5.1	5.4	5.3
June	29.03	29.37	28.34	04.7	78.6	78.4	83.3	59.6	71.4	100	48	54	54	55	70	46	45	.428	.433	.441	3.81	1.14	.0	4.4	4.8	4.0	4.2
July	29.02	29.50	28.72	76.0	94.4	95.6	99.1	72.5	85.8	110	56	60	56	55	58	28	26	.517	.448	.444	.41	.41	.0	2.0	2.1	2.2	2.0
August	29.04	29.32	28.70	70.5	87.5	87.5	92.7	68.1	80.4	108	57	61	60	61	74	42	44	.555	.539	.557	2.53	1.45	.0	5.1	4.5	4.0	4.5
September	29.07	29.51	28.65	62.6	75.4	72.6	79.5	59.5	69.5	97	46	58	58	58	85	56	62	.501	.509	.512	8.50	2.77	.0	5.9	5.5	4.9	5.8
October	29.13	29.65	28.66	46.4	58.3	54.2	61.7	42.8	52.2	82	23	41	41	42	81	55	65	.274	.284	.293	.93	.38	.0	5.5	5.0	4.1	5.0
November	29.24	29.73	28.57	30.2	42.6	39.1	46.4	26.7	36.6	72	12	25	28	28	82	58	64	.141	.162	.153	.76	.60	1.4	3.8	4.9	3.0	4.3
December	29.20	29.54	28.36	27.4	34.5	33.0	39.1	22.2	30.6	58	−4	24	26	27	86	69	76	.141	.150	.159	1.54	.82	4.2	5.1	7.4	5.4	6.7
Year	29.10	29.73	28.34	43.7	55.7	54.9	60.5	40.0	50.2	110	−22	37	37	38	78	54	57	.285	.284	.289	25.64	2.77	43.8	5.2	5.2	4.6	5.1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

DAYTON, OHIO

[H=741 ft.; H_b=900 ft.; h_t=60 ft.; h_r=53 ft.; h_a=163 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*			(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)	(1)															
January	9.8	SW.	34	NW.	1	2	1	5	1	5	12	5	0	0	2	12	17	12	8	13	7	0	6	2	13	0	26	0	0
February	10.1	SW.	33	W.	1	1	4	5	3	2	9	5	0	0	7	8	14	8	7	16	4	0	2	1	15	0	26	0	0
March	10.4	SW.	33	W.	1	5	3	3	2	6	8	4	0	0	5	15	11	13	13	7	4	1	2	0	0	0	14	6	0
April	9.4	SW.	36	W.	1	4	4	6	0	3	5	7	1	0	5	8	17	14	12	6	2	0	3	0	1	0	10	5	0
May	7.7	SW.	30	SW.	0	2	4	4	2	2	9	4	3	1	17	6	8	8	5	0	0	0	1	0	0	1	0	6	0
June	8.2	N.	33	SW.	2	6	8	4	0	2	9	1	0	0	13	12	5	5	3	0	0	0	0	0	0	8	0	3	2
July	7.8	SW.	37	SW.	1	5	9	3	1	2	8	2	1	0	15	11	5	5	4	0	0	0	1	0	0	19	0	6	0
August	7.4	SW.	38	W.	1	5	5	3	0	2	14	2	0	0	12	14	5	14	9	0	0	0	2	0	0	17	0	15	0
September	8.0	SW.	32	SW.	1	2	7	4	1	6	9	0	0	1	13	9	8	8	7	0	0	0	3	0	0	6	0	3	0
October	7.8	SW.	27	SW.	0	4	3	5	1	5	8	3	2	0	10	9	12	15	12	0	0	0	4	3	0	0	3	2	0
November	9.6	SW.	28	SW.	0	6	3	3	0	2	10	5	1	0	10	7	13	4	4	6	1	0	7	3	2	0	7	1	0
December	8.6	SW.	29	SW.	0	3	2	6	2	8	6	4	0	0	7	9	15	11	9	6	4	0	8	3	2	0	20	0	0
Year	8.7	SW.	38	W.	9	45	53	51	13	45	107	42	8	2	116	120	130	117	93	54	22	1	39	12	33	51	106	47	2

DEL RIO, TEX.

[H=957 ft.; H_b=960 ft.; h_t=64 ft.; h_r=56 ft.; h_a=71 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.5	SE.	37	NW.	1	8	3	7	14	5	1	8	12	4	16	9	6	3	3	0	0	0	3	0	0	0	7	0	0
February	9.0	SE.	30	N.	0	6	2	6	28	3	3	5	3	2	9	11	9	1	0	0	0	0	2	1	0	0	5	0	0
March	8.7	SE.	29	NW.	0	7	0	11	22	7	0	1	11	3	10	9	12	2	2	0	0	0	4	2	0	3	0	2	0
April	11.0	SE.	32	N.	1	6	6	9	25	7	0	0	6	1	13	12	5	4	2	0	0	0	0	0	0	4	0	4	0
May	9.5	SE.	43	N.	1	4	3	19	26	4	0	0	5	1	7	15	9	12	10	0	0	0	0	0	0	2	0	6	0
June	8.9	SE.	27	NE.	0	1	3	15	26	8	1	0	1	5	14	11	5	5	4	0	0	0	0	0	0	27	0	3	0
July	9.6	SE.	41	NW.	2	2	2	15	30	9	0	2	0	2	7	17	7	8	5	0	0	0	0	0	0	19	0	6	0
August	9.2	SE.	26	SE.	0	0	2	18	32	9	0	0	0	1	16	11	4	5	3	0	0	0	0	0	0	28	0	4	0
September	9.3	SE.	24	E.	0	2	0	6	37	8	0	0	6	1	2	11	17	10	9	0	0	0	0	0	0	11	0	7	0
October	8.3	SE.	29	N.	0	5	0	12	23	4	2	2	10	4	17	5	9	11	9	0	0	0	0	0	0	2	0	5	0
November	7.4	NW.	27	NW.	0	10	2	18	4	3	0	7	10	6	3	9	18	7	3	0	0	0	3	2	0	0	0	0	0
December	8.3	SE.	28	NW.	0	7	1	13	19	3	0	8	6	5	13	6	12	6	3	0	0	0	9	1	0	0	2	1	0
Year	8.9	SE.	43	N.	5	58	24	149	286	70	7	33	70	35	127	126	113	74	53	0	0	0	21	6	0	96	14	38	0

DENVER, COLO.

[H=5,221 ft.; H_b=5,292 ft.; h_t=106 ft.; h_r=98 ft.; h_a=113 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.8	S.	32	NW.	1	9	4	4	2	10	8	16	9	0	9	12	10	7	4	12	7	0	0	0	7	0	25	0	0
February	8.6	N.	31	NW.	0	11	8	0	6	13	6	6	8	0	7	14	8	4	3	11	4	0	0	0	7	0	26	0	0
March	9.0	S.	30	NW.	0	10	5	4	3	13	7	12	8	0	7	16	8	11	7	12	10	0	1	0	3	0	17	0	0
April	8.6	S.	32	N.	1	11	6	3	3	17	5	5	10	0	7	15	8	8	3	3	2	0	0	0	1	0	5	2	0
May	8.2	S.	30	N.	0	5	6	7	4	22	6	2	10	0	6	16	9	10	8	3	2	1	0	1	0	0	0	4	0
June	7.9	S.	30	S.	0	7	4	6	3	24	2	8	6	0	9	16	5	9	4	0	0	0	1	0	0	11	0	12	0
July	7.7	S.	24	SE.	0	5	2	1	3	26	6	10	9	0	15	12	4	9	5	0	0	0	1	0	0	19	0	11	0
August	7.4	S.	24	S.	0	3	6	3	9	24	6	5	6	0	12	12	7	11	7	0	0	1	1	0	0	11	0	9	0
September	7.5	S.	36	N.	1	8	2	7	4	25	4	4	6	0	20	5	5	7	3	3	3	0	0	0	0	0	2	2	0
October	7.2	S.	30	NW.	0	17	9	2	3	23	1	1	6	0	11	12	8	9	7	6	5	0	4	3	1	0	9	1	0
November	7.9	S.	26	NW.	0	9	2	3	6	26	6	4	4	0	22	4	4	4	2	7	3	0	1	0	1	0	20	0	0
December	4.8	S.	20	NE.	0	12	7	3	3	20	9	5	3	0	12	14	5	4	2	5	4	0	2	1	3	0	26	0	0
Year	7.8	S.	36	N.	3	107	61	43	49	243	66	78	85	0	137	148	81	93	55	62	4	2	11	5	23	41	130	41	0

DES MOINES, IOWA

[H=800 ft.; H_b=860 ft.; h_t=5 ft.; h_r=3 ft.; h_a=99 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.4	NW.	27	NW.	0	8	1	11	7	4	4	7	20	0	11	5	15	10	9	21	10	0	3	1	24	0	30	0	0
February	10.9	N.	34	NW.	2	15	3	9	7	1	2	8	13	0	6	13	10	10	9	18	10	0	4	1	23	0	28	0	0
March	12.1	N.	39	NW.	1	7	2	6	12	4	8	9	14	0	8	10	13	4	3	5	1	1	1	0	1	0	17	3	0
April	11.3	N.	34	NW.	1	18	2	3	12	10	3	0	12	0	13	4	13	9	6	6	2	0	1	0	3	0	10	5	0
May	9.3	S.	31	S.	0	8	2	5	21	14	5	1	6	0	12	8	11	10	4	0	0	0	1	0	0	1	0	7	0
June	9.5	N.	42	NW.	2	17	3	7	13	8	2	2	7	1	15	9	6	10	8	0	0	1	1	0	0	9	0	12	0
July	8.3	S.	41	NW.	1	10	0	10	10	21	7	0	4	0	24	7	0	1	1	0	0	0	0	0	0	26	0	3	0
August	8.1	SE.	27	W.	0	8	0	14	16	11	2	0	9	2	11	14	6	13	9	0	0	0	3	1	0	19	0	10	0
September	8.6	SE.	31	W.	0	13	6	8	13	14	1	1	2	2	6	15	9	14	11	0	0	0	5	0	0	7	0	7	0
October	9.7	S.	27	NW.	0	8	3	4	11	13	6	3	12	2	11	10	10	6	5	0	0	0	7	1	0	0	7	3	0
November	10.7	NW.	31	NW.	0	8	1	5	6	8	8	3	21	0	11	12	7	5	2	6	4	0	3	1	4	0	24	1	0
December	9.4	S.	29	W.	0	4	2	5	17	12	4	4	12	2	6	10	15	5	3	6	1	1	8	0	8	0	26	1	0
Year	9.8	N.	42	NW.	7	124	25	87	145	120	52	38	132	9	134	117	115	97	70	62	28	3	37	5	63	62	142	52	0

[1] Determined by 8 a. m. observation only.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

DETROIT, MICH.[1]

[ϕ=42°24′ N.; λ=83°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	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.29	29.87	28.64	19.3	23.9	22.9	27.6	15.7	21.6	46	−6	16	18	18	86	77	80	0.098	0.105	0.107	1.48	0.40	10.1	8.8	9.1	8.6	8.7
February	29.36	29.75	28.35	12.4	18.3	17.6	25.0	7.1	16.0	50	−9	9	12	13	85	73	80	.080	.082	.085	2.62	.93	14.7	6.4	6.1	6.3	6.3
March	29.19	29.70	28.65	32.8	42.0	37.8	45.4	29.7	37.6	67	10	27	29	29	80	62	70	.156	.170	.165	1.28	.34	1.7	7.5	6.9	5.3	6.4
April	29.33	29.80	28.71	37.6	45.7	43.9	49.8	34.8	42.3	74	21	31	32	34	76	59	69	.180	.191	.211	3.61	1.96	1.2	6.7	8.2	7.8	7.3
May	29.38	29.89	28.82	58.5	70.1	65.7	74.4	51.2	62.8	90	37	47	45	46	67	44	52	.343	.327	.335	.97	.65	.0	4.5	5.6	5.1	5.0
June	29.27	29.64	28.66	62.7	74.2	68.3	77.2	54.5	65.8	88	46	52	51	51	69	47	58	.395	.389	.395	3.87	1.33	.0	4.7	5.9	5.0	4.9
July	29.28	29.68	29.02	71.4	83.2	79.8	87.0	62.4	74.7	104	49	56	53	54	61	37	44	.466	.419	.444	.81	.38	.0	3.0	3.9	3.8	3.7
August	29.32	29.69	29.05	67.5	80.9	76.6	84.5	61.7	73.1	101	52	60	56	58	77	46	54	.521	.470	.488	1.07	.39	.0	4.7	5.7	4.6	5.1
September	29.38	29.77	28.99	60.5	72.1	67.9	76.2	56.3	66.2	92	37	55	55	56	84	58	66	.465	.458	.466	5.90	1.64	.0	5.8	5.9	4.3	5.4
October	29.38	29.82	28.75	46.1	56.2	52.0	60.1	42.4	51.2	77	25	41	42	43	83	59	72	.278	.287	.299	2.33	1.60	.3	6.7	5.8	6.3	6.4
November	29.38	30.00	28.75	32.6	38.4	35.6	42.3	28.5	35.4	65	10	27	28	27	77	64	70	.158	.161	.157	1.10	.86	2.0	6.9	6.8	6.6	7.0
December	29.48	29.92	28.85	29.6	35.4	33.8	39.3	25.1	32.2	58	8	25	27	27	81	70	76	.138	.154	.155	2.04	1.10	1.6	6.6	7.2	5.6	6.9
Year	29.34	30.00	28.35	44.2	53.4	50.2	57.4	39.1	48.2	104	−9	37	37	38	77	58	66	.273	.268	.276	27.08	1.96	31.6	6.0	6.4	5.8	6.1

DEVILS LAKE, N. DAK.

[ϕ=48°07′ N.; λ=98°52′ W.]

Month	Monthly mean	Extremes: Maximum	Extremes: Minimum	Mean: 8 a. m.	Mean: Noon, local time	Mean: 8 p. m.	Mean: Maximum	Mean: Minimum	Mean: Monthly	Extremes: Maximum	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	Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	28.47	28.96	27.84	-13.9	−6.1	−8.1	−1.4	-19.6	-10.5	26	−37	14	−8	−9	97	90	95	0.021	0.029	0.028	0.36	0.25	4.4	5.3	6.6	5.0	6.8
February	28.50	28.77	27.96	-20.0	-10.3	-11.2	−6.3	-23.6	-15.0	21	−46	-23	14	-15	88	84	84	.015	.023	.022	.65	.24	7.2	5.3	6.0	5.3	5.8
March	28.26	28.79	27.79	18.5	26.9	25.1	30.7	14.5	22.6	44	−16	16	22	22	91	82	87	.100	.126	.122	.51	.28	5.5	7.0	7.6	6.2	7.2
April	28.49	28.94	27.88	26.1	39.6	39.6	44.6	23.0	33.8	73	−1	23	24	25	86	54	58	.131	.135	.139	.44	.29	.3	5.6	5.2	5.9	5.6
May	28.38	28.79	27.77	51.3	70.0	69.8	75.6	45.0	60.3	92	30	42	41	40	73	38	36	.280	.268	.258	.65	.29	T	5.0	4.1	3.5	4.3
June	28.36	28.81	27.95	56.4	72.6	70.9	77.0	50.9	64.0	101	36	48	48	48	75	44	48	.353	.351	.359	2.13	1.47	.0	4.9	4.1	5.4	5.0
July	28.34	28.78	27.92	68.1	88.9	89.2	94.5	63.5	79.0	112	47	58	56	53	71	34	31	.490	.455	.415	1.55	1.48	.0	2.4	2.5	2.4	2.6
August	28.42	28.75	28.10	58.1	77.4	75.3	81.8	55.3	68.6	99	39	50	50	50	78	42	44	.374	.378	.365	1.48	1.05	.0	5.7	5.2	6.0	5.7
September	28.38	28.81	27.96	49.5	66.5	62.7	71.0	45.7	58.4	92	26	44	45	45	85	50	55	.321	.330	.327	1.85	1.41	.0	4.3	5.4	3.9	5.1
October	28.44	29.05	27.81	30.9	47.8	42.8	52.7	26.5	39.6	86	4	25	28	28	80	50	59	.142	.164	.161	.25	.16	.7	6.0	5.4	4.9	5.7
November	28.52	29.06	28.01	20.5	30.7	27.6	36.1	15.2	25.6	60	−8	18	22	22	89	70	79	.102	.122	.120	.13	.05	2.0	5.6	6.7	5.1	7.1
December	28.40	28.84	27.75	9.6	16.2	14.3	21.0	3.8	12.4	48	−24	7	11	11	87	80	84	.069	.082	.081	.29	.10	3.7	5.8	5.8	5.5	6.2
Year	28.41	29.06	27.75	29.6	43.4	41.5	48.1	25.0	36.6	112	−46	24	27	27	83	60	63	.200	.205	.200	10.29	1.48	23.8	5.2	5.4	4.9	5.6

DODGE CITY, KANS.

[ϕ−37°45′ N.; λ=100°00′ W.]

Month	Monthly mean	Extremes: Maximum	Extremes: Minimum	Mean: 8 a. m.	Mean: Noon, local time	Mean: 8 p. m.	Mean: Maximum	Mean: Minimum	Mean: Monthly	Extremes: Maximum	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	Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	27.39	27.87	26.89	22.4	33.8	30.9	38.6	18.1	28.4	61	4	17	22	22	80	62	69	0.098	0.118	0.121	0.59	0.22	6.9	4.3	4.7	4.7	4.6
February	27.36	27.80	26.77	13.5	29.3	29.7	37.2	10.0	23.6	80	−14	6	8	8	70	44	43	.059	.067	.068	.06	.02	.7	4.3	3.5	4.7	4.7
March	27.28	27.68	26.68	35.3	56.0	56.2	63.2	32.8	48.0	79	21	21	22	20	54	28	25	.112	.118	.108	.10	.08	.1	1.9	2.4	2.7	2.7
April	27.41	27.78	26.97	41.3	62.5	63.4	69.0	39.4	54.2	89	9	28	30	29	62	34	32	.173	.185	.176	.56	.35	1.2	2.9	2.3	3.8	3.0
May	27.40	27.70	26.93	59.7	72.5	72.6	77.4	57.5	67.4	94	44	53	52	51	80	54	52	.412	.404	.385	5.81	3.34	.0	5.7	5.4	5.2	5.2
June	27.36	27.66	26.82	66.5	85.6	85.9	89.7	63.5	76.6	107	50	55	54	52	68	36	35	.434	.415	.398	1.31	1.03	.0	2.4	2.0	2.3	2.0
July	27.40	27.72	27.17	72.4	93.6	93.0	97.4	70.1	83.8	109	63	55	50	49	57	26	26	.448	.377	.361	1.10	.19	.0	1.8	2.4	3.4	2.3
August	27.39	27.63	27.19	70.7	93.8	92.5	98.0	69.3	83.6	109	58	52	51	49	55	27	26	.406	.384	.366	.98	.65	.0	2.4	2.4	2.9	2.5
September	27.39	27.74	27.11	62.5	77.0	74.5	81.6	59.4	70.5	97	39	56	54	53	81	50	53	.477	.444	.428	1.81	.83	.0	5.5	5.0	5.2	5.3
October	27.47	27.93	27.04	44.6	60.6	57.3	65.7	41.9	53.8	85	23	39	41	42	80	51	58	.247	.266	.283	1.00	.36	.9	4.4	5.1	3.8	4.1
November	27.59	27.92	26.94	31.9	52.1	47.2	58.2	28.7	43.4	75	15	23	24	23	68	36	40	.122	.133	.127	T	T	T	1.7	2.1	1.6	2.0
December	27.42	27.72	26.83	31.7	42.7	39.9	48.3	27.5	37.9	66	14	28	31	31	84	64	72	.155	.174	.177	.85	.47	3.9	4.0	5.1	3.8	5.0
Year	27.40	27.93	26.68	46.0	63.3	61.9	68.7	43.2	55.9	109	−14	36	37	36	70	43	44	.262	.257	.250	14.17	3.34	13.7	3.4	3.5	3.7	3.6

DUBUQUE, IOWA

[ϕ=42°30′ N.; λ=90°40′ W.]

Month	Monthly mean	Extremes: Maximum	Extremes: Minimum	Mean: 8 a. m.	Mean: Noon, local time	Mean: 8 p. m.	Mean: Maximum	Mean: Minimum	Mean: Monthly	Extremes: Maximum	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	Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.29	29.83	28.66	8.4	14.5	14.2	19.4	4.4	11.9	43	−26	6	6	8	87	68	74	0.071	0.073	0.075	1.46	0.56	15.5	6.0	6.3	6.9	6.6
February	29.33	29.63	28.73	3.6	11.4	10.0	16.9	−1.3	7.8	46	−19	1	1	3	86	61	72	.056	.058	.059	1.72	.62	17.8	6.2	7.0	7.3	6.9
March	29.11	29.58	28.57	32.3	40.6	40.6	46.9	29.4	38.2	76	9	26	24	28	76	53	60	.143	.140	.157	.81	.35	3.0	7.0	6.6	6.5	6.6
April	29.28	29.64	28.89	38.7	49.7	49.9	54.3	36.1	45.2	79	16	30	29	31	71	48	51	.178	.179	.193	.84	.29	5.7	5.9	5.2	6.2	6.0
May	29.27	29.65	28.74	59.6	72.4	70.8	76.6	56.3	66.4	90	43	49	49	50	68	46	51	.358	.364	.381	1.43	.47	.0	5.8	5.5	5.2	5.6
June	29.20	29.56	28.54	61.8	74.2	75.0	79.2	57.9	68.6	97	48	50	51	54	67	46	49	.369	.386	.423	3.66	1.53	.0	4.7	5.3	5.1	5.0
July	29.19	29.67	28.90	72.2	89.4	89.8	94.6	67.6	81.1	110	52	59	58	58	65	36	36	.519	.488	.501	.71	.31	.0	2.7	2.8	4.1	3.3
August	29.22	29.53	28.88	68.2	83.8	82.7	88.9	64.6	76.8	107	54	60	58	60	76	44	50	.534	.494	.539	4.68	2.52	.0	3.9	4.3	4.6	4.5
September	29.26	29.72	28.92	60.5	71.8	68.6	75.4	57.2	66.3	92	44	56	57	58	86	62	70	.471	.494	.506	5.10	1.21	.0	6.0	5.7	4.4	5.7
October	29.28	29.81	28.86	44.2	55.6	52.1	58.9	41.2	50.0	81	22	39	39	41	82	56	67	.255	.264	.282	3.64	1.66	.0	5.2	6.1	5.0	6.0
November	29.36	29.92	28.72	29.4	38.3	36.9	43.1	26.4	34.8	64	15	25	26	27	81	60	68	.136	.147	.160	.69	.30	2.9	5.0	5.4	3.1	5.4
December	29.37	29.75	28.43	25.8	32.5	30.4	37.8	20.7	29.2	58	−8	21	23	24	82	68	75	.126	.140	.140	2.03	.98	4.8	5.7	6.4	4.6	6.3
Year	29.26	29.92	28.43	42.1	52.8	51.8	57.7	38.4	48.0	110	−26	35	35	37	77	54	60	.268	.269	.285	26.77	2.52	49.7	5.3	5.6	5.2	5.7

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

DETROIT, MICH.[1]

[H=619 ft.; H_b=626 ft.; h_t=5 ft.; h_r=4 ft.; h_a=78 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	11.8	SW.	34	SW.	2	2	7	4	3	3	25	6	11	1	0	5	26	16	8	26	13	0	8	1	19	0	30	0	0
February	12.0	SW.	41	W.	3	7	7	1	5	2	20	6	9	1	7	6	16	15	9	19	15	0	8	3	19	0	27	0	0
March	11.1	NW.	44	SW.	2	6	6	4	8	6	12	8	12	0	6	9	16	10	9	7	3	1	6	0	3	0	21	1	0
April	10.6	NW.	34	W.	1	1	11	1	8	8	6	9	16	0	3	8	19	18	13	12	8	0	10	1	1	0	13	2	0
May	10.0	SW.	34	W.	1	2	7	3	8	6	18	5	13	0	12	10	9	7	6	0	0	0	1	1	0	1	0	4	0
June	8.6	NW.	27	S.	0	14	12	4	7	4	7	4	8	0	11	11	8	9	5	0	0	2	3	0	0	0	0	7	1
July	7.4	NE.	24	NW.	0	5	19	4	9	3	6	6	10	0	16	13	2	3	3	0	0	0	2	0	0	9	0	5	0
August	8.3	NE.	26	NW.	0	4	14	7	9	7	11	6	3	1	11	12	8	9	6	0	0	0	3	1	0	11	0	8	0
September	8.6	NE.	26	NW.	0	10	14	4	7	11	5	2	7	0	9	8	13	15	14	0	0	1	11	5	0	1	0	8	0
October	10.1	SW.	34	NW.	1	4	6	2	5	14	16	3	12	0	8	7	16	14	9	2	1	0	10	1	0	0	3	2	0
November	12.2	SW.	33	SW.	1	6	4	3	1	5	19	8	14	0	7	5	18	9	4	14	5	0	2	0	5	0	21	1	0
December	10.9	SW.	32	SW.	1	4	4	5	7	10	16	8	7	1	7	6	18	11	6	9	6	0	11	4	5	0	25	0	0
Year	10.1	SW.	44	SW.	12	65	111	42	77	79	161	71	122	4	97	100	169	136	92	89	51	4	75	17	52	22	140	38	1

DEVILS LAKE, N. DAK.

[H=1,471 ft.; H_b=1,478 ft.; h_t=11 ft.; h_r=4 ft.; h_a=44 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.6	NW.	23	E.	0	7	4	4	5	8	7	11	16	0	6	9	16	9	2	23	9	0	7	1	31	0	31	0	1
February	8.9	NW.	32	N.	1	8	3	4	3	3	7	11	18	1	10	6	13	8	6	15	8	0	6	2	29	0	29	0	1
March	11.4	W.	33	NW.	1	7	5	4	5	6	7	11	16	1	4	8	19	10	4	18	9	0	5	1	17	0	31	0	3
April	10.6	NW.	32	NW.	1	10	13	2	4	4	12	3	10	2	10	10	10	6	3	10	3	0	1	1	7	0	23	0	4
May	10.3	S.	29	W.	0	6	8	4	9	11	7	7	9	1	15	9	7	6	4	1	0	1	1	0	0	4	4	7	0
June	9.3	S.	28	NW.	0	9	6	7	6	11	6	6	9	0	10	12	8	10	5	0	0	1	1	1	0	2	0	10	2
July	9.0	SE.	44	NW.	1	6	8	11	9	11	5	6	6	0	21	10	0	4	2	0	0	1	0	0	0	21	0	6	1
August	8.0	NE.	22	NE.	0	10	15	7	10	5	7	6	2	0	8	9	14	7	3	0	0	1	2	0	0	7	0	5	0
September	9.3	S.	26	NW.	0	10	4	3	9	13	6	4	10	1	10	11	9	7	6	0	0	0	3	2	0	2	3	6	0
October	10.1	NW.	33	NW.	1	8	5	3	8	7	11	7	13	0	8	12	11	4	2	9	2	0	1	0	2	0	23	0	4
November	10.0	NW.	42	NW.	2	6	9	1	4	5	15	5	15	0	5	9	16	6	1	14	6	0	1	2	10	0	28	0	1
December	9.2	NW.	38	NW.	1	7	4	4	5	10	11	7	14	0	9	8	14	6	4	15	5	0	6	1	19	0	31	0	0
Year	9.5	NW.	44	NW.	8	94	84	54	77	94	101	84	138	6	116	113	137	83	42	105	42	4	34	11	115	36	203	34	17

DODGE CITY, KANS.

[H=2,522 ft.; H_b=2,509 ft.; h_t=10 ft.; h_r=3 ft.; h_a=86 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.7	N.	30	N.	0	15	7	3	7	9	8	10	3	0	14	7	10	7	5	9	7	0	6	2	11	0	31	0	0
February	12.0	S.	44	N.	4	8	10	1	9	14	5	6	5	0	14	6	9	6	0	9	6	0	2	0	15	0	26	0	0
March	14.1	N.	38	S.	9	17	4	4	4	10	7	8	8	0	18	13	0	3	1	1	1	0	0	0	0	0	15	0	0
April	13.8	S.	36	N.	5	10	7	6	9	14	1	9	4	0	19	6	5	6	3	2	1	0	3	2	1	0	7	4	0
May	13.0	S.	40	S.	4	7	7	4	12	24	3	1	4	0	11	9	11	11	8	0	0	3	1	0	0	3	0	10	0
June	12.0	S.	50	SE.	1	4	9	3	12	22	3	3	4	0	23	6	1	4	3	0	0	0	0	0	0	15	0	5	0
July	12.0	S.	30	E.	0	3	10	4	6	24	4	10	1	0	20	9	2	6	4	0	0	0	0	0	0	26	0	7	0
August	10.5	S.	27	SE.	0	5	3	6	4	27	7	10	0	0	21	7	3	4	4	0	0	0	0	0	0	27	0	6	0
September	12.6	S.	35	SE.	1	10	2	4	7	25	4	4	4	0	11	8	11	11	8	0	0	0	4	0	0	9	0	2	0
October	11.9	S.	37	NE.	2	16	7	3	6	17	3	5	5	0	14	11	6	8	6	2	2	1	1	0	0	0	7	3	0
November	11.6	N.	33	NW.	1	16	4	2	1	8	9	9	11	0	25	2	3	0	0	1	0	0	4	1	1	0	20	0	0
December	11.3	S.	28	SW.	0	12	8	0	10	11	12	5	4	0	13	7	11	3	2	5	2	0	5	1	1	0	26	0	0
Year	12.1	S.	50	SE.	27	123	78	40	87	205	66	80	53	0	203	91	72	69	44	29	19	4	26	6	29	80	132	37	0

DUBUQUE, IOWA

[H=641 ft.; H_b=699 ft.; h_t=60 ft.; h_r=53 ft.; h_a=79 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.3	NW.	21	NW.	0	6	4	3	9	5	5	6	24	0	8	6	17	13	6	17	13	0	1	1	23	0	30	0	0
February	7.1	NW.	22	SE.	0	8	7	4	7	5	8	2	16	1	7	4	18	11	8	17	11	0	1	1	23	0	27	0	0
March	7.7	NW.	23	SE.	0	10	0	3	10	12	4	4	19	0	8	8	15	11	8	10	4	0	1	0	4	0	19	2	0
April	7.7	NW.	27	NW.	0	8	4	4	7	13	4	1	19	0	9	6	15	9	5	5	4	0	0	0	4	0	9	1	0
May	6.4	S.	22	NW.	0	2	6	3	10	24	6	1	10	0	10	7	14	7	6	0	0	0	4	2	0	1	0	5	0
June	5.9	S.	24	NW.	0	5	6	8	11	14	2	3	11	0	13	8	9	10	7	0	0	1	1	1	0	3	0	7	0
July	5.4	E.	17	NW.	0	5	7	9	9	12	4	3	11	2	20	7	4	7	6	0	0	0	0	0	0	20	0	7	0
August	5.7	S.	22	S.	0	6	2	6	8	23	1	2	14	0	13	12	6	15	13	0	0	0	3	0	0	14	0	14	0
September	5.2	S.	19	S.	0	9	4	2	8	23	2	2	7	3	10	9	11	15	14	0	0	0	13	2	0	2	0	6	0
October	6.2	S.	20	N.	0	12	2	2	3	21	5	2	11	4	10	6	15	10	8	0	0	0	14	10	0	0	7	2	0
November	7.3	NW.	27	NW.	0	1	5	3	3	13	7	2	24	2	9	11	10	6	4	9	4	0	5	3	3	0	24	0	0
December	6.7	S.	24	NW.	0	1	1	4	14	17	7	1	16	1	10	5	16	6	3	7	3	0	14	4	8	0	27	0	0
Year	6.5	S.	27	NW.	0	73	48	51	99	182	55	29	182	13	127	89	150	120	88	65	39	1	57	24	65	40	143	44	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

DULUTH, MINN.

[ϕ=46°47′ N.; λ=92°06′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.76	29.25	28.29	−1.0	7.3	4.5	10.9	−5.8	2.6	32	−35	−4	1	0	86	74	81	0.045	0.054	0.050	1.53	0.84	18.1	6.0	4.7	5.5	5.0
February	28.76	29.18	28.09	−9.1	2.4	.8	7.6	−11.4	−1.9	38	−33	−13	0	−5	82	66	75	.028	.035	.039	1.57	.67	16.7	3.6	3.8	3.8	3.7
March	28.57	29.08	27.97	19.8	27.8	25.9	30.8	17.3	24.0	45	−14	16	19	21	86	70	80	.099	.110	.116	2.36	.59	19.9	7.4	7.3	7.6	7.6
April	28.79	29.18	28.33	28.2	37.9	35.4	41.8	24.9	33.4	62	2	22	24	24	76	59	65	.125	.140	.137	2.65	1.82	3.4	6.6	6.2	4.8	5.9
May	28.76	29.07	28.16	46.9	55.1	54.9	63.5	41.9	52.7	86	31	40	42	42	79	62	65	.259	.272	.279	2.76	.45	1.2	6.1	6.6	5.8	6.1
June	28.73	29.12	28.09	54.1	64.6	61.1	68.2	47.0	57.6	87	39	46	46	45	76	55	60	.320	.319	.306	.93	.36	.0	5.6	5.9	5.5	5.7
July	28.74	29.18	28.48	65.0	77.9	74.0	81.9	59.3	70.6	106	46	55	58	54	71	50	53	.439	.463	.432	.63	.39	.0	3.3	3.5	2.8	3.4
August	28.76	29.06	28.42	61.1	72.0	68.2	75.2	57.9	66.6	93	52	54	54	54	79	58	64	.419	.426	.419	1.93	.93	.0	7.2	6.0	6.5	6.5
September	28.75	29.18	28.29	52.6	63.1	58.7	68.2	49.5	58.8	86	32	48	49	48	85	63	70	.350	.368	.356	1.48	.49	.0	5.8	4.7	5.0	5.8
October	28.76	29.35	28.25	35.2	44.4	39.8	48.6	29.7	39.2	76	9	30	30	30	80	60	71	.175	.183	.182	1.28	.49	7.0	6.8	6.3	5.0	6.7
November	28.80	29.41	28.04	22.1	27.6	24.9	31.7	15.6	23.6	52	1	18	19	19	84	68	78	.105	.106	.108	1.58	.66	14.8	6.4	6.6	5.5	7.0
December	28.76	22.92	27.70	16.0	20.7	18.9	25.3	8.9	17.1	39	−23	14	16	15	89	82	84	.092	.102	.099	2.29	.61	14.9	7.6	8.0	6.5	7.6
Year	28.75	29.41	27.70	32.6	41.7	38.9	46.1	27.9	37.0	106	−35	27	30	29	81	64	70	.205	.215	.210	20.99	1.82	96.0	6.0	5.8	5.4	5.9

EASTPORT, MAINE

[ϕ=44°54′ N.; λ=66°59′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.76	30.47	28.85	20.4	24.2	23.0	29.8	14.4	22.1	49	−6	16	18	18	80	74	78	0.102	0.110	0.110	3.24	1.50	8.2	6.9	6.8	5.8	6.7
February	29.88	30.43	29.10	15.5	20.9	21.5	26.9	11.6	19.2	44	−4	9	10	13	74	60	69	.076	.075	.091	1.73	.83	7.5	5.2	4.9	5.5	5.4
March	29.89	30.37	29.09	34.5	39.0	37.5	42.9	30.6	36.8	55	8	32	33	33	88	80	85	.185	.202	.198	4.48	1.53	7.7	6.6	7.3	7.0	7.5
April	29.86	30.35	29.17	37.1	40.6	38.7	44.0	33.1	38.6	52	27	31	34	34	80	77	82	.178	.195	.195	2.64	.78	1.0	7.4	8.1	6.2	7.6
May	29.87	30.44	29.28	46.7	50.9	46.5	55.5	39.8	47.6	81	30	42	44	42	85	80	84	.276	.298	.265	2.67	.84	T	6.7	7.2	6.9	7.1
June	29.81	30.26	29.24	54.8	58.7	56.0	63.8	47.6	55.7	75	42	51	53	52	88	82	86	.377	.405	.387	4.07	1.33	.0	5.6	7.0	6.1	7.2
July	29.77	30.13	29.38	58.0	63.3	59.5	68.0	51.5	59.8	83	48	54	55	54	87	77	83	.418	.440	.419	1.08	.28	.0	5.1	6.6	6.2	6.9
August	29.92	30.27	29.53	59.0	64.3	59.4	67.7	52.4	60.0	84	48	55	56	55	86	78	86	.430	.460	.436	2.38	1.22	.0	5.3	6.4	5.0	6.9
September	30.00	30.37	29.43	53.8	58.0	54.4	61.0	48.5	54.8	70	36	50	52	51	89	82	88	.373	.399	.379	3.13	.85	.0	4.9	6.6	6.0	6.8
October	29.96	30.53	29.17	46.6	51.0	47.0	54.3	40.6	47.4	68	22	43	46	43	88	82	86	.295	.323	.292	3.32	1.06	T	6.6	6.0	4.5	6.2
November	29.85	30.61	29.08	33.5	36.5	34.5	41.6	27.2	34.4	60	7	30	31	30	86	81	84	.186	.193	.182	2.20	.52	7.5	7.8	7.7	8.1	8.1
December	30.14	30.84	29.19	27.9	30.6	30.2	37.2	19.9	28.6	52	4	25	27	26	87	85	85	.156	.164	.156	5.62	1.16	.8	6.0	6.7	7.6	7.1
Year	29.89	30.84	28.85	40.7	44.8	42.4	49.4	34.8	42.1	84	−6	36	38	38	85	78	83	.254	.272	.259	36.56	1.53	32.7	6.2	6.8	6.2	7.0

ELKINS, W. VA.

[ϕ=38°54′ N.; λ=79°51′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	27.93	28.35	27.24	22.2	27.8	25.5	34.5	16.0	25.2	56	−16	19	21	21	87	74	81	0.118	0.127	0.124	4.74	1.13	12.8	8.6	7.4	7.3	8.0
February	27.98	28.33	27.38	20.5	31.7	30.6	38.8	16.2	27.5	68	−6	18	20	23	90	61	73	.117	.126	.139	2.92	1.18	10.4	7.1	6.3	6.2	7.2
March	27.85	28.14	27.26	35.4	47.1	44.3	53.5	31.1	42.3	74	15	32	33	34	87	62	68	.183	.198	.200	8.32	3.40	29.8	8.0	7.0	6.1	7.6
April	27.99	28.35	27.39	42.5	51.4	48.9	57.6	34.6	46.1	79	20	35	35	34	76	56	60	.215	.216	.206	4.07	1.43	3.0	7.9	7.2	6.5	7.6
May	28.08	28.48	27.75	53.6	69.8	65.0	74.4	45.7	60.0	90	32	48	49	49	82	51	59	.345	.359	.359	4.30	1.34	.0	4.5	4.1	4.4	4.5
June	27.95	28.16	27.63	61.3	75.2	70.5	80.0	52.9	66.4	92	40	54	53	55	78	48	59	.419	.408	.437	3.05	1.84	.0	4.7	4.6	6.4	5.4
July	27.99	28.33	27.80	64.0	78.4	73.0	83.2	58.6	70.9	96	46	60	60	63	88	56	72	.530	.550	.588	8.12	2.67	.0	5.4	5.0	6.7	5.8
August	28.07	28.34	27.86	64.7	78.8	72.5	83.5	60.1	71.8	95	48	62	62	64	90	57	76	.553	.555	.604	3.44	1.02	.0	4.7	5.5	5.2	5.9
September	28.09	28.30	27.78	58.3	73.6	65.9	78.6	53.8	66.2	90	36	56	56	58	92	58	77	.455	.471	.497	1.55	.67	.0	4.7	5.3	5.3	6.2
October	28.08	28.43	27.47	46.7	59.4	52.9	65.2	42.1	53.6	80	23	44	45	46	89	62	77	.304	.318	.329	4.34	2.12	T	6.6	5.7	5.7	6.4
November	28.05	28.45	27.55	33.1	43.1	39.0	48.9	28.4	38.6	76	14	28	29	30	82	60	72	.165	.175	.180	2.61	1.06	1.8	6.9	6.6	5.6	6.9
December	28.14	28.51	27.51	31.2	40.6	38.0	47.5	26.3	36.9	61	10	28	31	30	88	70	74	.165	.182	.177	4.01	1.55	2.6	6.7	7.3	6.8	7.4
Year	28.02	28.51	27.24	44.5	56.4	52.2	62.1	38.8	50.5	96	−16	40	41	42	86	60	71	.297	.307	.320	51.47	3.40	60.4	6.3	6.0	6.0	6.6

EL PASO, TEX.

[ϕ=31°47′ N.; λ=106° 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	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	26.18	26.46	25.81	36.2	50.0	53.1	57.4	33.6	45.5	69	24	22	24	24	57	38	34	0.120	0.129	0.130	0.57	0.57	T	2.7	3.1	2.8	3.4
February	26.12	26.40	25.84	42.5	56.9	59.1	62.7	39.8	51.2	75	29	27	24	25	55	29	28	.152	.131	.137	.06	.06	0.0	2.5	3.0	2.5	3.3
March	26.11	26.39	25.72	48.1	63.7	66.3	70.0	45.9	58.0	77	34	26	21	20	43	20	18	.140	.112	.108	T	T	.0	2.7	3.5	2.8	3.4
April	26.16	26.49	25.87	53.9	72.6	75.5	78.8	52.7	65.8	91	34	27	23	23	36	17	16	.152	.137	.130	.11	.07	.0	2.0	2.0	2.5	2.2
May	26.13	26.38	25.83	63.6	80.7	82.8	86.5	61.8	74.2	95	49	42	38	35	47	24	21	.280	.243	.218	.56	.55	.0	3.0	3.0	3.3	3.2
June	26.13	26.31	25.89	71.2	90.2	93.0	95.4	69.5	82.4	102	60	45	46	43	41	22	19	.317	.318	.288	.34	.33	.0	1.5	.6	1.6	1.4
July	26.17	26.35	26.00	72.5	88.7	90.2	94.1	71.2	82.6	103	65	56	53	51	58	32	28	.455	.413	.385	.68	.35	.0	3.3	2.5	3.4	3.1
August	26.19	26.37	26.02	70.7	86.7	87.2	91.9	69.6	80.8	99	65	55	53	52	61	34	33	.449	.410	.399	1.94	.77	.0	3.0	2.1	4.0	3.0
September	26.16	26.34	25.90	64.6	78.5	79.5	84.4	63.0	73.7	96	44	56	55	54	75	47	44	.458	.442	.420	3.52	1.49	.0	3.6	2.9	3.2	3.3
October	26.23	26.46	26.00	53.8	70.6	69.8	75.2	51.5	63.4	86	43	42	41	41	66	37	39	.268	.262	.265	.32	.26	.0	3.2	3.3	2.1	3.0
November	26.34	26.62	25.95	42.6	56.6	56.1	61.4	39.8	50.6	81	26	30	28	32	63	36	42	.175	.160	.184	1.32	.82	T	3.7	4.1	3.5	3.9
December	26.24	26.51	25.80	38.6	53.1	52.3	57.9	35.7	46.8	68	26	30	28	31	70	39	46	.168	.158	.178	.51	.22	.0	2.6	2.6	3.4	2.9
Year	26.18	26.62	25.72	54.9	70.7	72.1	76.3	52.8	64.6	103	24	38	36	36	56	31	31	.261	.243	.237	9.93	1.49	T	2.8	2.7	2.9	3.0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

DULUTH, MINN.

[H=1,128 ft.; 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	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	13.2	NW.	36	NW.	4	7	3	2	1	1	3	15	29	1	12	6	13	9	5	22	9	0	3	1	31	0	31	0	0
February	15.4	NW.	40	NW.	4	3	8	3	1	0	1	20	22	0	19	3	7	6	4	13	6	0	3	0	28	0	29	0	0
March	13.2	W.	41	NW.	6	6	12	6	0	1	6	16	15	0	5	6	20	15	11	21	14	0	6	3	14	0	30	2	1
April	12.9	NW.	38	NW.	4	6	15	3	1	1	6	6	22	0	8	8	14	8	5	11	3	0	6	7	7	0	24	1	4
May	12.2	NE.	38	NW.	1	6	27	6	1	0	5	9	8	0	8	9	14	14	12	1	1	0	9	9	0	0	4	4	1
June	11.8	NE.	35	NW.	1	7	22	5	0	0	8	10	8	0	8	12	10	10	5	0	0	0	5	8	0	0	0	3	1
July	9.8	NE.	34	NE.	1	4	31	3	1	1	8	8	5	1	16	11	4	6	3	0	0	0	2	3	0	9	0	3	1
August	12.1	NE.	35	E.	1	5	21	9	0	0	8	7	12	0	6	10	15	14	9	0	0	1	4	3	0	5	0	6	0
September	11.4	NE.	39	NW.	2	2	25	3	0	1	7	8	14	0	9	11	10	6	5	0	0	0	6	5	0	0	1	4	0
October	12.7	NW.	41	NW.	4	7	11	1	2	1	13	7	20	0	6	12	13	7	5	6	3	0	3	3	2	0	19	0	1
November	14.8	NW.	49	NW.	9	6	5	1	2	0	14	12	20	0	7	6	17	9	6	21	9	0	2	2	15	0	29	0	1
December	13.0	W.	39	W.	7	3	6	4	6	1	14	10	18	0	5	4	22	17	10	18	14	0	10	6	20	0	30	0	0
Year	12.7	NW.	49	NW.	44	62	186	46	15	7	93	128	193	2	109	98	159	121	80	113	59	1	59	50	117	14	197	23	10

EASTPORT, MAINE

[H=33 ft.; H_b=76 ft.; h_t=67 ft.; h_r=62 ft.; h_a=85 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	14.6	NW.	45	NE.	8	7	6	1	4	6	1	13	24	0	9	3	19	12	9	16	7	0	5	0	17	0	29	0	0
February	12.9	W.	32	NW.	1	7	5	1	5	3	7	13	17	0	11	7	11	11	8	12	7	0	6	2	20	0	29	0	0
March	11.7	SW.	41	SE.	4	8	6	8	6	8	14	2	10	0	4	6	21	15	13	6	4	0	16	6	3	0	12	0	1
April	12.0	SW.	37	SW.	4	6	3	6	2	1	20	9	13	0	5	4	21	16	13	8	5	1	7	1	0	0	11	1	0
May	11.0	SW.	33	E.	1	6	4	4	3	6	27	3	8	1	5	9	17	16	9	1	0	0	16	1	0	0	1	2	0
June	8.5	SW.	24	NW.	0	5	3	2	2	8	24	3	12	1	4	8	18	12	9	0	0	0	19	12	0	0	0	3	1
July	7.2	SW.	24	S.	0	4	2	1	4	11	20	9	10	1	2	14	15	10	7	0	0	0	18	13	0	0	0	4	0
August	7.6	SW.	26	SE.	0	9	1	1	0	7	27	7	9	1	4	11	16	14	9	0	0	0	15	10	0	0	0	2	0
September	9.5	SW.	28	W.	0	10	7	2	0	2	21	9	8	1	6	9	15	13	10	0	0	0	16	9	0	0	0	0	0
October	11.0	SW.	39	S.	3	7	2	0	4	1	26	10	12	0	8	8	15	13	10	1	0	0	17	2	0	0	4	1	0
November	11.0	NW.	32	NW.	1	6	7	2	1	1	16	11	15	1	3	5	22	16	13	10	5	0	12	0	5	0	16	0	0
December	13.5	NW.	46	S.	5	11	2	5	6	3	11	7	17	0	6	6	19	16	12	8	3	0	14	3	8	0	27	0	0
Year	10.9	SW.	46	S.	27	86	48	33	37	57	214	96	155	6	67	90	209	164	122	62	31	1	161	59	53	0	129	13	2

ELKINS, W. VA.

[H=1,927 ft.; H_b=1,947 ft.; h_t=59 ft.; h_r=52 ft.; h_a=78 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.3	W.	32	W.	1	5	3	5	11	9	8	14	6	1	3	8	20	22	17	20	12	0	2	1	11	0	27	0	0
February	6.7	W.	30	SW.	0	2	9	6	8	2	6	13	10	2	4	9	16	13	10	12	6	0	8	4	10	0	26	0	0
March	6.6	W.	27	W.	0	7	13	1	9	4	7	9	8	4	2	12	17	15	13	8	6	0	10	3	1	0	19	3	0
April	8.2	W.	30	NW.	0	11	5	1	10	10	7	10	5	1	2	9	19	15	12	9	4	0	3	1	1	0	13	6	0
May	5.1	N.	29	W.	0	14	4	3	11	6	2	8	8	6	15	7	9	10	9	0	0	1	5	0	0	1	1	9	0
June	5.2	N.	32	NW.	1	13	5	8	16	5	4	5	4	0	9	16	5	8	8	0	0	1	12	2	0	1	0	8	0
July	4.7	N.	34	NW.	1	14	5	8	9	5	7	5	4	5	9	14	8	14	12	0	0	1	11	5	0	6	0	13	0
August	4.4	SE.	25	NW.	0	5	10	5	14	8	1	11	3	5	8	12	11	12	12	0	0	0	13	7	0	2	0	12	0
September	4.2	SE.	18	S.	0	11	7	3	11	6	2	8	9	3	9	9	12	8	5	0	0	0	13	8	0	0	0	1	0
October	5.5	W.	22	SW.	0	9	3	1	13	8	6	11	9	2	8	8	15	12	10	2	0	0	14	9	0	0	5	0	0
November	7.3	W.	28	W.	0	7	6	3	6	8	4	17	9	0	4	12	14	12	9	9	5	0	7	3	3	0	21	0	0
December	6.1	SE.	35	SW.	1	8	7	6	14	7	3	8	5	4	5	7	19	16	10	7	5	0	9	4	3	0	23	0	0
Year	5.9	W.	35	SW.	4	106	77	50	132	78	57	119	80	33	78	123	165	157	127	67	38	3	107	47	29	10	135	52	0

EL PASO, TEX.

[H=3,710 ft.; H_b=3,778 ft.; h_t=82 ft.; h_r=75 ft.; h_a=101 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.2	NW.	37	W.	2	0	7	5	4	2	2	19	23	0	18	7	6	1	1	1	0	0	2	1	0	0	13	0	0
February	13.3	W.	48	W.	8	1	1	5	0	0	0	28	22	1	14	13	2	1	1	0	0	0	0	0	0	0	2	0	0
March	12.8	W.	46	W.	9	2	6	11	0	2	2	20	18	1	17	9	5	0	0	0	0	0	0	0	0	0	0	1	0
April	10.2	E.	43	W.	4	2	5	13	3	0	4	23	10	0	21	7	2	2	2	0	0	0	0	0	0	1	0	2	0
May	9.0	SE.	32	SE.	1	3	1	17	18	0	1	10	12	0	19	9	3	2	1	0	0	0	0	0	0	9	0	3	0
June	9.0	E.	30	SE.	0	1	1	22	13	0	0	9	13	1	25	5	0	2	1	0	0	0	0	0	0	27	0	4	0
July	8.7	SE.	26	NE.	0	1	8	20	21	0	1	4	6	1	19	10	2	4	3	0	0	0	0	0	0	26	0	10	0
August	7.3	E.	32	SE.	1	2	5	21	24	1	1	2	6	0	21	8	2	10	8	0	0	0	0	0	0	21	0	11	0
September	7.4	E.	27	N.	0	2	8	15	16	1	1	5	11	1	20	6	4	8	7	0	0	1	1	0	0	10	0	5	0
October	7.4	E.	23	NE.	0	3	8	23	3	1	5	10	7	2	19	7	5	3	2	0	0	0	1	1	0	0	0	1	0
November	7.8	E.	24	N.	0	2	13	21	5	1	3	6	7	2	18	4	8	8	6	2	2	0	0	0	0	0	4	2	0
December	6.6	W.	27	SW.	0	3	8	10	3	2	1	20	14	1	19	8	4	5	5	0	0	1	0	0	0	0	9	0	0
Year	9.0	E.	48	W.	25	22	71	183	110	10	21	156	149	10	230	93	43	46	37	3	2	2	4	2	0	94	28	39	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ERIE, PA.

[ϕ=42°07′ N.; λ=80°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.20	29.76	28.52	22.0	24.6	24.1	29.7	17.5	23.6	50	−7	18	19	19	84	78	79	0.107	0.108	0.107	1.58	0.39	11.7	9.0	8.4	9.3	8.8
February	29.28	29.71	28.35	16.9	20.8	20.6	27.0	11.9	19.4	54	−3	11	13	14	78	69	74	.083	.088	.088	2.37	.68	11.3	8.3	7.3	6.7	7.5
March	29.10	29.58	28.59	35.0	39.7	38.6	44.8	30.6	37.7	68	12	29	33	31	78	76	75	.167	.193	.185	3.80	1.61	20.4	7.3	7.3	5.6	6.8
April	29.24	29.69	28.56	38.3	42.8	42.2	50.0	34.7	42.4	74	23	33	34	35	80	72	75	.197	.214	.217	2.97	.56	9.0	8.1	7.8	8.1	8.0
May	29.29	29.81	28.80	59.0	65.2	62.6	70.3	52.0	61.2	85	39	50	54	52	74	68	69	.391	.444	.412	1.27	.42	.0	4.6	3.5	4.0	4.0
June	29.17	29.52	28.68	64.8	70.6	69.1	75.7	58.6	67.2	90	48	52	53	56	65	57	64	.400	.422	.456	1.75	1.28	.0	4.1	3.5	4.6	4.2
July	29.18	29.60	28.92	71.7	77.3	77.2	82.5	65.5	74.0	98	54	57	57	59	62	51	56	.481	.484	.520	.91	.50	.0	2.9	2.3	2.8	2.8
August	29.24	29.61	28.95	70.3	75.4	73.6	80.4	65.0	72.7	93	55	60	62	62	71	65	68	.532	.573	.565	1.28	.54	.0	5.2	4.7	4.2	4.6
September	29.30	29.63	28.87	63.2	71.1	67.2	75.0	58.6	66.8	92	39	55	58	57	74	66	70	.451	.502	.479	1.52	.88	.0	4.4	4.3	3.7	4.1
October	29.29	29.70	28.65	49.3	56.9	53.8	61.4	45.9	53.6	78	27	43	47	45	80	70	73	.299	.342	.314	2.86	.86	T	6.7	5.7	6.1	6.1
November	29.28	29.89	28.69	35.1	39.0	37.7	44.0	31.0	37.5	70	8	30	32	32	82	77	78	.180	.199	.189	4.11	1.31	13.4	8.0	7.8	7.3	7.7
December	29.40	29.83	28.73	32.7	37.4	36.5	41.9	29.0	35.4	62	8	26	27	28	76	65	70	.146	.151	.158	1.19	.29	3.2	7.0	7.0	6.5	6.9
Year	29.25	29.89	28.35	46.5	51.7	50.3	56.9	41.7	49.3	98	−7	39	41	41	75	68	71	.286	.310	.308	25.61	1.61	69.0	6.3	5.8	5.7	6.0

ESCANABA, MICH.

[ϕ=45°48′ N.; λ=87°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.32	29.87	28.69	12.4	17.4	16.5	21.4	9.4	15.4	35	−14	10	12	12	89	76	82	0.077	0.082	0.085	1.60	0.52	16.8	8.1	8.4	7.3	8.1
February	29.35	29.78	28.65	.8	9.1	8.2	13.5	−4.7	4.4	43	−24	−3	0	1	83	63	72	.046	.049	.052	1.41	.43	19.5	5.1	5.2	5.4	5.3
March	29.18	29.76	28.43	23.9	30.0	28.7	34.5	20.0	27.2	50	−10	19	20	21	80	66	73	.109	.116	.118	1.73	.52	9.5	7.1	7.3	6.5	6.7
April	29.37	29.87	28.93	31.0	37.2	35.2	40.7	27.3	34.0	60	13	25	27	27	78	67	72	.141	.153	.152	.96	.24	2.4	7.1	7.7	7.1	7.4
May	29.36	29.83	28.73	48.6	55.7	55.0	61.2	43.2	52.2	84	32	42	43	45	79	66	72	.277	.289	.312	3.87	.92	T	6.2	5.9	5.9	6.3
June	29.30	29.70	28.55	55.4	61.6	60.9	66.7	47.8	57.2	79	41	47	48	48	74	64	64	.328	.348	.339	1.23	.35	.0	5.4	5.6	5.7	5.4
July	29.31	29.70	29.00	66.3	75.3	74.2	79.6	60.2	69.9	99	49	56	58	58	70	57	58	.459	.516	.494	.46	.33	.0	2.7	3.8	2.8	3.2
August	29.34	29.59	28.88	61.0	67.6	66.0	71.5	57.1	64.3	88	45	54	57	57	80	69	74	.430	.469	.471	3.77	1.22	.0	6.5	6.4	5.4	6.5
September	29.36	29.81	28.90	55.9	63.9	60.8	67.2	51.3	59.2	83	35	52	53	53	86	69	76	.404	.428	.419	2.60	1.53	0	6.8	5.8	3.3	5.7
October	29.35	29.85	28.89	39.3	47.6	44.6	50.6	35.6	43.1	66	18	34	35	36	80	63	72	.210	.226	.231	2.17	.78	T	6.9	7.5	6.9	7.3
November	29.38	30.09	28.62	26.1	31.7	29.9	36.3	22.1	29.2	59	9	21	21	21	81	64	69	.117	.119	.120	1.25	.29	12.5	8.1	7.7	7.0	8.0
December	29.41	29.88	28.44	23.1	27.9	26.6	31.9	17.5	24.7	46	−11	20	22	21	87	76	78	.115	.122	.122	2.31	.73	17.3	7.0	7.4	7.4	7.6
Year	29.34	30.09	28.43	37.0	43.8	42.2	47.9	32.2	40.1	99	−24	31	33	33	81	67	72	.226	.243	.243	23.36	1.53	78.0	6.4	6.6	5.9	6.5

EUREKA, CALIF.

[ϕ=40°48′ N.; λ=124°11′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.01	30.31	29.53	47.7	52.7	52.1	55.3	43.8	49.6	70	38	44	46	47	88	80	83	0.292	0.311	0.321	8.84	1.36	0.0	7.9	7.5	7.7	7.7
February	29.89	30.41	29.18	46.3	53.0	52.2	55.5	43.6	49.6	64	34	42	43	43	87	70	73	.276	.280	.286	5.89	1.78	.0	7.6	6.6	8.2	6.7
March	30.07	30.32	29.49	44.7	51.1	51.0	53.6	41.9	47.8	66	35	42	42	43	89	73	74	.267	.274	.278	1.77	.61	T	5.5	5.5	5.3	5.5
April	30.05	30.49	29.42	47.5	53.8	53.5	56.2	45.7	51.0	75	34	45	48	48	92	81	84	.303	.336	.342	2.13	.75	.0	7.6	7.1	6.7	7.2
May	29.97	30.42	29.62	51.4	58.3	57.8	61.8	49.5	55.6	74	43	48	50	50	90	76	77	.338	.367	.366	2.23	.42	.0	5.2	4.8	5.2	5.1
June	29.95	30.19	29.62	55.7	62.8	61.7	65.2	54.4	59.8	75	49	52	54	55	90	73	78	.396	.415	.428	1.34	1.08	.0	8.2	5.8	5.9	6.1
July	29.96	30.09	29.71	54.6	59.7	60.3	62.5	53.6	58.0	69	47	53	54	53	94	81	78	.400	.413	.408	.09	.09	.0	8.1	3.4	3.7	5.0
August	29.95	30.10	29.75	53.6	57.6	58.6	60.7	52.3	56.5	65	48	52	52	53	96	83	82	.393	.394	.403	T	T	.0	7.9	4.4	4.7	5.9
September	29.90	30.16	29.66	51.5	59.1	58.4	62.3	49.7	56.0	83	45	48	50	50	91	73	75	.343	.366	.365	.04	.04	.0	2.6	3.3	3.5	3.8
October	29.99	30.22	29.72	49.9	57.1	56.4	59.8	48.1	54.0	76	41	47	49	49	90	77	80	.322	.352	.354	.49	.49	.0	3.5	5.0	4.0	5.4
November	30.15	30.43	29.98	45.4	52.7	52.2	55.0	42.3	48.6	70	34	42	44	46	89	75	81	.268	.293	.313	.01	.01	.0	4.9	5.1	4.2	6.3
December	30.03	30.45	29.45	44.5	51.5	50.8	53.8	41.0	47.4	62	33	41	43	45	87	76	80	.257	.284	.298	3.97	1.31	.0	6.3	6.5	7.5	7.4
Year	29.99	30.49	29.18	49.4	55.8	55.4	58.5	47.2	52.8	83	33	46	48	48	90	76	79	.321	.340	.347	26.80	1.78	T	6.3	5.4	5.6	6.0

EVANSVILLE, IND.

[ϕ=37°58′ N.; λ=87°33′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.61	30.16	29.14	24.4	29.6	29.5	35.2	20.6	27.9	62	−8	19	20	20	79	66	67	0.123	0.122	0.190	1.80	0.73	5.3	6.5	7.1	5.8	6.9
February	29.64	29.98	28.91	24.4	31.8	31.7	37.5	20.0	28.8	66	−6	19	21	23	78	64	69	.123	.135	.142	1.56	.63	5.3	5.9	6.4	5.1	6.1
March	29.44	29.82	28.86	43.2	53.6	54.1	60.1	39.7	49.9	75	27	35	34	35	72	49	51	.210	.205	.215	4.67	2.70	T	5.7	4.7	4.9	5.2
April	29.59	30.02	29.02	47.0	56.3	56.3	61.2	43.6	52.4	80	25	37	37	38	69	51	54	.239	.245	.259	3.00	1.39	T	5.5	6.5	4.9	5.9
May	29.60	29.92	29.24	64.6	76.8	76.4	81.5	59.5	70.5	92	46	52	50	52	64	42	44	.398	.384	.403	1.43	.93	.0	3.5	3.8	5.0	4.0
June	29.46	29.77	29.06	70.8	84.0	84.6	89.1	65.1	77.1	103	55	53	54	54	55	38	37	.418	.427	.427	1.39	.48	.0	3.0	4.5	3.5	3.7
July	29.48	29.86	29.28	77.1	90.5	89.5	96.0	74.2	85.1	108	60	67	65	64	72	46	46	.675	.639	.622	.69	.22	.0	3.8	4.5	4.9	4.4
August	29.53	29.74	29.34	75.9	90.1	88.1	94.5	73.6	84.0	104	62	65	63	64	70	42	46	.639	.595	.616	.51	.31	.0	4.1	4.2	3.1	4.0
September	29.55	29.82	29.21	68.7	80.4	78.3	84.7	65.9	75.3	97	49	61	62	62	78	56	60	.559	.578	.575	2.15	.85	.0	5.0	6.2	4.9	5.4
October	29.62	29.96	29.22	52.8	64.0	62.3	68.5	50.6	59.6	84	34	47	48	49	82	58	63	.347	.356	.372	4.02	1.40	.0	5.9	6.7	3.5	5.7
November	29.71	30.06	29.33	37.4	46.4	44.5	51.6	33.7	42.6	75	20	31	31	32	77	56	60	.180	.185	.189	4.62	2.85	7.1	4.8	4.3	2.6	4.3
December	29.72	30.09	29.13	36.6	43.3	42.7	47.4	32.8	40.1	65	15	30	32	32	78	66	67	.181	.194	.194	2.10	.71	.5	5.5	6.3	4.9	5.8
Year	29.58	30.16	28.86	51.9	62.2	61.5	67.3	48.3	57.8	108	−8	43	43	44	73	53	55	.341	.339	.350	27.94	2.85	18.2	4.9	5.4	4.4	5.1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ERIE, PA.

[H=670 ft.; H_b=714 ft.; h_t=130 ft.; h_r=122 ft.; h_a=166 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	15.2	SW.	42	SW.	11	2	7	0	7	10	16	15	5	0	2	3	26	19	11	22	14	0	3	3	15	0	28	0	0
February	14.2	W.	47	W.	10	4	5	2	4	8	10	19	6	0	2	11	16	16	11	17	13	0	1	1	20	0	26	0	0
March	13.9	W.	38	SE.	3	9	6	0	6	13	7	14	7	0	6	8	17	16	14	11	5	0	1	0	3	0	18	2	0
April	12.5	W.	38	S.	4	2	5	1	2	8	10	27	5	0	5	3	22	16	14	11	7	0	4	2	1	0	11	4	0
May	11.6	W.	52	W.	2	9	4	0	1	9	8	20	11	0	17	9	5	8	6	0	0	1	0	0	0	0	0	4	0
June	10.9	N.	32	SW.	2	13	7	2	1	10	8	10	9	0	14	11	5	13	6	0	0	0	3	3	0	1	0	4	1
July	9.3	N.	24	SW.	0	17	4	1	1	2	6	18	13	0	21	8	2	4	3	0	0	0	0	0	0	7	0	2	0
August	11.3	N.	32	SW.	1	10	15	2	5	6	10	7	7	0	13	11	7	12	6	0	0	0	0	0	0	3	0	7	0
September	12.7	S.	32	SE.	1	10	11	0	5	12	9	8	5	0	17	7	6	5	4	0	0	0	0	0	0	2	0	1	0
October	13.6	S.	37	SW	2	8	6	1	0	20	8	9	10	0	7	12	12	14	13	2	0	0	0	0	0	0	4	3	0
November	14.0	NW.	36	SW.	5	9	2	1	2	13	9	10	14	0	5	6	19	19	14	14	12	0	0	0	6	0	17	3	0
December	14.5	S.	46	SE.	7	5	2	3	12	13	9	8	10	0	8	6	17	10	8	8	3	0	1	0	4	0	21	0	0
Year	12.8	W.	52	W.	48	98	74	13	46	124	110	165	102	0	117	95	154	152	110	85	54	1	13	9	49	13	125	30	1

ESCANABA, MICH.

[H=594 ft.; H_b=612 ft.; h_t=54 ft.; h_r=44 ft.; h_a=60 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.3	NW.	32	N.	1	11	4	2	1	8	6	10	20	0	2	10	19	13	8	25	13	0	4	0	26	0	31	0	1
February	10.1	W.	34	W.	1	6	4	3	3	7	14	12	9	0	9	10	10	11	9	16	11	0	3	1	26	0	28	0	0
March	9.5	S.	31	NW.	0	6	4	5	3	13	9	7	15	0	7	7	17	13	8	17	9	1	8	2	8	0	28	2	1
April	10.2	S.	27	N.	0	18	6	3	1	16	1	1	14	0	3	9	18	12	8	11	5	0	8	2	4	0	22	2	6
May	10.9	S.	33	NE.	1	20	4	2	7	15	4	2	8	0	8	9	14	14	12	1	0	0	9	2	0	0	2	10	0
June	10.2	S.	29	N.	0	17	4	4	1	13	11	5	3	2	10	8	12	7	6	0	0	0	6	0	0	0	0	4	4
July	8.5	S.	30	N.	0	17	5	4	6	12	10	4	4	0	17	12	2	5	3	0	0	2	4	0	0	4	0	4	2
August	9.7	S.	32	N.	1	16	11	4	4	12	6	2	6	1	7	10	14	11	8	0	0	0	12	0	0	0	0	8	1
September	9.7	S.	30	N.	0	11	5	4	4	14	10	2	10	0	7	13	10	11	8	0	0	0	14	0	0	0	0	5	2
October	10.9	SW.	38	N.	2	11	4	3	1	10	16	5	12	0	5	6	20	9	8	7	0	0	16	3	1	0	11	3	0
November	12.2	NW.	32	NW.	1	5	5	2	0	2	20	5	21	0	3	6	21	14	8	18	9	0	11	1	11	0	28	0	2
December	9.7	S.	30	NW.	0	6	3	3	5	14	10	13	8	0	6	4	21	14	11	17	8	0	18	5	16	0	28	0	0
Year	10.1	S.	38	N.	7	144	59	39	36	136	117	68	130	3	84	104	178	134	97	112	55	3	113	16	92	4	178	38	19

EUREKA, CALIF.

[H=44 ft.; H_b=62 ft.; h_t=73 ft.; h_r=65 ft.; h_a=89 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.0	SE.	34	SW.	1	11	3	3	15	11	10	1	7	1	6	3	22	21	17	0	0	1	6	4	0	0	0	0	0
February	7.3	SE.	32	SW.	1	7	3	5	14	9	9	2	6	3	5	7	17	21	16	0	0	1	2	0	0	0	0	1	0
March	8.6	N.	34	N.	2	26	6	6	4	3	4	2	8	3	9	11	11	9	6	1	1	1	7	2	0	0	0	0	0
April	7.7	N.	30	N.	0	19	7	1	10	5	9	5	4	0	3	9	18	10	8	0	0	0	7	5	0	0	0	0	0
May	8.9	N.	30	S.	0	14	3	2	7	9	13	6	7	1	10	11	10	13	10	0	0	2	6	1	0	0	0	1	0
June	8.1	N.	24	SW.	0	17	3	4	7	4	10	2	13	0	7	11	12	6	3	0	0	0	2	0	0	0	0	0	0
July	7.3	N.	24	N.	0	21	1	0	1	3	10	6	17	3	14	11	6	1	1	0	0	0	11	1	0	0	0	0	0
August	6.2	NW.	18	N.	0	14	3	1	3	5	13	5	17	1	5	15	11	0	0	0	0	0	24	5	0	0	0	0	0
September	5.6	SW.	24	N.	0	11	3	2	10	4	5	12	12	1	18	5	7	1	1	0	0	0	15	9	0	0	0	0	0
October	5.0	N.	22	N.	0	16	5	5	10	3	8	4	9	2	11	6	14	1	1	0	0	0	18	14	0	0	0	0	0
November	4.4	E.	21	N.	0	12	8	12	13	1	7	2	2	3	9	6	15	1	0	0	0	0	15	12	0	0	0	0	0
December	6.1	SE.	24	SE.	0	11	5	8	15	9	7	4	2	1	2	8	21	13	12	0	0	1	12	7	0	0	0	0	0
Year	6.9	N.	34	SW.	4	179	50	49	109	66	105	51	104	19	99	103	164	97	75	1	1	6	125	60	0	0	0	2	0

EVANSVILLE, IND.

[H=388 ft.; H_b=431 ft.; h_t=76 ft.; h_r=74 ft.; h_a=116 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.7	NW.	34	NW.	1	6	3	5	8	5	10	12	13	0	5	7	19	12	9	10	5	0	4	0	10	0	20	1	0
February	9.7	S.	32	W.	1	10	7	5	7	9	2	10	8	0	9	5	15	9	6	10	4	0	4	2	13	0	23	0	0
March	10.6	S.	34	N.	2	15	4	7	7	10	6	7	6	0	11	11	9	11	9	2	0	1	3	0	0	0	4	5	0
April	10.2	S.	40	S.	1	7	7	3	4	15	7	8	9	0	8	11	11	9	5	2	0	1	3	2	0	0	0	4	0
May	8.1	S.	31	SW.	0	9	7	7	5	15	10	5	2	2	18	5	8	5	4	0	0	0	0	0	0	3	0	7	0
June	9.0	N.	37	SW.	2	18	10	9	0	6	8	6	3	0	16	10	4	5	5	0	0	0	0	0	0	17	0	6	0
July	8.7	SW.	34	NW.	1	9	7	5	2	7	21	9	2	0	13	15	3	6	5	0	0	0	1	0	0	26	0	11	0
August	8.1	S.	37	W.	1	9	4	2	6	23	15	1	1	1	17	11	3	3	3	0	0	0	0	0	0	24	0	5	0
September	8.3	S.	29	S.	0	8	8	6	6	20	7	4	0	1	11	11	8	10	8	0	0	0	2	0	0	12	0	3	0
October	8.4	S.	31	S.	0	13	4	7	5	19	8	5	1	0	9	11	11	12	9	0	0	0	5	0	0	0	0	2	0
November	9.8	NW.	34	S.	1	10	6	2	2	10	7	8	14	1	13	11	6	7	5	4	3	0	6	4	0	0	15	3	0
December	8.3	S.	32	S.	1	9	8	6	12	18	3	4	1	1	11	5	15	11	7	2	1	0	9	5	3	0	15	1	0
Year	9.1	S.	40	S	11	123	75	64	64	157	104	79	60	6	141	113	112	100	75	30	13	2	37	13	26	82	81	48	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

FORT SMITH, ARK.

[ϕ=35°22′ N.; λ=94°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.57	30.14	29.02	30.3	40.1	40.3	46.3	27.8	37.0	72	14	25	28	27	79	62	59	0.135	0.154	0.152	0.22	0.12	2.0	4.5	5.9	5.1	5.5
February	29.58	30.05	28.93	29.7	37.1	39.7	45.6	26.2	35.9	77	8	23	24	25	75	61	58	.141	.148	.149	.87	.46	1.1	6.0	5.8	5.3	5.7
March	29.41	29.73	29.03	48.5	63.2	63.9	69.2	46.4	57.8	83	37	36	36	36	63	39	38	.124	.225	.231	.75	.36	.0	5.0	4.4	3.9	4.7
April	29.54	29.90	28.78	52.0	67.2	67.7	73.3	48.2	60.8	90	26	39	38	38	64	36	38	.264	.251	.259	.73	.40	.0	4.1	3.9	4.2	4.1
May	29.52	29.77	29.23	65.0	79.3	78.7	83.7	62.5	73.1	91	53	55	55	56	72	45	48	.446	.444	.454	1.96	1.32	.0	5.3	5.3	4.8	5.1
June	29.42	29.63	29.02	73.3	89.4	90.2	95.0	69.4	82.2	106	61	60	58	58	64	36	37	.532	.496	.500	2.39	1.62	.0	2.3	2.5	3.0	2.7
July	29.46	29.73	29.20	77.0	92.9	93.0	98.2	74.5	86.4	110	66	67	63	62	72	39	38	.668	.583	.569	1.12	.58	.0	4.8	3.9	4.6	4.4
August	29.46	29.66	29.26	77.6	95.2	95.3	100.6	76.1	88.4	113	64	62	60	59	60	33	33	.580	.548	.518	.50	.48	.6	3.2	4.1	3.9	3.8
September	29.47	29.71	29.14	71.7	84.1	82.9	89.2	70.4	79.8	103	51	64	63	63	77	52	56	.604	.587	.592	8.08	3.71	.0	5.5	6.3	5.9	6.1
October	29.58	29.95	29.33	53.8	66.1	65.2	71.1	52.0	61.6	87	39	49	49	50	85	57	61	.360	.353	.370	4.03	1.92	.0	4.7	5.3	4.7	4.7
November	29.73	30.04	29.20	41.4	52.4	51.5	58.3	37.4	47.8	79	28	34	33	36	75	48	55	.211	.209	.230	1.09	.71	.0	4.3	3.8	2.9	3.8
December	29.64	29.91	29.03	41.0	48.3	48.3	53.9	37.8	45.8	70	24	35	36	37	80	64	65	.217	.222	.230	3.10	1.76	.0	5.5	6.2	5.0	5.9
Year	29.53	30.14	28.78	55.1	67.9	68.1	73.7	52.4	63.0	113	3	46	45	46	72	48	49	.357	.351	.354	24.84	3.71	3.1	4.6	4.8	4.4	4.7

FORT WAYNE, IND.

[ϕ=41°05′ N.; λ=85°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.08	29.57	28.51	16.9	21.6	20.4	26.5	12.9	19.7	50	−18	14	17	16	90	81	83	0.096	0.106	0.105	1.55	0.33	7.8	8.4	7.3	5.9	7.2
February	29.13	29.43	28.26	12.5	19.5	20.3	25.9	8.5	17.2	53	−13	10	14	16	89	77	80	.084	.095	.101	4.25	2.33	9.2	7.3	6.2	6.3	6.6
March	28.95	29.40	28.46	34.7	44.6	42.7	49.9	31.2	40.6	66	13	29	31	31	79	61	63	.164	.187	.180	3.03	1.11	3.5	7.4	5.7	5.0	5.9
April	29.10	29.52	28.58	39.3	48.3	47.9	53.2	36.6	44.9	78	21	32	33	35	75	57	64	.196	.204	.227	2.47	1.17	2.0	6.6	7.6	5.6	7.4
May	29.15	29.57	28.68	59.2	70.8	68.9	74.8	53.6	64.2	87	39	48	48	47	68	47	48	.355	.355	.337	1.57	1.18	.0	3.8	4.7	4.0	4.5
June	29.02	29.37	28.47	64.6	76.4	74.2	80.4	58.1	69.2	93	50	51	52	51	62	45	47	.380	.401	.392	2.65	.96	.0	4.0	4.8	4.3	4.7
July	29.04	29.45	28.71	72.0	85.8	84.6	90.7	67.2	79.0	106	55	57	57	56	61	40	41	.484	.480	.477	2.14	1.60	.0	3.3	4.1	4.0	4.1
August	29.09	29.42	28.84	69.9	81.1	80.5	86.1	66.2	76.2	98	56	61	59	60	74	51	51	.549	.520	.528	3.65	1.26	.0	4.1	4.4	4.4	4.4
September	29.13	29.50	28.85	62.1	74.1	70.2	77.5	59.4	68.4	91	41	56	57	57	81	58	66	.469	.494	.492	4.82	1.50	.0	4.3	5.3	5.7	5.2
October	29.15	29.59	28.61	46.9	57.3	54.4	61.7	44.5	53.1	78	25	43	44	45	85	62	72	.290	.306	.321	2.87	.79	.0	5.3	6.5	4.2	6.1
November	29.17	29.71	28.67	33.3	39.3	37.2	43.6	30.0	36.8	67	18	29	30	30	83	69	76	.168	.175	.178	3.10	2.50	.2	6.5	5.7	4.1	6.1
December	29.24	29.66	28.63	30.1	36.9	34.6	40.5	26.0	33.2	60	8	26	29	28	85	72	75	.152	.170	.160	2.68	1.49	2.8	6.4	5.9	4.6	6.4
Year	29.10	29.71	28.26	45.1	54.6	53.0	59.2	41.2	50.2	106	−18	38	39	39	78	60	64	.282	.291	.292	34.78	2.50	25.5	5.6	5.7	4.8	5.7

FORT WORTH, TEX.

[ϕ=32°45′ N.; λ=97°20′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.34	29.92	28.69	35.1	49.3	----	55.1	32.8	44.0	80	16	28	29	---	76	50	---	0.161	0.166	----	0.67	0.32	4.5	3.6	3.3	----	3.3
February	34.29	29.82	28.64	33.3	45.2	----	54.3	30.2	42.2	80	10	26	28	---	74	54	---	.174	.181	----	.45	.36	T	5.8	4.6	----	3.8
March	29.19	29.57	28.73	52.8	69.9	----	74.7	50.7	62.7	90	37	39	35	---	64	32	---	.257	.226	----	.63	.44	.0	3.9	.3	----	2.0
April	29.32	29.68	28.74	56.1	72.3	----	77.8	51.7	64.8	94	32	44	40	---	65	34	---	.322	.283	----	.99	.96	.0	4.2	2.5	----	2.7
May	29.26	29.49	28.96	67.3	79.2	----	82.9	65.1	74.0	90	59	62	60	---	85	55	---	.567	.527	----	9.48	4.01	.0	5.2	5.4	----	5.1
June	29.20	29.39	28.78	75.8	90.4	----	95.3	72.8	84.0	107	66	64	61	---	68	40	---	.605	.552	----	.03	.03	.0	1.5	2.0	----	2.0
July	29.25	29.48	28.98	76.5	90.6	----	95.2	73.7	84.4	104	67	68	65	---	77	45	---	.698	.624	----	2.35	1.29	.0	2.6	3.1	----	2.7
August	29.26	29.43	29.00	77.9	94.9	----	99.1	76.2	87.6	112	63	65	60	---	66	33	---	.632	.536	----	.23	.23	.0	1.3	1.8	----	1.8
September	29.24	29.42	28.89	72.4	84.3	----	88.3	71.4	79.8	101	51	67	64	---	82	54	---	.666	.613	----	7.30	4.12	.0	4.5	5.1	----	4.4
October	29.36	29.72	29.04	55.7	68.7	----	72.2	53.0	62.6	88	37	51	50	---	84	54	---	.380	.365	----	3.72	1.66	.0	4.7	4.5	----	3.9
November	29.51	29.86	28.99	46.5	58.0	----	62.1	42.8	52.4	85	30	39	39	---	77	52	---	.265	.264	----	.46	.15	.0	5.0	3.4	----	4.0
December	29.39	29.68	28.85	43.1	54.9	----	60.2	40.7	50.4	72	26	38	40	---	84	60	---	.244	.259	----	1.84	1.29	.0	5.2	4.3	----	4.4
Year	29.31	29.92	28.64	57.7	71.5	----	76.4	55.1	65.7	112	10	49	48	---	75	47	---	.414	.383	----	28.15	4.12	4.5	4.0	3.4	----	3.3

FRESNO, CALIF.

[ϕ=36°43′ N.; λ=119°49′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.76	30.04	29.50	45.1	54.7	57.6	59.5	41.5	50.5	70	34	43	46	45	92	72	64	0.279	0.308	0.303	0.68	0.18	0.0	3.9	6.6	6.5	5.9
February	29.67	30.09	29.36	46.2	55.5	57.6	59.9	43.4	51.6	70	32	44	45	46	92	70	66	.293	.310	.313	4.70	1.21	.0	5.4	7.2	6.1	6.6
March	29.64	29.93	29.17	49.2	63.9	67.6	69.6	46.6	58.1	82	34	45	47	46	87	56	48	.309	.338	.323	1.36	1.00	.0	2.0	4.2	3.9	4.0
April	29.68	30.05	29.43	52.5	69.7	74.2	76.5	50.7	63.6	91	38	48	47	45	83	46	37	.334	.332	.310	.54	.50	.0	3.2	4.1	4.2	3.8
May	29.56	29.80	29.26	57.4	78.2	83.2	85.3	56.1	70.7	100	47	46	43	38	68	31	23	.317	.285	.243	.04	.04	.0	2.7	3.3	2.4	2.6
June	29.51	29.74	29.25	63.1	84.5	89.3	91.0	62.0	76.5	106	50	48	47	42	60	29	21	.338	.326	.274	.01	.01	.0	2.7	3.3	2.9	3.0
July	29.47	29.61	29.28	70.9	92.8	98.3	100.2	69.3	84.8	110	58	49	49	44	48	24	18	.350	.359	.300	T	T	.0	2.5	1.9	2.1	2.0
August	29.48	29.67	29.34	68.8	91.1	97.7	99.3	66.9	83.1	107	57	49	50	43	51	25	16	.355	.361	.279	T	T	.0	.8	1.2	1.3	1.2
September	29.48	29.70	29.27	63.4	85.3	90.5	92.4	60.5	76.4	105	52	47	45	40	57	26	19	.325	.304	.256	.00	.00	.0	.5	.5	.5	.5
October	29.60	29.78	29.26	57.7	74.4	76.8	79.8	55.3	67.6	97	48	48	49	47	72	44	40	.338	.350	.326	2.55	1.17	.0	1.9	3.0	2.8	2.8
November	29.79	30.14	29.58	47.0	63.4	65.8	69.0	43.9	56.4	80	33	42	45	45	83	52	49	.268	.302	.303	T	T	.0	.5	1.8	1.8	1.8
December	29.74	30.07	29.23	40.8	49.7	51.2	53.9	37.8	45.8	64	30	38	40	41	90	71	70	.232	.249	.259	3.11	1.20	.0	4.1	6.1	6.0	6.3
Year	29.62	30.14	29.17	55.2	71.9	75.8	78.0	52.8	65.4	110	30	46	46	44	74	46	39	.312	.319	.291	12.99	1.21	.0	2.5	3.6	3.4	3.4

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

FORT SMITH, ARK.

[H=448 ft.; H_b=457 ft.; h_t=79 ft.; h_r=72 ft.; h_a=94 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction of time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	8.9	E.	29	W.	0	5	3	23	2	2	10	6	11	0	9	13	9	7	1	3	1	0	3	2	4	0	18	0	0
February	9.2	E.	32	W.	1	4	7	20	2	3	9	4	8	1	10	10	9	5	3	6	1	0	4	2	7	0	21	1	0
March	9.4	E.	26	SW.	0	4	5	20	3	7	8	5	10	0	13	11	7	5	3	0	0	0	2	2	0	0	0	3	0
April	9.2	E.	28	SW.	0	5	7	20	8	4	4	4	8	0	15	9	6	6	4	0	0	1	1	0	0	1	2	4	0
May	7.8	E.	22	S.	0	3	14	26	9	3	3	2	2	0	9	15	7	7	5	0	0	0	1	0	0	2	0	9	0
June	7.6	SW.	47	NW.	1	3	10	19	0	3	21	2	2	0	20	8	2	4	4	0	0	1	0	0	0	21	0	6	0
July	7.5	SW.	30	N.	0	1	13	17	6	8	14	1	2	0	14	13	4	7	4	0	0	2	0	0	0	29	0	10	0
August	7.1	E.	49	SE.	1	5	6	29	9	5	7	0	1	0	13	18	0	2	1	0	0	1	0	0	0	30	0	7	0
September	7.9	E.	31	NW.	0	3	7	25	5	4	9	5	2	0	6	13	11	11	10	0	0	0	3	0	0	16	0	9	0
October	7.2	E.	21	NW.	0	6	7	18	8	4	10	0	8	1	11	6	11	8	6	0	0	0	10	0	0	0	0	1	0
November	7.9	SW.	28	NW.	0	4	7	14	2	4	13	7	9	0	17	4	9	4	3	1	0	0	4	1	0	0	6	1	0
December	8.2	E.	27	W.	0	4	9	29	4	1	7	1	7	0	10	7	14	9	7	0	0	0	4	2	0	0	9	1	0
Year	8.2	E.	49	SE.	3	47	95	260	58	48	115	37	70	2	150	127	89	75	51	10	2	5	32	9	11	99	56	52	0

FORT WAYNE, IND.

[H=777 ft.; H_b=857 ft.; h_t=69 ft.; h_r=63 ft.; h_a=84 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.5	W.	30	W.	0	5	4	7	4	6	9	23	4	0	4	9	18	12	10	17	7	0	13	0	19	0	30	2	0
February	10.8	W.	35	W.	1	4	7	9	2	4	9	19	4	0	5	10	14	9	8	17	7	0	13	2	18	0	26	2	0
March	10.4	W.	28	W.	0	10	1	7	9	6	8	13	8	0	9	10	12	12	10	5	2	1	7	2	1	0	18	5	0
April	10.2	NW.	34	NW.	1	8	5	5	6	6	9	4	17	0	2	13	15	15	10	10	6	2	5	1	2	0	12	5	0
May	8.4	SW.	24	NW.	0	3	3	7	2	9	16	7	14	1	16	9	6	8	5	0	0	0	0	0	0	0	0	4	0
June	8.1	NW.	29	SW.	0	9	11	8	3	7	9	3	10	0	11	14	5	8	7	0	0	1	1	1	0	4	0	7	1
July	7.1	NE.	24	SW.	0	11	13	9	8	4	6	6	11	0	11	16	4	5	4	0	0	2	2	0	0	15	0	8	0
August	7.4	SW.	31	NE.	0	3	10	9	7	6	9	8	10	0	13	12	6	12	10	0	0	0	2	0	0	12	0	13	0
September	8.1	NE.	23	W.	0	2	17	4	6	10	8	7	5	1	10	11	9	12	8	0	0	0	5	2	0	2	0	7	0
October	8.6	S.	24	W.	0	3	7	3	3	23	8	7	7	1	10	5	16	10	9	0	0	0	13	1	0	0	3	3	0
November	10.5	W.	28	SW.	0	4	6	2	4	4	12	16	12	0	9	5	16	7	4	7	2	0	4	1	4	0	21	2	0
December	8.9	S.	30	S.	0	2	5	11	5	12	10	8	8	1	9	5	17	11	9	7	6	0	10	4	6	0	24	1	0
Year	9.1	W.	35	W.	2	64	89	81	59	97	113	115	110	4	109	119	138	121	94	63	30	6	75	14	50	33	134	59	1

FORT WORTH, TEX.

[H=616 ft.; H_b=679 ft.; h_t=92 ft.; h_r=85 ft.; h_a=110 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.9	N.	31	NW.	0	12	0	0	3	3	7	4	2	0	22	1	8	4	3	3	2	0	1	0	0	0	11	1	0
February	11.3	N.	38	N.	3	11	0	5	1	10	1	1	0	0	15	7	7	3	2	2	0	0	3	0	3	0	19	1	0
March	11.0	N.	40	N.	3	10	0	1	3	6	7	4	0	0	23	7	1	4	4	0	0	0	0	0	0	1	0	2	0
April	12.0	S.	35	N.	1	4	0	3	5	6	6	2	2	2	21	5	4	2	1	0	0	0	0	0	0	2	1	3	0
May	8.7	SE.	31	SE.	0	4	1	8	11	3	2	2	0	0	12	8	11	10	9	0	0	1	0	0	0	0	0	14	0
June	9.6	S.	25	S.	0	2	0	4	3	12	3	4	2	0	23	7	0	1	0	0	0	0	0	0	0	28	0	3	0
July	9.3	S.	27	SW.	0	2	0	2	4	11	9	1	2	0	20	9	2	6	4	0	0	0	0	0	0	28	0	8	0
August	8.8	S.	31	SE.	0	1	0	3	0	12	10	4	1	1	25	5	1	1	1	0	0	0	0	0	0	31	0	2	0
September	9.8	S.	28	S.	0	4	2	1	4	12	2	2	2	1	14	6	10	9	6	0	0	0	0	0	0	17	0	5	0
October	8.5	S.	28	S.	0	9	0	2	2	9	2	5	0	2	17	5	9	7	6	0	0	0	0	0	0	0	0	2	0
November	9.0	N.	33	N.	1	11	0	3	1	4	5	5	0	1	18	2	10	6	3	0	0	0	3	0	0	0	2	1	0
December	9.4	S.	31	N.	0	5	0	5	3	7	5	6	0	0	16	5	10	6	4	0	0	0	4	3	0	0	6	1	0
Year	9.8	S.	40	N.	8	75	3	37	40	94	59	40	11	7	226	67	73	59	43	5	2	1	11	3	3	107	39	43	0

FRESNO, CALIF.

[H=287 ft.; H_b=327 ft.; h_t=97 ft.; h_r=89 ft.; h_a=105 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	4.9	E.	19	SW.	0	6	9	13	8	1	4	6	13	2	12	3	16	10	7	0	0	1	11	7	0	0	0	0	0
February	6.4	E.	25	NW.	0	5	8	15	14	1	2	1	12	0	5	10	14	16	13	0	0	1	5	3	0	0	0	3	0
March	5.9	NW.	28	W.	0	7	6	9	1	0	2	3	34	0	16	9	6	3	2	0	0	0	11	6	0	0	0	0	0
April	6.8	NW.	24	NW.	0	7	2	2	4	1	2	1	39	2	14	10	6	2	2	0	0	0	9	0	0	1	0	0	0
May	7.6	NW.	30	NW.	0	11	1	4	2	3	3	3	34	1	21	7	3	1	1	0	0	0	0	0	0	11	0	0	0
June	8.1	NW.	21	SW.	0	8	4	2	1	3	1	3	38	0	18	6	6	1	0	0	0	0	0	0	0	17	0	1	0
July	7.1	NW.	24	N.	0	15	3	0	0	0	3	12	28	1	23	7	1	0	0	0	0	0	0	0	0	27	0	2	0
August	6.8	NW.	16	NW.	0	17	0	0	0	1	3	2	38	1	27	2	2	0	0	0	0	0	0	0	0	29	0	0	0
September	6.0	NW.	20	NW.	0	9	2	5	5	1	2	2	31	3	28	1	1	0	0	0	0	0	0	0	0	20	0	0	0
October	4.9	NW.	18	SW.	0	6	4	12	2	5	4	5	22	2	20	7	4	5	5	0	0	0	4	0	0	6	0	0	0
November	4.2	NW.	14	W.	0	10	8	10	2	2	2	3	16	7	23	4	3	0	0	0	0	0	6	2	0	0	0	0	0
December	5.0	E.	17	SE.	0	6	7	12	4	3	5	9	14	2	11	3	17	9	8	0	0	0	14	6	0	0	2	0	0
Year	6.1	NW.	30	NW.	0	107	54	84	43	21	33	50	319	21	218	69	79	47	38	0	0	2	51	24	0	111	2	6	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

GALVESTON, TEX.

[ϕ=29°18′ N.; λ=94°50′ W.]

Month	Pressure: Monthly mean	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	30.00	30.47	29.51	48.9	53.5	52.7	58.2	45.7	52.0	70	28	46	48	48	90	81	85	0.331	0.349	0.356	2.75	0.63	0.0	4.4	4.9	4.7	5.3
February	29.98	30.33	29.44	48.4	53.1	51.4	57.1	45.4	51.2	72	28	44	46	47	86	78	85	.316	.340	.341	1.42	.40	.0	6.6	6.0	6.6	7.0
March	29.88	30.22	29.60	61.4	66.9	64.9	69.6	59.8	64.7	78	51	58	59	60	90	77	84	.501	.517	.521	1.89	.68	.0	5.6	5.1	4.6	5.6
April	29.99	30.38	29.50	62.0	68.3	67.3	72.2	60.4	66.3	80	46	57	58	60	85	71	79	.496	.512	.511	1.93	1.18	.0	4.6	3.1	3.2	4.0
May	29.90	30.10	29.57	72.9	77.2	76.1	79.5	70.6	75.0	83	63	68	68	69	85	74	79	.689	.688	.703	8.90	2.71	.0	5.8	5.2	5.0	5.2
June	29.85	30.04	29.61	80.0	85.6	84.0	87.9	78.3	83.1	94	70	72	73	73	78	67	71	.798	.814	.821	.88	.74	.0	3.0	1.6	1.9	2.1
July	29.92	30.08	29.72	80.4	85.0	83.0	87.4	78.1	82.8	93	71	74	75	74	82	72	74	.851	.861	.833	4.57	2.51	.0	4.5	3.4	4.3	5.2
August	29.92	30.10	29.75	80.9	85.9	84.2	88.2	79.7	84.0	94	71	74	74	74	81	69	72	.849	.850	.840	2.52	1.07	.0	3.9	3.6	4.0	4.2
September	29.89	30.03	29.73	79.2	84.0	81.9	86.0	77.3	81.6	93	63	73	74	73	82	73	74	.824	.854	.815	4.10	1.04	.0	4.1	3.7	3.8	5.2
October	29.99	30.24	29.81	67.1	74.0	72.1	76.8	65.0	70.9	87	51	61	62	62	82	68	73	.556	.579	.580	1.68	1.49	.0	3.6	3.1	2.9	3.7
November	30.14	30.42	29.86	56.0	62.9	61.0	66.4	53.4	59.9	81	38	50	52	53	81	70	76	.393	.416	.426	2.74	1.72	.0	5.3	4.3	3.6	5.0
December	30.07	30.39	29.70	54.0	58.0	56.0	61.3	50.9	56.1	72	38	51	52	51	91	82	84	.393	.411	.393	3.11	1.90	.0	5.6	5.4	4.6	5.3
Year	29.96	30.47	29.44	65.9	71.2	69.6	74.2	63.7	69.0	94	28	61	62	62	84	74	78	.583	.599	.598	36.49	2.71	.0	4.8	4.1	4.1	4.8

GRAND JUNCTION, COLO.

[ϕ=39°04′ N.; λ=108°34′ W.]

Month	Pressure: Monthly mean	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	25.39	25.75	24.92	21.3	32.1	32.1	36.9	17.8	27.4	51	3	18	21	22	88	64	65	0.098	0.113	0.114	0.22	0.10	2.2	4.9	5.3	4.1	5.2
February	25.23	25.70	24.76	30.7	40.9	41.9	46.3	27.0	36.6	58	12	24	24	23	76	52	50	.129	.135	.128	1.02	.28	3.0	6.2	6.8	6.6	6.4
March	25.27	25.70	24.64	35.9	51.5	53.2	57.4	32.4	44.9	68	25	22	22	20	58	32	31	.120	.121	.111	.57	.26	3.9	3.8	5.6	4.5	4.7
April	25.35	25.75	24.88	44.0	63.1	65.2	68.3	42.0	55.2	81	20	29	30	23	57	30	22	.165	.178	.126	.45	.23	T	3.5	5.0	4.7	4.7
May	25.33	25.54	25.00	53.2	75.2	77.0	80.2	51.6	65.9	91	36	31	27	23	44	18	16	.176	.149	.129	.24	.20	.0	2.4	3.2	3.6	3.1
June	25.33	25.55	25.06	63.8	84.0	85.3	89.9	61.7	75.8	103	43	42	38	36	48	22	20	.278	.234	.218	.74	.26	.0	4.2	3.6	3.9	4.0
July	25.40	25.60	25.17	67.7	86.2	87.9	93.0	66.6	79.8	102	54	50	47	46	56	28	28	.371	.327	.330	1.60	.92	.0	3.2	3.7	5.6	3.7
August	25.43	25.59	25.22	65.7	84.5	85.5	90.1	64.6	77.4	98	55	51	51	48	60	34	29	.379	.384	.341	1.13	.34	.0	3.2	2.9	4.8	3.7
September	25.38	25.61	24.97	55.2	74.2	76.4	80.8	52.3	66.6	90	34	39	38	37	57	30	28	.249	.242	.235	.72	.31	.0	2.2	3.1	3.4	2.7
October	25.43	25.68	25.07	45.0	62.4	61.4	67.6	42.3	55.0	81	30	32	32	33	62	34	38	.181	.182	.192	.52	.31	.0	3.1	4.3	3.7	3.6
November	25.60	25.95	24.96	28.8	47.4	45.3	52.9	25.2	39.0	63	18	21	22	22	72	35	39	.112	.115	.116	.21	.18	.8	.8	1.8	.7	1.4
December	25.42	25.80	24.94	24.2	36.5	33.7	40.5	21.0	30.8	50	8	20	22	24	84	56	65	.108	.118	.125	.57	.15	2.8	5.6	5.4	3.5	5.2
Year	25.38	25.95	24.64	44.6	61.5	62.1	67.0	42.0	54.5	103	3	32	31	30	64	36	36	.197	.192	.180	7.99	.92	12.7	3.6	4.2	4.1	4.0

GRAND RAPIDS, MICH.

[ϕ=42°58′ N.; λ=85°40′ W.]

Month	Pressure: Monthly mean	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.20	29.74	28.57	20.2	23.1	22.0	26.4	16.4	21.4	44	−1	16	18	18	85	80	82	0.097	0.106	0.103	2.13	0.46	24.3	9.3	8.9	9.1	9.3
February	29.26	29.62	28.29	11.4	18.0	16.9	21.9	8.0	15.0	52	−10	7	11	11	82	73	76	.069	.079	.078	2.18	.52	27.3	8.0	7.7	7.9	7.8
March	29.09	29.60	28.53	32.9	40.9	38.3	45.5	29.0	37.2	69	7	27	28	27	78	59	64	.157	.155	.153	.73	.30	3.0	7.2	7.2	6.6	7.0
April	29.26	29.69	28.80	36.6	46.4	44.3	50.1	34.4	42.2	74	22	30	32	32	75	57	65	.175	.195	.201	2.27	.49	10.1	7.3	7.6	6.7	7.6
May	29.28	29.76	28.74	57.2	69.9	67.8	74.3	51.4	62.8	87	36	48	48	46	73	47	47	.356	.345	.330	.72	.25	.0	5.4	5.3	4.6	4.9
June	29.18	29.56	28.55	61.1	73.5	72.1	78.7	55.6	67.2	90	45	51	49	50	70	44	49	.381	.359	.372	2.35	1.49	.0	5.1	5.3	3.6	4.7
July	29.20	29.63	28.92	69.9	85.5	83.3	89.5	65.1	77.3	108	52	57	55	56	65	38	41	.483	.449	.464	.79	.45	.0	2.2	4.0	3.5	3.4
August	29.23	29.56	28.95	66.3	79.6	78.2	84.8	63.0	73.9	98	55	59	57	57	78	50	52	.512	.489	.486	3.91	1.23	.0	4.7	5.0	3.8	4.8
September	29.28	29.71	28.95	59.3	72.0	67.7	75.5	56.2	65.8	91	40	56	55	59	88	58	74	.469	.473	.523	7.67	1.86	.0	5.3	4.8	4.5	5.4
October	29.26	29.74	28.63	45.1	54.7	51.7	58.9	41.5	50.2	77	25	41	43	44	86	66	75	.276	.300	.307	2.77	1.22	.8	6.6	6.8	5.4	6.9
November	29.29	29.92	28.74	32.8	37.7	35.7	42.2	29.7	36.0	67	12	27	28	28	78	68	72	.159	.164	.163	.43	.17	3.4	7.4	7.5	6.1	7.2
December	29.36	29.79	28.58	29.7	35.3	33.4	38.8	26.0	32.4	60	8	25	28	26	82	72	75	.146	.162	.153	3.72	.98	6.5	6.7	7.0	6.0	7.0
Year	29.24	29.92	28.29	43.5	53.0	51.0	57.2	39.7	48.4	108	−10	37	38	38	78	59	64	.273	.273	.278	29.67	1.86	75.4	6.3	6.4	5.6	6.3

GREEN BAY, WIS.

[ϕ=44°31′ N.; λ=88°00′ W.]

Month	Pressure: Monthly mean	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.32	29.85	28.64	9.5	15.6	14.1	19.6	4.1	11.8	36	−24	6	8	8	83	73	76	0.070	0.078	0.076	1.42	0.36	15.5	6.7	7.2	6.8	6.9
February	29.36	29.73	28.67	1.2	8.0	8.5	14.3	−5.1	4.6	43	−22	−4	−1	2	77	64	72	.048	.050	.054	1.45	.54	17.6	6.8	6.1	5.0	6.6
March	29.16	29.72	28.51	27.8	33.5	33.3	39.5	24.3	31.9	64	1	22	21	23	78	59	66	.124	.119	.129	1.18	.39	7.8	7.5	7.5	6.5	7.5
April	29.36	29.82	28.95	34.4	42.1	41.5	46.7	30.8	38.8	70	16	27	26	29	74	54	62	.157	.151	.167	1.26	.54	2.1	7.4	8.3	7.4	8.0
May	29.34	29.75	28.75	55.1	65.7	65.6	71.9	49.4	60.6	87	35	46	46	47	71	51	53	.318	.331	.347	1.73	.49	.0	6.4	6.2	6.6	6.3
June	29.28	29.70	28.58	58.4	68.2	67.6	73.5	51.4	62.4	88	40	48	48	49	69	50	54	.339	.347	.359	1.24	.67	.0	5.4	5.3	5.6	5.7
July	29.29	29.71	29.01	69.2	81.5	80.7	86.3	63.9	75.1	104	54	57	54	54	67	42	42	.484	.444	.437	1.02	.94	.0	3.9	4.0	4.4	4.1
August	29.32	29.60	28.96	64.7	75.4	73.1	80.3	60.9	70.6	92	52	57	56	56	78	55	60	.476	.466	.473	3.28	.78	.0	6.6	6.4	5.3	6.4
September	29.35	29.80	28.96	58.6	69.3	65.7	73.1	54.4	63.8	90	40	53	52	55	82	57	69	.427	.430	.458	2.23	1.41	.0	5.3	5.4	4.0	5.3
October	29.34	29.87	28.89	40.8	50.5	47.5	54.3	37.5	45.9	73	21	35	35	37	80	57	68	.221	.227	.240	2.04	.70	2.5	6.5	7.0	6.2	6.5
November	29.38	30.01	28.68	27.9	34.0	32.7	39.0	24.0	31.5	61	10	22	22	22	77	59	65	.121	.123	.127	.59	.49	1.0	6.1	6.9	6.7	7.2
December	29.40	29.85	28.40	24.4	29.4	28.6	34.2	18.5	26.4	55	−13	20	22	22	83	72	76	.123	.127	.130	1.03	.30	4.1	5.9	8.0	6.9	7.5
Year	29.32	30.01	28.40	39.3	47.8	46.6	52.7	34.5	43.6	104	−24	32	32	34	77	58	64	.242	.241	.250	18.47	1.41	50.6	6.2	6.5	6.0	6.5

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

GALVESTON, TEX.

[H = 6 ft.; H_b = 54 ft.; h_t = 106 ft.; h_r = 98 ft.; h_a = 114 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 72 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	11.0	N.	40	NW.	1	17	4	8	2	17	2	3	9	0	11	7	13	14	9	0	0	0	14	6	0	0	4	2	0
February	11.2	N.	32	NW.	1	17	6	9	7	11	1	1	6	0	5	8	16	12	7	0	0	0	14	6	0	0	1	1	0
March	10.5	S.	28	SE.	0	4	4	5	9	25	5	3	7	0	8	13	10	8	6	0	0	0	13	6	0	0	0	1	0
April	11.5	S.	39	W.	2	7	6	2	11	22	4	0	8	0	12	13	5	7	5	0	0	0	5	2	0	0	0	1	0
May	11.0	SE.	32	SE.	1	7	4	8	23	16	0	1	3	0	11	12	8	13	11	0	0	0	0	0	0	0	0	6	0
June	10.4	S.	35	E.	1	5	3	7	9	32	0	2	1	1	20	10	0	3	3	0	0	0	0	0	0	7	0	1	0
July	10.9	S.	29	S.	0	4	2	4	7	31	9	2	1	2	13	10	8	12	9	0	0	0	1	0	0	1	0	4	0
August	8.9	S.	25	S.	0	2	2	7	14	22	6	3	4	2	14	12	5	7	7	0	0	0	0	0	0	5	0	6	0
September	11.3	S.	33	SE.	1	3	2	5	13	29	0	0	8	0	12	11	7	11	10	0	0	0	0	0	0	1	0	7	0
October	9.8	N.	23	NW.	0	22	1	6	6	12	1	5	9	0	16	8	7	3	2	0	0	0	5	0	0	0	0	1	0
November	10.3	N.	32	NW.	2	19	8	6	4	10	1	5	7	0	14	7	9	5	4	0	0	0	15	1	0	0	0	0	0
December	10.6	E.	34	S.	1	12	6	15	6	10	2	1	10	0	12	9	10	7	7	0	0	0	7	4	0	0	0	1	0
Year	10.6	S.	40	NW.	10	119	48	82	111	237	31	26	73	5	148	120	98	102	80	0	0	0	74	25	0	14	5	31	0

GRAND JUNCTION, COLO.

[H = 4,587 ft.; H_b = 4,602 ft.; h_t = 60 ft.; h_r = 52 ft.; h_a = 68 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 72 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	4.5	N.	21	NW.	0	16	2	0	9	4	2	11	18	0	11	9	11	6	2	10	6	0	4	3	10	0	31	0	0
February	6.5	SE.	31	SW.	0	10	0	3	12	6	5	13	8	1	5	10	14	10	8	6	4	0	1	0	2	0	20	1	0
March	7.2	SE.	34	W.	1	13	2	4	13	7	3	6	11	3	12	12	7	5	4	4	4	0	0	0	0	0	18	0	0
April	7.3	SE.	28	NW.	0	9	2	2	22	5	4	11	4	1	13	10	7	4	3	2	1	1	0	0	0	0	7	3	0
May	7.7	SE.	27	SW.	0	16	4	6	19	3	4	2	7	1	17	10	4	4	1	0	0	1	0	0	0	2	0	3	0
June	7.8	SE.	36	SW.	1	9	1	12	26	4	3	4	0	1	14	10	6	9	6	0	0	0	0	0	0	19	0	9	0
July	7.2	SE.	28	SE.	0	7	2	10	22	11	6	2	2	0	16	12	3	10	7	0	0	0	0	0	0	24	0	11	0
August	6.8	SE.	21	SE.	0	14	5	3	25	8	0	1	5	1	14	14	3	11	5	0	0	0	0	0	0	17	0	12	0
September	6.4	SE.	27	S.	0	11	8	3	17	7	4	2	6	2	20	6	4	4	4	0	0	0	0	0	0	0	0	2	0
October	5.6	SE.	26	W.	0	15	1	2	15	6	2	10	11	0	17	7	7	5	2	0	0	0	0	0	0	0	1	1	0
November	5.3	SE.	24	SW.	0	5	4	2	15	5	3	14	12	0	24	5	1	2	2	2	2	0	0	0	0	0	30	0	0
December	5.1	NW.	27	S.	0	11	2	3	7	5	4	6	23	1	11	11	9	7	6	9	7	0	0	0	3	0	31	0	0
Year	6.4	SE.	36	SW.	2	136	33	50	202	71	40	82	107	11	174	116	76	77	50	33	24	2	5	3	15	62	138	42	0

GRAND RAPIDS, MICH.

[H = 638 ft.; H_b = 707 ft.; h_t = 70 ft.; h_r = 70 ft.; h_a = 244 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 72 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.3	SW.	31	W.	0	2	5	4	7	10	13	13	8	0	1	1	29	19	12	29	18	0	10	0	18	0	30	0	0
February	12.1	W.	46	SW.	6	4	5	6	8	3	9	15	6	2	3	8	18	16	10	24	16	0	5	3	23	0	27	0	0
March	12.1	SW.	45	SW.	4	9	1	5	12	9	10	9	7	0	4	9	18	11	6	13	6	1	6	0	5	0	18	2	0
April	11.5	N.	44	SW.	3	11	6	4	6	9	6	10	8	0	3	9	18	16	13	8	5	1	7	1	2	0	14	0	2
May	11.6	SW.	40	SW.	4	9	1	1	7	5	22	12	5	0	10	14	7	7	5	0	0	0	2	0	0	0	0	5	0
June	9.3	NE.	31	S.	0	10	11	6	6	4	10	7	6	0	11	11	8	6	5	0	0	0	3	0	0	1	0	5	0
July	8.5	N.	30	SW.	0	8	4	8	9	4	11	10	8	0	16	13	2	7	4	0	0	0	0	0	0	13	0	8	0
August	9.6	SW.	37	SW.	2	7	7	8	6	10	9	8	5	1	12	12	7	14	10	0	0	1	6	0	0	11	0	10	0
September	9.5	E.	36	NE.	1	7	5	11	14	13	6	4	0	0	10	9	11	14	11	0	0	0	12	2	0	2	0	7	0
October	11.8	S.	37	SW.	3	8	5	3	6	18	12	4	6	0	6	10	15	14	10	2	2	0	9	1	0	0	4	3	0
November	13.4	SW.	38	SW.	10	7	9	3	3	6	16	4	12	0	6	6	18	7	2	14	4	0	3	0	7	0	22	0	0
December	12.5	SW.	48	SW.	4	1	6	3	12	14	12	6	8	0	7	5	19	12	10	12	6	0	8	2	5	0	25	0	0
Year	11.1	SW.	48	SW.	37	83	65	62	96	105	136	102	80	3	89	107	170	143	98	102	57	3	71	9	60	27	140	40	2

GREEN BAY, WIS.

[H = 589 ft.; H_b = 617 ft.; h_t = 109 ft.; h_r = 101 ft.; h_a = 141 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 72 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.3	SW.	32	NE.	1	10	4	1	1	11	18	11	6	0	8	3	20	11	10	22	11	0	12	0	23	0	31	0	0
February	11.3	SW.	32	NE.	2	3	4	2	2	9	20	11	7	0	5	10	14	8	6	15	8	0	2	0	25	0	28	0	0
March	10.8	W.	35	W.	2	3	6	3	11	7	12	14	6	0	5	5	21	10	5	11	6	0	2	1	8	0	24	1	0
April	11.7	N.	31	NE.	0	8	8	3	8	11	3	7	12	0	2	7	21	11	7	10	2	1	3	0	4	0	18	3	1
May	11.0	S.	32	SW.	1	8	5	4	10	16	10	6	3	0	8	6	17	11	8	0	0	0	0	0	0	0	0	6	1
June	10.3	S.	31	SW.	0	10	11	4	7	13	9	3	3	0	8	13	9	8	5	0	0	0	2	1	0	0	0	5	2
July	9.1	N.	27	SW.	0	10	4	8	9	11	12	4	4	0	13	13	5	6	3	0	0	0	0	0	0	10	0	7	0
August	10.0	S.	44	NW.	1	6	14	7	11	11	6	3	3	1	7	10	14	14	11	0	0	1	4	0	0	5	0	9	0
September	9.8	S.	26	W.	0	3	6	4	10	21	3	7	6	0	11	7	12	10	7	0	0	0	4	1	0	1	0	6	1
October	11.5	S.	38	NE.	2	3	4	4	2	14	15	8	12	0	8	7	16	11	8	5	1	0	8	1	0	0	11	3	0
November	12.9	SW.	31	W.	0	5	6	3	1	5	16	9	15	0	8	3	19	3	3	13	1	0	4	3	8	0	25	0	1
December	11.3	SW.	35	SW.	2	6	4	5	5	13	16	11	2	0	7	4	20	10	5	11	5	0	7	0	13	0	28	0	0
Year	10.7	S.	44	NW.	11	75	76	48	77	142	140	94	79	1	90	88	188	113	78	87	34	2	48	7	81	16	165	40	6

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.08	29.59	28.17	27.6	37.5	33.8	42.9	24.0	33.4	59	3	23	25	27	82	61	75	0.140	0.151	0.159	8.08	3.06	4.9	5.2	6.0	5.5	5.6
February	29.12	29.55	28.51	28.0	40.3	37.5	45.4	24.9	35.2	74	−4	24	28	28	85	61	70	.144	.163	.164	3.98	1.53	9.8	6.2	6.4	5.6	6.0
March	28.94	29.36	28.10	43.8	57.5	52.0	62.2	39.5	50.8	79	30	40	40	42	86	56	70	.262	.270	.277	4.95	1.51	.5	6.9	6.5	5.3	6.7
April	29.12	29.52	28.53	48.7	59.2	56.4	64.7	42.0	53.4	87	26	40	39	42	73	52	61	.266	.261	.280	6.19	2.20	T	5.6	5.8	5.5	5.9
May	29.13	29.61	28.73	63.3	78.7	72.8	83.6	54.8	69.2	93	42	53	48	50	69	36	46	.408	.356	.371	.37	.20	.0	3.2	2.8	3.1	3.1
June	29.00	29.26	28.74	69.1	80.9	76.7	85.7	62.2	74.0	101	48	62	59	62	78	51	62	.554	.514	.561	3.79	.98	.0	4.5	4.5	5.3	4.6
July	29.02	29.36	28.77	73.4	85.2	78.0	88.9	67.2	78.0	99	57	68	66	68	82	55	74	.674	.652	.699	8.01	3.67	.0	6.5	5.5	6.2	6.0
August	29.12	29.38	28.89	71.6	84.1	77.3	87.6	67.0	77.3	96	52	68	67	70	89	58	79	.695	.660	.738	2.04	1.09	.0	5.2	5.3	6.1	5.5
September	29.14	29.40	28.85	64.3	78.6	71.3	82.1	60.2	71.2	92	43	62	61	64	91	58	78	.557	.552	.598	5.46	4.48	.0	4.1	5.3	4.0	4.8
October	29.16	29.47	28.60	53.7	68.1	59.6	71.0	56.3	60.6	80	29	51	52	55	90	58	86	.394	.422	.463	2.99	1.41	.0	5.7	5.3	3.9	5.4
November	29.17	29.62	28.69	38.5	52.9	46.3	55.9	35.6	45.8	76	17	34	35	36	82	53	69	.213	.229	.236	1.51	1.01	.0	4.1	5.0	4.6	4.6
December	29.27	29.73	28.80	35.6	45.0	40.9	49.2	32.8	41.0	65	21	33	35	36	90	72	84	.202	.217	.229	5.32	1.23	.2	6.9	6.6	7.6	7.1
Year	29.11	29.73	28.16	51.5	64.0	58.6	68.3	46.7	57.5	101	−4	46	46	48	83	56	71	.376	.371	.398	52.69	4.48	15.4	5.3	5.4	5.2	5.4

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.61	30.12	28.81	22.4	27.5	27.1	32.2	18.9	25.6	44	−6	15	16	17	73	62	66	0.103	0.105	0.109	5.58	1.99	24.4	6.6	6.2	5.8	6.4
February	29.69	30.12	28.93	20.1	25.6	27.0	31.6	16.6	24.1	53	2	12	13	15	71	57	59	.085	.090	.094	3.32	2.07	10.6	8.0	5.4	4.0	6.3
March	29.47	29.93	28.71	40.8	47.6	47.3	53.2	37.1	45.2	73	16	33	33	36	75	61	66	.202	.204	.222	6.61	1.65	4.8	6.6	7.4	6.6	7.2
April	29.62	30.08	29.01	43.3	51.9	51.0	57.9	39.3	48.6	84	29	32	34	37	65	53	61	.196	.214	.236	3.61	1.73	T	6.4	6.5	6.6	6.7
May	29.64	30.22	29.24	59.6	69.9	69.7	76.5	54.5	65.5	92	39	47	48	50	66	48	59	.347	.356	.372	1.60	.52	.0	3.7	3.1	3.1	3.4
June	29.52	29.85	29.20	66.2	75.6	73.5	80.1	60.8	70.4	93	52	56	56	56	70	53	58	.455	.459	.470	4.61	1.37	.0	5.9	4.7	5.0	5.3
July	29.50	29.93	29.20	70.4	81.4	79.9	86.9	65.7	76.3	103	58	60	58	61	72	48	53	.536	.506	.542	5.02	1.53	.0	3.6	4.3	4.8	4.4
August	29.61	29.97	29.33	69.9	80.2	77.5	84.3	65.6	75.0	96	55	63	62	63	79	55	63	.585	.566	.595	2.97	.89	.0	5.4	5.5	6.1	5.9
September	29.69	30.02	29.26	63.0	71.7	70.6	76.6	59.2	67.9	89	42	56	56	58	79	60	65	.469	.467	.493	2.45	1.20	.0	6.0	5.9	4.8	6.0
October	29.70	30.12	28.90	50.9	60.1	57.4	64.5	47.3	55.9	77	26	44	45	46	79	59	67	.318	.323	.339	2.00	1.10	T	5.3	5.6	5.1	5.5
November	29.67	30.24	29.06	37.6	43.2	41.7	48.0	33.3	40.6	75	16	28	27	28	69	53	58	.170	.169	.176	1.35	.78	1.5	6.7	6.9	5.4	7.2
December	29.85	30.27	29.03	33.3	38.1	37.6	42.3	29.9	36.1	59	12	26	27	28	72	64	69	.145	.154	.164	6.06	1.44	5.2	5.8	6.1	5.9	6.2
Year	29.63	30.27	28.71	48.1	56.2	55.0	61.2	44.0	52.6	103	−6	39	40	41	72	56	61	.301	.302	.318	45.18	2.07	46.5	5.8	5.6	5.3	5.9

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.79	30.36	28.95	23.5	29.3	----	33.8	20.7	27.2	53	3	17	20	---	74	65	---	0.107	0.115	----	6.95	1.95	15.2	4.8	5.5	----	5.5
February	29.91	30.30	29.21	17.7	24.8	----	29.3	14.2	21.8	46	−3	11	15	---	75	64	---	.080	.089	----	3.21	1.20	12.8	5.3	5.0	----	5.2
March	29.74	30.25	28.93	39.6	46.5	----	51.5	35.4	43.4	71	10	34	38	---	81	72	---	.215	.244	----	6.10	2.07	5.5	6.3	5.7	----	6.5
April	29.82	30.34	29.24	42.5	49.8	----	53.6	38.0	45.8	78	30	36	40	---	78	69	---	.221	.256	----	3.21	1.19	T	5.8	6.6	----	6.9
May	29.85	30.46	29.35	57.6	68.0	----	72.4	50.1	61.2	91	37	46	51	---	68	58	---	.332	.402	----	2.39	.98	.0	3.4	4.4	----	4.1
June	29.74	30.13	29.29	65.4	72.8	----	77.2	58.5	67.8	88	49	55	54	---	70	55	---	.441	.433	----	3.05	.85	.0	5.6	5.6	----	5.6
July	29.70	30.12	29.35	68.9	78.4	----	83.5	62.4	73.0	100	52	59	58	---	71	52	---	.506	.500	----	2.33	1.50	.0	5.0	4.2	----	4.9
August	29.84	30.17	29.54	67.2	77.1	----	81.5	61.7	71.6	94	51	61	61	---	81	60	---	.544	.546	----	4.22	1.34	.0	5.8	4.4	----	5.0
September	29.93	30.31	29.47	60.5	69.0	----	72.7	55.7	64.2	90	38	54	55	---	78	62	---	.430	.445	----	3.87	2.97	.0	6.3	5.9	----	5.9
October	29.90	30.44	29.00	49.6	58.7	----	62.5	43.9	53.2	78	24	44	45	---	81	63	---	.300	.329	----	3.69	1.45	.0	4.9	5.7	----	5.2
November	29.85	30.49	29.17	35.4	42.7	----	47.3	30.6	39.0	72	13	27	28	---	70	57	---	.164	.178	----	1.21	.46	2.8	4.9	5.1	----	5.0
December	30.07	30.56	29.24	32.8	37.1	----	42.7	27.3	35.0	57	10	25	25	---	71	61	---	.148	.145	----	6.88	1.63	.9	6.7	6.0	----	6.0
Year	29.85	30.56	28.95	46.7	54.5	----	59.0	41.5	50.3	100	−3	39	41	---	75	62	---	.291	.307	----	47.11	2.97	37.2	5.4	5.3	----	5.5

HATTERAS, N. C.

[ϕ=35°15′ N.; λ=75°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	30.04	30.49	29.15	40.8	45.4	43.0	49.7	36.5	43.1	70	19	38	39	39	88	77	87	0.249	0.258	0.262	4.19	1.24	7.5	5.3	5.1	4.1	5.2
February	30.07	30.50	29.37	40.0	43.8	40.6	47.2	35.3	41.2	63	19	35	37	38	83	78	92	.221	.239	.243	4.49	1.21	1.0	7.2	6.2	6.1	6.3
March	29.91	30.32	29.22	54.0	59.6	55.5	62.3	49.6	56.0	72	37	49	50	51	83	73	84	.361	.379	.384	7.24	2.45	.0	5.6	6.0	5.4	5.7
April	30.07	30.51	29.48	57.9	62.1	57.4	64.3	52.6	58.2	75	38	51	53	52	79	73	83	.389	.414	.403	.97	.57	.0	4.5	4.3	5.2	4.3
May	30.05	30.49	29.64	69.2	72.4	66.8	73.7	62.9	68.3	82	55	62	62	61	78	70	82	.561	.558	.537	2.22	.60	.0	3.6	3.3	5.3	3.7
June	29.93	30.19	29.65	75.7	79.1	73.9	79.9	69.9	74.9	88	61	67	66	67	74	66	79	.662	.657	.662	2.76	1.34	.0	5.1	5.3	5.6	4.9
July	29.93	30.22	29.68	79.7	82.5	77.7	83.9	73.7	78.8	92	66	73	76	71	74	65	80	.816	.723	.759	5.88	1.78	.0	5.4	4.1	5.6	4.3
August	30.03	30.25	29.84	79.9	83.4	78.0	84.2	74.8	79.5	90	65	72	72	72	77	68	82	.784	.780	.789	5.03	3.11	.0	5.3	4.2	4.9	4.7
September	30.03	30.27	28.88	75.8	79.9	75.0	80.9	70.9	75.9	87	63	68	68	68	79	69	80	.701	.701	.698	5.97	4.06	.0	5.3	5.0	4.8	5.2
October	30.07	30.37	29.49	68.2	72.1	67.8	73.7	65.0	69.4	82	47	62	63	62	80	74	83	.563	.597	.583	5.30	1.22	.0	5.6	5.0	4.5	5.1
November	30.10	30.48	29.57	53.6	58.6	55.4	61.5	50.1	55.8	79	33	47	47	48	79	65	76	.345	.345	.358	1.98	1.62	.0	5.5	4.2	4.2	4.7
December	30.20	30.65	29.62	50.4	54.3	50.9	56.9	46.7	51.8	70	39	46	46	47	85	76	87	.322	.334	.335	10.19	2.95	.0	7.1	5.7	6.1	6.5
Year	30.04	30.65	28.88	62.1	66.1	61.8	68.2	57.3	62.7	92	19	56	56	56	80	71	83	.498	.499	.501	55.92	4.06	8.5	5.5	4.9	5.2	5.0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

GREENSBORO, N. C.

[H = 891 ft.; H_b = 886 ft.; h_t = 6 ft.; h_r = 3 ft.; h_a = 56 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.01 inch or more	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	8.0	SW.	35	SW.	3	7	15	2	2	5	12	8	11	0	10	8	13	13	11	5	3	0	13	6	6	0	24	2	0
February	8.4	SW.	27	NE.	0	6	16	5	0	9	9	5	7	1	7	10	12	13	11	6	4	0	11	4	2	0	24	0	0
March	9.4	SW.	34	NW.	1	2	9	1	3	9	21	10	7	0	7	7	17	16	12	4	4	0	12	4	0	0	5	5	0
April	9.4	SW.	29	NW.	0	6	11	6	3	5	15	6	7	1	8	12	10	11	8	1	0	1	13	2	0	0	4	2	0
May	7.5	SW.	21	NW.	0	10	8	7	4	16	12	1	3	1	18	13	0	6	4	0	0	0	3	0	0	7	0	3	0
June	8.2	NE.	31	NE.	0	1	13	9	8	13	12	2	2	0	13	10	7	12	11	0	0	1	10	1	0	11	0	11	0
July	6.8	SW.	42	W.	3	6	4	6	3	7	17	10	9	0	5	17	9	15	13	0	0	0	7	0	0	15	0	13	0
August	6.2	SW.	22	NW.	0	4	5	3	3	15	22	5	4	1	8	15	8	10	8	0	0	0	10	1	0	12	0	7	0
September	6.8	NE.	23	NE.	0	3	17	3	3	14	12	5	2	1	13	8	9	8	5	0	0	0	15	3	0	4	0	3	0
October	7.1	NE.	26	NW.	0	6	18	5	3	7	9	8	3	3	9	11	11	7	4	0	0	0	7	0	0	0	1	1	0
November	8.9	SW.	26	NW.	0	10	9	1	0	6	15	10	8	1	12	9	9	7	3	0	0	0	6	2	0	0	11	0	0
December	8.1	NE.	23	W.	0	10	28	4	1	4	8	6	1	0	8	4	19	15	13	1	1	0	18	10	1	0	17	0	0
Year	7.9	SW.	42	W.	7	71	153	52	33	110	164	76	64	9	118	124	124	133	103	17	12	2	125	33	9	49	86	47	0

HARRISBURG, PA.

[H = 337 ft.; H_b = 374 ft.; h_t = 94 ft.; h_r = 42 ft.; h_a = 104 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or more	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.9	W.	30	W.	0	2	6	8	2	1	6	22	15	0	7	11	13	17	13	13	11	0	10	0	12	0	29	0	0
February	7.3	W.	27	NW.	0	3	15	5	3	3	1	19	9	0	8	8	13	10	9	7	6	0	7	0	16	0	27	0	0
March	8.3	NE.	30	NW.	0	7	14	12	6	2	4	10	7	0	4	10	17	12	11	3	2	0	13	1	0	0	7	2	0
April	8.9	W.	28	W.	0	2	7	11	5	6	5	12	12	0	5	11	14	16	13	4	1	0	6	0	0	0	2	4	0
May	7.5	NW.	35	W.	1	5	3	1	9	10	8	14	12	0	17	11	3	6	5	0	0	0	1	0	0	2	0	6	0
June	7.2	NE.	25	SW.	0	9	12	8	10	6	6	3	6	0	10	11	9	12	8	0	0	1	4	0	0	3	0	7	0
July	6.4	W.	34	NE.	2	9	8	3	5	7	8	12	10	0	13	13	5	6	6	0	0	0	5	0	0	8	0	9	0
August	6.2	W.	24	NE.	0	2	9	9	8	11	8	12	3	0	7	14	10	17	14	0	0	0	10	0	0	8	0	12	0
September	6.8	NE.	24	W.	0	6	15	8	10	6	3	4	6	0	10	7	13	9	7	0	0	0	10	1	0	0	0	1	0
October	7.0	W.	28	NW.	0	7	10	6	6	9	6	9	9	0	13	4	14	10	7	1	0	0	14	0	0	0	2	1	0
November	8.3	W.	27	NW.	0	6	7	5	2	6	10	16	8	0	3	10	17	7	6	9	2	0	8	1	2	0	16	0	0
December	7.3	NE.	24	S.	0	7	17	4	3	2	4	16	8	2	9	5	17	11	10	5	2	0	14	0	2	0	19	0	0
Year	7.4	W.	35	W.	3	65	123	80	69	69	69	150	105	2	106	115	145	133	109	42	24	1	102	3	32	21	102	42	0

HARTFORD, CONN.

[H = 58 ft.; H_b = 159 ft.; h_t = 70 ft.; h_r = 63 ft.; h_a = 104 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or more	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.1	NW.	36	NW.	0	9	1	0	0	6	3	3	9	0	13	4	14	13	10	10	7	0	9	0	12	0	24	0	0
February	7.7	N.	26	NW.	0	8	3	1	0	3	9	1	3	1	13	4	12	10	9	8	6	0	13	0	17	0	25	0	0
March	8.7	S.	37	NW.	1	9	4	0	2	7	3	0	6	0	7	9	15	16	11	5	3	0	21	4	2	0	8	1	0
April	9.6	S.	30	S.	0	3	4	0	1	6	8	2	6	0	6	7	17	16	11	3	0	0	10	0	0	0	5	1	1
May	9.1	S.	25	NW.	0	4	2	0	0	13	2	0	10	0	14	13	4	8	6	0	0	1	4	0	0	3	0	8	0
June	8.0	S.	24	SW.	0	9	4	0	1	6	3	2	5	0	10	9	11	10	8	0	0	1	6	0	0	0	0	4	0
July	7.3	S.	27	NW.	0	3	9	4	2	3	2	3	5	0	12	11	8	6	6	0	0	0	12	0	0	4	0	9	0
August	7.3	S.	25	NW.	0	11	4	1	2	5	3	3	2	0	9	15	7	14	10	0	0	0	11	0	0	3	0	9	0
September	7.9	S.	27	N.	0	10	3	0	2	7	3	2	3	0	8	10	12	13	8	0	0	0	10	1	0	0	0	3	0
October	7.7	S.	27	NW.	0	6	5	1	0	11	5	0	3	0	13	6	12	9	6	0	0	0	11	0	0	0	5	0	0
November	9.3	NW.	34	NW.	1	8	0	0	0	6	5	1	10	0	11	10	9	8	7	4	2	0	8	0	3	0	18	1	0
December	8.8	N.	28	NW.	0	11	3	0	1	4	2	3	7	0	11	5	15	14	12	2	1	0	10	1	4	0	21	0	0
Year	8.4	S.	37	NW.	2	91	42	7	11	77	48	20	69	1	127	103	136	137	104	32	19	2	125	6	38	10	106	36	1

HATTERAS, N. C.

[H = 7 ft.; H_b = 11 ft.; h_t = 5 ft.; h_r = 4 ft.; h_a = 50 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or more	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	14.4	NW.	48	NW.	8	10	11	4	2	5	6	12	12	0	12	6	13	12	10	2	2	0	2	3	5	0	9	0	●
February	15.2	N.	51	NW.	5	18	12	3	1	4	11	3	6	0	10	4	15	13	10	2	2	0	2	2	1	0	12	0	●
March	14.0	SW.	49	W.	8	1	8	4	6	15	15	11	2	0	9	9	13	13	11	0	0	0	2	4	0	0	0	4	●
April	14.1	NE.	34	NW.	2	2	25	5	1	9	9	5	4	0	15	7	8	8	3	0	0	0	1	0	0	0	0	4	0
May	12.3	NE.	41	NW.	3	3	27	8	3	3	13	4	1	0	17	8	6	9	6	0	0	0	1	0	0	0	0	1	0
June	11.3	SW.	28	W.	0	6	13	7	4	12	13	3	2	0	11	11	8	10	7	0	0	0	0	0	0	0	0	4	0
July	11.8	SW.	58	NW.	4	4	6	2	1	8	27	8	6	0	14	10	7	11	10	0	0	0	0	0	0	2	0	8	0
August	10.2	SW.	28	N.	0	3	9	7	6	11	18	4	2	2	15	8	8	10	6	0	0	0	0	0	0	1	0	4	0
September	11.9	NE.	80	NW.	2	2	21	8	1	11	10	4	3	0	9	12	9	10	9	0	0	0	0	0	0	0	0	3	0
October	14.4	NE.	37	S.	4	10	18	10	4	4	9	2	5	0	13	7	11	13	13	0	0	0	0	0	0	0	0	0	0
November	15.3	N	42	NW.	3	15	10	0	2	5	8	9	11	0	12	9	9	6	3	0	0	0	0	0	0	0	0	0	0
December	14.7	N.	38	SE.	5	21	18	1	6	5	3	5	2	1	11	3	17	15	12	0	0	0	3	4	0	0	0	2	0
Year	13.3	SW.	80	NW.	44	95	178	59	37	92	142	70	56	3	148	94	124	130	100	4	4	0	11	13	6	3	21	30	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

HAVRE, MONT.

[ϕ=48°34′ N.; λ=109°49′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	27.33	27.89	26.73	7.3	13.5	10.2	10.7	−0.6	9.6	46	−24	5	9	7	91	83	88	0.062	0.072	0.065	0.51	0.20	8.1	7.2	6.8	6.0	6.5
February	27.40	27.86	26.92	17.8	−7.2	−8.8	−2.2	−23.5	12.8	44	−47	−18	−8	−10	98	94	96	.019	.034	.029	.78	.26	12.6	5.2	5.3	4.6	5.2
March	27.26	27.70	26.76	24.4	36.3	34.7	40.5	20.4	30.4	59	−11	19	22	21	82	56	59	.111	.120	.118	.59	.36	9.0	4.7	6.3	6.1	6.1
April	27.38	27.75	26.97	30.9	49.2	50.1	53.6	28.2	40.9	86	−8	25	28	28	86	49	48	.146	.161	.166	.44	.19	1.8	6.5	6.0	5.1	5.7
May	27.27	27.72	26.83	50.2	73.6	75.0	79.2	47.6	63.4	98	37	38	35	32	63	27	23	.228	.267	.185	.44	.26	.0	3.5	4.4	5.2	4.4
June	27.31	27.62	27.02	55.8	75.2	76.8	80.3	53.4	66.8	107	39	44	40	39	66	32	30	.296	.255	.248	1.55	.69	.0	5.0	4.3	5.6	4.8
July	27.28	27.53	26.95	65.4	89.8	92.2	96.3	63.5	79.9	107	51	44	42	38	48	21	16	.296	.273	.237	.11	.04	.0	2.9	2.5	5.1	3.3
August	27.37	27.71	27.09	57.3	77.3	81.1	84.3	56.5	70.4	97	45	47	46	42	70	36	29	.325	.312	.281	1.50	.85	.0	3.5	3.8	3.6	3.8
September	27.35	27.75	26.78	46.5	67.9	67.6	73.2	43.5	58.4	94	27	34	35	33	65	32	31	.265	.211	.201	.14	.07	.0	4.2	4.5	4.1	4.2
October	27.41	27.86	26.85	40.0	55.2	53.9	60.9	34.9	47.9	85	15	27	31	30	63	46	46	.148	.175	.166	.73	.46	2.0	4.5	5.3	4.6	4.8
November	27.54	27.89	27.16	29.1	41.3	37.2	46.8	22.9	34.8	74	−16	20	23	23	70	51	57	.114	.128	.125	.23	.12	3.2	3.3	3.9	3.3	3.8
December	27.30	27.91	26.89	17.3	22.5	20.0	27.5	8.4	18.0	56	−27	11	15	13	76	74	74	.079	.094	.088	1.50	.70	27.0	5.9	7.3	6.5	7.2
Year	27.35	27.91	26.73	33.9	49.6	49.2	55.0	29.6	42.3	107	−47	25	26	25	73	50	50	.169	.170	.159	8.52	.85	63.7	4.7	5.0	5.0	5.0

HELENA, MONT.

[ϕ=46°35′ N.; λ=112°02′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	25.72	26.17	25.20	21.4	25.2	24.9	29.9	16.5	23.2	51	−9	13	15	16	71	64	67	0.087	0.091	0.093	0.57	0.29	10.8	6.9	8.0	8.2	8.0
February	25.66	26.09	25.16	−2.7	3.4	4.7	10.9	−7.0	2.0	51	−36	−7	−3	−2	81	74	73	.040	.048	.048	1.51	.36	31.1	8.1	8.0	8.3	7.7
March	25.71	26.05	25.28	28.0	34.6	35.5	40.6	23.1	31.8	60	−13	15	18	18	57	50	48	.090	.100	.098	.45	.23	8.0	7.3	7.5	8.6	8.1
April	25.82	26.09	25.38	34.9	48.6	52.0	54.9	32.6	43.8	80	−10	26	28	28	70	48	44	.152	.158	.157	.99	.49	3.8	6.6	7.0	7.4	6.8
May	25.78	26.06	25.40	48.3	67.0	68.7	71.9	45.9	58.9	90	35	35	36	35	62	35	33	.209	.221	.204	.89	.41	T	5.0	6.0	6.6	5.9
June	25.80	26.04	25.46	54.3	68.1	71.0	74.2	51.1	62.6	96	34	43	43	41	66	44	38	.278	.285	.260	2.28	.77	T	5.3	6.2	6.6	5.8
July	25.81	26.03	25.56	62.3	83.9	84.2	89.4	60.0	74.7	100	49	45	48	47	55	30	30	.307	.345	.328	.69	.27	.0	3.4	4.5	6.7	4.8
August	25.86	26.13	25.64	55.9	74.7	77.4	81.2	54.2	67.7	91	44	43	47	45	63	40	35	.284	.332	.304	.69	.42	.0	3.7	4.3	5.5	5.0
September	25.85	26.18	25.25	47.0	62.3	64.7	68.6	44.2	56.4	87	29	35	36	34	65	41	36	.210	.222	.199	.90	.37	T	4.0	4.8	4.5	4.5
October	25.91	26.17	25.43	39.6	52.0	53.2	59.0	36.2	47.6	78	16	30	30	30	68	46	44	.163	.171	.165	.84	.43	5.2	4.3	5.2	4.7	5.1
November	26.07	26.35	25.72	23.6	30.1	30.3	36.1	19.4	27.8	53	−4	19	21	22	80	68	71	.105	.116	.122	.39	.15	8.0	5.7	5.6	5.2	5.8
December	25.73	26.05	25.43	25.5	29.2	29.0	34.8	19.7	27.2	56	−12	15	16	16	64	60	60	.090	.096	.098	.69	.32	11.7	7.9	8.5	7.4	8.3
Year	25.81	26.35	25.16	36.5	48.3	49.6	54.3	33.0	43.6	100	−36	26	28	28	67	50	48	.168	.182	.173	10.89	.77	78.6	5.7	6.3	6.6	6.3

HONOLULU, T. H.

[ϕ=21°19′ N.; λ=157°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.91	30.04	29.52	72.1	76.1	73.0	78.5	68.8	73.6	82	64	64	64	64	75	66	74	0.588	0.592	0.603	2.81	1.34	0.0	4.0	5.4	3.0	4.6
February	29.86	30.04	29.30	70.2	74.9	71.5	77.1	66.4	71.8	82	60	62	61	63	76	63	75	.564	.551	.570	1.26	.53	.0	4.3	4.5	5.1	4.3
March	30.00	30.13	29.76	71.6	74.4	71.6	76.8	67.5	72.2	81	62	62	61	61	71	63	71	.550	.542	.545	1.73	.73	.0	6.3	7.0	6.6	6.4
April	30.09	30.09	29.87	72.5	75.3	71.8	76.9	68.3	72.6	82	63	62	63	62	71	65	73	.566	.572	.566	1.40	.51	.0	5.9	5.3	5.5	5.7
May	30.03	30.11	29.94	73.5	75.4	72.7	77.4	69.5	73.4	81	66	62	63	62	68	67	70	.560	.586	.558	1.59	.52	.0	5.7	7.2	5.6	6.0
June	30.00	30.11	29.90	76.3	79.0	75.8	80.8	72.3	76.6	83	70	66	66	66	71	65	72	.642	.640	.638	.72	.25	.0	5.6	4.9	5.6	5.4
July	29.98	30.08	29.88	77.3	80.2	77.0	82.0	73.5	77.8	84	70	66	66	66	70	63	70	.648	.644	.645	.82	.11	.0	5.6	4.2	5.8	4.8
August	29.95	30.03	29.85	77.9	81.0	77.6	82.3	74.4	78.4	84	71	67	66	66	70	62	69	.665	.654	.642	.48	.11	.0	4.6	4.6	4.8	4.1
September	29.93	30.00	29.79	78.2	80.9	77.6	82.7	74.0	78.4	84	72	68	68	68	72	66	72	.691	.697	.682	1.11	.27	.0	4.5	5.0	4.0	4.7
October	29.92	30.02	29.68	77.3	80.8	76.9	82.5	72.3	77.4	85	69	70	71	70	78	72	79	.722	.750	.732	11.26	4.08	.0	4.4	5.0	4.1	4.9
November	29.95	30.15	29.65	74.5	77.7	74.1	79.1	70.6	74.8	83	63	63	64	63	69	62	69	.584	.588	.580	1.69	1.00	.0	5.5	5.1	3.6	4.9
December	30.00	30.18	29.80	71.8	74.4	72.5	75.8	68.9	72.4	79	62	61	62	60	70	66	66	.544	.557	.527	3.16	.94	.0	6.6	6.3	5.7	6.1
Year	29.96	30.18	29.30	74.4	77.5	74.3	79.3	70.5	75.0	85	60	64	65	64	72	65	72	.610	.614	.608	28.03	4.08	.0	5.2	5.4	5.0	5.2

HOUSTON, TEX.

[ϕ=29°47′ N.; λ=95°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.91	30.38	29.43	45.4	54.5	-----	60.3	42.3	51.3	81	23	40	41	---	83	64	---	0.263	0.278	-----	1.94	0.75	0.0	4.8	5.5	----	5.3
February	29.89	30.24	29.36	45.5	53.7	-----	59.3	40.9	50.1	82	19	38	40	---	78	62	---	.269	.285	-----	2.11	.78	.0	7.2	6.9	----	7.0
March	29.79	30.12	29.50	59.7	70.8	-----	74.6	57.5	66.0	86	46	53	51	---	80	53	---	.430	.406	-----	2.31	1.32	.0	5.8	5.4	----	5.7
April	29.91	30.25	29.39	59.0	71.3	-----	76.6	57.3	67.0	89	39	53	48	---	82	48	---	.437	.378	-----	2.03	1.09	.0	5.2	4.6	----	4.7
May	29.82	30.02	29.50	68.6	78.1	-----	81.2	67.2	74.2	88	60	65	63	---	89	63	---	.626	.587	-----	11.55	4.53	.0	6.0	6.7	----	6.2
June	29.77	29.95	29.51	75.9	88.3	-----	91.8	73.9	82.8	98	68	69	66	---	81	49	---	.723	.655	-----	.53	.39	.0	3.3	4.1	----	3.7
July	29.83	30.00	29.61	76.4	85.0	-----	89.9	73.9	81.9	95	68	72	70	---	88	63	---	.805	.738	-----	5.12	1.82	.0	4.9	5.8	----	5.6
August	29.84	30.01	29.65	76.4	88.0	-----	91.9	75.2	83.6	99	70	73	69	---	89	55	---	.808	.716	-----	2.95	2.46	.0	4.5	5.6	----	5.4
September	29.81	29.95	29.62	74.6	84.1	-----	87.7	72.6	80.2	96	58	71	68	---	89	60	---	.774	.704	-----	3.56	1.52	.0	3.8	6.4	----	6.0
October	29.91	30.16	29.70	62.3	73.2	-----	77.0	59.7	68.4	88	48	56	56	---	80	56	---	.462	.458	-----	1.06	.95	.0	4.1	4.4	----	4.2
November	30.06	30.35	29.71	52.2	62.8	-----	66.7	48.1	57.4	84	32	43	43	---	72	52	---	.313	.311	-----	2.15	.99	.0	6.1	5.3	----	5.4
December	29.99	30.29	29.60	51.9	59.6	-----	63.9	47.8	55.8	77	32	46	46	---	82	63	---	.342	.337	-----	5.81	1.86	.0	6.7	6.0	----	6.0
Year	29.88	30.38	29.36	62.3	72.4	-----	76.7	59.7	68.2	99	19	57	55	---	83	57	---	.521	.488	-----	41.12	4.53	.0	5.2	5.6	----	5.4

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

HAVRE, MONT.

[H=2,488 ft.; H_b=2,507 ft.; h_t=11 ft.; h_r=3 ft.; h_a=67 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	8.8	E.	30	SW.	0	0	6	19	1	0	16	11	7	2	7	10	14	10	5	17	10	0	2	0	21	0	30	0	1
February	7.4	W.	28	SW.	0	2	0	19	0	0	11	15	7	4	11	8	10	11	6	18	11	0	8	1	27	0	29	0	1
March	10.7	SW.	32	NW.	3	3	8	5	1	1	17	13	14	0	8	13	10	9	4	12	8	1	0	0	8	0	27	0	0
April	9.7	E.	32	SW.	1	2	7	19	4	0	7	8	8	5	10	8	12	7	4	8	4	1	0	0	5	0	11	0	6
May	10.7	SW.	32	SW.	2	3	6	15	3	2	13	7	12	1	13	14	4	7	2	0	0	0	0	0	0	7	0	5	0
June	9.6	E.	32	W.	1	2	11	14	2	1	8	9	13	0	10	14	6	10	7	0	0	0	0	0	0	5	0	5	2
July	8.3	NW.	40	SW.	2	4	9	6	5	3	8	10	17	0	17	12	2	5	0	0	0	0	0	0	0	26	0	7	0
August	7.6	E.	26	W.	0	6	7	19	4	1	4	7	13	1	13	15	3	9	7	0	0	0	1	0	0	8	0	6	1
September	9.0	NW.	36	SE.	1	4	3	7	3	1	12	12	16	2	14	11	5	6	1	0	0	0	0	0	0	1	4	3	2
October	10.0	SW.	32	W.	1	3	6	9	0	0	16	11	16	1	13	8	10	5	4	5	4	0	0	0	1	0	13	0	4
November	11.6	SW.	41	SW.	3	2	5	4	0	0	25	12	10	2	15	10	5	4	2	4	3	0	0	0	4	0	23	0	1
December	10.3	SW.	33	SW.	4	1	2	18	1	0	17	16	7	0	7	7	17	7	5	11	7	0	2	0	15	0	29	0	0
Year	9.5	SW.	41	SW.	18	32	70	154	24	9	154	131	140	18	138	130	98	90	47	75	47	2	13	1	81	47	166	26	18

HELENA, MONT.

[H=4,090 ft.; H_b=4,124 ft.; h_t=85 ft.; h_r=78 ft.; h_a=111 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.3	SW.	31	SW.	0	6	2	0	1	1	24	15	11	2	3	4	24	8	6	21	7	0	0	0	15	0	24	0	0
February	5.8	NW.	27	SW.	0	11	3	3	0	1	12	5	18	5	3	7	19	17	8	25	17	0	2	0	23	0	26	0	0
March	9.9	SW.	35	SW.	3	7	2	1	1	0	21	17	9	1	0	12	19	7	3	17	6	0	0	0	5	0	23	1	5
April	8.3	SW.	31	W.	0	6	3	1	0	3	20	12	15	0	4	10	16	7	6	5	3	0	0	0	4	0	10	1	5
May	9.9	SW.	38	SW.	2	3	6	4	1	4	32	5	7	0	8	12	11	8	6	2	0	3	0	0	0	1	0	5	0
June	8.8	SW.	30	SW.	0	1	3	7	1	3	22	11	12	0	7	12	11	9	6	1	1	1	0	0	0	4	0	8	2
July	8.4	SW.	38	S.	2	3	7	2	2	6	22	7	13	0	9	17	5	9	6	0	0	0	0	0	0	16	0	13	0
August	7.6	SW.	30	NW.	0	7	1	5	1	3	28	6	10	1	13	8	10	5	5	0	0	0	0	0	0	3	0	9	1
September	7.9	SW.	24	NW.	0	6	3	2	0	0	21	19	7	2	12	10	8	6	4	1	1	0	0	0	0	0	3	3	0
October	6.9	SW.	24	NW.	0	7	6	3	0	3	17	14	12	0	11	10	10	7	4	5	1	0	0	0	0	0	11	0	2
November	4.7	SW.	23	SW.	0	8	0	1	0	0	20	10	18	3	8	8	14	7	4	9	7	0	2	0	7	0	28	0	0
December	8.1	SW.	32	SW.	1	3	0	0	0	4	25	16	14	0	1	6	24	10	5	20	9	0	1	1	9	0	25	0	0
Year	7.8	SW.	38	SW.	8	68	36	29	7	28	267	137	146	14	79	116	171	100	63	106	52	4	5	1	63	24	150	40	15

HONOLULU, T. H.

[H=12 ft.; H_b=38 ft.; h_t=86 ft.; h_r=68 ft.; h_a=100 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.4	E.	26	W.	0	6	18	23	7	5	1	1	1	0	13	11	7	10	6	0	0	0	0	0	0	0	0	1	0
February	8.6	NE.	30	W.	0	7	10	11	2	8	3	6	6	5	15	11	3	8	5	0	0	0	0	0	0	0	0	2	0
March	10.4	E.	35	NE.	1	5	10	37	2	2	0	0	4	2	9	7	15	17	10	0	0	0	0	0	0	0	0	1	0
April	10.3	NE.	27	NE.	0	4	23	23	1	2	3	2	1	1	9	11	10	13	6	0	0	0	0	0	0	0	0	0	0
May	11.5	E.	30	NE.	0	0	16	46	0	0	0	0	0	0	5	17	9	18	13	0	0	0	0	0	0	0	0	0	0
June	9.6	E.	23	E.	0	0	21	30	2	2	3	1	1	0	9	12	9	10	5	0	0	0	0	0	0	0	0	0	0
July	10.2	E.	24	E.	0	0	9	52	0	0	1	0	0	0	9	21	1	24	9	0	0	0	0	0	0	0	0	0	0
August	10.8	E.	30	E.	0	0	6	52	2	0	1	0	0	1	13	16	2	14	6	0	0	0	0	0	0	0	0	0	0
September	8.7	E.	25	E.	0	1	10	45	0	1	1	1	0	1	9	19	2	14	8	0	0	0	0	0	0	0	0	0	0
October	7.4	E.	24	NE.	0	4	14	26	2	5	4	3	2	2	8	17	6	14	14	0	0	0	0	0	0	0	0	2	0
November	9.8	E.	30	NE.	0	6	17	33	2	0	1	0	0	1	13	10	7	9	6	0	0	0	0	0	0	0	0	0	0
December	13.1	E.	37	NE.	1	1	6	52	1	0	0	1	1	0	5	18	8	24	16	0	0	0	0	0	0	0	0	1	0
Year	9.9	E.	37	NE.	2	34	160	430	21	25	18	15	16	13	117	170	79	175	104	0	0	0	0	0	0	0	0	7	0

HOUSTON, TEX.

[H=52 ft.; H_b=138 ft.; h_t=292 ft.; h_r=286 ft.; h_a=314 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	12.2	N.	40	NW.	1	6	8	1	3	5	1	4	3	0	14	3	14	14	9	0	0	0	18	2	1	0	8	1	0
February	12.8	N.	38	N.	2	8	5	4	5	4	1	0	2	0	7	5	17	11	6	0	0	0	17	0	0	0	9	2	0
March	12.2	S.	38	N.	1	5	4	3	5	8	4	0	2	0	8	9	14	8	6	0	0	0	11	3	0	0	0	1	0
April	12.8	S.	34	SW.	1	4	4	3	7	8	1	1	2	0	12	11	7	5	5	0	0	0	13	3	0	0	0	3	0
May	11.3	SE.	34	E.	2	2	7	8	8	3	1	0	1	1	5	15	11	15	14	0	0	0	5	0	0	0	0	8	0
June	10.9	S.	30	NE.	0	3	6	2	3	10	2	0	3	1	17	11	2	3	3	0	0	1	1	0	0	22	0	3	0
July	9.9	S.	31	NE.	0	0	6	1	4	12	2	3	1	2	7	12	12	11	11	0	0	0	2	0	0	15	0	14	0
August	8.9	S.	34	NE.	1	3	5	4	1	9	4	2	3	0	8	16	7	8	5	0	0	0	2	0	0	23	0	6	0
September	10.9	S.	34	SE.	1	2	4	6	4	10	1	0	3	0	4	17	9	13	8	0	0	0	2	0	0	10	0	11	0
October	11.4	N.	34	NW.	1	10	8	2	3	4	1	2	1	0	14	9	8	3	2	0	0	0	5	1	0	0	0	1	0
November	12.3	N.	32	N.	1	7	7	5	3	3	1	3	1	0	12	6	12	9	6	0	0	0	4	0	0	0	1	1	0
December	12.4	SE.	27	NW.	0	8	4	3	8	2	3	0	3	0	7	10	14	10	8	0	0	0	8	2	0	0	1	2	0
Year	11.5	SE.	40	NW.	11	58	68	42	54	78	22	15	25	4	115	124	127	110	83	0	0	1	88	11	1	70	19	53	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

HURON, S. DAK.

[ϕ=44°21′ N.; λ=98°14′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.68	29.21	28.01	−2.7	5.1	3.7	9.9	−8.9	0.5	40	−26	−5	1	0	89	79	86	0.037	0.045	0.047	0.52	0.15	7.3	6.0	6.1	5.3	6.0
February	28.71	29.00	27.94	−10.2	−2.0	−1.0	3.3	−14.1	−5.4	33	−33	−13	−5	−4	88	84	87	.026	.037	.041	.88	.28	14.7	5.4	7.2	6.6	6.3
March	28.47	28.99	27.89	26.0	38.5	37.0	43.4	23.6	33.5	67	7	22	28	28	86	66	69	.122	.154	.152	.68	.24	8.6	4.9	5.3	5.8	5.2
April	28.66	29.08	28.19	32.6	48.5	48.6	54.0	29.5	41.8	85	7	27	32	28	79	56	50	.154	.195	.162	1.62	1.46	1.8	6.0	5.0	5.6	4.7
May	28.58	28.97	27.94	55.9	70.5	72.3	75.8	51.8	63.8	92	36	50	55	50	80	60	50	.365	.452	.381	1.09	.49	.0	4.4	3.8	4.2	3.7
June	28.53	28.93	27.96	62.0	77.6	80.0	83.5	57.3	70.4	109	40	53	57	53	73	54	43	.406	.484	.407	1.66	.53	.0	4.8	4.8	3.5	3.7
July	28.50	28.98	28.22	73.3	94.9	96.2	99.6	69.3	84.4	110	56	55	50	49	53	23	22	.440	.371	.362	.85	.64	.0	1.7	2.3	2.8	2.0
August	28.55	28.85	28.24	65.8	82.5	85.1	88.7	63.8	76.2	103	50	54	54	52	76	41	37	.436	.435	.411	3.08	1.52	.0	4.8	4.2	3.8	3.9
September	28.57	29.05	28.14	55.2	74.0	72.9	79.0	53.0	66.0	99	32	47	45	45	74	39	40	.356	.336	.335	.33	.14	.0	3.1	3.4	3.1	3.0
October	28.64	29.23	28.12	36.3	54.1	53.1	60.5	33.1	46.8	83	10	28	31	29	72	44	43	.157	.180	.169	.35	.34	.8	3.9	3.9	3.5	4.0
November	28.75	29.22	28.35	25.8	35.5	32.4	39.4	21.7	30.6	60	2	22	25	26	85	65	77	.119	.134	.142	1.05	.62	9.8	4.3	4.6	3.9	4.4
December	28.64	29.05	28.16	20.0	25.0	23.6	29.9	14.1	22.0	50	−11	17	18	19	86	77	82	.097	.107	.108	.49	.23	7.0	5.0	6.5	5.4	5.9
Year	28.61	29.23	27.89	36.7	50.4	50.3	55.6	32.8	44.2	110	−33	30	33	31	78	57	57	.226	.244	.226	12.60	1.52	50.0	4.5	4.8	4.5	4.4

INDIANAPOLIS, IND.

[ϕ=39°46′ N.; λ=86°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.14	29.64	28.65	19.1	24.1	23.9	29.5	15.0	22.2	57	−18	15	16	16	84	69	69	0.105	0.107	0.103	1.32	0.33	7.1	7.5	6.3	6.9	7.6
February	29.19	29.49	28.40	18.2	24.7	25.7	31.2	12.3	21.8	61	−11	13	15	17	78	64	67	.099	.109	.110	3.21	1.15	7.5	8.0	5.9	5.5	6.9
March	29.01	29.39	28.59	38.8	48.8	47.2	54.1	34.5	44.3	73	17	31	31	31	73	51	56	.181	.184	.183	2.13	.54	2.8	7.3	5.5	5.9	6.1
April	29.16	29.57	28.64	41.7	50.3	52.0	56.6	38.8	47.7	78	23	33	31	34	71	50	54	.200	.192	.219	3.89	1.39	.6	6.5	6.5	5.1	6.4
May	29.20	29.54	28.81	60.6	72.5	71.3	76.8	55.7	66.2	90	41	48	48	48	64	45	47	.351	.362	.353	1.48	.56	.0	4.3	4.1	4.1	4.1
June	29.06	29.37	28.57	66.1	78.7	78.6	84.1	59.9	72.0	98	52	50	50	52	59	39	42	.381	.376	.399	2.91	2.57	.0	4.0	4.4	4.6	4.5
July	29.07	29.52	28.75	75.3	88.9	88.5	93.7	71.8	82.8	106	56	61	59	58	63	39	37	.554	.519	.500	.67	.29	.0	5.0	3.7	4.9	5.2
August	29.13	29.42	28.92	73.5	85.4	85.9	91.0	70.0	80.5	101	58	61	60	59	67	44	41	.551	.525	.510	2.49	1.17	.0	3.8	4.1	3.8	4.4
September	29.16	29.50	28.84	64.9	75.9	73.8	80.1	61.7	70.9	95	44	56	56	57	75	54	58	.476	.469	.479	4.30	1.42	.0	5.0	5.4	4.7	5.6
October	29.20	29.57	28.74	49.7	60.0	57.9	64.8	47.1	56.0	80	26	44	44	45	81	57	64	.308	.310	.327	3.29	1.03	.0	5.1	5.5	4.1	5.5
November	29.24	29.69	28.81	34.6	42.2	40.9	47.4	31.5	39.4	69	18	28	28	28	77	55	60	.166	.160	.169	4.58	4.35	T	4.8	5.2	4.3	5.6
December	29.29	29.68	28.69	32.8	39.8	38.2	43.5	28.1	35.8	61	9	27	27	27	78	61	65	.158	.162	.160	3.20	1.94	3.8	6.2	6.6	5.3	6.3
Year	29.15	29.69	28.40	47.9	57.6	57.0	62.7	43.9	53.3	106	−18	39	39	39	72	52	55	.294	.290	.293	33.47	4.35	21.8	5.6	5.3	4.9	5.7

ITHACA, N. Y.

[ϕ=42°27′ N.; λ=76°29′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.04	29.60	28.32	20.9	25.7	23.0	28.9	16.6	22.8	41	−3	15	17	17	78	68	77	0.095	0.101	0.101	2.08	0.64	15.9	9.2	7.9	8.0	8.3
February	29.14	29.59	28.36	15.9	24.3	19.6	28.0	9.3	18.6	55	−6	10	12	13	77	58	72	.076	.083	.083	1.14	.47	7.1	7.8	6.2	4.9	6.3
March	28.97	29.44	28.28	35.2	42.3	38.8	46.9	29.9	38.4	65	7	28	30	31	76	64	71	.167	.178	.180	6.92	1.98	10.5	7.0	8.0	7.0	7.9
April	29.09	29.54	28.47	40.6	47.4	42.8	51.5	33.9	42.7	81	23	32	33	35	71	59	74	.192	.200	.213	2.74	.74	T	8.1	8.2	8.4	8.1
May	29.13	29.70	28.68	58.2	68.8	61.6	72.9	46.8	59.8	89	30	46	47	47	66	47	61	.338	.346	.342	3.05	1.25	T	5.3	5.1	5.3	5.1
June	29.02	29.37	28.62	64.4	73.1	68.2	77.8	54.4	66.1	88	42	52	53	53	66	51	60	.406	.421	.416	1.54	.69	.0	5.2	6.2	5.5	5.5
July	29.02	29.44	28.77	70.6	81.9	74.2	85.7	57.2	71.4	103	43	57	54	55	63	41	53	.477	.437	.445	2.11	.92	.0	4.2	5.9	5.0	5.3
August	29.11	29.48	28.80	66.5	79.5	71.1	83.8	58.5	71.2	97	43	58	58	58	74	49	65	.488	.491	.494	2.71	.82	.0	6.1	5.6	6.1	5.9
September	29.19	29.48	28.75	59.4	70.7	63.7	74.9	51.5	63.2	89	31	52	53	53	77	56	69	.409	.430	.421	1.66	.53	.0	5.5	6.0	4.5	5.7
October	29.15	29.60	28.38	48.2	56.5	50.8	60.6	41.7	51.2	78	23	42	42	41	78	59	68	.283	.288	.272	3.41	1.42	T	6.9	6.1	5.2	6.0
November	29.11	29.71	28.47	33.3	38.1	35.4	42.5	26.7	34.6	69	3	27	27	27	77	64	72	.157	.160	.161	2.78	1.67	10.0	8.5	7.6	7.2	7.8
December	29.29	29.73	28.34	30.2	35.9	33.4	40.5	24.3	32.4	59	−5	24	26	26	76	66	74	.135	.145	.145	2.18	.81	7.1	8.2	8.2	6.5	8.0
Year	29.10	29.73	28.28	45.3	53.7	48.6	57.8	37.6	47.7	103	−6	37	38	38	73	57	68	.269	.273	.273	32.32	1.98	50.6	6.8	6.8	6.1	6.7

JACKSONVILLE, FLA.

[ϕ=30°20′ N.; λ=81°39′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.04	30.43	29.50	49.1	58.8	56.1	64.5	45.3	54.9	80	24	45	45	46	86	61	70	0.334	0.336	0.346	1.82	0.67	T	5.6	5.9	5.1	6.0
February	30.05	30.42	29.46	47.8	58.4	53.4	62.8	44.6	53.7	77	25	44	45	45	88	64	74	.312	.321	.306	5.11	1.41	0.0	6.3	5.7	4.4	5.9
March	29.92	30.21	29.47	57.8	69.5	65.2	73.8	55.6	64.7	87	43	52	49	50	82	52	63	.411	.384	.404	2.93	1.59	.0	5.7	5.5	4.8	5.3
April	30.04	30.36	29.67	63.4	74.1	69.3	78.4	59.4	68.9	89	40	55	51	55	76	48	63	.466	.466	.450	1.77	1.18	.0	3.5	4.2	3.1	3.7
May	29.99	30.26	29.65	72.5	80.5	74.2	82.6	66.7	74.6	92	60	65	61	64	78	54	72	.623	.550	.606	2.38	.75	.0	4.2	6.0	4.4	5.7
June	29.90	30.16	27.74	76.4	83.8	78.6	87.1	71.0	79.0	96	65	69	67	69	79	58	74	.720	.656	.708	6.15	2.43	.0	3.4	4.4	4.7	4.3
July	29.97	30.16	29.77	78.5	87.1	81.1	90.8	74.0	82.4	97	69	72	69	71	81	56	72	.785	.709	.749	5.88	2.31	.0	4.7	6.0	5.5	5.6
August	29.99	30.18	29.81	78.9	87.2	80.4	90.1	74.1	82.1	95	71	74	70	73	85	58	78	.833	.744	.807	5.99	1.31	.0	2.4	4.4	3.8	4.5
September	29.97	30.13	29.81	75.9	85.1	79.4	87.9	72.8	80.4	93	70	71	69	72	86	60	77	.768	.714	.774	1.61	.49	.0	4.8	6.0	3.8	5.7
October	29.99	30.24	29.71	68.9	78.0	73.0	80.3	66.0	73.2	88	53	65	65	67	88	66	83	.643	.636	.682	12.62	5.23	.0	5.2	5.9	4.0	6.0
November	30.09	30.41	29.81	54.4	65.9	61.7	69.3	52.0	60.6	86	30	48	49	52	80	58	72	.379	.393	.421	.79	.37	.0	4.8	5.5	3.9	5.6
December	30.11	30.44	29.80	52.4	61.5	57.1	65.1	49.3	57.2	79	37	50	52	53	93	75	86	.376	.410	.408	1.98	1.11	.0	6.7	7.1	6.4	7.3
Year	30.01	30.44	29.46	64.7	74.2	69.1	77.7	60.9	69.3	97	24	59	58	60	84	59	74	.554	.522	.555	49.03	5.23	T	4.8	5.6	4.5	5.5

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

HURON, S. DAK.

[H=1,282 ft.; H_b=1,301 ft.; h_t=59 ft.; h_r=53 ft.; h_a=74 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.7	NW.	28	NW.	0	6	4	4	16	2	2	3	25	0	9	7	15	11	4	21	11	0	13	1	29	0	31	0	0
February	9.0	NW.	27	NW.	0	7	3	5	14	1	1	5	22	0	8	8	13	13	8	20	13	0	12	0	28	0	29	0	1
March	10.3	NW.	36	NW.	3	7	8	2	14	2	3	8	18	0	11	12	8	11	6	11	8	0	3	0	7	0	28	0	1
April	10.3	NW.	33	NW.	2	10	7	0	13	4	5	5	16	0	13	10	7	8	4	6	5	0	1	0	3	0	15	2	2
May	10.5	SE.	29	N.	0	7	4	2	18	8	6	7	10	0	18	10	3	8	6	0	0	0	5	0	0	2	0	5	0
June	10.9	SE.	32	SE.	1	10	7	10	13	10	1	3	6	0	15	12	3	9	6	0	0	2	3	0	0	9	0	8	2
July	10.3	SE.	33	W.	1	7	6	11	20	9	3	2	4	0	25	6	0	5	3	0	0	0	0	0	0	27	0	7	0
August	9.5	SE.	39	NE.	1	10	8	9	14	8	2	6	5	0	14	14	3	10	7	0	0	0	3	0	0	14	0	14	0
September	9.5	SE.	31	SE.	0	6	5	1	21	7	1	5	11	0	18	10	2	5	4	0	0	0	6	0	0	4	0	4	3
October	10.2	N.	31	S.	0	12	3	2	10	9	4	16	6	0	15	13	3	2	1	2	1	0	2	0	2	0	16	1	2
November	9.9	NW.	37	NW.	1	8	3	1	7	9	6	9	16	1	17	4	9	5	3	8	5	0	0	0	5	0	27	1	1
December	8.6	SE.	25	W.	0	5	4	5	15	8	2	7	16	0	10	10	11	7	4	13	4	0	11	1	16	0	30	0	0
Year	9.7	SE.	39	NE.	9	95	62	52	175	77	36	76	158	1	173	116	77	94	56	81	47	2	59	2	90	56	176	42	12

INDIANAPOLIS, IND.

[H=715 ft.; H_b=822 ft.; h_t=194 ft.; h_r=188 ft.; h_a=230 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.9	W.	39	W.	2	4	6	5	8	9	5	21	4	0	3	10	18	12	9	14	6	0	7	1	13	0	28	0	0
February	12.2	W.	36	W.	2	1	11	5	6	10	4	16	5	0	5	8	16	8	7	18	5	0	5	1	15	0	26	2	0
March	12.5	W.	39	W.	5	6	7	7	3	15	5	10	9	0	9	12	10	12	8	6	2	0	2	0	0	0	12	5	0
April	11.8	W.	37	W.	2	6	6	10	11	4	7	6	10	0	7	10	13	16	10	5	4	0	3	0	1	0	9	2	0
May	10.0	S.	29	NW.	0	8	3	7	4	16	8	6	10	0	18	7	6	6	4	0	0	0	1	0	0	0	0	6	0
June	10.8	NE.	29	S.	0	6	18	8	4	4	9	6	5	0	13	11	6	8	5	0	0	0	0	0	0	6	0	7	0
July	9.1	SW.	33	W.	1	6	8	13	3	9	13	7	3	0	10	17	4	7	4	0	0	0	1	1	0	19	0	14	0
August	9.4	SW.	33	S.	1	6	6	12	3	11	16	4	4	0	13	14	4	10	7	0	0	0	2	0	0	21	0	10	0
September	10.1	S.	25	N.	0	6	12	8	7	16	6	3	1	1	11	8	11	10	6	0	0	0	0	0	0	7	0	7	0
October	9.9	S.	28	N.	0	4	10	6	3	22	6	3	8	0	13	4	14	12	10	0	0	0	8	0	0	0	3	2	0
November	11.9	W.	31	NW.	0	3	7	1	5	10	9	11	13	1	10	8	12	4	3	5	0	0	4	2	2	0	18	1	0
December	11.2	S.	33	S.	1	2	3	9	8	20	5	7	8	0	9	7	15	11	8	6	3	0	11	3	3	0	20	1	0
Year	10.9	S.	39	W.	14	58	97	91	65	146	93	100	80	2	121	116	129	116	81	54	20	0	44	8	34	53	116	57	0

ITHACA, N. Y.

[H=872 ft.; H_b=836 ft.; h_t=77 ft.; h_r=49 ft.; h_a=100 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.1	W.	35	SE.	2	3	1	3	12	9	6	15	13	0	4	4	23	20	10	23	16	0	5	1	13	0	28	0	0
February	9.8	W.	31	SE.	0	6	3	5	14	4	2	14	9	1	6	10	13	10	8	19	9	0	3	1	18	0	27	0	0
March	9.9	NW.	32	SE.	3	9	3	2	17	7	2	6	14	2	3	6	22	18	16	11	9	0	10	7	2	0	21	1	0
April	10.4	NW.	31	SE.	0	9	0	3	14	10	2	7	14	1	2	6	22	18	16	6	1	0	6	0	0	0	14	3	0
May	8.3	NW.	25	W.	0	7	1	3	9	11	3	5	23	0	10	14	7	11	9	2	0	1	3	0	0	0	1	7	0
June	8.4	NW.	28	SE.	0	7	1	4	12	11	3	3	17	2	9	12	9	8	7	0	0	0	4	1	0	0	0	3	0
July	7.0	NW.	21	NW.	0	8	4	3	6	4	7	0	24	6	7	18	6	7	7	0	0	0	1	0	0	9	0	4	0
August	6.9	NW.	27	N.	0	3	6	6	14	7	6	2	18	0	6	15	10	14	10	0	0	0	3	1	0	8	0	7	0
September	8.8	S.	27	SE.	0	9	10	2	12	11	5	1	8	2	11	5	14	9	7	0	0	0	4	0	0	0	1	3	0
October	9.9	NW.	31	NW.	0	5	3	4	11	18	4	1	16	0	10	6	15	14	10	4	1	0	6	3	0	0	5	0	0
November	11.4	NW.	31	NW.	0	6	2	2	7	12	9	2	20	0	3	7	20	14	8	14	10	0	3	0	6	0	20	0	0
December	11.2	SE.	37	SE.	3	3	4	4	16	10	5	2	18	0	3	5	23	13	8	14	3	0	6	1	5	0	22	0	0
Year	9.4	NW.	37	SE.	8	75	38	41	144	114	54	58	194	14	74	108	184	156	116	93	49	1	54	15	44	17	139	28	0

JACKSONVILLE, FLA.

[H=18 ft.; H_b=43 ft.; h_t=86 ft.; h_r=78 ft.; h_a=110 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.8	S.	35	S.	1	6	9	5	5	11	8	4	13	1	9	7	15	11	4	1	0	0	8	4	0	0	4	1	0
February	8.7	NE.	35	SW.	2	14	10	3	8	9	2	1	11	0	10	5	14	13	11	0	0	0	6	2	0	0	2	5	0
March	9.0	W.	30	W.	0	2	8	8	7	8	9	16	3	1	9	13	9	10	7	0	0	0	3	0	0	0	0	2	0
April	9.1	NE.	28	W.	0	6	10	5	6	9	8	6	10	0	18	4	8	5	4	0	0	0	2	0	0	0	0	1	0
May	8.2	NE.	24	NE.	0	4	19	17	11	3	4	1	3	0	8	13	10	9	8	0	0	0	2	0	0	1	0	3	0
June	7.4	S.	26	E.	0	3	11	6	17	7	7	6	1	2	13	11	6	14	11	0	0	0	0	0	0	7	0	13	0
July	8.1	SW.	24	SW.	0	4	1	5	11	7	20	8	6	0	10	11	10	11	9	0	0	0	1	0	0	20	0	18	0
August	6.8	E.	24	SW.	0	2	7	16	13	12	5	1	5	1	14	12	5	13	12	0	0	0	3	2	0	18	0	10	0
September	7.0	E.	20	E.	0	6	10	18	9	5	5	4	3	0	7	15	8	12	7	0	0	0	0	0	0	7	0	9	0
October	7.9	NE.	23	E.	0	18	14	7	6	5	1	3	8	0	8	9	14	15	14	0	0	0	6	3	0	0	0	7	0
November	8.0	N.	22	NW.	0	12	9	9	3	0	6	10	10	1	9	8	13	6	2	0	0	0	6	1	0	0	1	0	0
December	8.5	NE.	21	NE.	0	19	17	4	8	2	2	8	1	1	6	7	18	10	7	0	0	0	8	1	0	0	0	0	0
Year	8.1	NE.	35	S.	3	96	125	103	104	78	77	68	74	7	121	115	130	129	96	1	0	0	45	13	0	53	7	69	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

KALISPELL, MONT.

[ϕ=48°10′ N.; λ=114°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: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	26.86	27.37	26.30	23.2	28.0	28.2	31.7	18.4	25.0	46	−4	20	23	24	88	81	84	0.116	0.126	0.132	1.93	0.46	29.3	6.1	8.0	7.4	7.9
February	26.84	27.31	26.32	1.4	10.3	11.8	15.9	−3.4	6.2	48	−28	−3	4	6	81	75	78	.054	.065	.070	2.10	.42	30.7	5.4	6.9	7.3	6.7
March	26.86	27.25	26.39	27.6	36.7	37.2	41.2	23.9	32.6	57	3	22	25	25	79	63	62	.122	.139	.136	1.50	1.00	17.9	5.7	7.3	6.8	6.4
April	26.94	27.21	26.71	35.1	52.5	54.8	57.0	32.4	44.7	85	−8	28	32	33	75	50	48	.166	.192	.194	1.33	.82	.0	4.7	5.6	5.3	5.5
May	26.88	27.16	26.50	47.3	66.7	69.4	72.6	45.2	58.9	95	34	38	40	38	72	41	36	.235	.253	.234	.40	.29	.0	4.3	4.6	5.2	4.9
June	26.91	27.13	26.60	52.0	68.6	69.6	73.1	49.7	61.4	93	33	44	45	46	76	45	47	.298	.303	.323	1.73	.34	.0	5.5	5.1	5.4	5.5
July	26.89	27.11	26.67	55.8	80.7	85.3	87.3	54.2	70.8	98	42	44	44	41	65	29	24	.292	.290	.268	.45	.38	.0	1.6	2.7	2.6	2.5
August	26.94	27.17	26.70	52.0	77.1	80.0	82.2	50.8	66.5	91	39	42	42	40	69	30	26	.273	.267	.251	.47	.28	.0	3.0	3.0	3.6	3.3
September	26.96	27.30	26.55	43.7	62.5	64.2	67.7	40.9	54.3	85	28	38	40	36	80	47	41	.231	.256	.228	1.04	.66	.0	4.3	4.7	5.0	4.8
October	27.03	27.31	26.57	35.3	53.1	53.0	58.0	32.4	45.2	72	19	32	37	38	88	56	58	.184	.223	.235	1.00	.52	5.0	3.5	4.0	4.5	4.1
November	27.24	27.51	26.89	21.6	29.0	28.4	32.0	18.2	25.1	50	1	20	24	25	90	83	87	.105	.131	.136	.42	.21	7.2	5.3	5.9	5.3	6.1
December	26.87	27.32	26.53	24.9	29.2	29.3	33.6	19.7	26.6	52	−2	22	24	25	89	81	83	.125	.135	.139	1.68	.49	13.7	8.5	9.4	8.5	9.1
Year	26.94	27.51	26.30	35.0	49.5	50.9	54.4	31.9	43.1	98	−28	29	32	31	79	57	56	.183	.198	.196	14.05	1.00	94.8	4.8	5.6	5.6	5.6

KANSAS CITY, MO.[1]

[ϕ=39°05′ N.; λ=94°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.27	29.92	28.70	18.2	24.3	23.1	29.5	13.9	21.7	56	−8	14	15	16	82	66	73	0.092	0.100	0.104	1.17	0.69	5.9	5.8	5.7	5.3	6.2
February	29.28	29.69	28.69	12.6	23.4	23.8	29.0	10.3	19.6	74	−7	8	12	15	80	63	69	.076	.090	.103	.55	.23	5.7	5.3	6.0	5.5	6.0
March	29.07	29.47	28.53	38.9	55.6	54.8	61.7	36.1	48.9	79	20	29	29	30	69	37	41	.165	.167	.182	.08	.05	T	3.7	5.2	5.2	4.8
April	29.22	29.60	28.70	45.3	60.4	61.0	66.5	42.1	54.3	91	16	34	34	33	66	42	39	.218	.222	.214	1.89	.45	1.1	4.6	4.8	4.7	4.6
May	29.20	29.54	28.78	63.2	77.2	74.4	81.3	60.5	70.9	90	44	55	54	56	76	46	56	.446	.425	.454	4.16	1.10	.0	5.4	5.0	5.5	5.4
June	29.10	29.41	28.47	69.9	86.0	86.5	91.7	65.2	78.4	107	51	55	54	54	62	36	36	.452	.433	.432	.51	.50	.0	3.3	2.4	2.5	2.9
July	29.12	29.54	28.87	74.6	96.7	97.2	101.0	74.5	87.8	109	58	62	57	56	61	28	26	.562	.484	.455	.36	.36	.0	2.4	2.2	2.0	2.2
August	29.13	29.41	28.89	76.9	94.4	93.5	100.0	74.0	87.0	113	57	61	59	58	60	34	33	.552	.455	.484	.25	.16	.0	3.5	3.3	3.8	3.6
September	29.15	29.55	28.67	66.4	78.5	76.7	82.4	64.7	73.6	104	49	61	60	60	83	58	60	.549	.540	.526	7.99	1.70	.0	6.6	6.0	5.8	6.1
October	29.24	29.77	28.82	50.2	62.3	60.3	66.4	47.9	57.2	84	29	43	45	47	78	54	62	.300	.315	.336	2.01	.73	.0	4.6	5.3	5.3	5.0
November	29.38	29.79	28.69	34.4	49.8	45.8	54.6	30.3	42.4	79	20	27	28	28	74	41	51	.154	.170	.163	.19	.19	T	1.6	3.0	2.2	3.1
December	29.30	29.60	28.53	33.9	40.9	40.4	47.2	30.4	38.8	65	8	28	31	32	81	67	73	.169	.184	.196	2.35	.94	4.2	5.9	6.2	5.2	6.2
Year	29.20	29.92	28.47	48.7	62.5	61.5	67.6	45.8	56.7	113	−8	40	40	40	73	48	52	.311	.299	.305	21.51	1.70	16.9	4.4	4.6	4.4	4.7

KEOKUK, IOWA

[ϕ=40°22′ N.; λ=91°26′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.42	29.96	28.84	13.9	19.2	18.6	25.1	9.4	17.2	56	−18	10	10	13	84	65	78	0.085	0.086	0.095	1.74	0.36	14.6	6.2	6.0	5.9	5.8
February	29.44	29.78	28.82	10.3	17.7	18.1	25.1	6.7	15.9	71	−13	6	7	10	81	60	69	.072	.076	.083	1.89	1.26	5.5	6.0	6.8	5.6	6.0
March	29.24	29.67	28.74	35.7	48.2	48.0	54.6	33.0	43.8	78	17	27	27	28	71	43	47	.151	.151	.162	1.01	.56	T	5.2	5.5	5.7	5.7
April	29.39	29.74	29.00	42.8	54.4	54.5	59.6	39.6	49.6	87	15	32	32	32	65	46	45	.199	.208	.200	1.57	.43	2.9	5.6	5.2	5.1	5.2
May	29.38	29.76	28.93	62.8	73.9	73.6	78.8	58.6	68.7	90	46	52	52	53	70	49	51	.404	.407	.414	2.76	1.47	.0	5.4	5.2	4.5	5.2
June	29.28	29.62	28.64	66.8	80.5	81.6	86.3	61.7	74.0	104	50	54	52	53	64	40	39	.428	.404	.408	1.26	.70	.0	5.7	4.2	4.9	4.8
July	29.27	29.74	29.02	79.5	94.0	94.5	99.0	75.0	87.0	113	61	60	56	56	52	30	29	.531	.467	.463	.01	.01	.0	2.5	3.5	3.1	3.0
August	29.20	29.62	29.04	75.3	89.3	89.2	94.9	71.8	83.4	106	60	61	59	60	64	38	39	.559	.508	.525	.78	.64	.0	4.3	5.2	4.0	4.5
September	29.33	29.76	28.93	65.4	76.2	74.1	80.9	62.4	71.6	100	48	58	58	58	89	56	61	.511	.507	.506	7.59	4.45	.0	7.6	6.1	5.7	6.3
October	29.40	29.88	28.98	49.8	60.9	57.5	64.6	47.3	56.0	83	29	43	44	45	78	55	64	.297	.313	.326	1.80	.56	.0	5.9	6.5	4.3	5.9
November	29.50	29.97	28.90	32.5	43.9	41.7	48.6	30.0	39.3	74	13	25	27	28	74	50	58	.146	.159	.170	.84	.57	.5	3.6	3.9	2.6	4.0
December	29.49	29.85	28.66	31.3	38.6	36.2	43.9	27.2	35.6	64	1	24	25	26	73	57	65	.141	.147	.150	2.81	1.19	1.3	6.1	6.0	4.3	5.9
Year	29.37	29.97	28.64	47.2	58.1	57.3	63.4	43.6	53.5	113	−18	38	37	38	71	49	54	.294	.286	.293	24.06	4.45	24.8	5.3	5.3	4.6	5.2

KEY WEST, FLA.

[ϕ=24°33′ N.; λ=81°48′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.02	30.22	29.80	67.9	74.6	69.5	76.5	65.6	71.0	83	56	64	64	63	86	71	81	0.604	0.622	0.599	2.09	1.84	0.0	3.0	3.4	2.7	3.4
February	29.99	30.31	29.78	68.4	73.6	69.5	75.9	65.2	70.6	82	54	64	65	64	85	74	83	.604	.620	.607	5.45	1.55	.0	5.1	4.9	4.4	5.3
March	29.96	30.12	29.68	70.4	74.9	70.4	77.5	66.2	71.8	85	54	64	64	63	79	70	78	.602	.617	.596	4.36	2.16	.0	4.1	4.0	3.1	3.9
April	30.02	30.22	29.82	75.7	79.8	75.1	82.1	71.3	76.7	87	66	66	67	66	73	65	73	.650	.663	.644	1.02	.85	.0	3.6	3.3	2.3	3.6
May	29.92	30.04	29.69	78.3	81.2	77.1	84.0	73.2	78.6	88	67	70	69	68	75	68	75	.730	.721	.698	3.51	.75	.0	4.1	4.7	4.3	5.0
June	29.88	30.07	29.56	81.5	83.7	80.1	86.7	75.8	81.2	90	72	75	74	74	80	74	80	.855	.855	.825	10.45	3.58	.0	5.6	6.4	6.2	6.1
July	29.99	30.10	29.77	82.8	86.2	82.3	88.3	78.2	83.2	91	72	75	76	75	77	72	78	.862	.889	.856	4.02	.95	.0	4.6	5.1	4.9	5.1
August	29.94	30.07	29.82	83.1	85.0	82.1	88.1	77.5	82.8	90	72	75	76	74	77	74	78	.866	.886	.853	7.52	4.28	.0	4.0	5.0	6.1	5.1
September	29.93	30.03	29.84	82.1	86.6	81.4	88.6	77.3	83.0	92	73	75	75	74	79	68	79	.866	.863	.842	5.19	2.55	.0	4.3	5.0	4.6	5.3
October	29.93	30.08	29.79	81.3	85.1	80.2	87.0	75.8	81.4	91	70	74	74	73	77	69	78	.828	.832	.804	3.80	1.01	.0	2.8	3.8	3.0	3.9
November	30.02	30.30	29.81	73.3	77.8	73.4	79.8	70.0	74.9	88	54	66	67	66	78	69	77	.653	.669	.644	1.38	.65	.0	3.9	5.5	4.9	4.6
December	30.05	30.24	29.89	71.0	76.2	71.5	78.2	68.2	73.2	84	60	66	66	66	84	72	83	.643	.647	.639	1.67	.54	.0	4.3	4.3	2.9	4.5
Year	29.97	30.31	29.56	76.3	80.4	76.0	82.7	72.0	77.4	92	54	70	70	69	79	70	79	.730	.740	.717	50.46	4.28	.0	4.1	4.6	4.1	4.6

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

KALISPELL, MONT.

[H = 2,956 ft.; 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	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.01 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	5.0	NW.	21	SW.	0	3	1	1	8	1	10	17	17	4	3	9	19	13	12	21	13	0	3	0	15	0	30	0	0
February	6.2	NW.	31	N.	0	5	1	4	6	4	6	14	18	0	7	4	18	16	13	18	15	0	0	0	23	0	27	0	0
March	7.1	SW.	27	W.	0	3	0	5	8	3	18	13	12	0	2	18	11	12	6	16	8	0	1	1	4	0	26	0	0
April	6.8	W.	22	SW.	0	3	4	5	8	3	16	10	11	0	9	9	12	9	5	0	0	1	0	0	2	0	6	2	1
May	7.3	W.	26	SW.	0	2	4	6	7	3	9	22	9	0	9	13	9	7	3	0	0	0	0	0	0	3	0	5	1
June	6.9	W.	23	W.	0	5	5	8	9	0	4	16	12	1	7	16	7	16	9	0	0	0	0	0	0	3	0	10	1
July	6.7	W.	21	S.	0	1	1	8	6	3	5	20	18	0	20	10	1	4	2	0	0	0	0	0	0	14	0	7	0
August	6.4	W.	19	W.	0	1	2	5	12	1	3	25	13	0	16	14	1	6	2	0	0	0	0	0	0	2	0	3	0
September	6.4	W.	24	NW.	0	4	3	6	6	3	3	20	13	2	12	9	9	7	3	0	0	0	0	0	0	0	4	2	1
October	5.8	NW.	21	NE.	0	5	2	7	8	2	5	16	18	1	15	8	8	4	4	2	1	0	0	0	0	0	16	1	1
November	4.3	W.	18	N.	0	4	3	4	4	5	2	17	16	5	11	3	16	6	3	5	4	0	13	11	19	0	30	0	0
December	5.6	NW.	31	N.	0	6	0	2	6	5	3	21	16	3	0	5	26	18	11	17	12	0	3	0	13	0	26	0	0
Year	6.2	W.	31	N.	0	42	26	61	88	33	84	211	171	16	111	118	137	118	73	79	52	1	20	12	76	22	165	31	5

KANSAS CITY, MO.[1]

[H = 741 ft., H_b = 750 ft.; h_t = 32 ft.; h_r = 3 ft.; h_a = 45 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.9	NW.	32	N.	1	9	10	7	4	3	10	5	14	0	7	10	14	10	6	17	9	0	8	1	15	0	29	0	0
February	11.0	NE.	34	SW.	2	10	13	10	2	4	5	6	8	0	8	9	12	8	5	11	8	0	3	0	18	0	25	1	0
March	12.3	SW.	38	W.	7	6	12	5	4	7	12	7	9	0	10	14	7	2	1	1	0	0	0	0	0	0	10	1	0
April	11.5	N.	34	SW.	3	16	8	4	5	11	9	1	5	1	13	9	8	12	10	3	3	1	3	0	1	1	6	5	0
May	9.2	SW.	34	SW.	1	10	9	2	6	12	13	3	7	0	8	14	9	10	10	0	0	2	4	3	0	1	0	6	0
June	10.2	SW.	34	SW.	2	9	15	6	4	7	15	2	2	0	19	9	2	3	1	0	0	0	0	0	0	17	0	3	0
July	9.2	SW.	56	NW.	2	8	10	8	0	6	23	2	5	0	26	5	0	2	1	0	0	0	2	0	0	29	0	3	0
August	9.1	SW.	34	SW.	2	5	6	13	5	12	16	1	3	1	18	8	5	4	2	0	0	0	1	1	0	27	0	6	0
September	9.0	S.	31	NW.	0	8	11	13	4	13	4	2	4	1	7	10	13	16	14	0	0	0	5	1	0	13	0	10	0
October	10.2	SW.	35	N.	3	13	6	1	4	13	18	3	4	0	14	6	11	8	6	0	0	0	5	4	0	0	1	4	0
November	11.0	SW.	36	N.	3	10	3	7	1	5	17	4	13	0	19	7	4	2	1	1	0	0	4	3	0	0	20	0	0
December	10.1	SW.	36	NW.	1	9	10	5	6	7	19	3	3	0	8	8	15	7	4	5	4	0	10	2	1	0	20	1	0
Year	10.2	SW.	56	NW.	27	113	113	81	45	100	161	39	77	3	157	109	100	84	61	38	24	3	45	15	35	88	111	40	0

KEOKUK, IOWA

[H = 574 ft.; H_b = 614 ft.; h_t = 64 ft.; h_r = 56 ft.; h_a = 78 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.3	NW.	28	NW.	0	11	4	8	4	2	9	11	12	1	11	8	12	16	11	18	15	0	2	0	18	0	29	0	0
February	9.4	W.	27	W.	0	12	9	6	5	3	2	14	7	0	8	7	14	12	7	13	8	0	1	0	19	0	26	2	0
March	9.8	N.	38	NW.	1	11	4	6	7	6	8	9	10	1	11	8	12	4	4	1	1	1	0	0	0	0	13	1	0
April	8.7	NW.	27	NW.	0	12	8	3	11	5	8	4	9	0	12	8	10	12	10	4	4	0	2	0	1	0	8	1	0
May	7.5	S.	21	SW.	0	5	8	5	12	14	7	6	1	1	10	11	10	5	5	0	0	0	2	1	0	1	0	5	0
June	7.7	NE.	28	NW.	0	14	9	8	5	8	8	6	1	1	13	8	9	8	6	0	0	0	0	0	0	12	0	6	1
July	7.0	SW.	21	SW.	0	4	15	6	7	5	19	4	1	1	21	7	3	1	0	0	0	0	0	0	0	23	0	5	0
August	7.0	SW.	21	NE.	0	3	9	6	16	4	17	1	3	3	14	11	6	6	2	0	0	0	2	1	0	22	0	9	0
September	7.4	E.	21	N.	0	5	12	10	7	12	7	1	2	4	8	8	14	13	11	0	0	0	2	0	0	8	0	7	0
October	7.8	SW.	23	S.	0	7	8	0	3	11	17	5	7	4	8	11	12	7	6	0	0	0	5	1	0	0	3	4	0
November	8.8	SW.	24	W.	0	4	2	4	4	5	14	9	16	2	15	7	8	3	3	3	1	0	1	1	1	0	21	1	0
December	8.2	SW.	27	W.	0	4	5	6	8	10	14	2	11	2	11	6	14	7	4	2	1	0	2	0	4	0	24	1	0
Year	8.1	SW.	38	NW.	1	92	93	68	89	85	130	72	83	20	142	100	124	94	69	41	30	1	19	4	43	66	124	42	1

KEY WEST, FLA.

[H = 5 ft.; H_b = 22 ft.; h_t = 10 ft.; h_r = 3 ft.; h_a = 64 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.0	NE.	28	W.	0	9	15	18	11	5	3	0	1	0	26	7	4	4	3	0	0	0	1	1	0	0	0	2	0
February	10.8	SE.	32	NW.	1	11	12	8	12	11	2	0	2	0	9	11	9	11	9	0	0	0	1	1	0	0	0	5	0
March	10.9	SE.	37	NW.	1	7	4	19	13	4	4	2	9	0	15	12	4	6	4	0	0	0	0	0	0	0	0	3	0
April	10.4	E.	22	N.	0	13	11	20	9	2	1	1	3	0	19	6	5	3	2	0	0	0	0	0	0	0	0	1	0
May	10.0	E.	29	W.	0	6	14	27	3	3	2	5	2	0	11	11	9	12	11	0	0	0	0	0	0	0	0	4	0
June	9.2	SE.	32	W.	1	4	4	14	16	13	4	3	2	0	4	16	10	19	15	0	0	0	0	0	0	2	0	12	0
July	9.8	E.	38	NW.	2	3	3	27	15	7	4	2	1	0	11	13	7	11	10	0	0	0	0	0	0	6	0	8	0
August	8.5	E.	26	SE.	0	4	12	31	11	2	0	1	1	0	12	11	8	22	16	0	0	0	0	0	0	2	0	16	0
September	7.2	E.	24	SE.	0	10	2	38	4	4	1	1	0	0	9	12	9	13	7	0	0	0	0	0	0	5	0	14	0
October	8.0	NE.	24	SE.	0	11	16	21	8	1	0	2	3	0	15	12	4	14	10	0	0	0	0	0	0	1	0	8	0
November	10.5	NE.	21	N.	0	9	35	10	0	1	1	2	2	0	12	13	5	8	6	0	0	0	0	0	0	0	0	2	0
December	9.7	NE.	24	NW.	0	7	21	19	6	3	0	3	3	0	15	9	7	9	6	0	0	0	1	0	0	0	0	0	0
Year	9.6	E.	38	NW.	5	94	149	252	108	56	22	22	29	0	152	133	81	132	99	0	0	0	3	2	0	16	0	75	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

KNOXVILLE, TENN.

[ϕ=35°58′N.; λ=83°55′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.99	29.44	28.23	30.7	38.3	37.2	43.2	26.3	34.8	64	2	27	29	30	84	69	76	0.170	0.179	0.183	7.84	2.36	5.5	6.5	5.5	5.1	6.0
February	29.03	29.36	28.46	31.9	40.8	41.7	46.7	28.8	37.8	73	10	29	33	35	87	74	76	.173	.204	.217	4.36	2.04	14.4	6.9	5.4	5.2	5.9
March	28.86	29.16	28.42	44.5	57.9	56.2	63.4	42.0	52.7	78	29	40	41	41	83	57	60	.256	.274	.274	7.96	2.50	2.6	5.1	5.3	3.9	5.6
April	29.01	29.37	28.51	50.8	62.3	59.8	68.1	46.4	57.2	87	28	41	40	40	71	47	52	.277	.267	.266	4.76	2.11	T	5.9	4.5	4.9	5.1
May	29.02	29.40	28.70	65.0	79.3	77.1	84.4	59.5	72.0	94	49	54	49	50	68	37	41	.419	.362	.377	.76	.32	.0	2.5	2.2	3.1	2.6
June	28.88	29.15	28.64	73.6	87.7	84.5	92.4	67.0	79.7	101	51	59	55	56	61	34	40	.506	.446	.458	1.39	.70	.0	1.2	2.2	3.4	2.5
July	28.94	29.18	28.73	75.2	85.5	82.3	89.9	71.0	80.4	101	61	68	67	68	79	56	63	.692	.678	.687	7.94	5.37	.0	4.3	5.1	5.8	5.1
August	29.01	29.19	28.81	73.3	86.0	81.9	90.7	69.7	80.2	99	57	67	67	68	81	55	64	.668	.669	.694	1.97	.90	.0	4.0	3.6	4.0	3.6
September	29.01	29.22	28.78	68.7	82.3	77.8	86.7	65.5	76.1	93	53	63	63	65	82	53	65	.589	.583	.622	2.13	.71	.0	3.5	3.1	3.1	3.7
October	29.05	29.32	28.65	55.0	68.3	63.3	71.7	52.2	62.0	83	39	51	52	53	88	59	71	.396	.414	.426	2.06	.74	.0	4.7	4.5	4.2	4.9
November	29.10	29.42	28.74	40.1	52.5	48.7	56.7	37.2	47.0	81	20	35	37	37	83	56	64	.217	.235	.233	1.20	.69	.6	5.2	4.9	3.8	4.9
December	29.13	29.52	28.73	39.3	48.9	47.2	53.1	36.7	44.9	68	23	34	37	38	82	64	71	.208	.228	.238	6.21	2.50	.6	6.3	6.5	5.8	6.6
Year	29.00	29.52	28.23	54.0	65.8	63.1	70.6	50.2	60.4	101	2	47	48	48	79	55	62	.381	.378	.390	48.58	5.37	23.7	4.7	4.4	4.4	4.7

LA CROSSE, WIS.

[ϕ=43°49′ N.; λ=91°15′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.27	29.80	28.65	5.9	12.8	11.6	17.5	1.7	9.6	37	−28	4	7	8	90	77	84	0.067	0.072	0.074	0.90	0.28	10.0	6.9	6.4	5.9	6.0
February	29.30	29.64	28.56	−.6	8.9	6.9	14.2	−5.6	4.3	42	−23	−3	3	3	90	74	81	.047	.055	.058	2.02	.63	27.1	6.7	6.8	7.1	6.4
March	29.07	29.58	28.53	29.2	36.9	35.4	42.7	26.3	34.5	69	4	24	25	26	82	62	70	.136	.144	.149	2.45	.84	9.4	6.4	6.3	7.1	6.8
April	29.26	29.62	28.88	37.3	46.7	46.2	51.5	33.9	42.7	75	13	30	30	31	75	54	58	.175	.178	.188	2.55	1.68	5.5	6.7	6.4	5.9	6.6
May	29.22	29.60	28.68	59.5	72.0	70.1	75.5	55.3	65.4	90	39	51	50	51	76	48	52	.393	.384	.384	3.16	1.35	.0	5.4	5.5	5.5	5.5
June	29.17	29.57	28.50	60.6	74.3	72.3	78.0	56.3	67.2	90	45	52	53	54	75	50	54	.397	.421	.425	2.06	.48	.0	4.9	4.7	5.3	5.5
July	29.16	29.65	28.91	70.4	88.9	85.8	92.6	66.4	79.5	108	49	60	61	59	72	41	42	.538	.544	.517	1.61	.71	.0	2.6	3.0	2.9	3.0
August	29.18	29.48	28.86	65.7	82.7	79.4	86.4	63.2	74.8	100	51	58	60	60	78	48	55	.497	.513	.538	4.08	2.21	.0	5.8	4.3	5.0	5.2
September	29.22	29.68	28.92	58.3	72.2	67.2	75.0	55.4	65.2	91	41	55	58	58	90	62	72	.456	.500	.498	5.35	2.53	.0	4.8	4.8	4.3	4.7
October	29.25	29.82	28.79	41.4	54.2	48.7	57.1	37.8	47.4	76	20	37	39	40	85	58	71	.236	.255	.259	2.77	1.27	.0	6.3	5.1	6.0	5.6
November	29.32	29.89	28.67	27.9	37.8	34.5	41.2	24.2	32.7	62	12	23	26	26	82	62	70	.129	.147	.143	.86	.56	1.6	5.4	6.0	4.9	5.6
December	29.31	29.73	28.30	23.3	29.5	27.8	34.7	17.7	26.2	55	−12	19	23	22	84	75	76	.121	.137	.129	1.47	.67	5.4	5.9	7.1	7.0	6.9
Year	29.23	29.89	28.30	39.9	51.4	48.8	55.5	36.0	45.8	108	−28	34	36	36	82	59	65	.266	.279	.280	29.28	2.53	59.0	5.6	5.5	5.6	5.6

LANDER, WYO.

[ϕ=42°50′ N.; λ=108°45′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	24.52	24.82	24.06	15.1	28.7	26.4	25.2	10.0	22.6	52	−13	10	16	18	80	59	72	0.070	0.090	0.008	0.26	0.19	2.9	2.3	4.5	5.2	4.6
February	24.41	24.84	23.77	4.2	15.8	15.5	26.5	−2.4	12.0	58	−40	0	7	9	83	70	76	.049	.062	.071	.57	.28	7.2	3.3	4.7	4.8	4.9
March	24.51	24.84	24.07	24.8	41.3	41.2	47.5	19.8	33.6	65	1	16	17	16	69	40	40	.089	.093	.089	1.32	.89	14.3	4.1	5.1	5.5	5.3
April	24.64	24.88	24.15	30.3	52.1	53.0	58.1	30.9	44.5	77	−11	25	27	26	72	41	42	.146	.150	.147	1.39	.42	3.3	5.1	5.2	5.9	5.5
May	24.65	24.91	24.24	46.7	69.0	70.1	74.1	42.5	58.3	89	32	30	28	28	55	23	23	.172	.156	.158	.83	.35	.0	2.2	4.0	4.6	4.0
June	24.68	24.92	24.27	55.9	75.3	76.5	80.9	51.5	66.2	95	41	41	42	39	61	33	31	.264	.275	.248	1.77	.84	.0	3.0	4.4	4.8	4.2
July	24.72	24.95	24.46	61.2	83.2	82.1	88.1	58.3	73.2	98	51	47	44	45	62	29	32	.325	.302	.314	2.28	1.51	.0	3.4	4.2	5.8	4.6
August	24.74	24.97	24.52	55.2	77.9	78.2	83.2	52.5	67.8	96	41	44	42	44	67	31	34	.294	.277	3.00	1.09	.74	.0	2.8	4.3	4.3	4.1
September	24.69	25.00	24.30	44.0	67.4	68.4	73.1	40.0	56.6	88	23	31	28	28	62	27	26	.178	.160	.158	.96	.94	3.0	1.8	2.7	3.2	2.7
October	24.73	25.00	24.26	36.0	51.6	50.7	57.2	31.3	44.2	77	11	28	30	31	74	48	52	.153	.162	.175	2.75	1.20	6.4	3.9	4.9	5.0	5.1
November	24.83	25.10	24.30	23.9	41.1	35.0	45.2	18.9	32.0	63	−5	19	23	22	80	52	60	.100	.127	.120	.35	.21	4.4	2.4	3.3	3.8	3.1
December	24.56	24.86	24.18	18.5	32.3	27.4	37.3	12.2	24.8	50	−14	13	17	15	78	52	60	.076	.093	.087	.32	.32	5.0	3.0	4.8	4.8	4.2
Year	24.64	25.10	23.77	34.6	53.0	52.0	58.9	30.5	44.6	98	−40	25	27	27	70	42	46	.160	.162	.164	13.89	1.51	46.5	3.1	4.3	4.8	4.4

LANSING, MICH.

[ϕ=42°44′ N.; λ=84°26′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.02	29.58	28.40	17.8	23.1	20.4	25.7	13.0	19.4	41	−9	15	18	18	89	79	87	0.092	0.104	0.104	1.78	0.54	17.2	9.3	8.7	8.7	9.2
February	29.07	29.45	28.09	8.4	17.7	14.9	21.4	4.2	12.8	46	−14	6	10	11	91	71	82	.069	.076	.077	1.62	.42	16.9	6.4	7.3	6.4	7.3
March	28.91	29.43	28.36	31.2	41.4	36.9	44.5	27.3	35.9	69	8	26	29	26	78	62	65	.143	.167	.146	.83	.19	5.0	6.5	7.3	6.3	7.1
April	29.06	29.52	28.52	36.0	46.4	43.5	49.5	32.7	41.1	74	16	29	32	35	76	58	72	.174	.197	.222	3.37	1.19	7.8	7.3	8.1	7.8	7.8
May	29.11	29.58	28.55	56.3	69.9	65.0	72.8	48.6	60.7	88	33	48	50	50	75	50	60	.357	.374	.384	.78	.44	.0	4.6	5.1	4.9	5.5
June	29.01	29.39	28.42	60.1	72.0	69.0	75.7	52.6	64.2	85	44	52	55	54	74	57	61	.392	.445	.434	2.98	1.63	.0	5.0	5.2	4.8	4.6
July	29.03	29.45	28.76	66.2	83.0	78.8	85.0	59.6	72.3	101	49	57	58	59	73	44	52	.482	.505	.522	1.22	.96	.0	1.9	3.4	2.5	2.9
August	29.07	29.41	28.82	64.0	79.1	75.4	82.4	59.5	71.0	94	51	58	56	58	80	49	56	.489	.471	.488	2.42	.82	.0	5.3	5.2	4.0	4.7
September	29.11	29.52	28.77	57.0	70.2	64.8	72.8	53.0	62.9	86	34	54	56	58	90	62	79	.443	.472	.504	7.76	1.42	.0	4.2	5.5	4.5	5.1
October	29.10	29.54	28.47	42.7	55.0	49.0	57.4	38.8	48.1	73	19	39	42	43	88	64	79	.259	.295	.295	2.24	.56	.5	6.0	6.2	5.3	6.1
November	29.11	29.72	28.55	30.8	37.7	33.6	40.6	26.5	33.6	64	9	26	27	27	80	65	74	.150	.160	.154	.66	.52	.7	7.5	7.0	6.5	7.6
December	29.19	29.61	28.50	27.1	34.9	31.2	37.0	22.5	29.8	58	6	24	28	27	89	76	84	.139	.164	.154	1.99	.70	5.5	6.0	7.2	6.3	6.9
Year	29.07	29.72	28.09	41.5	52.5	48.5	55.4	36.5	46.0	101	−14	36	38	39	82	61	71	.266	.286	.290	27.65	1.63	53.6	5.8	6.4	5.7	6.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

KNOXVILLE, TENN.

[H=921 ft.; H_b=995 ft.; h_t=66 ft.; h_r=57 ft.; h_a=84 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	6.3	W.	25	W.	0	2	10	12	5	3	11	12	5	2	12	6	13	13	11	8	4	0	16	8	8	0	18	2	0
February	6.5	E.	22	W.	0	2	12	14	1	3	8	12	6	0	11	5	13	15	12	8	6	0	14	2	2	0	16	0	0
March	6.6	W.	27	NW.	0	6	7	19	3	2	11	13	1	0	7	12	12	13	11	3	1	0	12	4	0	0	4	5	0
April	7.1	W.	25	W.	0	3	9	10	1	3	6	21	4	3	10	11	9	10	8	2	0	0	10	0	0	0	4	4	0
May	5.0	NE.	21	W.	0	5	13	11	5	3	4	13	1	7	19	10	2	5	4	0	0	0	4	0	0	0	5	0	0
June	6.0	NE.	27	W.	0	4	14	10	2	4	15	6	3	2	22	7	1	5	5	0	0	1	3	0	0	23	0	6	0
July	5.7	SW.	20	NE.	0	2	7	9	4	5	14	16	3	2	10	12	9	10	8	0	0	0	11	0	0	17	0	9	0
August	5.0	SW.	27	NE.	0	1	5	18	3	3	11	15	2	4	19	8	4	11	7	0	0	0	14	0	0	20	0	9	0
September	4.7	E.	17	NW.	0	2	12	17	4	4	6	7	1	7	18	7	5	6	5	0	0	0	16	0	0	9	0	3	0
October	5.2	NE.	18	W.	0	4	11	15	3	2	8	8	7	4	13	7	11	11	9	0	0	0	21	2	0	0	0	0	0
November	6.3	W.	20	NW.	0	5	9	9	1	1	12	18	4	1	12	8	10	8	7	4	1	0	11	4	1	0	7	0	0
December	5.6	E.	19	W.	0	4	19	19	2	2	6	5	3	2	8	7	16	13	12	1	1	0	17	3	0	0	11	0	0
Year	5.8	W.	27	NW.	0	40	128	163	34	35	112	146	40	34	161	100	105	120	99	26	13	1	149	23	11	74	60	41	0

LA CROSSE, WIS.

[H=674 ft.; H_b=714 ft.; h_t=11 ft.; h_r=3 ft.; h_a=48 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	5.3	NW.	18	NW.	0	7	0	1	8	9	3	18	16	0	10	6	15	13	9	17	13	0	20	0	24	0	29	0	0
February	5.7	W.	18	SW.	0	7	3	0	4	7	7	17	11	2	7	5	17	16	9	18	16	0	15	0	24	0	28	0	0
March	6.8	NW.	23	SW.	0	4	3	0	10	5	14	11	15	0	5	11	15	13	10	13	9	1	15	0	6	0	22	2	0
April	7.0	NW.	24	NW.	0	7	3	1	5	12	3	11	18	0	7	7	16	11	8	7	4	1	10	0	5	0	11	1	0
May	5.7	S.	24	SW.	0	5	0	2	10	22	9	5	9	0	9	8	14	12	9	0	0	0	9	1	0	1	0	9	0
June	4.9	S.	22	NW.	0	11	3	3	10	13	2	7	11	0	9	11	10	8	6	0	0	0	9	2	0	2	0	4	2
July	4.6	SE.	15	NE.	0	5	6	7	11	10	10	7	5	1	18	8	5	6	5	0	0	0	4	0	0	16	0	10	2
August	4.6	S.	16	N.	0	7	3	6	8	16	4	9	8	1	9	13	9	12	10	0	0	1	15	3	0	12	0	9	0
September	4.6	S.	15	S.	0	6	4	1	14	21	4	4	6	0	14	8	8	10	7	0	0	0	22	6	0	1	0	6	2
October	6.1	S.	21	NW.	0	5	2	2	7	18	8	5	15	0	13	4	14	7	4	0	0	0	17	5	0	0	8	2	0
November	6.8	NW.	21	NW.	0	5	1	4	5	14	7	7	16	1	10	6	14	3	3	7	1	0	8	4	5	0	25	0	0
December	6.1	S.	21	SW.	0	2	1	0	15	19	6	11	8	0	9	3	19	8	6	9	4	0	23	1	11	0	27	0	0
Year	5.7	S.	24	NW.	0	71	29	27	107	166	77	112	138	5	120	90	156	119	86	71	47	3	167	22	75	32	150	43	6

LANDER, WYO.

[H=5,370 ft.; H_b=5,372 ft.; h_t= 60 ft.; h_r=54 ft.; h_a=68 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	5.4	SW.	40	SW.	2	4	7	8	5	2	17	7	5	7	11	15	5	4	2	8	4	0	1	1	11	0	31	0	0
February	5.9	SW.	38	SW.	3	8	6	15	1	7	7	10	1	3	8	18	3	6	3	12	6	0	2	1	17	0	29	0	0
March	6.9	SW.	46	SW.	5	3	7	3	5	10	12	13	6	3	7	19	5	5	4	8	5	0	0	0	6	0	29	0	0
April	6.0	SW.	32	SW.	1	1	9	3	3	1	19	19	2	3	5	20	5	8	7	4	4	0	0	0	4	0	10	0	0
May	6.8	SW.	38	SW.	2	5	4	9	1	4	22	13	2	2	12	18	1	4	4	0	0	0	0	0	0	0	0	3	0
June	5.9	SW.	35	SW.	1	4	5	2	2	9	16	15	5	2	13	11	6	7	6	0	0	0	0	0	0	9	0	4	0
July	5.8	SW.	32	SW.	1	4	2	2	5	5	21	12	3	8	10	17	4	8	6	0	0	0	0	0	0	18	0	8	0
August	5.3	SW.	30	SW.	0	4	3	2	5	4	16	18	7	3	14	14	3	6	6	0	0	0	0	0	0	7	0	11	0
September	5.5	SW.	28	SW.	0	5	8	3	2	4	17	13	2	6	19	9	2	3	2	2	2	0	0	0	0	0	6	0	0
October	4.4	SW.	22	N.	0	0	5	6	5	5	23	9	8	1	12	8	11	7	7	5	5	0	0	0	2	0	16	0	0
November	4.0	SW.	16	NE.	0	6	8	2	3	6	15	13	3	4	19	7	4	4	3	5	4	0	0	0	5	0	30	0	0
December	4.6	SW.	24	SW.	0	5	8	4	4	8	21	7	4	1	15	14	2	2	2	5	2	0	0	0	6	0	31	0	0
Year	5.5	SW.	46	SW.	15	49	72	59	41	65	206	149	48	43	145	170	51	64	52	49	32	0	3	2	51	34	182	26	0

LANSING, MICH.

[H=856 ft.; H_b=878 ft.; h_t=5 ft.; h_r=3 ft.; h_a=90 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.0	SW.	30	W.	0	5	3	5	7	8	15	16	3	0	0	2	29	15	10	27	14	0	0	0	19	0	30	0	0
February	10.6	SW.	36	W.	2	5	2	7	6	4	16	12	6	0	7	5	17	16	10	20	15	0	2	1	22	0	27	0	0
March	10.8	W.	33	SW.	1	8	0	5	12	8	8	10	9	2	6	7	18	12	8	10	7	0	1	0	4	0	23	1	0
April	10.0	NW.	28	NW.	0	2	5	8	5	7	6	6	20	1	3	8	19	16	12	9	6	0	2	0	2	0	14	2	0
May	9.0	SW.	27	NW.	0	4	2	4	5	12	14	10	10	1	8	15	8	8	6	0	0	0	1	0	0	0	0	4	0
June	7.4	N.	23	W.	0	8	14	5	6	5	6	6	8	2	9	13	8	7	5	0	0	0	1	0	0	0	0	6	0
July	6.6	NW.	21	N.	0	11	11	8	5	7	6	6	8	0	17	13	1	4	3	0	0	0	0	0	0	0	8	0	3
August	7.4	W.	22	W.	0	8	7	5	7	8	8	8	10	1	12	11	8	11	9	0	0	0	1	0	0	0	6	0	9
September	7.0	E.	20	SW.	0	4	6	12	8	14	7	4	4	1	9	12	9	14	14	0	0	0	3	1	0	0	0	8	0
October	8.7	S.	27	W.	0	7	1	2	4	20	14	5	9	0	8	11	12	15	11	1	1	0	7	0	0	0	7	2	0
November	10.6	SW.	28	NW.	0	4	5	1	3	6	17	7	17	0	5	6	19	7	2	13	4	0	2	0	6	0	23	0	0
December	10.1	SW.	29	S.	0	5	4	3	11	10	17	4	8	0	6	8	17	11	8	11	5	0	6	3	8	0	25	0	0
Year	9.0	SW.	36	W.	3	71	60	65	79	109	134	94	112	8	90	111	165	136	98	91	52	0	26	5	61	14	149	35	0

TABLE 16.—*Annual meteorological summary for the year ending Dec. 31, 1936*—Continued

LINCOLN, NEBR.

[ϕ=40°49′ N.; λ=96°45′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.79	29.41	28.16	9.7	17.9	16.3	22.9	5.2	14.0	47	−19	6	11	11	85	74	80	0.070	0.081	0.082	1.64	0.46	19.3	5.4	7.3	6.3	6.5
February	28.81	29.17	28.10	3.4	12.2	12.2	17.5	.2	8.8	53	−20	−1	5	6	80	70	75	.051	.062	.071	.68	.22	9.4	5.4	6.2	6.5	6.2
March	28.59	29.07	27.94	34.8	50.5	48.6	56.5	32.1	44.3	75	18	26	26	26	71	40	44	.144	.149	.149	.18	.18	T	5.1	4.4	4.1	4.5
April	28.76	29.13	28.29	40.3	56.7	55.8	62.2	36.9	49.6	89	9	28	29	30	64	40	43	.174	.181	.186	2.29	1.73	2.2	4.7	5.3	5.2	5.2
May	28.71	29.05	28.22	60.5	74.6	73.3	78.9	57.5	68.2	90	42	52	52	54	74	49	52	.394	.405	.426	1.95	1.33	.0	5.2	6.0	4.5	5.5
June	28.65	29.00	27.89	66.6	82.8	81.8	88.0	61.1	74.6	108	46	53	53	53	61	39	40	.416	.420	.424	1.13	.54	.0	3.9	4.7	2.9	3.9
July	28.65	29.11	28.29	77.5	96.7	96.7	101.1	74.7	87.9	115	59	56	52	50	49	24	22	.454	.399	.373	.08	.04	.0	1.1	3.0	2.8	2.6
August	28.66	28.92	28.38	72.3	92.1	90.2	96.9	69.5	83.2	110	57	58	56	55	63	32	35	.489	.472	.456	1.63	.74	.0	4.7	4.9	3.7	4.3
September	28.69	29.14	28.19	62.9	77.8	74.4	82.4	60.7	71.6	101	44	56	54	54	81	48	54	.480	.449	.447	3.38	1.60	.0	4.3	4.5	4.2	4.7
October	28.77	29.32	28.23	45.7	60.0	57.4	65.3	41.7	53.5	85	23	37	39	39	73	46	52	.236	.252	.258	.19	.18	T	3.9	4.4	3.9	4.1
November	28.89	29.32	28.29	31.6	47.4	42.8	52.2	27.5	39.8	75	11	24	25	25	71	44	50	.131	.135	.133	.06	.04	T	3.1	3.9	3.5	3.4
December	28.80	29.14	28.16	29.0	36.0	33.9	40.1	23.6	31.8	62	0	24	26	27	81	67	74	.138	.152	.151	.88	.57	2.6	5.1	7.0	6.0	6.2
Year	28.73	29.41	27.89	44.5	58.7	57.0	63.7	40.9	52.3	115	−20	35	36	36	71	48	52	.265	.263	.262	14.09	1.73	33.5	4.3	5.1	4.5	4.8

LITTLE ROCK, ARK.

[ϕ=34°45′ N; λ=92°16′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.70	30.29	29.21	31.5	41.1	41.7	46.6	29.9	38.2	71	10	24	26	27	75	55	57	0.141	0.148	0.162	0.93	0.42	1.4	4.7	5.4	4.6	5.3
February	29.72	30.15	29.08	32.2	39.1	40.8	45.1	28.6	36.8	76	5	25	26	27	74	63	59	.163	.165	.162	1.30	.55	4.1	6.4	5.2	5.3	5.6
March	29.54	29.86	29.19	50.3	62.3	63.1	67.9	48.2	58.0	80	37	39	39	40	66	45	45	.251	.256	.268	2.35	1.49	.0	5.4	4.5	4.1	4.4
April	29.67	30.04	29.05	52.2	65.1	66.2	70.9	48.8	59.8	87	30	40	40	40	66	43	44	.280	.284	.284	3.10	1.58	.0	5.9	5.0	4.7	5.3
May	29.65	29.90	29.37	66.2	77.5	77.6	81.2	63.1	72.2	86	53	58	56	57	76	50	52	.497	.469	.483	1.24	.46	.0	7.1	5.8	4.8	5.5
June	29.54	29.75	29.20	73.2	87.4	87.4	91.8	69.5	80.6	105	62	62	61	62	69	44	46	.569	.555	.573	3.27	2.42	.0	2.1	2.8	3.2	2.7
July	29.58	29.83	29.33	76.1	87.3	87.5	91.8	73.3	82.6	104	65	70	70	71	83	58	60	.746	.746	.774	7.51	3.63	.0	5.3	5.2	4.5	4.8
August	29.60	29.78	29.33	76.4	91.4	90.5	95.3	74.5	84.9	110	65	68	67	68	77	46	49	.705	.675	.685	.27	.27	.0	2.4	3.2	3.4	3.0
September	29.60	29.81	29.30	71.3	84.4	83.0	89.0	69.7	79.4	98	56	67	67	66	87	57	59	.683	.684	.664	1.92	.63	.0	5.9	6.1	4.8	5.6
October	29.70	30.04	29.44	54.4	67.5	66.0	71.8	52.5	62.2	85	36	50	51	51	86	58	60	.376	.385	.387	4.42	1.64	.0	5.0	4.8	3.5	4.8
November	29.84	30.16	29.39	42.4	53.8	52.6	59.0	40.1	49.6	82	27	35	34	35	74	49	54	.215	.214	.226	3.67	2.17	T	4.6	3.3	3.5	4.1
December	29.78	30.07	29.25	41.1	49.9	49.5	54.2	38.0	46.1	68	24	36	37	36	83	64	63	.231	.237	.230	4.90	2.74	T	6.5	6.1	5.0	6.4
Year	29.66	30.29	29.05	55.6	67.2	67.2	72.0	53.0	62.5	110	5	48	48	48	76	53	54	.405	.402	.408	34.88	3.63	5.5	5.1	4.8	4.3	4.8

LOS ANGELES, CALIF.

[ϕ=34°03′ N.; λ=118°15′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.68	29.95	29.46	53.1	64.9	62.1	67.7	51.0	59.4	79	44	35	34	38	56	38	47	0.216	0.215	0.248	0.51	0.28	0.0	3.6	4.7	4.7	4.8
February	29.66	29.92	29.41	51.1	61.5	59.5	63.6	49.4	56.5	83	43	45	44	46	80	57	65	.304	.299	.318	7.25	1.50	.0	5.3	5.6	5.6	5.8
March	29.61	29.87	29.24	52.8	64.4	62.0	67.4	50.7	59.0	85	42	45	44	46	80	52	59	.313	.304	.321	1.34	1.05	.0	4.9	4.4	3.0	4.3
April	29.66	29.91	29.54	53.5	65.7	64.0	69.2	52.1	60.6	90	46	48	48	49	85	56	61	.345	.341	.353	.95	.82	.0	5.8	4.1	2.6	4.7
May	29.57	29.74	29.42	58.4	71.6	69.1	73.9	57.3	65.6	83	53	51	51	52	78	50	56	.383	.383	.386	.00	.00	.0	4.9	2.2	1.1	3.0
June	29.52	29.70	29.31	61.4	75.8	73.3	77.9	60.0	69.0	90	53	57	57	56	86	53	56	.468	.471	.462	.20	.10	.0	5.2	1.3	1.3	2.6
July	29.51	29.64	29.31	66.3	81.2	76.4	83.0	65.2	74.1	97	61	61	60	60	84	50	59	.536	.522	.525	.01	.01	.0	5.5	2.7	1.9	3.6
August	29.52	29.73	29.41	65.0	80.5	77.5	82.7	64.1	73.4	93	60	61	61	60	88	52	56	.539	.532	.527	.02	.02	.0	6.1	1.2	1.0	2.7
September	29.50	29.65	29.32	62.4	77.5	73.1	79.6	61.4	70.5	88	58	56	56	58	82	49	59	.458	.457	.478	.03	.03	.0	4.1	1.2	.9	2.2
October	29.58	29.74	29.32	60.3	74.7	69.2	76.4	58.5	67.4	96	55	51	48	52	75	47	60	.383	.362	.407	1.25	.38	.0	4.5	3.4	3.0	3.5
November	29.70	30.03	29.53	59.9	75.6	70.9	78.4	57.1	67.8	90	49	34	33	38	42	26	34	.207	.203	.243	.05	.05	.0	2.1	2.1	2.3	2.2
December	29.67	29.96	29.29	53.4	64.2	61.5	67.1	50.2	58.6	79	39	36	37	42	60	44	56	.236	.243	.290	6.63	1.96	.0	3.6	4.6	3.5	4.5
Year	29.60	30.03	29.24	58.1	71.5	68.2	73.9	56.4	65.2	97	39	48	48	50	75	48	56	.366	.361	.380	18.24	1.96	.0	4.6	3.1	2.6	3.7

LOUISVILLE, KY

[ϕ=38°15′ N.; λ=85°45′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.50	30.04	29.01	24.2	29.6	29.5	35.7	19.9	27.8	60	−11	20	20	19	80	67	66	0.124	0.131	0.122	1.59	0.66	6.1	7.1	6.6	6.4	6.7
February	29.53	29.83	28.74	24.9	32.8	33.4	38.9	20.2	29.6	69	−7	19	23	24	77	68	70	.124	.147	.148	2.10	.93	4.9	6.6	5.8	5.3	6.0
March	29.33	29.71	28.80	43.8	54.4	54.2	60.5	39.4	50.0	77	22	35	39	37	73	59	54	.215	.252	.230	2.99	1.00	2.8	7.1	4.6	4.6	5.5
April	29.48	29.95	28.91	46.7	55.1	55.9	61.5	42.4	52.0	84	24	36	41	40	68	62	59	.229	.278	.269	4.10	2.11	.1	6.0	6.6	5.4	6.0
May	29.51	29.86	29.16	63.3	76.3	75.3	80.3	58.6	69.4	92	45	51	50	51	66	43	44	.392	.379	.386	1.09	.40	.0	3.1	3.2	1.8	2.7
June	29.36	29.63	29.00	69.5	84.0	83.7	88.1	65.1	76.6	102	53	54	52	53	58	35	37	.422	.403	.421	.35	.14	.0	2.5	3.8	2.5	2.9
July	29.38	29.76	29.16	75.9	88.8	87.4	93.4	73.2	83.3	107	58	65	62	64	71	44	48	.632	.580	.610	1.81	.93	.0	4.5	4.2	3.5	4.0
August	29.44	29.68	29.23	75.4	88.6	86.6	92.7	73.2	83.0	101	59	65	63	63	70	45	48	.623	.583	.593	2.21	1.29	.0	3.9	5.2	2.7	3.9
September	29.46	29.73	29.17	67.2	78.9	77.3	82.9	64.9	73.9	94	48	60	61	61	79	57	59	.539	.544	.544	3.50	2.43	.0	4.8	6.4	4.6	5.3
October	29.53	29.86	29.12	52.4	62.9	61.3	66.8	50.1	58.4	79	31	48	49	48	83	62	65	.350	.366	.367	3.25	.96	.0	5.4	6.2	3.6	5.1
November	29.59	29.98	29.14	37.3	46.2	44.1	50.8	33.3	42.0	78	18	30	34	33	75	64	67	.179	.210	.201	4.11	1.73	7.6	4.3	4.6	4.0	4.2
December	29.63	30.02	29.07	35.1	43.8	42.8	47.5	31.7	39.6	66	16	30	34	33	82	69	69	.178	.207	.201	2.77	.89	1.6	6.0	6.3	4.6	5.7
Year	29.48	30.04	28.74	51.3	61.8	61.0	66.6	47.7	57.1	107	−11	43	44	44	74	56	57	.334	.334	.340	29.87	2.43	23.1	5.1	5.3	4.1	4.8

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

LINCOLN, NEBR.

[H=1,180 ft.; H_b=1,189 ft.; h_t=11 ft.; h_r=4 ft.; h_a=81 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	8.5	N.	30	NW.	0	14	7	5	6	9	7	6	8	0	6	11	14	10	8	15	9	0	2	0	21	0	31	0	0
February	10.6	N.	32	NW.	1	21	6	4	5	6	2	6	8	0	5	14	10	11	6	13	11	0	1	0	21	0	28	0	0
March	11.8	N.	40	NW.	4	12	5	6	7	11	5	5	11	0	10	17	4	4	2	4	1	0	2	0	2	0	18	1	0
April	11.6	N.	37	N.	3	15	6	4	8	11	1	3	12	0	9	13	8	6	5	3	1	1	3	1	2	0	9	3	0
May	9.5	S.	39	S.	1	6	5	8	8	24	3	5	0	3	10	11	10	9	4	0	0	1	2	0	0	2	0	6	0
June	10.4	S.	41	NW.	2	12	9	8	8	15	4	1	1	2	14	13	3	6	4	0	0	0	0	0	0	16	0	5	0
July	10.0	S.	34	NE.	1	3	9	4	4	31	3	4	3	1	20	9	2	3	1	0	0	0	0	0	0	29	0	3	0
August	9.3	S.	36	NW.	2	7	10	7	11	19	3	2	2	1	14	10	7	12	10	0	0	0	1	1	0	23	0	9	0
September	10.0	S.	39	W.	1	11	8	4	10	20	1	3	3	0	13	9	8	6	6	0	0	0	0	0	0	10	0	2	0
October	10.4	S.	31	N.	0	19	2	2	1	26	3	3	6	0	17	6	8	2	1	1	0	0	4	0	0	0	7	1	0
November	11.3	NW.	37	NW.	3	11	2	3	4	17	4	5	14	0	15	10	5	2	1	3	0	0	1	0	2	0	21	0	0
December	9.0	S.	25	SW.	0	9	6	3	9	19	2	6	6	2	8	8	15	3	2	8	3	0	5	1	8	0	26	0	0
Year	10.2	S.	41	NW.	18	140	75	58	81	208	38	49	74	9	141	131	94	74	50	47	25	2	21	3	56	80	140	30	0

LITTLE ROCK, ARK.

[H=324 ft.; H_b=357 ft.; h_t=94 ft.; h_r=87 ft.; h_a=102 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.6	E.	25	SW.	0	5	7	16	4	7	7	4	12	0	9	11	11	6	4	3	2	0	7	1	5	0	15	1	0
February	9.1	E.	29	SW.	0	10	3	16	5	8	7	3	5	1	9	8	12	9	6	3	2	0	7	1	8	0	20	0	0
March	9.9	SW.	27	SW.	0	1	5	9	3	12	12	10	10	0	15	7	9	6	5	0	0	0	3	0	0	0	0	4	0
April	9.1	S.	30	NW.	0	5	10	8	3	16	7	4	6	1	11	8	11	7	6	0	0	1	2	0	0	0	1	2	0
May	7.5	S.	21	SE.	0	2	4	24	4	18	5	2	3	0	9	13	9	8	6	0	0	0	1	0	0	0	0	4	0
June	8.6	SW.	29	NE.	0	5	5	15	2	7	18	4	4	0	19	8	3	3	3	0	0	1	0	0	0	18	0	3	0
July	7.9	SW.	30	E.	0	0	3	6	5	18	13	11	5	1	12	9	10	7	5	0	0	0	3	0	0	19	0	7	0
August	7.5	S.	18	SW.	0	3	1	6	8	28	8	7	0	1	21	7	3	1	1	0	0	0	0	0	0	28	0	1	0
September	8.0	E.	25	N.	0	2	2	14	6	18	10	3	4	1	11	10	9	7	6	0	0	0	3	0	0	17	0	5	0
October	7.6	E.	22	NW.	0	6	8	9	5	12	8	5	9	0	14	6	11	5	5	0	0	0	7	1	0	0	0	2	0
November	8.8	NW.	27	NW.	0	11	7	8	1	6	5	9	12	1	18	3	7	7	6	1	0	0	6	0	0	0	2	2	0
December	7.1	E.	22	S.	0	6	6	12	9	13	4	2	10	0	8	6	17	11	8	1	0	0	9	4	0	0	7	2	0
Year	8.3	E.	30	E.	0	56	61	143	55	163	104	64	80	6	156	96	114	77	61	8	4	2	48	7	13	82	45	33	0

LOS ANGELES, CALIF.

[H=261 ft., H_b=338 ft.; h_t=159 ft.; h_r=151 ft.; h_a=191 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	5.7	NE.	25	NW.	0	5	18	4	5	4	9	12	5	0	12	11	8	5	2	0	0	0	4	1	0	0	0	0	0
February	6.3	NE.	20	NE.	0	3	15	7	2	5	22	2	2	0	10	6	13	12	10	0	0	0	6	1	0	0	0	1	0
March	5.9	SW.	20	NW.	0	0	10	6	7	5	26	3	5	0	14	10	7	2	2	0	0	0	10	5	0	0	0	0	0
April	5.9	SE.	19	SW.	0	1	9	4	10	7	23	2	4	0	9	16	5	3	3	0	0	0	14	4	0	1	0	1	0
May	6.0	SW.	16	W.	0	0	6	11	8	6	28	1	2	0	19	9	3	0	0	0	0	0	1	0	0	0	0	0	0
June	5.8	SW.	16	W.	0	1	6	7	10	3	29	3	1	0	19	9	2	3	2	0	0	0	12	4	0	1	0	2	0
July	5.6	SW.	15	W.	0	1	2	4	11	5	32	2	5	0	19	8	4	1	0	0	0	0	5	1	0	6	0	2	0
August	5.5	SW.	25	SE.	0	3	3	7	4	6	25	10	4	0	25	5	1	1	0	0	0	0	10	1	0	1	0	1	0
September	5.3	SW.	15	W.	0	3	3	8	6	2	25	10	3	0	21	8	1	1	0	0	0	0	11	2	0	0	0	1	0
October	5.8	SW.	21	E.	0	4	12	8	5	3	20	8	2	0	18	5	8	5	5	0	0	0	6	2	0	3	0	2	0
November	5.8	NE.	22	NE.	0	13	9	2	3	2	15	12	4	0	18	11	1	1	1	0	0	0	0	0	0	1	0	0	0
December	6.3	NE.	22	SE.	0	13	15	5	4	4	10	7	4	0	15	6	10	9	8	0	0	0	6	2	0	0	0	2	0
Year	5.8	SW.	25	SE.	0	47	108	73	75	52	264	72	41	0	199	104	63	43	33	0	0	0	85	23	0	13	0	12	0

LOUISVILLE, KY.

[H=466 ft.; H_b=525 ft.; h_t=188 ft.; h_r=183 ft.; h_a=234 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.8	SW.	38	NW.	1	2	4	6	10	7	16	10	7	0	7	9	15	12	9	8	6	0	3	0	11	0	23	0	0
February	10.9	N.	38	W.	3	8	8	7	5	12	9	6	3	0	7	11	11	11	7	11	4	0	2	2	13	0	23	0	0
March	12.6	S.	46	N.	2	10	2	5	10	12	11	3	9	0	7	15	9	10	10	4	2	0	0	0	0	0	6	5	0
April	12.0	SW.	35	NW.	5	7	8	2	8	9	9	8	8	1	10	7	13	10	7	2	1	1	0	0	0	0	5	3	0
May	8.9	SW.	30	NW.	0	9	10	4	10	9	11	1	8	0	19	9	3	4	4	0	0	0	0	0	0	2	0	5	0
June	10.4	N.	35	SW.	1	26	8	1	2	6	9	4	3	1	22	3	5	5	5	0	0	0	0	0	0	11	0	5	1
July	9.9	SW.	37	NW.	3	11	9	0	3	5	25	5	4	0	14	14	3	8	7	0	0	1	1	1	0	20	0	9	0
August	8.9	SW.	32	NW.	1	8	1	3	11	17	17	2	2	1	13	15	3	7	5	0	0	0	0	0	0	21	0	7	0
September	9.4	S.	26	N.	0	12	5	5	11	19	4	3	1	0	11	10	9	10	8	0	0	0	0	0	0	9	0	3	0
October	9.4	S.	38	W.	1	11	4	5	15	11	8	1	7	0	12	7	12	10	9	0	0	0	3	1	0	0	2	2	0
November	11.5	SW.	30	NW.	0	10	3	2	3	11	13	8	10	0	15	6	9	4	3	4	2	0	1	1	1	0	16	1	0
December	9.2	S.	34	SE.	1	14	7	9	10	11	5	2	4	0	10	9	12	12	11	4	2	0	5	1	1	0	20	0	0
Year	10.3	SW.	46	N.	18	128	69	49	98	129	137	53	66	3	147	115	104	103	85	33	17	2	15	6	26	63	95	40	1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MACON, GA.

[ϕ=32°50′ N.; λ=83°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.67	30.08	28.87	37.1	48.8	47.3	55.0	33.8	44.4	70	16	33	34	34	83	61	63	0.212	0.235	0.230	9.19	3.42	3.1	5.9	5.5	4.3	5.5
February	29.70	30.04	29.04	38.5	49.8	49.3	56.1	35.9	46.0	75	17	33	33	33	81	56	57	.209	.207	.207	7.02	3.19	T	6.2	5.8	5.8	5.8
March	29.54	29.81	29.06	51.1	66.6	64.0	71.6	48.2	59.9	84	36	44	41	42	77	43	47	.309	.292	.293	3.06	1.21	T	4.7	5.6	5.1	5.0
April	29.68	30.01	29.14	56.3	68.0	66.9	73.4	51.7	62.6	91	34	48	44	45	74	47	49	.358	.320	.330	7.20	3.01	.0	5.5	4.8	4.2	4.8
May	29.65	30.00	29.27	68.5	81.0	78.5	85.6	62.7	74.2	97	52	58	54	54	71	42	45	.497	.436	.433	.30	.15	.0	3.4	4.4	3.7	3.4
June	29.53	29.84	29.33	74.0	85.6	83.0	90.6	68.1	79.4	102	55	66	64	65	78	50	57	.655	.599	.626	2.56	.84	.0	3.4	3.8	3.8	4.1
July	29.59	29.79	29.34	76.5	87.9	84.0	92.5	72.2	82.4	99	61	70	69	69	80	55	64	.730	.710	.719	7.48	4.70	.0	4.7	5.4	5.8	5.6
August	29.64	29.84	29.43	76.0	86.5	82.7	91.1	71.4	81.2	98	61	72	72	72	86	62	72	.772	.775	.799	5.25	2.06	.0	4.5	5.0	4.0	4.9
September	29.64	29.84	29.41	71.6	84.0	79.2	87.4	68.2	77.8	94	59	68	71	71	89	66	77	.698	.774	.771	1.40	.67	.0	5.6	5.8	4.4	5.7
October	29.68	29.96	29.31	60.9	74.5	69.1	77.7	58.1	67.9	86	42	58	60	60	88	63	73	.501	.558	.534	2.33	1.12	.0	4.2	4.8	4.3	4.5
November	29.77	30.06	29.43	46.2	60.6	56.1	64.5	43.2	53.8	81	23	40	41	42	81	51	62	.273	.283	.294	2.68	2.15	.0	4.4	4.3	3.8	4.5
December	29.78	30.20	29.40	45.1	54.5	53.2	59.3	42.5	50.9	76	31	41	43	44	84	68	73	.270	.294	.305	4.60	1.20	.0	7.5	6.8	6.9	7.2
Year	29.66	30.20	28.87	58.5	70.6	67.8	75.0	54.7	65.0	102	16	53	52	53	81	55	62	.457	.457	.462	53.67	4.70	3.1	5.0	5.2	4.7	5.1

MADISON, WIS.

[ϕ=43°05′ N.; λ=89° 23′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.94	29.43	28.33	9.1	13.0	12.6	18.0	4.0	11.0	42	−26	8	10	10	93	86	90	0.077	0.082	0.081	1.78	0.76	16.8	6.7	6.5	5.7	6.5
February	28.97	29.31	28.32	2.7	8.7	8.3	14.8	−3.0	5.9	46	−21	1	4	4	92	81	82	.057	.062	.059	1.90	.79	17.9	6.6	6.4	7.4	6.7
March	28.78	29.28	28.22	30.6	36.2	37.1	43.2	27.2	35.2	72	4	26	26	28	84	67	69	.147	.149	.161	.61	.24	2.4	7.5	6.9	6.3	7.0
April	28.97	29.35	28.63	36.1	45.2	44.8	50.0	32.8	41.4	70	16	30	31	32	77	60	63	.176	.189	.195	.95	.40	7.3	6.6	6.0	6.4	6.8
May	28.98	29.37	28.45	57.6	69.7	68.8	74.5	53.5	64.0	87	37	48	50	50	72	52	53	.356	.379	.374	.79	.37	.0	6.0	6.2	5.8	6.1
June	28.91	29.27	28.23	59.6	70.0	71.9	75.4	55.5	65.4	88	44	50	54	54	72	58	56	.370	.420	.435	2.24	1.07	.0	5.9	6.1	5.0	5.8
July	28.92	29.37	28.65	71.7	84.8	84.8	90.1	67.5	78.8	107	55	60	61	61	67	46	45	.530	.553	.542	.99	.79	.0	3.3	4.1	3.3	3.7
August	28.94	29.25	28.61	66.5	79.9	78.5	84.4	63.4	73.9	101	55	60	60	61	86	54	57	.526	.540	.543	5.97	1.98	.0	5.3	4.7	4.6	4.9
September	28.97	29.41	28.66	60.1	68.8	66.6	71.9	56.9	64.4	89	44	55	58	58	84	70	74	.457	.510	.499	4.60	1.42	.0	6.0	5.9	4.4	5.7
October	28.97	29.47	28.53	43.0	51.6	50.0	55.8	40.1	48.0	76	24	38	40	40	83	66	71	.244	.272	.272	2.47	.94	.0	6.2	6.2	5.1	5.8
November	29.02	29.57	28.43	29.0	35.0	34.4	40.2	25.8	33.0	61	11	25	26	27	84	69	72	.139	.146	.152	1.18	.94	1.4	6.0	6.7	5.5	6.4
December	29.04	29.44	28.13	25.2	29.7	28.6	35.3	19.6	27.4	54	−10	22	24	24	88	77	81	.132	.139	.138	2.33	1.29	6.2	6.5	6.4	5.5	6.6
Year	28.95	29.57	28.13	40.9	49.4	48.9	54.5	36.9	45.7	107	−26	35	37	37	81	66	68	.267	.287	.288	25.81	1.98	52.0	6.0	6.0	5.4	6.0

MARQUETTE, MICH.

[ϕ=46°34′ 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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.16	29.71	28.50	14.2	18.4	16.4	21.0	11.5	16.2	36	−8	12	15	14	89	86	90	0.080	0.091	0.089	2.87	0.91	28.1	9.5	9.5	8.7	9.0
February	29.19	29.62	28.51	2.7	10.2	8.4	15.1	−1.7	6.7	41	−22	−1	5	5	84	77	85	.049	.057	.058	2.33	1.15	24.0	6.8	6.3	5.4	5.6
March	29.02	29.43	28.29	23.6	30.4	28.8	34.7	20.4	27.6	54	0	20	25	24	85	79	82	.111	.138	.133	2.89	.77	13.8	7.1	7.6	6.8	6.6
April	29.22	29.72	28.77	31.9	35.5	34.7	40.2	27.9	34.0	58	17	26	28	27	78	74	75	.143	.153	.149	1.02	.30	3.8	7.2	8.2	7.2	7.3
May	29.20	29.63	28.59	49.5	55.3	52.6	62.5	41.5	52.0	84	31	41	42	43	72	65	71	.268	.288	.295	5.30	1.65	.0	6.8	7.0	5.9	6.3
June	29.16	29.54	28.48	56.2	58.4	57.6	66.4	47.3	56.8	82	40	46	46	45	71	65	65	.319	.314	.305	1.41	.58	.0	4.8	6.4	6.3	5.8
July	29.17	29.57	28.91	67.9	74.1	71.4	78.9	60.5	69.7	104	47	55	56	56	65	55	61	.446	.455	.464	.44	.24	.0	2.8	2.8	2.9	4.0
August	29.20	29.44	28.70	61.7	66.7	65.3	72.2	57.2	64.7	93	48	54	55	56	77	68	72	.416	.435	.447	4.79	1.08	.0	6.1	7.4	6.9	7.2
September	29.20	29.64	28.73	55.7	62.6	58.7	66.9	51.1	59.0	86	39	49	51	51	80	69	76	.365	.394	.385	3.05	1.30	.0	6.4	6.7	5.1	6.1
October	29.19	29.74	28.70	40.3	46.1	42.5	50.0	35.6	42.8	75	23	34	36	35	78	70	76	.202	.221	.217	1.94	.90	1.5	7.3	8.3	8.3	7.5
November	29.21	29.92	28.44	26.7	30.6	28.5	34.8	23.0	28.9	57	10	23	25	23	85	79	81	.126	.136	.128	3.21	.58	25.2	8.8	8.7	8.0	8.4
December	29.23	29.73	28.18	24.9	27.1	26.8	32.5	20.0	26.2	51	−5	21	22	23	84	82	85	.119	.123	.131	1.15	.23	5.3	8.5	8.1	8.1	8.2
Year	29.18	29.92	28.18	37.9	43.0	41.0	47.9	32.9	40.4	104	−22	32	34	34	79	72	77	.230	.234	.233	30.40	1.65	101.7	6.8	7.2	6.6	6.8

MEDFORD, OREG.

[ϕ=42°23′ N.; λ=122°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.64	28.97	28.05	36.9	-----	44.7	46.7	34.5	40.6	62	22	35	---	38	94	---	82	0.208	-----	0.235	6.67	1.35	T	6.9	----	7.3	8.4
February	28.51	29.06	27.88	36.2	-----	49.9	51.4	34.1	42.8	65	20	35	---	37	96	---	64	.210	-----	.229	2.68	.61	2.7	7.9	----	7.6	7.7
March	28.68	29.05	28.08	36.8	-----	57.2	59.2	33.9	46.6	79	23	34	---	34	90	---	46	.198	-----	.200	.42	.18	.5	6.0	----	6.7	6.5
April	28.64	29.18	28.11	43.4	-----	66.6	69.4	41.4	55.4	87	21	41	---	40	92	---	43	.264	-----	.257	1.52	.60	T	5.2	----	5.6	5.7
May	28.59	29.11	28.14	47.4	-----	72.1	76.4	45.9	61.2	97	35	44	---	43	90	---	39	.296	-----	.280	1.62	.51	T	3.9	----	5.4	5.0
June	28.54	28.81	28.24	52.9	-----	76.8	79.5	52.2	65.8	94	42	50	---	47	89	---	38	.357	-----	.332	.86	.28	.0	5.5	----	4.6	4.0
July	28.55	28.73	28.29	56.6	-----	84.8	86.6	55.5	71.0	99	48	50	---	49	80	---	31	.368	-----	.351	.58	.44	.0	2.1	----	1.8	2.5
August	28.55	28.75	28.32	55.9	-----	88.1	89.5	54.2	71.8	101	46	49	---	46	78	---	24	.347	-----	.319	.00	.00	.0	.9	----	.9	1.1
September	28.58	28.89	28.32	47.9	-----	81.3	83.6	45.4	64.5	96	34	41	---	41	78	---	28	.264	-----	.207	.35	.20	.0	1.3	----	1.7	1.9
October	28.66	28.90	28.29	42.3	-----	75.4	77.8	38.8	58.3	97	28	34	---	36	75	---	26	.202	-----	.218	T	T	.0	1.5	----	2.6	2.3
November	28.83	29.12	28.60	28.9	-----	56.8	60.5	25.7	43.1	71	15	24	---	27	80	---	33	.127	-----	.147	.01	.01	.0	1.9	----	2.1	2.8
December	28.68	29.07	27.99	34.0	-----	40.0	42.5	31.7	37.1	55	15	33	---	35	96	---	86	.190	-----	.211	2.48	.83	2.8	6.5	----	7.5	9.1
Year	28.62	29.18	27.88	43.3	-----	66.1	68.6	41.1	54.8	101	15	39	---	39	86	---	45	.253	-----	.254	17.19	1.35	6.0	4.1	----	4.5	4.8

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MACON, GA.

[H=330 ft.; H_b=370 ft.; h_t=79 ft.; h_r=73 ft.; h_a=87 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 72 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.2	NW.	38	S.	1	5	5	5	3	11	4	6	22	1	11	7	13	17	15	2	2	0	12	6	0	0	11	4	0
February	7.2	NW.	30	NW.	0	11	7	5	1	10	1	1	22	0	11	4	14	13	10	1	0	0	10	2	0	0	9	1	0
March	8.3	S.	32	NW.	1	7	3	1	7	14	7	6	16	1	13	7	11	10	8	1	0	0	4	1	0	0	0	4	0
April	7.9	NW.	25	SW.	0	3	9	6	6	13	4	3	16	0	13	7	10	9	8	0	0	0	1	0	0	1	0	7	0
May	6.3	S.	20	NW.	0	9	3	16	10	15	3	2	3	1	18	7	6	4	3	0	0	0	2	0	0	3	0	2	0
June	6.4	S.	29	NW.	0	5	9	9	4	16	9	5	3	0	12	16	2	5	8	0	0	0	0	0	0	18	0	9	0
July	6.9	SW.	47	SE.	1	3	2	2	6	8	19	17	5	0	6	15	10	7	7	0	0	1	0	0	0	24	0	10	0
August	5.3	E.	27	NE.	0	6	8	13	4	18	6	1	5	1	9	15	7	10	5	0	0	0	0	0	0	21	0	11	0
September	5.6	NE.	17	S.	0	12	16	8	4	13	1	6	5	1	4	19	7	7	5	0	0	0	5	0	0	6	0	9	0
October	6.6	N.	20	NW.	0	20	12	8	3	1	2	0	15	1	13	10	8	8	6	0	0	0	7	1	0	0	0	2	0
November	7.1	NW.	25	NW.	0	16	10	2	1	6	3	6	14	2	15	6	9	7	3	0	0	0	18	0	0	0	4	0	0
December	7.4	NE.	24	NE.	0	14	16	5	7	4	0	4	8	4	6	7	18	12	9	0	0	0	22	2	0	0	2	0	0
Year	6.8	NW.	47	SE.	3	111	100	80	56	129	59	51	134	12	131	120	115	112	87	4	2	1	81	12	0	73	29	59	0

MADISON, WIS.

[H=938 ft.; H_b=974 ft.; h_t=70 ft.; h_r=62 ft.; h_a=78 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 72 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.4	NW.	29	NE.	0	12	1	3	6	5	4	15	16	0	6	9	16	13	8	21	13	0	15	3	26	0	31	0	0
February	9.3	W.	27	SE.	0	9	4	2	5	4	7	13	14	0	7	8	14	13	8	17	13	0	9	0	24	0	27	0	0
March	9.7	NW.	31	S.	0	5	2	3	11	10	5	10	16	0	5	11	15	10	6	10	5	0	10	0	7	0	23	2	1
April	10.0	NW.	32	NW.	1	12	3	2	8	10	5	4	16	0	5	12	13	9	5	7	5	0	10	2	5	0	12	0	6
May	8.7	SW.	24	SW.	0	7	3	2	4	15	16	6	8	1	9	7	15	8	5	0	0	0	8	0	0	0	0	5	1
June	7.6	NE.	22	SW.	0	10	16	4	6	12	5	2	5	0	10	7	13	11	7	0	0	0	5	0	0	0	0	9	1
July	7.2	E.	21	NE.	0	3	14	12	9	4	8	6	4	2	17	10	4	5	4	0	0	0	2	0	0	14	0	7	0
August	7.7	S.	30	NE.	0	6	7	6	9	14	7	9	2	2	12	12	7	15	14	0	0	1	10	2	0	9	0	15	0
September	7.7	S.	21	NW.	0	3	6	1	19	19	2	3	7	0	10	9	11	10	10	0	0	0	17	2	0	0	0	6	4
October	8.6	S.	25	N.	0	6	4	2	2	16	6	8	16	2	12	3	16	9	9	0	0	0	14	3	0	0	5	6	3
November	10.4	NW.	27	NW.	0	6	3	1	3	10	11	9	16	1	7	6	17	5	4	9	2	0	6	3	6	0	25	0	3
December	9.5	S.	26	SW.	0	3	2	1	12	15	10	6	10	3	8	4	19	11	6	9	5	0	20	4	10	0	27	0	0
Year	8.7	NW.	32	NW.	1	82	65	39	94	134	86	91	130	11	108	98	160	119	86	73	43	1	126	19	78	23	150	50	19

MARQUETTE, MICH.

[H=652 ft.; H_b=734 ft.; h_t=77 ft.; h_r=70 ft.; h_a=111 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 72 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.1	W.	28	W.	0	2	1	3	3	8	0	35	8	2	0	4	27	20	16	25	20	0	1	0	27	0	31	0	0
February	9.8	W.	34	SE.	1	4	2	3	0	9	4	29	7	0	10	6	13	11	10	15	11	0	1	0	26	0	28	0	0
March	8.8	W.	31	NW.	0	1	2	4	6	12	7	19	8	3	5	11	15	17	13	15	12	0	2	3	12	0	28	1	0
April	9.5	NW.	31	S.	0	8	0	1	5	9	2	12	19	4	2	10	18	8	6	12	4	0	2	1	8	0	21	1	0
May	9.4	NW.	36	S.	3	8	1	3	4	10	5	8	21	2	4	15	12	15	12	0	0	1	3	1	0	0	2	5	0
June	7.9	NW.	30	SW.	0	2	1	7	3	8	4	7	22	6	6	15	9	12	7	0	0	1	1	3	0	0	0	4	1
July	7.1	W.	30	SW.	0	9	0	5	5	5	3	13	11	11	15	10	6	5	3	0	0	0	1	0	0	5	0	2	0
August	9.5	NW.	29	SE.	0	5	3	11	3	7	6	12	13	2	2	11	18	14	11	0	0	0	3	1	0	2	0	7	0
September	9.4	S.	30	SW.	0	6	1	4	5	13	9	9	8	5	7	12	11	8	7	0	0	0	2	5	0	0	0	4	0
October	10.6	W.	42	S.	3	6	1	0	3	17	7	19	8	1	3	10	18	16	9	10	5	0	4	1	1	0	10	3	0
November	12.0	W.	38	SW.	4	8	3	2	1	13	3	17	13	0	2	5	23	20	15	20	15	0	2	0	12	0	25	0	0
December	11.3	S.	45	SW.	6	1	0	3	4	23	5	19	7	0	3	6	22	12	9	15	8	0	2	2	16	0	28	0	0
Year	9.6	W.	45	SW.	17	60	15	46	42	134	55	199	145	36	59	115	192	158	118	112	75	2	24	17	102	7	173	27	1

MEDFORD, OREG.

[H=1,314 ft.; H_b=1,329 ft.; h_t=29 ft.; h_r=26 ft.; h_a=58 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 72 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	----	N.	----	------	----	14	4	1	11	9	5	6	8	4	3	4	24	20	17	3	2	0	20	7	0	0	11	0	0
February	----	N.	----	------	----	18	4	0	4	7	6	2	11	6	3	5	21	17	13	9	4	0	7	2	0	0	12	0	0
March	----	NW.	----	------	----	9	3	2	6	10	3	12	15	2	7	7	17	6	5	8	2	0	0	0	0	0	11	0	0
April	----	NW.	----	------	----	11	4	3	3	6	4	9	19	1	11	6	13	7	6	3	0	2	0	0	0	0	4	0	0
May	----	NW.	----	------	----	5	1	4	6	3	8	8	24	3	11	13	7	15	8	1	0	0	1	0	0	7	0	4	0
June	----	NW.	----	------	----	2	1	1	1	3	19	29	3	3	13	8	9	7	6	0	0	0	1	0	0	3	0	3	1
July	----	W.	----	------	----	2	2	0	1	1	4	24	22	6	25	3	3	3	3	0	0	0	0	0	0	11	0	1	0
August	----	W.	----	------	----	2	1	0	0	6	10	21	19	3	26	4	1	0	0	0	0	0	0	0	0	16	0	0	0
September	----	NW.	----	------	----	4	4	1	2	12	7	7	18	5	23	2	5	3	3	0	0	1	1	1	0	11	0	1	0
October	----	S.	----	------	----	1	6	1	9	15	3	12	11	4	23	4	4	0	0	0	0	0	0	0	0	4	4	0	0
November	----	NW.	----	------	----	6	3	0	9	7	5	7	10	13	19	6	5	1	0	0	0	0	0	0	0	0	26	0	0
December	----	NW.	----	------	----	11	5	1	6	9	6	3	12	9	0	5	26	15	11	4	3	0	23	16	3	0	16	0	0
Year	----	NW.	----	------	----	85	38	14	58	86	64	130	198	59	164	67	135	94	72	28	11	3	53	26	3	52	84	9	1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MEMPHIS, TENN.

[ϕ=35°09′ N.; λ=90°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.65	30.24	29.18	31.6	38.3	39.9	43.6	29.1	36.4	69	6	25	26	27	75	63	61	0.145	0.157	0.159	2.19	1.34	2.4	5.5	6.3	4.7	5.6
February	29.67	30.09	29.02	32.3	38.6	39.9	44.5	28.8	36.6	77	1	24	28	30	71	68	68	.154	.176	.181	1.82	.55	7.4	6.4	5.6	5.0	5.7
March	29.49	29.84	29.16	50.5	60.7	61.7	67.0	47.9	57.4	80	36	40	41	41	67	56	56	.260	.274	.275	4.12	1.95	.0	4.5	4.1	3.9	4.1
April	29.63	29.99	29.01	52.1	60.9	63.1	67.5	49.7	58.6	85	30	42	41	43	70	52	52	.289	.291	.305	1.21	.31	.0	5.1	5.3	5.3	5.0
May	29.62	29.91	29.30	67.3	78.2	77.4	82.1	64.4	73.2	90	52	55	54	54	66	44	48	.450	.426	.431	1.91	1.36	.0	3.7	4.5	4.4	4.2
June	29.48	29.72	29.18	73.9	86.5	86.7	90.4	70.7	80.6	103	60	60	59	61	64	42	43	.537	.523	.546	1.22	.68	.0	2.0	2.3	2.5	2.4
July	29.54	29.80	29.31	76.5	85.4	85.4	89.3	74.6	82.0	97	66	70	71	71	81	63	64	.737	.766	.771	6.49	3.80	.0	4.9	5.4	5.1	5.1
August	29.56	29.76	29.33	76.5	88.1	88.6	92.5	74.9	83.7	101	62	68	67	67	75	51	50	.685	.665	.667	.40	.20	.0	2.9	3.4	2.5	3.0
September	29.57	29.78	29.26	71.4	81.5	80.8	86.0	69.6	77.8	95	55	65	67	66	82	62	63	.636	.667	.660	6.04	3.98	.0	4.5	5.8	4.9	5.3
October	29.66	29.95	29.37	55.8	66.7	64.6	70.9	54.3	62.6	83	38	50	51	52	81	60	65	.374	.398	.400	3.39	1.27	.0	4.8	5.1	4.0	4.9
November	29.77	30.12	29.36	42.5	51.8	51.4	57.3	40.1	48.7	81	25	34	34	36	73	54	56	.212	.216	.226	3.64	3.18	.2	4.2	3.8	3.7	3.9
December	29.74	30.06	29.22	42.1	49.4	48.6	53.6	38.8	46.2	68	23	36	37	37	78	66	68	.226	.242	.235	6.84	2.53	.2	6.8	6.2	5.3	6.3
Year	29.61	30.24	29.01	56.0	65.5	65.7	70.4	53.6	62.0	103	1	47	48	49	74	56	57	.392	.400	.405	39.27	3.98	10.2	4.6	4.8	4.3	4.6

MERIDIAN, MISS.

[ϕ=32°21′ N.; λ=88°40′ W.]

January	29.66	30.15	29.20	39.3	49.1	46.6	54.9	33.8	44.4	77	16	35	34	36	85	59	67	0.235	0.219	0.229	6.82	2.16	1.4	5.6	4.4	4.1	4.8
February	29.68	30.02	29.13	38.6	50.3	49.0	56.7	35.0	45.8	78	17	33	33	36	81	55	62	.213	.219	.235	10.88	8.04	.0	6.0	6.5	4.7	6.2
March	29.55	29.82	29.26	52.5	68.2	64.7	73.3	49.9	61.6	87	37	46	43	45	80	44	52	.345	.314	.335	1.96	.66	.0	4.9	5.4	4.9	5.1
April	29.67	29.96	29.14	55.7	68.0	65.3	73.6	50.6	62.1	90	33	49	45	47	79	48	56	.373	.335	.350	6.71	3.48	.0	5.0	6.1	3.6	5.1
May	29.63	29.92	29.31	67.4	79.6	75.6	83.0	62.8	72.9	89	53	60	58	61	77	50	62	.519	.492	.538	2.48	.72	.0	3.9	5.1	4.6	4.7
June	29.53	29.78	29.28	74.5	88.7	87.5	93.5	69.3	81.4	101	54	66	63	63	75	44	46	.641	.587	.591	1.71	1.00	.0	1.0	1.7	2.0	1.5
July	29.60	29.82	29.40	75.3	87.3	81.5	91.5	71.5	81.5	100	63	71	70	71	86	58	72	.751	.734	.765	6.22	1.53	.0	6.4	4.8	6.8	6.0
August	29.62	29.79	29.37	74.8	87.1	82.9	90.9	70.9	80.9	96	60	70	69	71	87	56	69	.746	.717	.773	4.60	2.08	.0	3.3	3.4	3.4	3.6
September	29.61	29.78	29.42	72.2	86.4	80.1	90.4	69.1	79.8	96	59	67	66	68	85	53	67	.673	.659	.686	1.17	.44	.0	3.0	3.8	2.3	3.9
October	29.67	29.92	29.39	57.9	74.7	69.3	78.7	54.3	66.5	89	39	53	53	55	84	49	61	.427	.427	.448	.08	.04	.0	3.6	3.6	3.9	4.0
November	29.79	30.10	29.50	44.5	60.0	54.7	63.9	41.3	52.6	85	24	39	39	40	80	50	62	.261	.270	.275	2.80	1.70	.0	4.3	5.2	3.7	4.9
December	29.76	30.10	29.41	44.5	55.5	51.8	59.3	41.5	50.4	76	27	41	43	44	87	66	76	.275	.302	.307	6.85	2.00	.0	6.3	7.4	5.1	6.9
Year	29.65	30.15	29.13	58.0	71.2	67.4	75.8	54.2	65.0	101	16	52	51	53	82	53	63	.455	.440	.461	52.28	8.04	1.4	4.4	4.8	4.1	4.7

MIAMI, FLA.

[ϕ=25°48′ N.; λ=80°12′ W.]

January	30.05	30.24	29.80	65.9	73.4	69.1	75.1	62.6	68.8	83	45	59	61	61	79	66	77	0.521	0.552	0.557	3.93	2.19	0.0	4.9	4.6	4.1	4.8
February	30.02	30.38	29.75	65.2	71.7	69.1	74.5	61.9	68.2	82	42	59	61	61	83	70	77	.532	.555	.560	2.31	.78	.0	6.7	6.7	5.1	6.5
March	29.97	30.17	29.67	67.4	74.9	70.7	76.9	63.7	70.3	84	50	60	58	60	77	58	71	.531	.513	.544	3.71	1.48	.0	4.7	5.6	5.5	5.5
April	30.05	30.25	29.84	72.3	78.3	75.0	80.2	68.8	74.5	85	57	62	63	64	72	61	70	.577	.589	.609	2.15	.88	.0	3.5	4.9	4.4	4.2
May	29.94	30.08	29.65	76.0	79.9	77.4	82.3	71.8	77.0	88	66	67	67	67	75	66	70	.668	.670	.657	8.05	5.26	.0	5.7	6.7	4.7	5.8
June	29.90	30.09	29.55	79.7	81.6	78.4	84.5	73.6	79.0	90	68	72	72	72	79	73	82	.806	.779	.784	21.41	5.50	.0	5.4	7.2	7.3	6.9
July	30.00	30.14	29.68	82.1	85.8	82.1	87.6	76.7	82.2	90	66	74	73	74	76	66	76	.824	.814	.825	8.52	2.19	.0	5.5	5.2	5.2	5.4
August	29.97	30.11	29.81	81.7	85.3	81.9	86.8	77.4	82.1	90	70	74	73	74	78	68	77	.835	.822	.836	8.55	3.49	.0	5.7	5.7	5.4	5.6
September	29.95	30.07	29.86	81.5	84.9	81.9	87.3	76.3	81.8	90	72	73	73	73	76	67	75	.822	.801	.813	4.65	1.42	.0	4.6	5.8	4.9	5.8
October	29.94	30.09	29.76	78.1	84.4	80.5	85.8	74.6	80.2	89	70	72	71	72	82	66	76	.791	.769	.785	7.59	3.02	.0	4.8	4.7	3.6	5.0
November	30.04	30.29	29.84	69.7	76.9	72.7	78.2	65.9	72.0	85	44	62	62	62	76	61	70	.571	.585	.586	4.35	2.23	.0	5.3	6.0	4.6	5.9
December	30.06	30.26	29.88	68.8	75.4	72.5	76.7	66.4	71.6	81	49	62	63	63	80	65	73	.567	.577	.589	2.08	.78	.0	5.8	5.6	4.9	5.3
Year	29.99	30.38	29.55	74.0	79.4	75.9	81.3	70.0	75.6	90	42	66	66	67	78	66	74	.670	.669	.679	77.30	5.50	.0	5.2	5.7	5.0	5.6

MILES CITY, MONT.

[ϕ=46°25′ N.; λ=105°49′ W.]

January	27.45	27.98	26.87	8.1	14.2	13.3	20.2	1.4	10.8	46	−20	2	8	8	74	76	78	0.053	0.070	0.071	0.58	0.18	8.3	6.5	6.6	6.8	6.8
February	27.50	27.95	26.96	-10.8	−1.8	−1.1	4.0	-15.2	−5.6	43	−45	-21	-11	-10	62	64	65	.023	.034	.037	.40	.16	6.8	5.8	6.3	5.3	5.9
March	27.37	27.80	26.84	28.1	38.5	39.3	42.8	25.5	34.2	59	3	22	23	24	76	55	55	.119	.130	.137	.21	.05	1.3	5.9	6.5	5.4	6.0
April	27.51	27.90	27.13	33.8	49.2	52.1	56.0	31.4	43.7	85	0	26	31	31	75	55	50	.154	.186	.183	.23	.10	1.4	5.6	6.6	6.3	6.3
May	27.40	27.79	26.89	53.5	72.8	75.8	78.2	51.0	64.6	93	34	41	39	38	64	32	29	.259	.243	.236	1.12	.93	.0	2.9	3.7	3.5	3.6
June	27.39	27.73	26.95	62.8	79.9	83.2	85.4	59.0	72.2	106	44	44	41	39	53	27	23	.303	.264	.247	.15	.06	.0	3.0	3.2	4.5	3.6
July	27.37	27.68	27.08	73.0	92.3	95.0	97.3	71.1	84.2	108	54	50	47	43	48	23	20	.379	.328	.290	1.00	.84	.0	3.4	2.5	3.2	3.1
August	27.46	27.72	27.20	63.6	81.5	83.6	87.1	62.0	74.6	102	47	47	46	44	58	32	29	.331	.318	.303	.39	.10	.0	4.0	3.7	4.3	4.0
September	27.45	27.89	26.90	51.2	70.4	72.9	76.3	48.6	62.4	94	33	38	37	34	63	34	28	.240	.236	.205	.69	.38	.0	3.2	3.6	3.2	3.4
October	27.53	27.99	26.98	38.2	56.7	55.8	61.5	35.5	48.5	83	24	29	30	31	70	41	43	.161	.170	.173	.57	.27	.6	4.0	4.6	5.5	4.8
November	27.66	28.05	27.35	28.9	40.8	38.0	45.4	23.8	34.6	71	−4	23	25	25	77	54	61	.126	.138	.141	.37	.33	7.1	4.3	5.1	3.9	4.8
December	27.45	27.85	27.07	17.0	23.7	23.4	29.5	11.8	20.6	47	−16	11	16	15	76	71	70	.077	.093	.094	.35	.16	6.6	4.7	6.8	7.0	6.5
Year	27.46	28.05	26.84	37.3	51.5	52.6	57.0	33.8	45.4	108	−45	26	28	27	66	47	46	.185	.184	.176	6.06	.93	32.1	4.4	4.9	4.9	4.9

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MEMPHIS, TENN.

[H=271 ft.; H_b=399 ft.; h_t=78 ft.; h_r=70 ft.; h_a=86 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	8.8	N.	26	N.	0	12	6	13	6	9	10	2	4	0	11	7	13	9	5	6	3	0	3	2	9	0	14	3	0
February	8.4	N.	27	NW.	0	11	15	7	6	6	10	0	3	0	10	4	15	12	9	6	4	0	1	0	8	0	19	1	0
March	9.6	S.	35	SW.	1	10	7	5	2	14	10	4	8	2	16	7	8	7	6	0	0	1	0	0	0	0	0	5	0
April	9.3	SW.	24	SW.	0	10	9	4	5	8	12	5	5	2	12	8	10	9	7	0	0	0	0	0	0	0	1	2	0
May	6.7	S.	25	SW.	0	3	12	12	13	10	3	3	5	1	16	9	6	7	6	0	0	1	0	0	0	1	0	6	0
June	8.3	W.	30	W.	0	11	6	3	6	2	11	15	3	3	21	5	4	4	4	0	0	1	0	0	0	19	0	3	0
July	7.7	SW.	27	NW.	0	5	4	6	2	6	23	8	8	0	7	18	6	8	8	0	0	0	1	0	0	16	0	10	0
August	6.8	SW.	17	N.	0	4	5	12	12	7	17	5	0	0	19	10	2	2	2	0	0	0	0	0	0	22	0	1	0
September	6.6	E.	24	NW.	0	6	5	20	8	13	2	2	3	1	10	12	8	4	4	0	0	0	0	0	0	9	0	7	0
October	7.1	E.	21	N.	0	14	6	12	10	7	8	2	3	0	14	6	11	8	6	0	0	0	1	0	0	0	0	3	0
November	8.4	SW.	30	NW.	0	9	13	3	4	6	13	3	6	3	16	6	8	6	6	3	1	0	0	0	0	0	4	1	0
December	7.0	E.	24	N.	0	8	19	11	6	6	2	2	4	4	9	7	15	11	7	1	1	0	5	1	0	0	8	2	0
Year	7.9	SW.	35	SW.	1	103	107	108	80	94	121	51	52	16	161	99	106	87	70	16	9	3	11	3	17	67	46	44	0

MERIDIAN, MISS.

[H=343 ft.; H_b=375 ft.; h_t=67 ft.; h_r=60 ft.; h_a=92 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.9	NE.	22	NW.	0	7	17	8	4	4	4	12	6	0	13	7	11	15	14	3	3	0	8	2	2	0	13	6	0
February	7.1	NE.	26	W.	0	9	20	8	4	8	4	0	3	2	8	7	14	11	9	0	0	0	3	1	0	0	10	4	0
March	7.6	SW.	26	NW.	0	6	6	7	6	10	12	4	9	2	12	9	10	7	4	0	0	1	3	1	0	0	0	3	0
April	6.9	SW.	22	S.	0	8	11	7	6	5	10	5	8	0	11	7	12	9	9	0	0	0	5	1	0	0	0	7	0
May	5.7	E.	26	S.	0	9	15	13	8	7	2	5	2	1	13	10	8	8	7	0	0	0	2	0	0	0	0	7	0
June	5.6	SW.	21	NW.	0	6	15	2	1	5	14	11	2	4	27	2	1	3	3	0	0	0	0	0	0	24	0	6	0
July	6.0	SW.	28	SW.	0	1	6	1	3	12	23	11	3	2	8	11	12	17	14	0	0	2	0	0	0	22	0	19	0
August	4.7	E.	28	NE.	0	3	9	10	10	9	9	2	3	7	17	10	4	14	10	0	0	0	2	0	0	21	0	8	0
September	5.1	E.	17	SW.	0	4	9	15	7	6	5	4	2	8	13	14	3	8	7	0	0	0	2	0	0	15	0	7	0
October	5.2	N.	17	NW.	0	12	16	6	6	5	3	2	3	9	16	7	8	3	1	0	0	0	9	2	0	0	0	0	0
November	5.9	NE.	20	SW.	0	14	13	6	3	2	9	2	4	7	13	6	11	7	4	0	0	0	5	3	0	0	7	0	0
December	6.2	NE.	22	NW.	0	16	16	8	7	6	4	1	3	1	6	7	18	14	8	0	0	0	9	1	0	0	4	2	0
Year	6.1	NE.	28	SW.	0	95	153	91	65	79	99	59	48	43	157	97	112	116	90	3	3	3	48	11	2	82	34	69	0

MIAMI, FLA.

[H=11 ft.; H_b=25 ft.; h_t=124 ft.; h_r=117 ft.; h_a=168 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.7	SE.	30	SW.	0	12	3	13	13	10	4	3	4	0	12	13	6	6	4	0	0	0	1	1	0	0	0	2	0
February	11.7	S.	34	SW.	1	10	7	10	8	12	4	3	4	0	8	6	15	14	12	0	0	1	4	0	0	0	0	5	0
March	10.3	SE.	45	S.	1	4	4	7	18	10	7	5	7	0	9	14	8	10	8	0	0	0	1	0	0	0	0	2	0
April	10.6	SE.	25	S.	0	7	12	10	19	3	2	3	4	0	15	11	4	7	6	0	0	0	2	0	0	0	0	3	0
May	11.6	NE.	37	NE.	2	4	23	17	5	1	5	5	2	0	9	11	11	12	11	0	0	0	1	0	0	0	0	6	0
June	9.4	SE.	39	NE.	1	6	13	8	20	7	0	2	4	0	5	9	16	20	18	0	0	0	0	0	0	0	0	17	0
July	9.8	SE.	44	SE.	2	6	6	20	17	3	7	2	1	0	10	13	8	18	16	0	0	0	0	0	0	1	0	14	0
August	9.0	E.	25	SE.	0	5	8	31	11	4	1	2	0	0	8	16	7	17	14	0	0	0	0	0	0	0	0	15	0
September	7.3	E.	24	S.	0	6	16	19	10	5	0	3	1	0	6	15	9	17	15	0	0	0	0	0	0	1	0	15	0
October	9.1	NE.	23	SE.	0	13	16	9	9	4	1	1	9	0	11	11	9	15	12	0	0	0	1	0	0	0	0	8	0
November	10.3	E.	25	NE.	0	17	10	17	3	2	2	3	6	0	5	15	10	13	8	0	0	0	0	0	0	0	0	2	0
December	9.9	E.	29	NE.	0	11	13	16	5	8	0	4	5	0	10	11	10	10	8	0	0	0	0	0	0	0	0	1	0
Year	10.0	SE.	45	S.	7	101	131	177	138	69	33	36	47	0	108	145	113	159	132	0	0	1	10	1	0	2	0	90	0

MILES CITY, MONT.

[H=2,351 ft.; H_b=2,371 ft.; h_t=48 ft.; h_r=41 ft.; h_a=55 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction of time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	5.6	NE.	25	N.	0	10	20	2	3	9	4	4	10	0	7	8	16	12	5	21	12	0	0	0	25	0	31	0	0
February	5.6	NE.	26	NW.	0	10	12	7	3	8	2	7	7	2	7	11	11	5	3	9	5	0	4	3	26	0	29	0	0
March	8.0	S.	30	W.	0	14	2	1	2	17	2	10	12	2	8	12	11	10	3	11	7	0	0	0	6	0	24	0	0
April	7.1	N.	31	NW.	0	14	6	8	4	13	3	5	5	2	6	13	11	6	3	3	2	0	0	0	3	0	10	0	1
May	8.3	SE.	34	NW.	1	6	3	11	12	13	6	6	3	2	18	9	4	6	4	0	0	0	0	0	0	7	0	3	0
June	7.3	N.	31	NW.	0	8	11	9	7	6	5	4	8	2	14	14	2	6	2	0	0	0	0	0	0	13	0	4	2
July	6.2	S.	26	NW.	0	7	6	10	7	15	5	4	7	1	19	11	1	3	3	0	0	0	0	0	0	29	0	2	0
August	6.1	N.	30	W.	0	14	13	10	5	11	0	3	5	1	12	15	4	8	4	0	0	0	0	0	0	14	0	8	0
September	6.5	S.	27	N.	0	12	1	6	4	13	5	11	7	1	16	12	2	3	3	0	0	1	0	0	0	5	0	1	0
October	6.7	S.	25	NW.	0	15	1	4	3	13	8	6	10	2	14	10	7	6	3	5	4	0	0	0	1	0	12	0	0
November	6.8	S.	38	NW.	1	6	3	2	1	23	8	9	8	0	13	7	10	4	1	5	4	0	2	0	4	0	24	0	0
December	5.9	S.	28	W.	0	4	10	5	2	18	11	6	5	1	4	14	13	6	3	16	6	0	8	2	15	0	31	0	0
Year	6.7	S.	38	NW.	2	120	88	75	53	159	59	75	87	16	138	136	92	75	37	70	40	1	14	5	80	68	161	18	3

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MILWAUKEE, WIS.

[ϕ=43°02′ N.; λ=87°54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.26	29.77	28.61	14.7	17.5	17.2	21.9	10.5	16.2	43	−21	10	10	10	80	72	73	0.086	0.087	0.084	2.54	0.94	24.8	7.1	6.1	6.1	6.5
February	29.30	29.66	28.47	8.0	13.9	13.1	19.3	2.3	10.8	48	−17	3	6	6	78	68	72	.063	.067	.067	2.32	.78	23.8	6.2	5.9	6.3	6.4
March	29.11	29.60	28.51	33.5	38.0	36.9	43.9	29.1	36.5	69	8	27	26	27	75	61	67	.151	.143	.151	.67	.20	1.9	7.7	7.0	5.7	6.9
April	29.29	29.70	28.90	37.1	43.6	41.7	48.1	33.5	40.8	74	18	29	31	31	71	62	68	.171	.183	.181	2.30	.76	13.0	6.7	8.0	6.7	7.3
May	29.30	29.70	28.75	57.5	63.7	61.9	70.6	50.8	60.7	87	37	47	47	46	69	57	60	.331	.332	.335	2.55	1.00	.0	4.9	5.7	5.5	5.4
June	29.22	29.60	28.57	59.2	64.7	65.1	71.1	52.9	62.0	91	43	47	48	47	65	56	55	.324	.339	.332	1.93	1.39	.0	4.8	5.9	4.7	5.4
July	29.23	29.67	28.92	71.6	77.6	77.4	82.5	67.2	74.8	101	56	57	58	56	62	54	50	.478	.495	.460	.28	.22	.0	3.6	4.0	4.2	3.9
August	29.26	29.57	28.90	69.1	76.4	73.8	80.4	65.3	72.8	98	56	60	62	61	73	63	66	.524	.558	.545	5.92	1.66	.0	5.4	4.7	4.4	4.9
September	29.29	29.71	28.95	62.5	70.0	66.9	72.9	59.2	66.0	91	45	56	57	56	79	66	70	.468	.493	.478	5.59	2.09	.0	5.2	5.3	4.7	5.5
October	29.29	29.78	28.80	45.3	52.9	52.0	57.3	42.3	49.8	76	28	39	40	41	77	64	66	.251	.269	.275	3.77	1.80	T	6.5	7.0	4.0	6.9
November	29.33	29.92	28.76	32.0	37.3	36.6	42.7	28.3	35.5	63	14	24	24	26	71	58	63	.138	.138	.146	.34	.24	.9	5.5	6.2	6.2	6.3
December	29.37	29.78	28.47	30.0	33.8	32.4	38.3	23.9	31.1	57	−6	24	24	25	76	66	73	.141	.141	.148	2.14	1.00	3.5	6.2	6.1	6.2	6.5
Year	29.27	29.92	28.47	43.4	49.1	47.9	54.1	38.8	46.4	101	−21	35	36	36	73	62	65	.260	.270	.267	30.35	2.09	67.9	5.8	6.0	5.4	6.0

MINNEAPOLIS, MINN.

[ϕ=44°59′ N.; λ=93°18′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.05	29.53	28.49	2.0	7.0	6.4	11.4	−3.7	3.8	35	−34	0	3	4	91	81	86	0.054	0.058	0.058	0.77	0.22	9.1	6.1	5.9	5.9	6.2
February	29.07	29.42	28.29	−4.2	3.6	3.2	7.6	−7.7	.0	41	−26	−6	−2	0	94	77	84	.037	.044	.048	1.55	.47	19.7	4.8	6.2	6.1	6.0
March	28.84	29.39	28.19	25.8	31.7	32.1	36.6	23.2	29.9	56	−6	21	23	25	81	69	74	.119	.128	.138	2.66	.81	16.5	6.9	8.2	7.5	7.8
April	29.05	29.40	28.57	34.2	43.9	44.6	48.1	31.5	39.8	73	6	26	27	29	72	53	55	.150	.160	.172	1.48	.36	2.6	6.5	6.6	6.2	6.6
May	29.00	29.31	28.42	58.3	69.8	70.1	73.8	54.5	64.2	93	33	46	47	47	66	47	47	.325	.340	.339	2.25	1.26	.0	5.6	5.8	5.6	5.7
June	28.97	29.32	28.25	60.8	72.1	72.1	76.5	56.3	66.4	95	46	49	48	49	66	45	48	.355	.347	.368	2.29	1.17	.0	5.5	6.5	5.5	6.1
July	28.96	29.41	28.69	73.8	88.3	88.2	92.5	70.2	81.4	108	55	57	56	55	58	34	34	.477	.450	.451	.11	.04	.0	2.3	3.4	3.0	3.4
August	28.98	29.25	28.62	67.7	80.6	79.0	84.6	64.8	74.7	103	53	56	55	54	68	45	47	.463	.449	.436	3.48	1.61	.0	5.0	5.9	5.8	5.5
September	28.99	29.42	28.63	59.3	72.9	70.0	76.8	56.6	66.7	95	39	51	50	51	75	47	54	.400	.398	.412	.78	.21	.0	4.5	4.3	4.9	4.4
October	29.02	29.61	28.51	40.2	51.5	49.4	56.2	36.6	46.4	75	17	32	33	32	72	50	53	.195	.201	.199	.66	.48	.1	6.4	6.1	5.0	5.9
November	29.09	29.61	28.47	26.9	34.2	32.3	37.9	22.3	30.1	57	10	22	22	22	79	61	65	.118	.124	.122	.66	.36	1.7	4.5	6.6	5.6	6.0
December	29.04	29.46	28.18	20.6	25.2	24.1	30.6	14.5	22.6	51	−14	17	19	19	86	76	79	.107	.116	.113	1.78	.57	11.2	6.8	6.9	5.9	7.1
Year	29.01	29.61	28.18	38.8	48.4	47.6	52.7	34.9	43.8	108	−34	31	32	32	76	57	60	.233	.235	.238	18.47	1.61	60.9	5.4	6.0	5.6	5.9

MISSOULA, MONT.

[ϕ=46°52′ N.; λ=114°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	----	27.08	26.03	24.1	28.7	----	33.3	20.3	26.8	44	−7	20	21	---	84	72	---	0.116	0.119	----	1.23	0.27	10.0	7.3	7.9	----	8.2
February	----	27.01	25.96	8.9	15.6	----	19.8	4.6	12.2	50	−25	6	7	---	86	67	---	.072	.071	----	2.63	.81	43.5	8.5	7.9	----	8.1
March	----	27.01	26.02	29.5	39.1	----	43.9	26.9	35.4	66	5	23	23	---	76	50	---	.126	.124	----	.54	.25	2.8	8.1	8.3	----	8.3
April	----	26.96	26.18	38.4	54.7	----	60.6	36.7	48.6	88	2	31	31	---	76	42	---	.182	.176	----	.51	.16	1.1	6.4	6.2	----	6.5
May	----	26.91	26.23	48.6	68.4	----	74.9	46.6	60.8	95	34	40	39	---	72	37	---	.249	.242	----	1.54	.55	T	5.9	5.8	----	5.9
June	----	26.90	26.28	53.8	71.1	----	76.9	51.5	64.2	97	41	46	45	---	76	43	---	.317	.312	----	2.05	.77	.0	6.7	6.3	----	6.5
July	----	26.82	26.35	59.0	84.4	----	91.2	57.7	74.4	105	48	47	46	---	66	28	---	.331	.317	----	.50	.31	.0	2.0	3.0	----	3.2
August	----	26.90	26.44	56.5	79.6	----	86.4	54.5	70.4	95	41	43	43	---	61	28	---	.284	.283	----	.39	.21	.0	3.2	3.7	----	3.9
September	----	27.06	26.21	44.9	63.8	----	70.9	43.1	57.0	89	30	38	37	--	76	40	---	.229	.229	----	1.22	.55	.0	4.1	4.7	----	4.2
October	----	27.04	26.28	38.5	55.2	----	62.9	35.6	49.2	77	23	32	33	---	78	44	---	.182	.190	----	.47	.17	.2	4.0	3.5	----	3.7
November	----	27.20	26.47	24.3	35.3	----	39.7	21.6	30.6	58	9	22	24	---	88	65	---	.115	.129	----	.13	.09	1.5	3.8	5.1	----	5.4
December	----	27.03	26.23	28.7	34.3	----	38.7	24.2	31.4	56	3	22	24	---	78	65	---	.124	.129	----	.68	.36	8.8	8.7	8.6	----	8.6
Year	----	27.20	25.96	37.9	52.5	----	58.3	35.3	46.8	105	−25	31	31	---	76	48	---	.194	.193	----	11.89	.81	67.9	5.7	5.9	----	6.0

MOBILE, ALA.

[ϕ=30°42′ N.; λ=88°02′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.00	30.49	29.44	46.9	55.9	53.5	59.8	42.9	51.4	77	23	43	43	44	85	64	73	0.315	0.319	0.329	14.59	7.12	T	5.8	4.9	4.7	5.4
February	30.01	30.39	29.52	44.0	56.1	53.3	60.6	41.8	51.2	77	26	40	41	44	85	60	72	.266	.293	.310	4.03	1.26	T	5.8	6.0	5.1	5.9
March	29.90	30.20	29.62	56.3	68.9	64.6	71.9	54.0	63.0	79	40	51	51	52	84	56	68	.408	.413	.426	1.52	.43	0.0	6.1	5.9	6.2	6.0
April	30.01	30.29	29.53	60.6	70.5	67.1	74.5	56.8	65.6	86	39	54	53	56	82	58	70	.458	.440	.471	5.94	2.15	.0	5.4	4.6	5.3	4.8
May	29.95	30.19	29.61	69.2	80.1	76.1	83.1	66.3	74.7	91	59	64	62	64	73	58	69	.593	.578	.611	3.77	1.68	.0	4.3	6.2	6.3	5.5
June	29.86	30.11	29.61	77.4	89.1	83.9	91.9	73.4	82.6	102	60	70	66	70	79	48	63	.750	.661	.724	1.75	1.18	.0	1.8	3.0	2.9	2.8
July	29.93	30.15	29.66	78.5	87.5	81.7	90.6	74.0	82.3	100	68	73	72	72	83	60	74	.806	.779	.787	6.13	1.57	.0	6.4	6.3	7.4	6.6
August	29.94	30.10	29.71	77.4	87.4	83.1	90.5	73.8	82.2	95	66	73	70	73	86	58	73	.813	.749	.820	6.29	2.89	.0	3.6	5.3	4.8	4.7
September	29.93	30.07	29.71	74.6	86.6	81.1	89.4	72.9	81.2	93	63	70	69	72	85	57	74	.732	.717	.781	2.18	.94	.0	3.8	5.8	3.8	5.3
October	29.98	30.25	29.75	62.7	77.9	73.2	80.6	61.2	70.9	88	46	58	58	61	86	53	68	.507	.515	.569	.42	.33	.0	3.4	3.9	3.1	4.1
November	30.11	30.40	29.83	49.9	63.3	60.4	67.1	48.2	57.6	82	30	45	45	46	82	54	62	.320	.331	.344	2.86	1.13	.0	5.6	5.1	4.1	5.0
December	30.09	30.43	29.73	48.5	58.6	55.6	62.2	46.3	54.2	75	32	45	47	48	88	69	79	.322	.351	.360	4.03	.92	.0	7.2	7.1	5.9	7.0
Year	29.98	30.49	29.44	62.2	73.5	69.5	76.8	59.3	68.1	102	23	57	56	58	83	58	70	.524	.512	.544	53.51	7.12	T	4.9	5.3	5.0	5.3

Notes at end of table.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MILWAUKEE, WIS.

[H=619 ft.; H_b=681 ft.; h_t=97 ft.; h_r=89 ft.; h_a=221 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	13.2	W.	35	NE.	2	7	3	4	3	4	7	20	14	0	8	7	16	14	9	19	14	0	4	0	21	0	31	0	0
February	14.3	W.	46	SE.	6	10	2	4	3	2	3	19	15	0	6	9	14	11	7	19	11	0	3	0	23	0	27	0	0
March	13.0	W.	39	SW.	2	7	4	6	8	5	5	18	9	0	6	9	16	9	7	11	4	0	2	0	4	0	17	2	0
April	12.7	N.	41	N.	2	10	4	6	6	8	9	7	10	0	3	10	17	13	9	8	5	0	7	1	4	0	13	1	3
May	11.6	W.	35	N.	2	7	5	5	7	7	13	14	4	0	8	14	9	7	5	0	0	1	5	4	0	0	0	7	0
June	11.6	N.	35	W.	2	17	8	8	4	8	3	10	2	0	10	8	12	8	4	0	0	0	4	2	0	1	0	6	0
July	10.1	E.	28	NE.	0	17	7	11	6	8	2	9	2	0	13	15	3	5	1	0	0	0	0	0	0	9	0	4	0
August	12.0	E.	47	N.	2	8	9	10	6	9	8	19	2	0	10	13	8	14	13	0	0	1	8	1	0	6	0	11	0
September	11.9	SW.	34	N.	1	12	3	7	6	16	10	4	8	0	10	9	11	15	14	0	0	0	5	0	0	1	0	7	0
October	12.9	W.	34	W.	2	15	0	4	1	7	11	18	6	0	8	4	19	10	8	3	1	0	5	3	0	0	4	5	0
November	14.9	W.	36	SW.	4	10	5	3	1	3	12	15	11	0	8	6	16	3	2	9	2	0	2	2	4	0	21	0	0
December	14.1	W.	41	SW.	3	5	0	4	7	9	15	13	9	0	8	5	18	7	6	9	2	0	5	2	3	0	26	1	0
Year	12.7	W.	47	N.	28	125	50	72	58	80	98	157	92	0	98	109	159	116	85	78	39	2	50	15	59	17	139	44	3

MINNEAPOLIS, MINN.

[H=839 ft.; H_b=919 ft.; h_t=105 ft.; h_r=97 ft.; h_a=208 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.8	NW.	34	NW.	1	5	3	3	7	1	4	19	20	0	11	4	16	13	6	23	13	0	18	2	29	0	31	0	0
February	10.9	W.	28	W.	0	10	1	4	5	2	3	23	10	0	8	9	12	10	5	15	10	0	8	0	27	0	29	0	1
March	11.9	W.	33	NW.	3	7	3	2	8	7	4	13	18	0	1	11	19	11	9	16	8	1	14	0	10	0	27	2	0
April	11.9	NW.	36	NW.	2	13	4	8	6	5	4	6	14	0	4	13	13	11	7	8	3	0	9	0	6	0	12	4	2
May	10.5	N.	34	W.	2	9	3	4	11	7	7	10	11	0	8	11	12	8	6	0	0	0	8	1	0	1	0	10	0
June	10.2	N.	32	W.	1	21	3	5	7	12	5	4	3	0	6	12	12	10	7	0	0	1	5	0	0	3	0	5	3
July	9.5	S.	32	NW.	1	15	1	8	16	12	10	4	2	0	19	8	4	6	1	0	0	0	0	0	0	17	0	3	0
August	9.8	N.	41	W.	1	14	6	5	8	15	6	5	2	1	10	11	10	7	5	0	0	0	5	0	0	11	0	5	0
September	10.1	S.	30	SE.	0	10	3	2	9	18	5	6	7	0	12	10	8	9	5	0	0	0	7	1	0	3	0	6	2
October	11.8	W.	34	N.	2	11	0	5	3	16	5	8	14	0	9	6	16	4	3	3	1	0	9	1	1	0	10	2	1
November	12.2	NW.	38	NW.	3	6	3	3	4	5	4	16	19	0	7	10	13	3	3	9	2	0	10	0	7	0	27	0	0
December	11.0	W.	36	NW.	1	5	2	2	13	11	7	17	5	0	7	6	18	10	9	16	7	0	17	2	15	0	29	0	0
Year	10.8	W.	41	W.	17	126	32	51	91	111	64	137	125	1	102	111	153	102	66	90	44	2	110	7	95	35	165	37	9

MISSOULA, MONT.

[H=3,200 ft.; H_b=3,263 ft.; h_t=80 ft.; h_r=77 ft.; h_a=91 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.9	SE.	27	SE.	0	1	0	8	12	3	2	5	0	0	4	2	25	12	11	22	10	0	5	2	12	0	27	0	0
February	6.2	W.	31	E.	0	1	1	4	6	5	3	7	2	0	2	7	20	17	14	20	16	0	1	0	21	0	25	0	0
March	7.8	SW.	37	E.	2	2	2	4	8	3	2	5	5	0	1	6	24	12	5	16	8	0	0	0	2	0	24	0	0
April	8.0	NW.	37	W.	1	3	1	8	7	4	2	3	2	0	7	7	16	9	7	4	3	1	0	0	1	0	5	1	0
May	7.2	SE.	31	E.	0	3	0	7	8	6	2	4	0	1	9	9	13	12	6	1	0	0	1	0	0	5	0	7	0
June	7.0	NW.	31	W.	0	0	2	9	5	5	2	5	1	1	6	7	17	12	9	0	0	0	0	0	0	5	0	6	0
July	6.6	SE.	30	SE.	0	1	0	5	19	2	2	0	0	2	18	9	4	5	4	0	0	1	0	0	0	16	0	7	0
August	6.8	SE.	38	S.	3	0	0	11	13	4	0	2	1	0	14	12	5	5	3	0	0	0	0	0	0	10	0	7	0
September	6.1	SE.	35	E.	1	2	1	7	14	2	1	1	0	2	14	8	8	7	4	0	0	0	0	0	0	0	1	3	0
October	5.6	SE.	31	E.	0	0	0	8	15	5	1	0	1	1	16	8	7	6	5	3	2	0	0	0	0	0	9	0	0
November	5.3	SE.	30	E.	0	1	0	8	13	4	0	0	0	4	12	5	13	5	2	6	4	0	4	4	8	0	29	0	0
December	7.4	SE.	29	E.	0	1	0	7	6	4	3	5	0	5	0	7	24	12	4	18	9	0	2	2	7	0	24	0	0
Year	6.7	SE.	38	S.	7	15	7	86	126	47	20	37	12	16	103	87	176	114	74	90	52	2	13	8	51	36	144	31	0

MOBILE, ALA.

[H=10 ft.; H_b=57 ft.; h_t=86 ft.; h_r=78 ft.; h_a=161 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.5	N.	28	NW.	0	17	9	3	7	10	4	4	8	0	10	8	13	17	12	1	0	0	7	3	0	0	8	6	0
February	8.9	N.	29	NW.	0	22	5	5	5	9	4	0	7	1	8	9	12	13	10	1	0	0	7	2	0	0	4	3	0
March	8.5	S.	36	NW.	1	6	4	2	10	17	4	10	7	2	8	9	14	10	7	0	0	0	3	0	0	0	0	2	0
April	8.8	S.	26	S.	0	12	4	4	5	18	4	3	9	1	11	9	10	11	9	0	0	0	4	2	0	0	0	7	0
May	7.3	N.	19	NE.	0	16	13	12	3	11	1	4	1	1	7	17	7	7	7	0	0	0	4	2	0	1	0	11	0
June	7.5	S.	26	SE.	0	11	5	1	3	22	8	6	3	1	19	11	0	4	3	0	0	0	1	0	0	27	0	5	0
July	8.0	S.	32	NE.	1	7	5	1	1	21	14	8	5	0	1	22	8	16	14	0	0	0	1	0	0	19	0	16	0
August	6.1	S.	27	N.	0	15	7	3	6	19	3	5	3	1	9	16	6	12	12	0	0	0	1	0	0	20	0	9	0
September	6.2	S.	17	N.	0	7	13	6	1	10	11	6	6	0	7	19	4	8	7	0	0	0	1	0	0	12	0	8	0
October	8.2	N.	24	N.	0	21	11	5	7	3	2	4	9	0	14	10	7	2	2	0	0	0	4	1	0	0	0	1	0
November	10.1	N.	27	NW.	0	23	3	3	4	3	2	7	15	0	13	6	11	6	5	0	0	0	0	0	0	0	1	2	0
December	10.3	N.	26	NW.	0	20	9	6	7	7	1	3	9	0	5	9	17	10	9	0	0	0	6	2	0	0	1	2	0
Year	8.2	N.	36	NW.	2	177	88	51	59	150	58	60	82	7	112	145	109	116	97	2	0	0	39	12	0	79	14	72	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MODENA, UTAH

[ϕ=37°48′ N.; λ=113°54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	24.61	24.90	24.25	22.1	39.1	36.7	43.0	16.5	29.8	58	5	16	21	21	79	48	53	0.091	0.111	0.111	0.06	0.05	0.2	4.1	4.1	3.8	4.2
February	24.49	24.90	24.12	28.2	40.5	39.5	44.3	23.8	34.0	57	5	23	25	25	83	55	58	.129	.136	.137	1.65	.53	4.0	4.8	5.6	6.8	5.9
March	24.53	24.90	23.99	28.0	49.7	50.9	55.3	25.6	40.4	68	16	20	20	19	72	34	32	.108	.106	.104	.67	.23	6.3	3.8	5.5	4.9	4.4
April	24.59	24.94	24.21	34.6	62.5	63.3	67.4	32.5	50.0	82	18	22	22	19	60	23	21	.118	.116	.105	.08	.06	.3	3.4	4.3	4.9	4.6
May	24.58	24.77	24.35	42.3	70.2	71.6	74.8	39.5	57.2	85	29	22	21	21	44	19	17	.117	.128	.115	.19	.07	T	2.6	3.3	3.2	3.2
June	24.58	24.75	24.34	51.9	81.0	81.8	85.5	42.4	67.5	98	36	31	33	30	47	19	17	.180	.190	.172	.12	.09	.0	3.3	2.9	4.2	3.3
July	24.65	24.81	24.44	58.1	82.5	79.9	86.8	56.8	71.8	95	45	46	48	47	67	34	37	.329	.344	.335	2.21	.57	.0	3.3	4.0	6.4	4.6
August	24.68	24.83	24.49	57.0	80.5	81.5	85.3	55.0	70.2	91	43	47	48	45	71	36	32	.337	.352	.318	2.13	1.19	.0	2.6	3.8	4.0	3.4
September	24.62	24.85	24.21	45.1	72.8	73.8	77.2	42.0	59.6	88	29	29	32	28	53	24	19	.169	.191	.159	.28	.21	.0	.6	1.7	1.4	1.3
October	24.66	24.86	24.36	37.3	59.3	57.9	63.5	34.2	48.8	81	25	29	33	32	73	42	44	.163	.191	.184	2.73	.88	T	2.5	4.6	4.7	4.2
November	24.79	25.08	24.30	23.3	47.9	43.4	52.5	20.7	36.6	67	15	19	23	22	84	38	43	.102	.122	.118	.05	.05	.1	.5	1.4	2.1	1.3
December	24.60	24.94	24.10	22.5	38.4	34.2	42.1	17.5	29.8	55	−7	18	25	24	83	60	67	.101	.132	.127	1.36	.47	19.8	3.5	4.5	4.9	4.6
Year	24.62	25.08	23.99	37.5	60.4	59.5	64.8	34.5	49.6	98	−7	27	30	28	68	36	37	.162	.177	.165	11.44	1.19	30.7	2.9	3.8	4.3	3.8

MONTGOMERY, ALA.

[ϕ=32°23′ N.; λ=86°18′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.83	30.31	29.14	42.2	50.2	49.5	56.2	38.3	47.2	77	19	37	37	37	82	62	64	0.285	0.280	0.255	12.14	3.84	0.3	6.1	5.1	4.8	5.4
February	29.85	30.21	29.32	41.6	51.6	51.8	57.9	39.3	48.6	76	21	36	35	36	79	56	58	.231	.230	.240	7.29	2.50	.0	7.7	6.6	5.7	7.1
March	29.71	29.97	29.40	53.4	67.1	65.4	72.6	51.3	62.0	87	38	46	44	43	75	47	49	.237	.330	.317	2.08	1.05	.0	5.7	5.8	6.0	5.6
April	29.83	30.13	29.31	57.5	69.2	67.4	74.3	54.2	64.2	89	36	50	48	49	78	50	55	.395	.370	.381	6.16	1.97	.0	5.5	5.3	4.8	5.4
May	29.70	30.11	29.45	68.8	81.1	78.2	85.4	65.5	75.4	93	60	60	57	58	73	45	52	.520	.473	.492	2.22	1.59	.0	4.7	4.6	5.8	5.2
June	29.69	29.99	29.46	75.1	89.1	85.4	93.4	71.1	82.2	99	60	68	63	64	77	43	52	.677	.582	.609	4.14	1.49	.0	2.8	2.4	2.9	2.8
July	29.75	29.96	29.53	76.3	86.6	82.0	92.1	72.6	82.4	102	62	72	70	70	86	60	70	.771	.740	.736	9.16	4.55	.0	6.5	5.9	7.1	6.5
August	29.79	29.95	29.55	76.4	87.2	83.7	91.3	72.6	82.0	96	64	72	70	71	85	57	66	.773	.726	.758	3.43	1.01	.0	3.7	4.6	4.2	4.3
September	29.78	29.97	29.57	72.9	84.9	80.2	88.7	70.5	79.6	94	63	68	68	69	86	58	69	.698	.686	.706	1.86	.57	.0	4.3	5.2	3.4	4.3
October	29.83	30.06	29.54	61.8	74.5	71.1	78.4	59.6	69.0	88	46	58	57	58	87	56	64	.498	.444	.503	2.45	1.84	.0	4.3	4.7	4.0	4.6
November	29.94	30.24	29.63	47.6	60.4	58.1	65.6	45.4	55.5	82	27	41	40	41	89	50	56	.275	.278	.286	2.10	.85	.0	5.3	5.0	4.4	5.0
December	29.93	30.31	29.53	46.3	55.0	54.2	59.8	44.3	52.0	76	31	43	44	44	88	70	72	.293	.311	.312	6.63	1.37	.0	6.9	7.3	7.2	7.6
Year	29.81	30.31	29.14	59.9	71.4	68.9	76.3	57.1	66.7	102	19	54	53	53	81	54	61	.478	.457	.466	59.66	4.55	.3	5.3	5.2	5.0	5.3

MOORHEAD, MINN.

[ϕ=46°52′ N.; λ=96°44′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.08	29.59	28.43	−8.3	−2.6	−3.5	2.7	−15.1	−6.2	25	−37	−9	−5	−4	97	90	96	0.030	0.035	0.036	0.39	0.21	6.3	5.3	7.0	5.4	6.4
February	29.10	29.41	28.44	−13.8	−6.5	−6.2	−1.3	−18.2	−9.8	30	−37	14	−9	−7	97	89	96	.023	.030	.032	1.38	.66	18.0	5.1	6.1	4.9	5.8
March	28.83	29.44	28.16	19.8	28.0	27.4	32.0	16.1	24.0	48	−13	18	22	23	90	76	83	.103	.124	.129	1.31	.79	13.1	6.8	8.3	8.4	7.8
April	29.05	29.47	28.47	29.3	40.2	40.9	45.9	25.9	35.9	72	2	24	26	28	81	59	61	.138	.164	.160	.74	.46	1.1	5.7	6.2	5.1	5.8
May	28.93	29.34	28.28	53.8	68.5	71.4	75.2	49.1	62.2	91	35	45	45	46	74	46	42	.315	.313	.325	1.22	.65	.0	5.9	5.5	3.8	5.0
June	28.90	29.33	28.35	58.4	72.5	74.4	77.8	53.5	65.6	99	39	49	48	48	72	46	42	.365	.362	.351	.48	.26	.0	6.7	6.3	4.5	5.5
July	28.88	29.33	28.57	71.3	88.6	90.6	94.0	66.4	80.2	114	49	57	56	55	63	35	32	.481	.457	.444	.42	.20	.0	3.0	2.8	3.2	2.9
August	28.95	29.31	28.65	62.6	77.7	78.8	83.3	59.8	71.6	98	49	53	54	53	72	46	44	.404	.430	.412	.96	.59	.0	6.6	6.5	6.9	6.8
September	28.94	29.38	28.47	52.8	69.8	67.1	75.0	49.4	62.2	101	31	46	45	46	79	44	50	.339	.336	.338	.26	.11	.0	5.4	6.0	7.1	6.3
October	29.00	29.63	28.39	33.3	48.2	46.8	54.5	28.6	41.6	84	4	28	28	28	76	48	50	.152	.165	.184	.36	.18	1.9	5.7	6.0	5.5	6.1
November	29.10	29.64	28.56	21.9	28.8	26.8	34.1	16.4	25.2	54	−3	18	22	22	85	75	82	.101	.119	.121	.58	.26	6.6	6.4	7.1	6.0	6.9
December	29.01	29.46	28.38	13.3	17.3	16.3	23.1	5.4	14.2	42	−18	11	13	13	88	83	88	.077	.086	.089	.77	.32	11.9	7.2	7.2	6.4	7.4
Year	28.98	29.46	28.16	32.9	44.2	44.2	49.7	28.1	38.9	114	−37	27	29	29	81	61	64	.211	.218	.217	8.87	.79	58.9	5.8	6.2	5.6	6.1

NANTUCKET, MASS.

[ϕ=41°17′ N.; λ=70°06′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.90	30.48	28.87	28.6	33.2	31.3	37.3	25.5	31.4	51	11	23	24	25	79	68	77	0.132	0.139	0.148	4.92	1.94	0.7	6.5	5.6	4.7	6.6
February	30.02	30.46	29.34	24.6	29.8	27.5	32.9	20.8	26.8	49	7	19	20	22	76	67	77	.110	.120	.123	2.71	1.31	4.1	4.6	5.7	5.5	6.1
March	29.92	30.39	29.12	42.3	46.3	41.2	48.6	37.7	43.2	60	25	37	37	36	82	72	83	.220	.231	.224	4.27	1.09	T	7.0	5.6	4.6	6.0
April	29.98	30.52	29.31	44.2	47.8	43.7	49.8	39.4	44.6	64	32	35	36	37	70	66	78	.209	.222	.228	2.21	.45	.0	5.7	5.6	4.6	5.5
May	30.00	30.58	29.43	55.8	58.9	52.5	61.2	48.7	55.0	76	42	46	46	46	72	66	81	.324	.328	.322	.87	.68	.0	4.3	3.4	3.1	4.5
June	29.90	30.28	29.43	62.1	66.1	59.8	68.0	56.8	62.4	76	52	57	58	57	85	76	91	.469	.480	.467	3.59	1.82	.0	5.5	4.6	5.1	6.0
July	29.86	30.29	29.52	66.9	70.7	64.4	73.6	61.1	67.4	83	57	60	59	61	80	69	88	.526	.511	.536	1.58	1.04	.0	5.1	5.2	5.3	5.7
August	30.00	30.30	29.67	67.3	71.2	65.3	73.4	61.7	67.6	82	55	62	63	62	84	75	88	.564	.576	.560	2.84	1.58	.0	6.8	4.9	4.3	5.7
September	30.08	30.46	29.26	62.8	65.5	60.8	68.2	57.4	62.8	78	47	56	55	56	80	73	84	.467	.449	.464	4.15	3.19	.0	5.9	6.2	5.4	6.7
October	30.07	30.57	29.26	55.2	58.7	53.3	60.8	49.2	55.0	71	32	48	48	47	77	70	81	.355	.364	.347	4.28	2.41	.0	3.9	4.3	3.9	5.8
November	30.00	30.60	29.32	42.6	45.7	42.7	50.1	36.7	43.4	65	18	35	36	34	76	70	71	.228	.236	.220	1.81	.53	.2	6.2	6.6	5.5	6.4
December	30.21	30.70	29.45	38.2	41.5	39.7	45.5	34.0	39.8	55	17	34	34	34	83	76	80	.205	.209	.207	7.04	1.58	T	6.2	7.0	5.6	7.7
Year	30.00	30.70	28.87	49.2	53.0	48.5	55.8	44.1	50.0	83	7	43	43	43	79	71	82	.318	.322	.320	40.27	3.19	5.0	5.6	5.4	4.8	6.1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

MODENA, UTAH

[H=5,460 ft.; H_b=5,473 ft.; h_t=10 ft.; h_r=3 ft.; h_a=46 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	9.6	SW.	32	SW.	1	5	9	5	0	1	16	23	3	0	15	8	8	2	1	6	1	0	0	0	2	0	31	0	0
February	11.4	SW.	36	SW.	3	0	1	2	1	2	24	22	6	0	9	6	14	10	10	10	6	0	0	0	1	0	23	1	0
March	10.1	W.	38	W.	2	4	6	10	4	1	16	14	6	1	12	10	9	5	5	6	5	0	0	0	0	0	30	0	0
April	10.3	W.	38	S.	2	4	1	3	1	7	14	23	6	1	14	8	8	2	1	1	1	1	0	0	0	0	10	2	0
May	11.3	SW.	41	S.	8	3	7	5	2	9	11	17	8	0	16	11	4	2	1	1	0	0	0	0	0	0	4	0	0
June	11.3	SW.	35	SW.	2	2	1	3	1	8	23	20	2	0	17	8	5	2	1	0	0	0	0	0	0	13	0	5	0
July	9.4	SW.	35	W.	1	4	5	5	4	1	17	21	5	0	9	19	3	16	10	0	0	2	0	0	0	18	0	20	0
August	9.3	SW.	33	NW.	1	0	3	4	3	7	17	24	4	0	17	11	3	10	7	0	0	0	0	0	0	3	0	15	0
September	9.9	SW.	35	SW.	3	2	4	12	2	10	13	15	2	0	24	5	1	2	2	0	0	0	0	0	0	0	1	4	0
October	8.5	W.	25	E.	0	2	11	16	1	4	8	19	1	0	17	4	10	9	8	1	1	1	0	0	0	0	11	3	0
November	7.6	W.	26	NW.	0	7	13	8	2	0	10	19	1	0	26	3	1	1	1	2	1	0	0	0	0	0	30	0	0
December	8.7	W.	29	W.	0	4	5	7	2	3	25	14	1	1	14	6	11	8	8	9	8	0	0	0	3	0	31	1	0
Year	9.8	SW.	41	S.	23	37	66	80	23	53	194	231	45	3	190	99	77	69	55	36	23	4	0	0	6	34	171	51	0

MONTGOMERY, ALA.

[H=201 ft.; H_b=218 ft.; h_t=92 ft.; h_r=90 ft.; h_a=105 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.0	N.	30	W.	0	15	5	10	8	9	3	7	4	1	12	6	13	14	13	2	1	0	3	1	1	0	11	5	0
February	7.6	N.	28	N.	0	17	6	9	7	7	0	5	6	1	8	1	20	16	13	0	0	1	10	0	0	0	6	3	0
March	8.4	SE.	31	NW.	0	8	6	5	12	9	5	8	7	2	10	10	11	7	6	0	0	1	3	0	0	0	0	5	0
April	7.7	N.	20	SW.	0	14	6	5	7	10	5	6	6	1	12	2	16	11	9	0	0	0	2	0	0	0	0	6	0
May	6.5	E.	19	E.	0	9	6	18	10	3	3	8	4	1	10	11	10	5	5	0	0	0	4	3	0	2	0	5	0
June	6.6	SW.	32	SW.	1	6	9	8	3	9	15	6	4	0	18	11	1	5	5	0	0	1	1	0	0	24	0	8	0
July	6.9	SW.	33	NE.	1	4	3	0	4	12	20	11	7	1	5	13	13	15	13	0	0	0	3	0	0	22	0	15	0
August	5.6	E.	30	NE.	0	6	9	16	7	6	5	5	7	1	14	12	5	8	8	0	0	0	4	1	0	21	0	9	0
September	5.9	E.	19	NE.	0	4	11	16	9	4	7	3	4	2	13	14	3	9	8	0	0	0	3	1	0	11	0	9	0
October	6.6	N.	19	NW.	0	11	13	19	2	2	2	4	9	0	14	8	9	6	4	0	0	0	5	0	0	0	0	2	0
November	7.2	N.	22	W.	0	14	8	8	4	1	9	10	4	2	14	4	12	6	5	0	0	0	5	1	0	0	3	0	0
December	7.8	E.	21	SW.	0	13	11	16	6	5	1	5	5	0	6	4	21	15	14	0	0	0	13	1	0	0	2	2	0
Year	7.1	N.	33	NE.	2	121	93	130	79	77	75	78	67	12	136	96	134	117	103	2	1	3	56	8	1	80	22	69	0

MOORHEAD, MINN.

[H=904 ft.; H_b=940 ft.; h_t=50 ft.; h_r=43 ft.; h_a=58 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.7	N.	20	NW.	0	17	3	1	0	12	5	3	20	1	5	12	14	11	3	23	11	0	2	1	31	0	31	0	0
February	8.8	N.	23	NW.	0	18	0	3	0	6	4	10	14	3	9	5	15	11	8	17	9	0	1	1	29	0	29	0	0
March	10.3	NW.	27	N.	0	8	5	3	2	12	6	8	18	0	2	8	21	10	5	19	7	0	4	0	14	0	30	0	0
April	9.4	N.	24	NW.	0	22	4	6	0	17	1	4	5	1	7	14	9	5	4	5	1	0	2	0	7	0	20	0	5
May	9.4	S.	25	NW.	0	13	6	2	9	15	7	6	4	0	10	13	8	6	5	0	0	0	0	0	0	1	0	4	0
June	9.3	S.	24	SE.	0	10	9	1	5	23	1	3	7	1	8	12	10	8	4	0	0	0	1	1	0	3	0	5	3
July	8.7	S.	24	S.	0	5	8	4	14	18	3	3	7	0	17	12	2	4	2	0	0	0	1	0	0	21	0	5	0
August	8.2	N.	21	SW.	0	13	11	7	9	11	3	2	6	0	3	13	15	6	3	0	0	0	1	1	0	10	0	7	0
September	8.9	S.	24	SW.	0	13	2	4	10	15	4	5	7	0	5	12	13	6	3	0	0	0	3	1	0	1	1	7	0
October	9.4	N.	25	S.	0	16	2	4	5	14	5	6	10	0	7	10	14	4	4	4	2	0	2	1	3	0	21	0	2
November	10.2	N.	34	NW.	1	19	4	2	1	15	4	6	9	0	4	10	16	6	4	12	5	0	1	1	12	0	29	0	0
December	9.3	S.	35	NW.	1	10	2	2	6	19	3	8	11	1	4	8	19	11	5	14	9	0	8	3	20	0	31	0	0
Year	9.1	S.	35	NW.	2	164	56	39	61	177	46	64	118	7	81	129	156	88	50	94	44	0	26	10	116	36	192	28	10

NANTUCKET, MASS.

[H=35 ft.; H_b=12 ft.; h_t=14 ft.; h_r=4 ft.; h_a=90 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	15.4	W.	46	SE.	11	7	1	3	3	5	6	25	12	0	5	8	18	16	10	7	4	0	8	6	8	0	23	0	0
February	14.8	W.	49	E.	4	7	3	5	6	3	2	21	10	1	9	6	14	11	9	9	6	0	6	3	16	0	25	0	0
March	16.1	S.	41	SW.	5	5	2	7	12	13	9	9	5	0	9	9	13	13	11	1	0	0	14	7	0	0	7	2	0
April	16.4	SW.	43	S.	7	7	4	2	6	8	17	14	2	0	9	10	11	12	9	0	0	0	9	5	0	0	0	1	0
May	15.8	SW.	42	SW.	5	6	5	0	3	19	16	8	5	0	14	8	9	7	4	0	0	0	12	9	0	0	0	2	0
June	14.9	SW.	52	NE.	3	4	15	5	3	10	17	4	2	0	7	11	12	10	6	0	0	0	16	12	0	0	0	1	0
July	12.1	SW.	35	SW.	2	6	8	7	4	7	18	8	4	0	9	11	11	5	4	0	0	0	14	8	0	0	0	7	0
August	13.4	SW.	34	SW.	1	5	10	10	3	7	19	7	1	0	10	9	12	10	8	0	0	0	17	6	0	0	0	5	0
September	14.0	SW.	45	N.	5	8	10	8	2	11	16	2	3	0	5	8	17	8	6	0	0	0	14	11	0	0	0	2	0
October	14.4	SW.	40	SE.	5	7	3	4	8	12	11	11	6	0	10	7	14	12	8	0	0	0	9	8	0	0	2	0	0
November	15.8	W.	46	SW.	5	5	3	1	3	9	13	12	14	0	7	7	16	12	10	4	1	0	5	0	1	0	11	1	0
December	16.3	W.	41	E.	7	4	7	9	4	7	7	13	11	0	7	3	21	12	12	2	0	0	13	8	1	0	9	1	0
Year	15.0	SW.	52	NE.	60	71	71	61	57	111	151	134	75	1	101	97	168	128	97	23	11	0	137	83	16	0	77	22	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

NASHVILLE, TENN.

[ϕ=36°10′ N.; λ=86°47′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.51	30.04	29.06	28.3	36.6	35.4	42.3	23.6	33.0	68	−3	24	26	29	82	66	70	0.145	0.156	0.156	3.52	1.21	9.2	6.5	6.5	5.0	6.5
February	29.53	29.85	28.87	30.5	38.3	39.2	44.9	26.5	35.7	73	−1	25	26	27	79	62	63	.155	.169	.168	1.52	.39	5.0	6.6	5.6	6.1	5.9
March	29.35	29.66	28.91	46.1	58.7	58.8	64.3	43.4	53.8	75	32	38	38	38	73	49	49	.234	.244	.249	8.40	2.83	T	6.2	5.1	5.0	5.5
April	29.50	29.90	28.89	49.2	60.5	59.8	66.7	45.6	56.2	87	27	40	38	40	71	47	53	.260	.248	.272	3.70	1.79	.1	5.9	5.9	5.8	5.9
May	29.50	29.85	29.20	64.3	78.5	77.7	82.8	59.8	71.3	91	48	53	50	50	69	38	40	.416	.370	.375	1.41	.89	.0	2.7	3.8	4.4	4.0
June	29.35	29.60	29.07	72.3	87.1	86.9	91.8	67.8	79.8	101	53	57	55	53	60	35	35	.474	.447	.423	.21	.15	.0	2.3	3.6	4.0	3.2
July	29.40	29.65	29.21	75.4	85.6	84.4	90.8	71.7	81.2	101	64	69	69	69	80	60	62	.710	.727	.724	8.33	2.82	.0	5.5	5.2	6.8	5.8
August	29.46	29.66	29.23	74.7	87.9	85.9	91.7	72.0	81.8	102	58	68	66	66	79	49	54	.679	.643	.658	.59	.29	.0	4.7	5.0	4.5	4.8
September	29.46	29.68	29.17	68.8	81.7	79.3	85.9	66.1	76.0	94	53	64	64	63	84	57	59	.598	.601	.583	1.86	.85	.0	5.0	6.7	4.7	5.6
October	29.53	29.81	29.20	55.8	66.6	63.9	70.5	51.5	61.0	81	36	50	49	50	88	56	62	.387	.372	.376	3.38	1.49	.0	5.6	6.5	4.7	5.9
November	29.62	29.95	29.27	40.3	50.6	48.7	55.8	36.1	46.0	79	20	34	36	36	79	60	63	.209	.229	.224	3.52	2.81	1.3	5.0	5.0	3.3	4.9
December	29.62	29.96	29.15	38.2	48.0	47.0	52.3	35.2	43.8	68	24	34	36	36	84	66	69	.209	.232	.234	4.72	1.34	T	6.9	6.6	5.4	6.8
Year	29.48	30.04	28.87	53.7	65.0	63.9	70.6	49.9	60.0	102	−3	46	46	46	77	54	57	.373	.369	.370	41.16	2.83	15.6	5.2	5.5	5.0	5.4

NEW HAVEN, CONN.

[ϕ=41°18′ N.; λ=72°56′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.85	30.44	28.93	24.6	30.7	29.3	34.6	21.9	28.2	53	1	18	18	18	72	58	63	0.110	0.112	0.115	7.56	2.50	11.5	5.5	5.9	5.2	5.6
February	29.97	30.37	29.24	19.6	26.7	25.7	30.8	16.6	23.7	48	1	12	14	14	70	58	59	.083	.092	.093	3.05	.87	9.3	5.9	5.6	4.1	5.7
March	29.81	30.32	29.00	39.9	47.0	43.4	50.9	35.9	43.4	65	14	33	35	35	78	65	73	.205	.220	.216	6.43	2.23	3.3	6.4	5.4	6.7	6.4
April	29.91	30.43	29.31	43.0	49.1	46.6	52.8	39.0	45.9	78	30	34	34	35	72	59	67	.206	.210	.216	3.46	1.71	T	6.3	7.1	6.4	6.7
May	29.92	30.53	29.43	57.5	65.4	60.7	70.2	50.8	60.5	90	40	46	49	48	68	59	65	.326	.370	.346	1.58	.82	.0	4.2	4.3	4.1	4.3
June	29.81	30.19	29.36	65.6	70.8	68.0	74.5	59.3	66.9	88	52	55	55	57	71	61	70	.448	.450	.473	13.96	7.50	.0	6.4	6.1	5.8	6.2
July	29.77	30.19	29.44	70.1	76.7	73.2	81.1	64.0	72.6	94	57	59	59	61	68	57	68	.509	.518	.552	1.45	.63	.0	5.6	4.8	5.5	5.4
August	29.90	30.23	29.61	68.8	76.2	72.5	80.2	63.8	72.0	93	56	61	62	62	77	62	72	.545	.561	.576	2.21	.80	.0	5.7	5.5	6.0	5.7
September	29.99	30.36	29.51	61.9	69.1	65.6	71.9	57.7	64.8	88	41	54	56	57	77	65	75	.441	.465	.484	5.40	4.73	.0	6.2	7.0	6.6	6.6
October	29.98	30.49	29.09	51.1	60.0	55.2	62.4	46.1	54.2	75	25	44	45	45	77	59	70	.318	.327	.334	5.10	2.39	.0	5.6	6.1	4.7	5.8
November	29.93	30.57	29.24	37.4	44.1	41.3	48.7	32.7	40.7	71	15	28	29	29	69	56	62	.175	.180	.184	1.09	.52	3.5	5.6	5.0	5.0	5.2
December	30.13	30.63	29.33	33.6	38.6	37.0	43.4	28.7	36.0	58	11	26	27	28	74	63	69	.156	.156	.165	8.34	1.57	.7	6.9	5.9	5.8	6.1
Year	29.92	30.63	28.93	47.8	54.5	51.5	58.5	43.0	50.7	94	1	39	40	41	73	60	68	.294	.305	.313	59.63	7.50	28.3	5.9	5.7	5.5	5.8

NEW ORLEANS, LA.

[ϕ=29°57′ N.; λ=90°04′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	30.00	30.48	29.49	49.9	57.9	55.9	62.5	46.5	54.5	79	29	47	46	48	89	67	75	0.357	0.356	0.364	8.78	4.24	T	6.0	5.5	4.9	5.2
February	30.01	30.34	29.55	48.1	58.1	56.4	62.4	45.8	54.1	79	30	43	44	46	84	60	72	.308	.315	.343	5.46	2.10	0.0	7.0	6.5	5.7	6.3
March	29.91	30.21	29.66	59.6	71.2	67.3	74.4	57.3	65.8	83	47	54	52	54	83	54	66	.450	.429	.455	2.25	.70	.0	5.3	6.8	6.5	6.2
April	30.01	30.35	29.58	62.1	71.7	70.3	76.9	58.6	67.8	88	46	55	54	55	80	57	61	.468	.450	.456	6.55	2.56	.0	5.0	5.1	3.6	4.7
May	29.94	30.13	29.60	72.6	80.1	77.1	82.8	69.5	76.2	88	66	66	64	64	79	60	66	.636	.608	.601	3.97	1.76	.0	4.9	6.5	5.5	6.1
June	29.87	30.07	29.67	79.2	88.7	86.3	92.0	75.7	83.8	98	68	71	68	70	77	51	60	.771	.692	.746	.71	.42	.0	3.0	3.9	3.2	3.5
July	29.95	30.16	29.69	79.5	87.5	83.2	90.9	76.3	83.6	96	71	74	72	72	83	61	71	.834	.788	.794	8.43	2.43	.0	5.8	6.5	7.4	6.6
August	29.95	30.12	29.77	79.0	86.9	83.2	90.1	76.4	83.2	95	70	74	73	73	85	64	72	.841	.809	.814	7.48	2.77	.0	4.2	5.7	5.2	5.8
September	29.93	30.05	29.78	78.0	86.3	81.8	89.5	75.9	82.7	94	73	72	71	72	83	61	73	.794	.766	.789	6.75	2.07	.0	3.1	5.3	4.3	4.8
October	29.99	30.25	29.80	66.7	77.5	74.1	80.2	65.5	72.8	88	53	60	60	62	81	57	67	.544	.547	.573	3.49	2.60	.0	3.7	4.7	2.1	3.9
November	30.13	30.42	29.83	54.3	65.1	62.0	68.6	52.1	60.4	89	40	46	47	49	75	55	65	.342	.362	.376	3.06	1.81	.0	5.8	5.2	3.6	5.0
December	30.09	30.41	29.73	51.5	60.1	57.6	65.7	48.7	56.2	80	36	46	49	49	84	69	76	.343	.370	.379	3.86	1.30	.0	6.5	7.1	5.7	6.6
Year	29.98	30.48	29.49	65.0	74.3	71.3	77.8	62.4	70.1	98	29	59	58	60	82	60	69	.557	.542	.558	60.79	4.24	T	5.0	5.7	4.8	5.5

NEW YORK N. Y.

[ϕ=40°43′ N.; λ=74°00′ W.]

Month	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
January	29.63	30.20	28.68	26.9	31.4	29.8	36.9	22.9	29.9	53	−2	20	20	20	72	62	65	0.121	0.125	0.122	6.82	2.32	9.1	5.6	6.1	4.9	5.6
February	29.74	30.15	28.99	23.3	27.9	28.0	33.7	19.5	26.6	52	2	14	14	14	64	57	56	.093	.097	.096	2.41	1.01	6.3	6.6	6.2	4.5	6.2
March	29.55	30.05	28.72	42.6	48.3	45.1	53.1	37.5	45.3	72	17	34	35	35	73	62	71	.211	.223	.225	3.97	1.35	1.2	6.2	4.7	6.4	6.3
April	29.68	30.19	29.08	43.3	50.4	48.2	54.7	39.6	47.2	78	30	33	35	34	67	58	62	.198	.223	.213	3.13	1.54	0	6.5	6.3	6.1	6.6
May	29.70	30.30	29.24	57.9	66.8	62.6	72.3	52.8	62.6	90	43	47	47	47	69	52	60	.341	.352	.344	2.57	1.16	.0	3.8	4.3	3.7	3.9
June	29.58	29.93	29.18	65.6	71.8	69.3	75.9	61.4	68.6	89	55	56	55	56	72	59	67	.459	.451	.468	4.17	1.34	.0	6.3	6.1	5.9	6.0
July	29.55	29.96	29.23	70.6	78.9	75.2	83.2	66.5	74.8	102	61	61	59	61	72	53	66	.546	.525	.560	2.37	.88	.0	4.9	4.4	6.2	5.0
August	29.68	30.00	29.39	70.0	78.0	74.0	82.0	66.2	74.1	93	58	63	62	63	79	60	70	.583	.567	.585	3.68	1.59	.0	5.8	6.1	6.1	5.5
September	29.76	30.11	29.26	63.7	70.5	67.3	73.3	60.9	67.1	87	50	57	57	58	79	64	74	.480	.483	.504	5.07	4.25	.0	5.3	6.0	4.8	5.7
October	29.76	30.20	28.86	53.7	61.1	57.6	64.2	49.8	57.0	75	27	47	46	47	78	60	69	.350	.351	.351	4.05	2.40	.0	5.3	6.3	3.4	5.5
November	29.71	30.27	29.05	39.3	45.5	42.5	49.9	35.0	42.4	73	16	31	30	30	71	56	62	.191	.190	.193	1.06	.41	1.8	5.2	5.4	4.8	5.3
December	29.89	30.35	29.11	36.9	41.0	40.7	46.5	31.9	39.2	62	12	28	29	31	71	63	68	.169	.175	.185	7.03	1.80	T	6.8	5.2	6.1	5.9
Year	29.69	30.35	28.68	49.5	56.0	63.4	60.5	45.3	52.9	102	−2	41	41	41	72	59	66	.312	.313	.320	46.33	4.25	18.4	5.7	5.6	5.2	5.6

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

NASHVILLE, TENN.

[H=485 ft.; H_b=546 ft.; h_t=168 ft.; h_r=161 ft.; h_a=188 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.01 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																										
January	9.9	NW.	32	NW.	1	5	5	7	8	7	5	10	14	1	8	6	17	15	10	6	5	0	6	2	10	0	18	2	0
February	10.1	NW.	32	NW.	1	8	6	6	12	4	5	3	13	1	11	3	15	12	9	8	5	0	4	2	4	0	22	2	0
March	11.2	NW.	46	NW.	2	4	5	4	7	14	12	6	9	1	10	7	14	13	12	2	1	2	1	1	0	0	1	6	0
April	11.3	NW.	44	NW.	3	3	4	9	7	10	6	7	13	1	9	8	13	11	8	2	1	1	0	0	0	0	4	2	0
May	8.5	W.	24	N.	0	7	6	8	8	4	7	8	13	1	14	12	5	4	3	0	0	0	1	0	0	3	0	4	0
June	9.2	SW.	27	NW.	0	8	9	1	0	1	16	10	12	3	18	8	4	2	2	0	0	1	0	0	0	19	0	3	2
July	7.9	SW.	38	SE.	4	1	5	4	11	3	21	12	4	1	4	16	11	12	11	0	0	0	3	2	0	18	0	14	0
August	7.0	SW.	41	NW.	2	3	4	7	9	13	17	7	2	0	9	16	6	5	5	0	0	0	4	2	0	21	0	5	0
September	7.4	S.	30	SE.	0	7	2	6	12	12	11	4	6	0	8	14	8	8	7	0	0	0	3	1	0	12	0	5	0
October	8.0	NW.	26	S.	0	6	3	9	15	6	5	7	10	1	10	8	13	8	7	0	0	0	8	4	0	0	0	4	0
November	9.2	NW.	34	S.	2	3	8	2	2	7	12	10	16	0	11	10	9	5	5	3	2	0	3	0	1	0	10	0	0
December	8.5	SE.	38	S.	1	11	5	10	14	6	3	7	6	0	8	4	19	12	10	2	1	0	4	3	0	0	13	0	0
Year	9.0	NW.	46	NW.	16	66	62	73	105	87	120	91	118	10	120	112	134	107	89	23	15	4	37	17	15	73	68	47	2

NEW HAVEN, CONN.

[H=23 ft.; H_b=106 ft.; h_t=74 ft.; h_r=68 ft.; h_a=153 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.8	NW.	35	NE.	1	16	3	3	3	4	5	17	11	0	10	9	12	12	10	11	6	0	19	0	12	0	24	0	0
February	9.0	N.	35	N.	1	17	8	2	2	5	7	12	4	1	10	6	13	9	9	8	6	0	14	4	15	0	25	0	0
March	9.6	S.	30	NW.	0	6	9	4	12	17	4	1	9	0	8	10	13	16	12	5	4	0	18	8	1	0	7	2	0
April	10.1	S.	33	S.	1	12	3	4	4	19	4	7	7	0	6	10	14	16	15	1	0	2	6	0	0	0	2	1	0
May	9.1	S.	25	N.	0	7	1	1	5	23	10	2	13	0	12	14	5	8	5	0	0	1	7	2	0	1	0	6	0
June	8.8	N.	25	NE.	0	14	3	3	9	13	6	4	8	0	7	12	11	12	10	0	0	0	11	3	0	0	0	6	0
July	8.2	S.	30	N.	0	11	7	3	2	19	9	3	8	0	10	13	8	7	5	0	0	0	4	0	0	4	0	7	0
August	8.6	S.	24	SW.	0	14	5	4	5	19	10	4	1	0	7	14	10	11	8	0	0	0	9	1	0	2	0	7	0
September	9.4	N.	37	N.	2	13	8	5	5	15	4	4	6	0	6	11	13	9	8	0	0	0	12	2	0	0	0	3	0
October	9.0	N.	30	SE.	0	15	4	1	1	18	11	4	8	0	10	7	14	9	5	0	0	0	11	2	0	0	3	0	0
November	10.0	NW.	31	NW.	0	16	3	0	0	7	14	10	9	1	11	10	9	7	6	5	2	0	5	0	2	0	15	0	0
December	10.2	N.	30	E.	0	19	8	3	1	5	9	7	9	1	10	8	13	14	12	5	1	0	12	5	3	0	18	0	0
Year	9.3	N.	37	N.	5	160	62	33	49	164	93	75	93	3	107	124	135	130	105	35	19	3	128	27	33	7	94	32	0

NEW ORLEANS, LA.

[H=9 ft.; H_b=53 ft.; h_t=76 ft.; h_r=71 ft.; h_a=84 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.6	NE.	25	NW.	0	10	15	9	5	6	4	4	6	3	11	5	15	11	11	2	0	0	11	6	0	0	3	4	0
February	8.3	NE.	28	NE.	0	8	20	4	13	2	6	0	4	1	8	10	11	9	7	0	0	0	6	1	0	0	3	4	0
March	7.5	SE.	24	NW.	0	1	9	2	14	12	11	5	6	2	10	8	13	8	7	0	0	0	4	2	0	0	0	2	0
April	7.7	SE.	21	SE.	0	7	9	2	14	9	7	6	6	0	13	6	11	9	9	0	0	0	3	0	0	0	0	6	0
May	7.2	SE.	21	E.	0	5	11	12	22	2	0	4	6	0	7	14	10	10	7	0	0	0	0	0	0	0	0	7	0
June	6.3	SW.	24	NE.	0	5	7	3	16	6	11	9	3	0	13	16	1	5	4	0	0	0	0	0	0	27	0	6	0
July	6.4	SW.	23	E.	0	2	6	3	13	8	19	5	6	0	3	18	10	11	10	0	0	0	0	0	0	22	0	13	0
August	5.4	SE.	16	E.	0	6	7	7	19	4	9	6	2	2	5	21	5	12	11	0	0	0	2	0	0	20	0	15	0
September	5.2	SE.	16	E.	0	2	5	7	22	4	5	10	3	2	11	14	5	12	12	0	0	0	0	0	0	13	0	10	0
October	6.7	NE.	17	N.	0	5	23	9	12	0	3	4	4	2	16	8	7	6	4	0	0	0	1	1	0	0	0	1	0
November	7.3	NE.	18	NE.	0	8	17	9	6	4	4	4	8	0	12	9	9	6	5	0	0	0	2	0	0	0	0	0	0
December	7.5	NE.	20	NW.	0	12	14	11	9	4	1	4	7	0	7	5	19	7	7	0	0	0	4	1	0	0	0	2	0
Year	6.9	SE.	28	NE.	0	71	143	78	165	61	80	61	61	12	116	134	116	106	94	2	0	0	33	11	0	82	6	70	0

NEW YORK, N. Y.

[H=10 ft.; H_b=314 ft.; h_t=415 ft.; h_r=398 ft.; h_a=454 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	16.7	NW.	49	S.	13	8	1	5	5	3	4	16	20	0	10	8	13	13	11	12	6	0	13	3	11	0	23	1	0
February	13.8	NW.	46	NW.	7	7	5	7	3	2	2	19	13	0	9	6	14	12	8	7	7	0	11	2	14	0	25	0	0
March	14.7	S.	65	NW.	10	7	4	10	9	10	7	6	9	0	8	9	14	16	11	4	4	0	16	6	0	0	9	3	0
April	16.7	NW.	56	NW.	15	8	4	4	5	13	6	7	13	0	6	11	13	13	12	0	0	0	10	0	0	0	2	1	0
May	15.0	SW.	48	NW.	10	9	3	1	5	14	13	4	13	0	16	10	5	8	7	0	0	1	5	1	0	0	0	6	0
June	12.6	N.	49	NW.	5	12	7	5	8	11	8	3	6	0	9	7	14	12	10	0	0	0	16	2	0	0	0	8	0
July	12.0	N.	37	S.	4	9	2	7	3	13	7	12	9	0	11	12	8	8	7	0	0	1	8	0	0	6	0	13	0
August	12.0	SW.	47	N.	7	6	7	10	8	7	10	8	6	0	10	11	10	15	11	0	0	0	11	0	0	3	0	11	0
September	12.6	SE.	50	N.	6	6	12	6	14	5	8	5	4	0	11	8	11	11	6	0	0	0	11	2	0	0	0	3	0
October	14.3	SW.	52	NW.	6	11	5	6	3	11	8	13	5	0	11	7	13	9	6	0	0	0	12	3	0	0	2	1	0
November	17.2	NW.	60	NW.	11	9	2	1	2	3	17	3	23	0	10	10	10	9	6	8	2	0	7	3	2	0	14	0	0
December	15.6	N.	50	SE.	12	16	10	8	0	2	8	7	11	0	9	9	13	13	12	4	1	0	12	2	0	0	12	0	0
Year	14.4	NW.	65	NW.	106	108	62	70	65	94	98	103	132	0	120	108	138	139	107	35	20	2	132	24	27	9	87	47	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

NORFOLK, VA.

[ϕ=36°51′ N.; λ=76°17′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.96	30.48	29.13	33.6	39.7	37.7	44.5	30.2	37.4	72	10	27	28	29	76	64	71	0.170	0.182	0.179	6.60	1.54	8.3	6.4	5.9	4.4	6.5
February	30.01	30.50	29.21	33.2	38.9	37.5	44.8	29.2	37.0	77	10	28	28	29	80	66	73	.168	.170	.174	4.16	1.33	13.2	7.2	6.8	6.0	7.2
March	29.81	30.26	29.14	49.0	59.2	54.0	62.9	44.6	53.8	83	32	42	41	43	80	54	68	.289	.277	.291	3.83	2.07	T	6.3	6.1	6.1	7.0
April	29.99	30.45	29.36	52.2	59.9	55.0	64.9	46.9	55.9	86	34	42	40	44	69	51	68	.287	.273	.298	4.71	1.52	.0	6.0	5.1	6.2	6.1
May	29.98	30.49	29.60	65.6	73.2	66.8	77.9	57.9	67.9	92	52	54	51	54	69	48	66	.427	.392	.434	.98	.52	.0	3.9	3.6	3.5	4.1
June	29.84	30.08	29.50	70.8	78.7	74.3	82.2	65.8	74.0	101	58	62	61	63	76	57	69	.569	.550	.580	3.95	1.32	.0	5.9	5.3	5.6	5.6
July	29.83	30.21	29.61	75.6	84.1	78.4	87.6	70.6	79.1	96	63	69	68	70	80	59	77	.708	.682	.739	9.30	3.40	.0	7.0	6.8	6.2	6.7
August	29.94	30.22	29.73	75.9	84.3	78.6	87.0	72.1	79.6	96	64	70	67	70	82	57	76	.733	.669	.742	1.77	.91	.0	5.9	6.0	5.9	6.3
September	29.98	30.25	29.22	70.2	78.2	72.4	80.8	66.4	73.6	91	59	64	63	66	83	62	80	.613	.590	.636	4.95	4.06	.0	5.6	6.6	5.6	6.2
October	30.02	30.30	29.34	61.6	69.3	64.1	71.6	58.3	65.0	83	41	56	54	56	81	60	76	.472	.448	.479	5.31	2.19	.0	4.9	6.3	3.7	5.5
November	30.03	30.51	29.46	46.2	54.4	50.8	58.0	42.9	50.4	81	25	39	38	39	77	56	65	.263	.257	.266	1.87	.71	T	6.8	5.5	5.3	6.2
December	30.15	30.63	29.61	42.6	48.3	46.6	53.4	39.1	46.2	71	27	38	39	40	84	73	79	.242	.256	.265	4.88	.96	T	7.4	6.9	6.4	6.9
Year	29.96	30.63	29.13	56.3	64.0	59.7	68.0	52.0	60.0	101	10	49	48	50	78	59	72	.412	.396	.424	52.31	4.06	21.5	6.1	5.9	5.4	6.2

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.95	29.59	28.06	8.4	17.7	13.8	24.1	2.0	13.0	39	−25	6	11	11	90	75	89	0.067	0.079	0.080	3.74	0.96	0.0	7.3	7.8	6.3	7.1
February	29.04	29.46	28.41	6.2	18.1	14.7	23.3	.0	11.6	40	−16	4	9	10	89	67	80	.058	.069	.074	1.31	.46	.0	6.2	6.7	5.6	6.6
March	28.94	29.42	28.06	30.1	38.1	36.8	44.7	23.8	34.2	64	−14	26	27	29	84	67	74	.154	.161	.201	6.05	1.42	.0	6.9	7.2	6.6	7.5
April	29.00	29.44	28.41	37.5	43.2	46.8	47.1	31.3	39.2	74	20	29	30	30	72	61	66	.172	.178	.178	3.97	1.36	.0	7.9	7.8	7.8	8.1
May	29.03	29.66	28.57	53.8	63.1	57.2	68.9	42.7	55.8	89	23	43	44	45	68	51	66	.298	.315	.324	1.83	.56	.0	6.7	6.3	6.3	6.7
June	28.97	29.38	28.52	61.6	70.7	65.3	75.3	49.2	62.2	87	35	51	50	53	69	51	65	.383	.381	.415	2.12	.92	.0	6.3	6.3	5.4	6.1
July	28.94	29.37	28.64	64.2	72.8	65.9	77.0	52.3	64.6	90	40	55	54	57	74	53	74	.448	.431	.478	3.73	1.54	.0	6.1	6.6	4.9	6.2
August	29.08	29.39	28.74	60.0	71.4	63.1	75.2	50.2	62.7	89	38	54	66	57	83	56	80	.433	.423	.468	5.54	1.63	.0	6.2	6.4	6.5	6.6
September	29.16	29.56	28.64	52.3	64.9	56.4	69.3	43.4	56.4	84	23	49	50	51	88	60	84	.364	.386	.400	2.93	1.13	.0	5.7	7.4	4.8	6.8
October	29.09	29.67	28.19	43.1	52.1	43.9	56.9	34.4	45.6	78	12	38	37	38	82	57	79	.244	.239	.250	4.30	.98	.0	6.5	5.6	4.4	6.3
November	29.02	29.70	28.34	26.8	33.0	29.8	39.1	19.8	29.4	70	−8	22	23	24	83	67	78	.132	.138	.139	2.23	1.56	.0	7.8	7.7	7.7	7.6
December	29.26	29.80	28.25	20.1	26.9	25.2	34.4	11.6	23.0	57	−15	16	20	19	85	73	79	.104	.115	.112	3.57	1.25	.0	7.1	7.3	7.0	7.4
Year	29.04	29.80	28.06	38.7	47.7	42.7	52.9	30.1	41.5	90	−25	33	35	35	81	62	76	.238	.243	.260	41.32	1.63	.0	6.7	6.9	6.1	6.9

NORTH HEAD, WASH.

[ϕ=46°16′ N.; λ=124°04′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.72	30.15	29.05	44.8	46.9	46.5	49.5	41.0	45.2	55	32	40	41	41	84	82	82	0.254	0.262	0.260	10.46	1.87	T	6.9	7.5	7.7	8.0
February	29.67	30.22	28.93	36.8	40.7	41.4	43.9	33.6	38.8	50	23	31	34	34	80	76	77	.183	.201	.207	7.85	2.88	2.0	7.0	8.5	7.9	8.2
March	29.90	30.26	29.46	41.5	45.2	44.7	47.3	38.7	43.0	55	29	38	39	38	86	80	80	.230	.244	.236	4.59	1.20	4.0	7.2	8.0	7.9	8.3
April	29.90	30.45	29.43	46.8	51.1	50.3	54.0	45.6	49.8	68	33	44	46	45	91	84	84	.294	.316	.304	.85	.36	.7	8.7	7.5	8.4	8.0
May	29.81	30.34	29.39	51.3	55.4	54.1	57.5	48.7	53.1	76	43	47	50	50	87	82	86	.329	.356	.358	4.42	1.15	.0	7.7	8.0	7.8	7.6
June	29.78	30.06	29.40	56.2	59.8	60.3	61.9	54.3	58.1	77	50	53	55	54	90	84	80	.404	.427	.417	4.28	1.35	.0	8.0	6.9	6.4	6.9
July	29.84	30.02	29.53	57.8	62.1	62.5	63.4	56.4	59.9	67	53	55	56	56	91	82	79	.434	.454	.447	1.38	.40	.0	6.7	4.1	3.8	4.6
August	29.85	29.96	29.60	58.5	62.5	62.1	64.8	56.3	60.6	78	52	56	58	58	93	86	87	.453	.483	.484	.83	.47	.0	7.0	5.8	6.1	6.5
September	29.86	30.21	29.49	53.5	57.7	57.4	61.1	51.6	56.4	82	45	50	52	51	88	84	83	.358	.387	.382	1.04	.50	.0	4.6	5.3	5.3	5.1
October	29.91	30.22	29.53	52.9	56.6	55.3	60.5	49.9	55.2	87	42	48	50	50	87	83	86	.342	.362	.365	.95	.62	.0	4.0	4.9	5.0	5.4
November	30.05	30.34	29.82	47.1	52.5	51.1	56.8	44.2	50.5	69	35	40	42	43	78	72	77	.251	.279	.285	1.12	.43	.0	3.6	4.2	3.8	4.2
December	29.78	30.35	29.20	43.8	46.0	45.1	47.9	40.6	44.2	52	31	42	44	43	95	92	93	.275	.288	.281	9.22	1.26	.0	7.2	8.1	7.7	7.8
Year	29.84	30.45	28.93	49.2	53.0	52.6	55.7	46.7	51.2	87	23	45	47	47	88	82	83	.317	.338	.336	46.99	2.88	6.7	6.6	6.6	6.5	6.7

NORTH PLATTE, NEBR.

[ϕ=41°08′ N.; λ=100°45′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	27.02	27.47	26.54	15.1	27.1	24.7	33.1	10.3	21.7	63	−7	11	15	16	82	60	71	0.077	0.090	0.096	0.48	0.23	5.0	4.3	5.6	5.8	6.0
February	27.02	27.40	26.46	2.9	17.7	16.3	23.0	−.1	11.4	66	−25	−4	3	6	71	54	63	.059	.064	.077	.40	.21	4.7	5.2	6.1	6.7	6.7
March	26.93	27.32	26.38	29.3	48.6	47.0	53.7	26.8	40.2	77	15	22	22	23	73	38	41	.116	.118	.122	.57	.29	4.3	4.7	5.5	5.5	5.3
April	27.08	27.45	26.58	36.2	54.7	55.7	60.2	34.1	47.2	85	−3	29	31	31	75	46	46	.172	.184	.186	1.59	.67	2.4	5.0	4.5	5.8	5.2
May	27.06	27.42	26.51	54.8	70.5	70.7	74.9	52.8	63.8	92	37	48	48	49	80	48	50	.345	.348	.359	3.17	1.37	.0	6.3	4.9	4.4	5.5
June	27.02	27.36	26.45	62.8	81.4	81.2	85.9	60.1	73.0	102	46	54	54	54	73	41	43	.416	.421	.434	1.64	1.11	.0	4.2	4.2	3.3	3.8
July	27.05	27.44	26.79	70.5	92.9	92.0	97.4	68.1	82.8	108	56	54	51	52	59	28	30	.432	.388	.393	.96	.67	.0	2.8	1.8	2.7	2.6
August	27.06	27.32	26.82	64.9	86.4	87.0	93.4	64.0	78.7	108	49	55	55	56	73	36	39	.443	.445	.451	1.23	.96	.0	3.9	2.3	4.0	3.3
September	27.06	27.49	26.67	56.6	76.0	74.2	81.1	54.7	67.9	95	38	49	48	47	77	43	41	.368	.372	.343	.35	.28	.0	4.8	3.4	2.2	3.7
October	27.13	27.59	26.62	37.2	59.6	55.4	64.6	34.4	49.5	87	14	31	34	33	79	41	46	.177	.197	.195	.41	.33	3.0	4.1	3.5	4.7	4.4
November	27.23	27.54	26.75	26.1	48.5	41.4	53.6	23.5	38.6	68	7	21	23	23	80	39	49	.112	.125	.124	.03	.03	.3	3.0	3.9	2.8	3.5
December	27.07	27.40	26.64	22.9	36.2	32.1	41.9	19.6	30.8	57	−2	20	24	25	88	63	74	.107	.131	.132	.43	.25	4.2	3.9	5.7	4.6	5.8
Year	27.06	27.59	26.38	39.9	58.3	56.5	63.6	37.4	50.5	108	−25	32	34	35	76	45	49	.235	.240	.243	11.26	1.37	23.9	4.4	4.3	4.4	4.6

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

NORFOLK, VA.

[H=11 ft.; H_b=91 ft.; h_t=80 ft.; h_r=73 ft.; h_a=125 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.01 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temp. 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	9.8	W.	39	W.	2	10	5	8	7	6	4	11	11	0	8	7	16	12	10	6	5	0	12	6	8	0	15	2	0
February	9.9	N.	35	N.	2	14	11	6	4	8	8	6	1	0	6	6	17	13	11	6	5	0	13	2	7	0	15	0	0
March	11.0	SW.	43	SE.	2	2	6	7	11	9	18	7	2	0	4	11	16	16	9	1	0	0	13	1	0	0	6	2	0
April	10.2	S.	29	N.	0	7	7	9	9	6	11	7	4	0	8	10	12	11	9	0	0	0	8	0	0	0	0	2	0
May	9.2	SE.	25	NW.	0	6	9	9	17	8	5	6	2	0	16	8	7	5	3	0	0	0	7	0	0	1	0	4	0
June	9.3	SW.	31	NE.	0	4	10	9	7	5	15	5	5	0	10	8	12	12	9	0	0	1	8	0	0	4	0	7	0
July	8.0	W.	53	W.	3	4	7	4	6	8	16	13	4	0	6	10	15	14	11	0	0	0	8	0	0	11	0	14	0
August	8.6	SW.	31	W.	0	2	8	11	5	10	15	7	4	0	8	9	14	10	6	0	0	0	5	0	0	13	0	5	0
September	9.9	E.	56	NW.	2	4	7	18	4	10	10	5	2	0	9	6	15	7	7	0	0	0	12	1	0	2	0	3	0
October	9.4	E.	28	SE.	0	9	10	11	7	6	9	8	2	0	10	11	10	11	7	0	0	0	14	1	0	0	0	1	0
November	10.6	N.	30	NW.	0	12	8	3	2	8	13	11	2	1	8	8	14	10	6	1	0	0	9	0	0	0	4	0	0
December	9.9	N.	36	W.	1	15	15	7	3	5	6	6	5	0	8	4	19	15	11	1	0	0	20	3	0	0	5	0	0
Year	9.6	SW.	56	NW.	12	89	103	102	82	89	130	92	44	1	101	98	167	136	99	15	10	1	129	14	15	31	43	40	0

NORTHFIELD, VT.

[H=840 ft.; H_b=876 ft.; h_t=12 ft.; h_r=3 ft.; h_a=60 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.2	N.	30	SW.	0	20	1	0	0	22	9	1	4	5	6	7	18	19	14	22	19	0	1	0	23	0	31	0	0
February	7.9	S.	24	S.	0	9	3	1	1	22	11	0	7	4	6	8	15	10	7	16	10	0	2	0	21	0	29	0	1
March	7.7	S.	25	SW.	0	9	3	0	0	24	18	1	3	4	5	7	19	19	15	8	7	0	8	5	4	0	22	0	1
April	8.5	S.	30	S.	0	9	4	0	0	24	10	1	10	2	3	5	22	19	13	13	11	0	2	0	0	0	17	1	0
May	8.2	S.	24	SW.	0	20	4	0	1	20	9	0	6	2	4	16	11	15	11	0	0	0	4	2	0	0	7	6	0
June	7.8	S.	27	SW.	0	13	6	1	1	19	11	0	6	3	6	13	11	8	6	0	0	1	2	0	0	0	0	4	0
July	6.6	S.	23	S.	0	12	9	0	5	17	6	1	8	4	4	15	12	9	7	0	0	0	3	1	0	1	0	11	0
August	6.6	S.	27	NE.	0	14	4	0	1	27	7	0	4	5	5	14	12	12	10	0	0	1	12	6	0	0	0	5	0
September	7.2	S.	24	S.	0	10	3	1	2	28	8	0	5	3	3	13	14	10	7	0	0	0	15	7	0	0	4	3	1
October	8.0	S.	26	SW.	0	7	2	1	4	20	17	2	2	7	9	6	16	13	12	3	1	0	2	0	0	0	13	1	0
November	8.4	S.	27	SW.	0	14	3	0	4	19	11	3	4	2	2	10	18	18	6	15	11	0	4	0	8	0	27	0	0
December	8.5	S.	32	SW.	1	12	2	0	0	22	12	2	9	3	4	9	18	16	13	13	8	0	4	2	11	0	29	0	0
Year	7.7	S.	32	SW.	1	149	44	4	19	264	129	11	68	44	57	123	186	168	121	90	67	2	59	23	67	1	179	31	3

NORTH HEAD, WASH.

[H=196 ft.; H_b=211 ft.; h_t=11 ft.; h_r=3 ft.; h_a=56 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	16.4	E.	73	S.	12	3	3	19	9	7	11	5	5	0	4	2	25	24	21	1	0	4	2	0	0	0	0	2	0
February	14.6	E.	63	S.	13	1	2	24	2	7	4	10	8	0	1	7	21	17	15	3	2	0	3	2	0	0	13	0	0
March	14.7	NW.	47	NW.	11	3	3	7	7	6	7	13	16	0	1	5	25	23	12	6	4	3	5	6	0	0	3	0	0
April	11.9	NW.	33	SE.	1	1	1	4	9	11	7	7	20	0	2	6	22	14	7	1	1	0	7	2	0	0	0	0	0
May	17.0	NW.	49	S.	12	3	3	2	11	12	4	4	22	1	3	7	21	16	14	0	0	0	4	0	0	0	0	1	0
June	13.3	NW.	56	SE.	6	4	1	3	7	10	10	5	20	0	7	4	19	15	14	0	0	0	0	0	0	0	0	1	0
July	14.2	NW.	43	SE.	6	7	0	3	2	9	2	2	37	0	12	12	7	9	8	0	0	0	1	0	0	0	0	0	0
August	11.2	NW.	34	S.	2	10	0	2	7	6	0	7	29	1	7	10	14	4	2	0	0	0	10	1	0	0	0	0	0
September	11.0	NW.	35	S.	4	18	1	3	4	6	2	6	20	0	11	10	9	5	3	0	0	1	13	1	0	0	0	2	0
October	10.3	N.	33	S.	2	20	1	3	11	5	0	3	19	0	13	5	13	5	4	0	0	0	14	3	0	0	0	0	0
November	9.1	E.	37	SE.	4	15	1	21	14	1	0	4	4	0	15	8	7	7	3	0	0	0	5	4	0	0	0	0	0
December	14.3	S.	60	S.	10	5	5	12	7	18	3	7	5	0	2	10	19	24	20	0	0	0	7	0	0	0	1	0	0
Year	13.2	NW.	73	S.	83	90	21	103	90	98	50	73	205	2	78	86	202	163	123	11	7	8	71	19	0	0	17	6	0

NORTH PLATTE, NEBR.

[H=2,805 ft.; H_b=2,821 ft.; h_t=11 ft.; h_r=3 ft.; h_a=51 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.01 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.8	W.	25	N.	0	10	3	12	4	2	7	16	7	1	8	9	14	8	4	14	8	0	7	1	15	0	31	0	0
February	7.6	N.	28	NW.	0	10	4	6	13	2	5	5	12	1	6	10	13	8	3	14	8	0	8	1	20	0	29	0	0
March	9.7	N.	28	NE.	0	15	7	4	2	7	4	12	10	1	10	12	9	5	3	9	5	0	1	0	3	0	26	0	0
April	8.8	N.	27	W.	0	12	10	5	6	11	2	10	3	1	9	12	9	6	6	5	2	1	7	0	3	0	10	3	0
May	8.4	S.	27	NE.	0	10	2	5	19	9	5	3	6	3	10	14	7	9	8	0	0	0	5	0	0	2	0	7	0
June	8.2	S.	35	NE.	2	5	10	9	15	7	3	4	6	1	13	14	3	5	5	0	0	1	2	0	0	13	0	6	0
July	7.8	S.	23	S.	0	5	3	4	11	21	6	5	5	2	22	6	3	5	4	0	0	1	3	0	0	25	0	5	0
August	6.4	S.	22	N.	0	8	5	6	12	11	6	8	5	1	20	7	4	5	5	0	0	0	3	2	0	20	0	5	0
September	8.0	SE.	27	NE.	0	11	9	5	10	12	2	5	6	0	16	9	5	4	2	0	0	0	8	2	0	7	0	2	0
October	7.5	W.	26	N.	0	12	9	1	2	9	6	13	8	2	14	10	7	5	2	2	2	0	5	1	1	0	12	2	0
November	8.5	W.	33	N.	2	9	6	1	2	3	5	25	9	0	16	9	5	1	0	4	1	0	4	0	2	0	27	0	0
December	6.5	W.	18	E.	0	10	3	5	2	6	8	19	9	0	8	11	12	4	3	7	3	0	13	3	3	0	31	0	0
Year	7.8	W.	35	NE.	4	117	71	63	98	100	59	125	86	13	152	123	91	65	45	55	29	3	66	10	47	67	166	30	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

OKLAHOMA CITY, OKLA.

[ϕ=35°26′ N.; λ=97°33′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.75	29.32	28.20	27.6	40.1	37.9	45.0	25.1	35.0	69	12	22	24	24	79	55	57	0.123	0.135	0.132	0.09	0.05	0.3	4.8	5.6	4.9	5.3
February	28.73	29.25	28.12	25.3	38.2	38.1	45.4	21.6	33.5	79	−1	18	19	18	74	48	46	.126	.129	.117	.76	.74	.1	4.9	5.6	4.6	5.3
March	28.60	28.98	28.13	46.4	63.9	62.5	69.2	43.1	56.2	81	32	31	30	30	58	36	31	.190	.180	.177	.21	.21	.0	4.1	3.0	3.9	3.9
April	28.72	29.08	28.18	51.2	69.0	68.0	75.0	48.4	61.7	94	20	35	36	34	57	31	31	.231	.237	.224	.03	.02	T	4.9	4.1	4.9	4.6
May	28.71	28.97	28.36	63.8	76.8	75.5	80.4	62.1	71.2	89	54	58	57	57	84	53	54	.499	.481	.477	5.56	2.62	.0	6.9	6.6	5.7	6.6
June	28.64	28.90	28.14	71.1	88.9	87.4	92.6	68.9	80.8	107	57	59	60	60	67	41	42	.512	.534	.528	.23	.21	.0	2.3	2.3	2.7	2.5
July	28.67	28.98	28.41	76.1	94.8	93.7	98.7	74.7	86.7	109	67	64	60	58	67	33	32	.594	.529	.488	.06	.05	.0	3.1	3.4	2.5	3.2
August	28.67	28.90	28.47	76.9	97.6	95.4	101.2	76.2	88.7	113	64	60	58	56	56	28	29	.523	.492	.462	.17	.17	.0	2.0	2.3	1.7	2.5
September	28.67	28.91	28.31	69.7	81.0	78.6	84.6	67.9	76.2	102	45	63	62	61	80	59	62	.584	.576	.560	8.49	1.98	.0	5.9	6.3	6.2	6.5
October	28.77	29.21	28.45	51.3	64.1	61.2	67.8	49.3	58.6	87	29	46	48	50	82	60	67	.324	.359	.373	1.93	.63	.0	4.3	5.5	3.9	4.9
November	28.92	29.23	28.35	40.0	54.1	50.0	58.5	36.6	47.6	80	23	31	31	31	70	44	50	.190	.187	.188	.06	.04	.0	2.9	3.5	2.6	3.1
December	28.78	29.08	28.21	38.2	47.5	46.0	52.5	36.1	44.3	64	22	34	36	36	85	66	71	.203	.221	.225	1.31	.69	T	5.0	5.5	5.7	5.9
Year	28.72	29.32	28.12	53.1	68.0	66.2	72.6	50.8	61.7	113	−1	43	43	43	72	46	48	.342	.338	.329	18.90	2.62	.4	4.3	4.5	4.1	4.5

OMAHA, NEBR.[1]

[ϕ=41°18′ N.; λ=95°54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.02	29.63	28.40	6.6	14.2	13.4	19.1	1.6	10.4	44	−21	4	8	9	88	74	81	0.065	0.073	0.076	1.50	0.42	25.7	5.7	6.4	6.9	6.2
February	29.05	29.37	28.33	2.2	10.4	10.2	14.7	−1.7	6.5	46	−18	−1	3	5	85	68	79	.050	.058	.065	.69	.20	13.5	5.5	6.3	6.6	6.2
March	28.82	29.30	28.26	33.6	48.1	46.8	53.7	31.1	42.4	75	16	27	29	30	77	48	54	.150	.163	.170	.84	.77	T	4.9	4.5	4.8	4.5
April	28.98	29.35	28.54	39.9	56.0	56.4	61.0	37.2	49.1	88	10	30	30	30	68	41	42	.183	.185	.184	.23	.47	1.6	5.9	5.1	6.1	5.2
May	28.94	29.28	28.44	60.5	75.3	74.1	79.0	56.9	68.0	94	35	53	53	53	78	47	50	.415	.410	.409	4.37	2.66	.0	5.7	5.5	5.6	5.5
June	28.87	29.22	28.13	66.4	81.1	80.3	86.0	61.7	73.8	105	50	55	54	56	68	42	45	.445	.432	.464	3.28	1.32	.0	4.2	4.1	3.2	3.8
July	28.87	29.33	28.55	76.2	96.2	96.2	100.4	73.0	86.7	114	58	59	56	56	57	27	27	.513	.459	.455	.52	.52	.0	1.9	3.0	2.5	2.3
August	28.88	29.15	28.57	71.5	90.0	88.9	95.0	68.7	81.8	110	56	60	60	59	70	39	40	.529	.536	.533	2.43	1.07	.0	5.1	4.3	4.5	4.2
September	28.91	29.37	28.46	61.6	76.1	72.5	80.8	59.2	70.0	101	42	57	56	57	87	53	61	.494	.491	.498	4.54	1.32	.0	5.1	4.8	4.7	5.0
October	28.99	29.56	28.47	44.5	59.3	56.0	63.8	40.5	52.2	84	23	38	39	40	78	48	55	.246	.258	.265	1.07	1.05	.0	4.4	4.1	3.5	4.2
November	29.11	29.56	28.53	30.0	45.0	40.6	49.5	25.7	37.6	70	10	24	27	25	78	50	55	.133	.148	.135	.14	.13	.1	3.1	4.3	3.2	3.8
December	29.03	29.40	28.31	26.5	33.2	31.0	37.9	21.0	29.4	62	−3	23	26	25	86	74	78	.135	.151	.142	1.12	.79	6.3	5.6	7.0	5.6	6.5
Year	28.95	29.63	28.13	43.3	57.1	55.5	61.7	39.6	50.7	114	−21	36	37	37	77	51	56	.280	.280	.281	20.73	2.66	47.2	4.8	5.0	4.8	4.8

OSWEGO, N. Y.

[ϕ=43°29′ N.; λ=76°35′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.59	30.20	28.82	20.8	23.6	23.4	27.6	17.2	22.4	42	−2	16	17	18	81	75	78	0.096	0.098	0.102	2.30	0.59	21.5	9.3	8.9	9.0	8.9
February	29.68	30.18	28.78	16.0	20.6	19.3	25.2	11.3	18.2	48	−4	11	13	13	78	70	76	.074	.081	.081	3.01	.70	40.5	8.9	8.2	8.0	8.2
March	29.51	30.05	28.80	32.8	37.6	36.4	42.5	29.3	35.9	65	5	27	28	30	80	70	77	.156	.164	.172	5.61	1.20	12.3	7.3	8.0	7.6	7.8
April	29.62	30.08	28.94	39.2	41.5	41.2	47.7	34.3	41.0	75	26	32	31	33	75	69	73	.192	.186	.198	2.81	.82	4.3	8.2	7.8	8.0	7.9
May	29.64	30.25	29.13	55.0	60.7	57.5	67.0	45.6	56.3	84	32	45	46	44	71	60	64	.319	.331	.312	2.01	.63	.0	6.1	5.4	5.4	5.5
June	29.54	29.93	29.07	62.0	66.4	64.7	73.1	54.4	63.8	85	46	52	52	53	72	61	66	.404	.407	.411	.70	.18	.0	5.8	5.6	5.3	5.5
July	29.52	29.97	29.27	68.5	72.4	71.7	78.1	61.6	69.8	94	49	59	58	57	72	60	61	.502	.483	.476	1.34	.60	.0	4.1	3.4	4.6	4.0
August	29.62	30.00	29.28	65.1	71.3	69.6	76.7	60.1	68.4	93	51	58	58	59	78	66	71	.481	.497	.511	3.53	1.37	.0	6.6	5.9	6.4	6.5
September	29.70	30.00	29.21	60.2	66.4	63.4	70.4	54.5	62.4	89	36	54	55	55	79	68	75	.431	.459	.448	4.08	1.54	.0	5.9	5.3	4.5	5.8
October	29.67	30.17	28.87	48.4	53.8	51.6	58.8	43.8	51.3	76	23	41	42	41	77	66	69	.282	.293	.280	3.21	.94	T	7.1	7.0	6.6	7.0
November	29.64	30.31	29.01	33.7	37.3	35.8	42.8	28.0	35.4	70	8	27	28	28	77	69	72	.161	.169	.166	3.71	1.24	13.1	8.9	8.4	8.3	8.6
December	29.83	30.34	28.82	29.8	33.1	33.1	38.8	24.1	31.4	59	0	23	24	24	75	70	70	.134	.138	.140	2.48	1.14	15.6	9.0	8.4	6.8	7.9
Year	29.63	30.34	28.78	44.3	48.7	47.3	54.1	38.7	46.4	94	−4	37	38	38	76	67	71	.269	.276	.275	34.79	1.54	107.3	7.3	6.9	6.7	7.0

PALESTINE, TEX.

[ϕ=31°45′ N.; λ=95°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.52	30.08	29.02	39.6	49.9	50.4	56.7	36.1	46.4	75	17	32	34	34	77	59	59	0.193	0.207	0.210	0.42	0.25	2.6	3.9	5.6	3.5	4.5
February	29.52	29.95	28.93	39.4	46.7	48.9	55.7	34.0	44.8	78	13	33	33	35	77	63	60	.219	.218	.230	.94	.52	.1	6.0	6.5	4.0	5.9
March	29.39	29.75	29.08	55.4	68.9	69.5	74.7	52.6	63.6	88	42	48	46	45	78	48	46	.354	.338	.327	1.27	.90	.0	4.7	4.2	3.5	4.4
April	29.52	29.89	28.95	55.3	69.7	69.8	75.3	52.1	63.7	92	33	47	44	44	76	45	46	.365	.332	.321	2.88	1.03	.0	4.7	4.5	3.4	4.2
May	29.46	29.65	29.20	66.3	78.5	75.3	82.1	63.3	72.7	87	58	62	62	63	88	60	68	.564	.572	.579	6.83	1.59	.0	4.9	6.7	6.1	6.2
June	29.39	29.60	29.10	74.4	88.4	84.9	92.6	71.6	82.1	103	64	66	64	65	77	46	47	.659	.613	.623	.92	3.83	.0	3.4	2.8	1.8	2.7
July	29.45	29.62	29.23	74.3	85.7	83.3	90.0	71.6	80.8	95	66	71	70	71	90	61	68	.764	.739	.756	7.38	1.29	.0	5.8	5.8	4.7	5.4
August	29.46	29.65	29.26	75.5	89.3	87.9	95.0	73.4	84.2	104	65	70	68	68	84	50	54	.740	.680	.702	.63	.33	.0	3.5	3.8	3.7	4.0
September	29.44	29.58	29.20	71.8	84.6	81.0	89.4	69.6	79.5	97	52	69	66	67	91	55	65	.726	.650	.667	1.95	.64	.0	4.5	5.4	4.0	4.8
October	29.55	29.83	29.34	56.2	68.7	67.3	74.0	53.8	63.9	88	41	52	51	53	86	58	63	.398	.391	.415	3.36	1.60	.0	3.8	4.6	3.9	4.4
November	29.69	30.04	29.29	47.0	59.1	56.5	64.4	43.8	54.1	84	28	40	39	40	77	52	57	.270	.265	.267	3.02	1.24	.0	4.6	3.7	3.9	4.3
December	29.60	29.92	29.13	46.8	56.4	55.6	62.5	42.8	52.6	75	27	43	46	45	86	71	70	.205	.326	.317	3.01	1.23	.0	5.5	5.4	4.4	5.5
Year	29.50	30.08	28.93	58.5	70.5	69.2	76.0	55.4	65.7	104	13	53	52	52	82	56	59	.462	.444	.451	32.61	3.83	2.7	4.6	4.9	3.9	4.7

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

OKLAHOMA CITY, OKLA.

[H = 1,254 ft.; H_b = 1,214 ft.; h_t = 10 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: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	10.2	N.	25	NW.	0	19	5	2	4	19	3	4	5	1	12	7	12	4	1	4	1	0	6	0	8	0	23	0	0
February	11.0	S.	30	N.	0	17	4	9	6	18	1	1	2	0	11	8	10	3	1	11	1	1	6	2	8	0	21	2	0
March	11.4	S.	30	SW.	0	10	4	4	4	25	4	4	7	0	14	12	5	1	1	0	0	0	1	0	0	0	1	1	0
April	11.7	S.	30	NW.	0	10	4	5	6	25	5	3	2	0	13	9	8	2	0	1	0	0	0	0	0	4	5	2	0
May	9.1	S.	28	SE.	0	8	7	7	15	18	0	6	1	0	8	5	18	11	10	0	0	1	3	0	0	0	6	5	0
June	9.6	S.	25	S.	0	9	4	7	6	32	0	2	0	0	21	5	4	2	1	0	0	0	0	0	0	19	0	4	0
July	9.2	S.	21	S.	0	5	4	6	4	35	6	0	2	0	18	9	4	2	1	0	0	0	0	0	0	29	0	3	0
August	8.9	S.	18	NE.	0	3	2	3	3	46	2	3	0	0	25	4	2	2	2	0	0	0	0	0	0	30	0	2	0
September	9.2	S.	21	S.	0	8	4	3	8	29	0	2	5	1	8	7	15	14	13	0	0	0	5	1	0	14	0	6	0
October	9.7	S.	25	S.	0	14	1	1	4	30	2	2	7	1	14	4	13	6	6	0	0	0	11	0	0	0	2	2	0
November	9.7	S.	27	NW.	0	18	2	2	3	24	2	2	7	0	19	4	7	2	1	0	0	0	5	0	0	0	7	1	0
December	10.2	S.	24	SE.	0	15	2	1	10	24	4	1	5	0	11	5	15	6	5	1	0	0	14	3	0	0	7	1	0
Year	10.0	S.	30	N.	0	136	43	50	73	325	29	30	43	3	174	79	113	55	42	17	2	2	51	6	16	96	66	29	0

OMAHA, NEBR.[1]

[H = 978 ft.; H_b = 982 ft.; h_t = 31 ft.; h_r = 3 ft.; h_a = 44 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.0	NW.	34	NW.	1	9	3	2	14	8	0	3	20	3	9	7	15	13	10	19	13	0	8	1	25	0	31	0	0
February	10.9	NW.	35	W.	3	11	8	4	8	4	0	6	17	0	5	12	12	11	5	17	11	0	0	0	23	0	29	0	0
March	12.7	NW.	41	NW.	7	6	4	5	14	4	4	4	21	0	12	13	6	3	2	5	1	1	2	2	2	0	21	1	0
April	13.2	NW.	39	N.	4	16	3	0	14	4	6	2	14	1	10	9	11	6	3	5	2	1	3	1	2	0	9	3	2
May	10.6	SE.	61	NW.	4	7	1	7	18	16	1	1	11	0	10	10	11	9	5	0	0	1	3	0	0	3	0	7	0
June	10.9	S.	55	NE.	3	12	7	9	11	15	1	0	4	1	15	10	5	5	5	0	0	2	1	0	0	12	0	11	1
July	9.1	S.	73	N.	1	9	6	2	12	26	3	1	2	1	25	4	2	1	1	0	0	0	0	0	0	28	0	4	0
August	9.2	SE.	46	W.	4	10	2	11	13	17	1	1	6	1	16	9	6	9	7	0	0	0	1	0	0	22	0	9	0
September	9.8	S.	34	SW.	3	14	3	9	11	17	1	2	2	1	12	9	9	9	9	0	0	0	3	0	0	7	0	6	0
October	10.5	N.	34	N.	3	18	1	4	11	15	2	3	5	3	15	8	8	3	1	0	0	1	2	0	0	0	8	1	0
November	11.5	NW.	36	NW.	4	12	1	4	5	13	5	0	17	3	15	8	7	2	1	5	0	0	3	0	2	0	26	0	0
December	9.9	S.	29	SE.	0	13	1	1	18	13	0	3	12	1	6	8	17	4	3	6	3	0	10	3	10	0	29	1	0
Year	10.6	SE.	73	N.	37	137	40	58	149	152	24	26	131	15	150	107	109	75	52	57	30	6	36	7	64	72	153	43	3

OSWEGO, N. Y.

[H = 292 ft.; H_b = 335 ft.; h_t = 71 ft.; h_r = 69 ft.; h_a = 85 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	12.8	SE.	37	W.	2	4	3	4	14	11	5	6	15	0	1	3	27	17	14	24	15	0	2	0	16	0	29	0	0
February	12.5	SE.	31	W.	0	2	3	2	13	11	10	7	10	0	3	3	23	19	13	23	19	0	1	0	21	0	28	0	0
March	11.0	SE.	30	N.	0	7	4	1	12	12	9	13	4	0	5	4	22	18	15	11	9	0	8	2	5	0	20	0	1
April	11.2	W.	28	W.	0	4	1	3	8	13	7	21	3	0	3	5	22	20	15	7	4	0	7	0	1	0	11	0	0
May	9.1	W.	25	SW.	0	4	1	0	4	11	13	25	3	1	8	11	12	10	6	0	0	1	6	1	0	0	0	3	0
June	7.7	W.	20	W.	0	10	1	0	5	17	9	12	4	2	8	14	8	6	6	0	0	0	1	0	0	0	0	2	0
July	7.7	W.	27	NW.	0	8	4	0	1	12	6	18	13	0	14	13	4	8	5	0	0	1	0	0	0	2	0	4	0
August	7.8	N.	22	N.	0	7	7	3	8	19	3	11	3	1	5	12	14	10	7	0	0	0	1	0	0	1	0	6	0
September	8.4	S.	22	N.	0	7	6	2	10	22	1	9	3	0	9	10	11	9	7	0	0	0	6	0	0	0	0	1	0
October	9.6	S.	33	N.	1	2	3	1	14	20	3	13	6	0	6	9	16	15	12	2	1	2	1	0	0	0	4	3	0
November	11.3	S.	34	N.	2	4	1	1	6	22	8	3	15	0	2	3	25	18	15	15	10	0	2	0	4	0	17	0	0
December	11.4	SE.	33	NW.	1	7	1	4	22	15	0	9	4	0	3	7	21	9	8	10	5	0	0	0	7	0	24	2	0
Year	10.0	S.	37	W.	6	66	35	21	117	185	74	147	83	4	67	94	205	159	123	92	63	4	35	3	54	3	133	21	1

PALESTINE, TEX.

[H = 491 ft.; H_b = 510 ft.; h_t = 64 ft.; h_r = 57 ft.; h_a = 72 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.4	S.	24	SW.	0	13	8	5	5	14	5	6	6	0	15	6	10	3	2	3	2	0	1	2	0	0	11	0	0
February	8.5	S.	23	NW.	0	15	11	3	5	20	1	1	1	1	8	9	12	12	5	2	1	0	1	4	1	0	16	1	0
March	8.5	S.	25	S.	0	10	8	3	2	28	3	5	3	0	15	9	7	7	3	0	0	0	1	3	0	0	0	4	0
April	8.6	S.	23	S.	0	10	9	3	6	24	4	1	3	0	16	5	9	5	4	0	0	0	1	2	0	3	0	3	0
May	7.2	E.	24	NW.	0	6	13	16	11	11	3	1	0	1	7	10	14	13	12	0	0	1	2	1	0	0	0	11	0
June	7.2	S.	20	S.	0	6	9	2	6	23	9	3	1	1	20	9	1	2	1	0	0	0	0	0	0	23	0	3	0
July	6.7	S.	23	S.	0	4	4	6	8	23	14	1	2	0	7	15	9	14	10	0	0	0	3	1	0	20	0	12	0
August	5.8	S.	25	NE.	0	0	3	4	3	26	24	2	0	0	14	15	2	5	4	0	0	0	1	0	0	28	0	6	0
September	7.4	S.	26	S.	0	2	3	6	13	21	10	2	3	0	10	15	5	8	6	0	0	0	0	0	0	19	0	6	0
October	6.4	S.	21	NW	0	13	9	4	6	13	1	5	6	5	18	0	13	7	7	0	0	0	2	1	0	0	0	3	0
November	6.8	N.	20	S.	0	16	14	3	1	10	1	8	6	1	15	5	10	6	4	0	0	0	4	1	0	0	2	0	0
December	7.5	S.	23	SE.	0	8	8	9	8	14	6	2	6	1	11	8	12	9	6	0	0	0	5	5	0	0	3	1	0
Year	7.4	S.	26	S.	0	103	99	64	74	227	81	37	37	10	156	106	104	91	64	5	3	1	21	20	1	93	32	50	0

[1] Observation taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

PARKERSBURG, W. VA.

[ϕ=39°16′ N.; λ=81°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.41	29.89	28.79	22.9	29.3	26.8	34.3	17.3	25.8	56	−16	20	23	21	88	76	80	0.129	0.141	0.128	2.49	0.67	18.6	8.3	7.9	6.7	8.1
February	29.46	29.80	28.73	22.4	31.7	31.0	37.4	18.3	27.8	73	−8	18	18	22	82	58	68	.112	.120	.134	1.92	.41	10.4	7.4	5.9	4.8	6.1
March	29.27	29.67	28.83	40.2	50.1	49.2	56.2	35.7	46.0	77	22	33	34	35	77	59	61	.198	.208	.212	4.83	1.34	11.3	7.0	6.8	4.4	6.5
April	29.42	29.86	28.84	45.6	53.3	52.4	59.5	39.3	49.4	85	25	36	36	36	70	54	57	.222	.222	.227	3.54	1.99	1.3	7.2	7.7	6.3	7.4
May	29.46	29.84	29.11	60.1	74.4	70.3	78.7	52.5	65.6	93	40	51	48	50	71	41	52	.389	.350	.380	1.46	.50	.0	3.4	4.7	4.0	4.1
June	29.30	29.57	28.94	67.5	79.3	78.0	85.4	61.1	73.2	98	48	54	56	55	65	48	48	.436	.459	.444	2.07	1.15	.0	3.6	3.8	4.6	4.3
July	29.32	29.75	29.06	72.3	85.5	82.4	89.4	65.7	77.6	103	52	62	58	61	71	42	50	.569	.504	.550	1.17	.44	.0	4.0	4.1	4.9	4.5
August	29.40	29.72	29.18	71.9	84.1	79.5	88.5	66.9	77.7	102	54	65	64	66	78	53	63	.618	.604	.635	2.77	1.10	.0	4.6	5.0	4.2	5.4
September	29.43	29.68	29.14	64.4	78.4	73.2	83.3	59.8	71.6	95	44	58	57	58	81	51	62	.497	.479	.505	1.98	.59	.0	4.0	4.6	4.1	4.4
October	29.48	29.86	28.93	51.1	63.7	57.8	67.1	46.9	57.0	83	27	48	48	48	88	58	72	.352	.351	.366	3.44	1.08	.0	4.4	5.3	5.1	5.5
November	29.50	29.97	28.96	36.2	45.2	41.8	50.1	31.7	40.9	71	19	32	32	32	85	61	69	.190	.192	.196	2.56	1.64	.1	6.0	6.3	3.9	5.8
December	29.59	29.98	29.04	32.5	42.5	40.0	47.7	29.7	38.7	66	17	29	30	33	88	64	77	.168	.177	.197	3.30	.79	1.2	6.3	6.4	5.5	6.4
Year	29.42	29.98	28.73	48.9	59.8	56.9	64.8	43.7	54.3	103	−16	42	42	43	79	55	63	.323	.317	.331	31.53	1.99	42.9	5.5	5.7	4.9	5.7

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.01	30.46	29.44	49.4	54.9	55.0	60.3	46.0	53.2	73	24	46	49	48	88	82	80	0.355	0.384	0.373	16.30	8.16	T	5.5	5.4	5.2	5.5
February	30.02	30.37	29.47	47.5	55.0	54.1	59.7	45.0	52.4	70	28	44	48	49	89	78	84	.317	.356	.368	6.40	2.86	0.0	5.7	5.4	6.1	5.7
March	30.20	29.64	57.9	65.3	63.6	68.2	56.1	62.2	77	40	54	56	55	88	74	77	.443	.471	.463	2.78	1.04	.0	4.3	4.8	5.9	5.1
April	30.02	30.29	29.56	62.1	67.7	66.8	71.5	59.4	65.4	79	42	58	58	58	85	73	76	.499	.507	.509	6.03	1.58	.0	4.3	4.1	4.5	4.3
May	29.95	30.20	29.61	70.8	76.5	75.2	79.2	68.2	73.7	88	62	64	63	65	79	67	72	.605	.597	.621	6.13	2.41	.0	5.0	4.7	4.6	4.8
June	29.87	30.13	29.66	77.4	83.4	81.1	86.3	74.7	80.5	94	67	71	71	70	81	68	72	.760	.772	.750	1.48	1.04	.0	2.3	2.0	2.8	2.3
July	29.94	30.15	29.35	79.0	83.5	81.7	86.3	75.1	80.7	91	67	74	74	73	84	74	75	.827	.842	.814	4.82	2.09	.0	5.3	5.6	7.7	5.9
August	29.96	30.12	29.77	78.1	84.2	81.7	86.8	75.1	81.0	94	68	73	73	74	86	70	78	.820	.809	.845	6.81	2.19	.0	2.5	4.1	5.4	3.9
September	29.94	30.08	29.73	76.3	83.3	81.3	85.9	74.6	80.2	91	71	71	72	72	84	70	73	.763	.796	.781	2.25	.78	.0	2.9	3.8	4.9	4.0
October	29.99	30.21	29.76	66.4	76.1	74.0	78.7	64.7	71.7	86	51	61	62	62	83	64	68	.559	.585	.586	4.18	3.41	.0	4.0	3.3	2.5	3.4
November	30.11	30.39	29.88	53.5	63.1	61.7	67.4	50.9	59.2	80	35	46	47	48	78	58	64	.340	.353	.373	2.72	2.13	.0	4.8	4.3	3.5	4.3
December	30.09	30.42	29.74	50.9	57.9	56.5	62.0	48.6	55.3	72	34	48	52	52	91	81	86	.356	.402	.404	2.48	.84	.0	6.6	5.8	5.7	6.1
Year	29.98	30.46	29.35	64.1	70.9	69.4	74.4	61.5	68.0	94	24	59	60	60	85	72	75	.554	.573	.574	62.38	8.16	T	4.4	4.4	4.9	4.6

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.40	29.93	28.85	14.4	20.0	18.2	24.6	9.8	17.2	53	−20	12	14	14	87	75	80	0.090	0.098	0.098	1.79	0.54	15.4	6.5	6.2	5.9	5.9
February	29.44	29.79	28.69	10.0	19.6	17.3	24.2	5.5	14.8	64	−14	7	12	12	86	71	76	.074	.091	.091	1.63	.87	7.3	5.6	5.8	4.9	5.6
March	29.23	29.65	28.77	34.8	47.3	44.6	52.3	31.5	41.9	78	17	29	30	31	80	52	60	.164	.172	.181	1.80	1.04	.9	3.9	5.2	4.9	5.0
April	29.40	29.74	29.00	40.7	54.1	51.9	58.6	37.8	48.2	87	18	33	35	34	75	51	53	.210	.225	.223	1.64	.63	3.0	5.4	4.4	4.2	4.8
May	29.40	29.77	28.92	60.9	75.5	72.0	78.7	55.4	67.0	89	43	52	53	52	73	48	51	.403	.417	.400	1.72	.96	.0	3.8	4.3	4.0	4.0
June	29.29	29.60	28.66	64.7	80.5	78.9	86.0	57.9	72.0	105	43	53	55	52	66	43	42	.416	.439	.408	.45	.37	.0	3.9	3.5	3.2	3.4
July	29.28	29.75	29.01	75.3	94.2	90.6	98.9	69.7	84.3	113	53	62	62	62	65	35	39	.577	.559	.559	1.24	.89	.0	2.6	1.8	2.5	2.5
August	29.32	29.65	29.08	71.7	88.1	83.9	92.8	67.8	80.3	106	54	63	64	64	76	47	52	.590	.614	.605	2.27	.62	.0	2.4	2.5	1.9	2.6
September	29.36	29.78	28.98	63.3	76.2	71.1	80.4	60.6	70.5	96	47	59	60	61	87	60	72	.521	.547	.558	10.58	2.97	.0	4.7	5.6	5.2	5.2
October	29.40	29.86	28.92	47.1	60.6	55.3	64.0	44.3	54.2	82	27	44	47	47	89	63	74	.305	.350	.344	3.35	1.76	T	4.7	6.0	4.3	5.6
November	29.48	29.97	28.92	31.9	42.1	39.2	46.7	29.0	37.8	68	15	28	30	30	85	62	68	.162	.176	.177	1.18	1.12	.1	4.0	3.9	3.4	4.1
December	29.50	29.88	28.67	29.9	37.6	34.7	42.3	25.4	33.8	62	2	27	28	28	87	68	77	.156	.162	.164	3.26	1.54	.6	5.6	5.3	4.7	5.2
Year	29.37	29.97	28.66	45.4	58.0	54.8	62.5	41.2	51.8	113	−20	39	41	41	80	56	62	.306	.321	.317	30.91	2.97	27.3	4.4	4.5	4.1	4.5

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.90	30.44	28.92	27.2	31.0	31.2	36.3	23.5	29.9	52	−2	19	18	20	71	59	63	0.119	0.120	0.123	6.44	2.14	4.9	6.5	6.1	4.7	5.7
February	29.99	30.41	29.27	24.0	29.0	29.9	34.1	21.2	27.6	57	4	15	16	18	67	59	61	.097	.103	.111	3.46	1.59	9.2	6.7	6.7	5.4	6.0
March	29.78	30.28	28.94	42.6	52.1	49.3	56.8	39.8	48.3	75	24	37	39	38	77	64	67	.234	.263	.249	4.02	1.14	T	7.5	6.8	5.5	6.6
April	29.92	30.42	29.31	46.0	53.8	51.7	59.0	41.3	50.2	83	31	36	36	36	68	54	57	.221	.233	.225	2.25	.91	T	6.3	6.7	6.6	6.4
May	29.94	30.51	29.49	60.8	70.8	67.4	76.2	55.5	65.8	93	45	48	48	48	65	46	53	.355	.350	.358	1.67	.93	.0	4.1	4.2	3.3	3.4
June	29.81	30.16	29.45	67.9	75.6	72.7	80.3	63.3	71.8	93	55	58	56	58	72	55	62	.496	.470	.493	3.96	1.82	.0	6.3	6.0	5.9	5.7
July	29.78	30.22	29.50	73.4	81.8	77.8	86.1	68.5	77.3	104	62	62	60	64	69	50	63	.559	.534	.598	2.60	.99	.0	5.0	5.7	6.6	5.4
August	29.91	30.23	29.60	72.4	81.3	77.1	84.5	67.6	76.0	95	58	64	63	63	77	55	63	.616	.590	.587	3.30	1.18	.0	5.7	4.8	5.4	5.3
September	29.98	30.31	29.49	65.5	73.7	69.1	77.7	61.3	69.5	91	47	58	58	59	79	59	72	.502	.491	.512	3.72	1.87	.0	5.8	6.2	4.5	5.5
October	29.99	30.41	29.14	54.7	63.4	58.7	66.6	50.5	58.6	78	29	48	48	48	79	59	67	.368	.369	.359	1.76	.67	.0	5.3	5.6	4.0	5.4
November	29.96	30.51	29.31	40.8	47.6	43.8	51.1	35.9	43.5	77	20	31	30	30	67	51	58	.192	.195	.191	.69	.38	T	5.8	6.6	4.7	5.6
December	30.14	30.61	29.39	36.6	42.3	41.4	46.7	32.5	39.6	62	15	30	31	32	75	65	70	.177	.186	.194	4.83	1.36	.3	6.8	6.2	5.8	6.3
Year	29.92	30.61	28.92	51.1	58.5	55.8	63.0	46.7	54.8	104	−2	42	42	43	72	56	63	.328	.325	.333	38.70	2.14	14.4	6.0	6.0	5.2	5.6

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

PARKERSBURG, W. VA.

[H=615 ft.; H_b=637 ft.; h_t=77 ft.: h_r=69 ft.; h_a=84 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																											
January	7.2	SW.	35	NW.	1	6	4	2	15	7	16	5	7	0	3	6	22	17	11	13	9	0	10	0	12	0	23	0	0
February	6.9	SW.	30	SW.	0	4	6	0	9	5	17	6	11	0	7	9	13	15	10	12	10	0	8	0	14	0	25	0	0
March	7.5	NW.	28	NW.	0	6	1	2	11	9	12	5	16	0	7	6	18	17	13	5	4	0	7	1	0	0	12	4	0
April	7.5	SW.	34	NW.	1	6	8	2	6	4	16	8	10	0	3	10	17	12	8	5	3	0	7	0	0	0	8	6	0
May	5.5	NW.	23	SW.	0	7	2	1	14	7	6	4	19	2	17	6	8	7	6	0	0	1	9	1	0	5	0	5	0
June	6.3	NW.	30	NW.	0	10	7	1	13	6	4	4	14	1	12	14	4	5	5	0	0	1	5	1	0	9	0	4	0
July	5.4	NW.	30	NW.	0	11	5	3	8	8	14	1	12	0	13	12	6	10	8	0	0	0	7	1	0	13	0	10	0
August	5.2	SE.	27	NW.	0	7	6	1	21	10	4	4	9	0	11	10	10	9	6	0	0	0	8	1	0	12	0	8	0
September	5.6	SE.	20	NW.	0	16	5	3	19	4	6	1	6	0	15	9	6	9	7	0	0	0	12	1	0	10	0	3	0
October	5.7	SE.	21	NW.	0	4	1	0	18	8	13	2	12	4	10	10	11	11	11	0	0	0	15	5	0	0	4	2	0
November	7.1	SW.	27	NW.	0	4	6	0	9	10	12	6	11	2	8	10	12	6	4	6	1	0	9	2	2	0	18	0	0
December	5.8	SE.	21	NW.	0	5	8	2	19	5	8	3	10	2	8	9	14	11	10	2	1	0	17	3	1	0	22	0	0
Year	6.3	SE.	35	NW.	2	86	59	17	162	83	128	49	137	11	114	111	141	128	99	43	28	2	114	16	29	46	112	42	0

PENSACOLA, FLA.

[H=11 ft.; H_b=56 ft.; h_t=149 ft.; h_r=131 ft.; h_a=185 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	13.2	N.	50	S.	5	12	11	6	9	6	5	4	9	0	9	9	13	14	12	1	0	0	11	8	0	0	6	8	0
February	13.1	N.	34	N.	2	17	14	5	8	3	7	0	4	0	10	7	12	12	10	0	0	1	6	6	0	0	4	1	0
March	13.3	SE.	35	NW.	3	4	5	7	12	7	9	6	11	1	10	8	13	10	6	0	0	0	8	5	0	0	0	3	0
April	12.8	SE.	40	S.	3	9	7	6	10	9	10	2	7	0	15	7	8	11	8	0	0	1	4	1	0	0	0	9	0
May	12.1	SE.	32	SE.	1	8	11	14	14	2	6	2	3	2	10	15	6	8	7	0	0	0	1	1	0	0	0	6	0
June	11.1	SW.	53	SE.	1	9	8	3	5	8	15	8	3	1	22	8	0	6	6	0	0	0	1	1	0	4	0	7	0
July	12.4	SW.	55	N.	6	3	5	4	4	10	23	4	9	0	4	19	8	13	9	0	0	1	0	0	0	3	0	13	0
August	9.4	SE.	28	N.	0	9	12	6	9	7	9	6	3	1	15	13	3	13	11	0	0	0	0	0	0	5	0	16	0
September	10.2	NE.	27	NW.	0	6	18	4	6	5	9	7	5	0	14	15	1	9	7	0	0	0	0	0	0	2	0	12	0
October	11.0	NE.	24	N.	0	16	22	3	3	2	5	3	8	0	18	9	4	5	3	0	0	0	1	1	0	0	0	3	0
November	12.2	N.	30	W.	0	18	11	4	6	1	2	8	10	0	14	8	8	4	4	0	0	1	0	0	0	0	0	1	0
December	12.7	NE.	32	S.	1	15	20	10	6	3	1	3	4	0	8	11	12	11	9	0	0	0	7	4	0	0	0	1	0
Year	12.0	NE.	55	N.	22	126	144	72	92	63	101	53	76	5	149	129	88	116	92	1	0	4	39	27	0	14	10	82	0

PEORIA, ILL.

[H=602 ft.; H_b=609 ft.; h_t=11 ft.; h_r=4 ft.; h_a=45 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.9	W.	25	NW.	0	4	8	5	3	6	7	21	8	0	10	9	12	13	7	19	12	0	5	2	16	0	29	0	0
February	8.7	W.	25	W.	0	13	11	4	7	3	1	15	4	0	10	6	13	12	9	13	10	0	4	0	21	0	27	1	0
March	8.8	SE.	26	W.	0	7	4	5	11	7	3	14	10	1	13	6	12	10	6	6	3	0	1	0	0	0	16	3	0
April	8.4	NW.	26	NW.	0	7	4	8	10	10	3	5	13	0	15	6	9	12	9	6	3	0	5	0	1	0	11	2	0
May	6.6	S.	20	W.	0	5	7	3	12	18	5	6	5	1	17	5	9	11	5	0	0	0	1	0	0	0	0	5	0
June	6.7	NE.	27	NW.	0	10	19	1	10	7	9	1	1	2	15	11	4	4	2	0	0	1	0	0	0	11	0	5	3
July	5.5	NE.	18	SW.	0	8	15	7	4	5	10	8	5	0	20	11	0	4	3	0	0	0	0	0	0	22	0	4	0
August	5.9	SE.	28	NW.	0	5	11	7	12	15	4	3	5	0	20	9	2	10	9	0	0	0	2	1	0	21	0	12	0
September	6.1	NE.	15	N.	0	5	17	5	11	12	3	2	4	1	13	5	12	12	12	0	0	0	10	0	0	8	0	10	0
October	6.1	S.	18	W.	0	6	5	0	5	24	5	4	9	4	9	11	11	9	7	1	0	0	13	1	0	0	6	4	0
November	8.0	S.	21	NW.	0	6	6	2	6	14	5	11	10	0	15	8	7	3	2	3	1	0	5	0	1	0	22	1	0
December	7.8	S.	25	SW.	0	6	3	7	11	16	6	3	9	1	14	6	11	8	6	3	1	0	7	0	4	0	25	1	0
Year	7.2	S.	28	NW.	0	82	110	54	102	137	61	93	83	10	171	93	102	108	77	51	30	1	53	4	43	62	136	48	3

PHILADELPHIA, PA.

[H=26 ft.; H_b=114 ft.; h_t=174 ft.; h_r=166 ft.; h_a=367 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	12.5	NW.	38	SW.	7	5	3	7	3	4	8	18	14	0	9	10	12	16	11	11	9	0	10	3	11	0	19	0	0
February	11.7	W.	29	N.	0	9	7	6	2	2	10	9	13	0	8	8	13	9	7	8	5	0	7	0	13	0	25	0	0
March	12.9	S.	41	SE.	3	6	9	7	6	14	9	5	6	0	5	9	17	14	11	3	2	0	8	1	0	0	6	0	0
April	13.9	S.	46	S.	3	6	6	4	2	11	8	11	12	0	6	11	13	13	9	2	1	0	2	0	0	0	2	2	0
May	13.3	SW.	34	SW.	1	11	2	2	2	15	17	3	10	0	17	11	3	7	6	0	0	0	1	0	0	2	0	5	0
June	12.3	N.	33	S.	1	14	10	6	6	8	10	4	2	0	12	5	13	11	7	0	0	0	2	0	0	1	0	4	0
July	10.8	SW.	40	NW.	4	11	2	4	4	14	15	4	8	0	9	13	9	11	8	0	0	0	1	0	0	9	0	8	0
August	10.9	SW.	32	SW.	1	6	8	7	4	8	17	10	2	0	8	13	10	11	9	0	0	0	4	0	0	9	0	8	0
September	12.2	SW.	42	N.	2	7	10	4	10	8	13	4	4	0	10	8	12	10	8	0	0	0	7	1	0	1	0	1	0
October	11.8	SW.	34	NW.	1	11	7	6	3	9	14	8	4	0	11	8	12	8	7	0	0	0	14	5	0	0	1	0	0
November	14.3	SW.	40	NW.	4	11	5	1	2	5	15	5	16	0	10	10	10	5	4	4	0	0	7	0	1	0	11	0	0
December	13.4	N.	37	SW.	1	14	14	3	1	1	11	8	10	0	9	8	14	12	10	4	1	0	12	3	1	0	14	0	0
Year	12.5	SW.	46	S.	28	111	83	57	45	99	147	89	101	0	114	114	138	127	97	32	18	0	75	13	26	22	78	28	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	28.85	29.15	28.51	41.3	61.6	62.4	67.2	38.5	52.8	76	30	27	25	27	56	26	28	0.148	0.141	0.155	0.80	0.79	0.0	2.6	3.7	4.9	3.8
February	28.79	29.07	28.51	46.5	63.1	64.6	68.3	44.5	56.4	83	34	39	35	34	70	38	35	.244	.215	.207	1.01	.55	.0	3.0	4.3	4.3	4.1
March	28.72	29.04	28.28	52.6	74.1	75.3	79.3	49.9	64.6	90	38	34	28	27	50	20	18	.194	.158	.147	.50	.33	.0	3.0	2.7	3.8	3.3
April	28.73	29.07	28.54	58.9	83.6	85.3	88.7	57.5	73.1	100	42	31	26	25	35	13	12	.173	.145	.136	.14	.12	.0	2.0	2.7	2.9	2.6
May	28.63	28.80	28.40	66.5	93.1	94.4	98.2	65.2	81.7	106	55	36	31	28	35	12	10	.221	.178	.153	T	T	.0	1.4	1.6	2.4	1.9
June	28.60	28.83	28.44	76.0	100.4	102.3	105.6	75.0	90.3	114	58	43	41	39	31	14	12	.293	.266	.247	T	T	.0	1.0	.6	1.7	1.1
July	28.64	28.82	28.45	81.6	101.0	102.5	106.1	80.2	93.2	114	68	60	56	53	51	25	22	.534	.465	.428	2.49	2.14	.0	3.2	1.4	3.4	2.8
August	28.67	28.91	28.51	80.4	98.0	99.8	103.2	79.0	91.1	110	74	65	61	58	61	31	27	.622	.548	.485	.32	.12	.0	4.0	1.6	2.8	2.8
September	28.64	28.86	28.32	72.0	92.5	92.8	97.0	70.1	83.6	107	52	53	51	49	52	26	24	.424	.392	.368	.43	.43	.0	1.5	2.2	2.6	2.1
October	28.74	28.96	28.44	61.6	83.0	81.9	87.1	59.2	73.2	100	48	43	42	43	53	27	28	.281	.273	.282	.13	.13	.0	1.7	3.1	2.5	2.5
November	28.90	29.29	28.60	51.5	71.8	69.7	75.5	48.1	61.8	87	38	35	31	34	55	26	30	.210	.193	.207	.35	.27	.0	2.0	3.1	2.9	2.7
December	28.86	29.18	28.55	43.0	61.7	60.2	65.7	40.6	53.2	75	33	34	33	36	74	37	43	.203	.193	.217	2.12	.94	.0	2.7	4.8	4.8	4.5
Year	28.73	29.29	28.28	61.0	82.0	82.6	86.8	59.0	72.9	114	30	42	38	38	52	25	24	.296	.264	.253	8.29	2.14	.0	2.3	2.6	3.2	2.8

PITTSBURGH, PA.[1]

[ϕ=40°21′ N.; λ=79°56′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.61	29.16	27.97	19.9	25.0	23.0	29.7	15.4	22.6	51	−16	17	19	19	87	78	83	0.109	0.122	0.112	3.50	0.94	20.9	8.7	8.7	7.3	8.3
February	28.67	29.05	27.95	17.4	25.9	24.8	31.8	14.0	22.9	58	−8	14	17	18	85	68	73	.092	.107	.103	2.30	1.15	10.7	7.2	6.8	5.4	6.5
March	28.50	28.90	27.97	36.3	45.8	43.9	51.2	33.3	42.2	75	15	31	33	33	82	62	68	.183	.196	.192	5.88	1.80	9.6	8.2	7.5	6.4	7.6
April	28.65	29.08	28.06	42.0	48.4	46.9	55.0	35.9	45.4	78	21	33	33	33	72	57	61	.202	.200	.200	2.11	1.02	1.6	7.3	8.4	7.8	7.8
May	28.72	29.16	28.35	59.1	70.9	66.7	75.0	52.2	63.6	90	37	46	45	46	63	41	49	.329	.312	.326	1.01	.39	.0	4.8	5.6	5.5	4.8
June	28.58	28.87	28.24	64.5	75.0	71.8	80.3	58.4	69.4	93	49	52	51	53	67	46	55	.408	.391	.414	1.61	.44	.0	4.6	5.3	6.2	5.3
July	28.62	29.01	28.35	69.2	82.7	78.1	86.6	63.3	75.0	102	52	57	55	54	67	41	47	.477	.448	.459	3.07	1.45	.0	4.9	6.3	5.8	5.6
August	28.68	29.01	28.45	68.2	80.8	75.7	84.9	64.3	74.6	98	51	62	61	62	81	53	66	.563	.551	.569	3.97	1.78	.0	5.0	6.5	5.9	6.0
September	28.72	28.95	28.39	61.0	73.8	69.6	77.9	57.6	67.8	91	45	55	55	55	82	54	62	.454	.446	.453	4.93	3.01	.0	6.0	5.2	4.8	5.2
October	28.72	29.08	28.07	48.9	59.9	54.9	63.4	45.3	54.4	78	27	44	45	45	84	61	70	.312	.326	.315	4.05	1.97	T	5.7	6.3	4.9	6.0
November	28.70	29.21	28.14	34.1	41.1	38.5	45.9	30.4	38.2	74	14	28	29	28	78	62	67	.166	.171	.168	2.65	1.86	1.2	7.3	6.8	5.0	6.6
December	28.82	29.20	28.15	31.2	38.1	36.9	43.3	28.3	35.8	61	10	26	29	29	81	68	72	.148	.163	.158	3.39	.97	9.3	7.6	7.4	6.8	7.2
Year	28.67	29.21	27.95	46.0	55.6	52.6	60.4	41.5	51.0	102	−16	39	39	40	77	58	64	.287	.286	.289	38.47	3.01	53.3	6.4	6.7	6.0	6.4

POCATELLO, IDAHO

[ϕ=42°52′ N.; λ=112°29′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	25.47	25.80	25.04	21.4	27.8	27.9	31.6	16.3	24.0	45	−7	17	21	21	84	75	74	0.098	0.116	0.116	2.46	0.54	17.3	6.1	7.6	7.9	8.0
February	25.30	25.85	24.73	24.3	29.0	29.3	34.1	19.8	27.0	48	−6	19	20	21	80	68	69	.111	.111	.114	2.04	.29	16.5	7.9	7.9	8.7	8.2
March	25.42	25.81	24.78	30.6	39.8	39.2	43.7	26.6	35.2	57	16	22	24	25	69	53	57	.116	.125	.133	1.48	.76	10.0	5.3	7.2	6.2	6.3
April	25.46	25.83	25.02	40.7	56.7	57.8	61.4	38.4	49.9	80	12	30	30	31	65	39	40	.169	.172	.173	.97	.37	4.0	4.7	4.9	5.3	4.9
May	25.44	25.79	25.11	48.9	68.8	70.3	74.1	44.9	59.5	89	32	32	30	29	52	27	25	.182	.174	.161	.71	.35	T	3.5	4.4	3.5	3.7
June	25.41	25.65	25.12	56.6	75.1	76.9	80.7	53.8	67.2	98	36	40	39	39	58	32	32	.256	.245	.242	1.03	.65	.0	4.2	4.5	4.6	4.6
July	25.48	25.68	25.24	65.5	85.6	84.1	90.4	62.8	76.6	100	53	47	46	45	52	28	30	.324	.322	.311	2.44	1.75	.0	3.5	4.2	6.1	4.7
August	25.50	25.66	25.32	59.8	79.9	81.8	85.7	57.9	71.8	95	44	44	45	43	57	32	28	.304	.316	.293	1.92	.36	.0	3.2	2.6	3.4	3.3
September	25.49	25.78	25.02	47.2	69.0	71.4	74.8	44.2	59.5	87	28	30	30	28	52	25	22	.174	.172	.157	.20	.16	.0	1.1	2.1	1.6	1.7
October	25.55	25.79	25.14	40.7	59.5	58.9	64.7	37.1	50.9	83	25	28	31	30	60	37	35	.153	.174	.164	.53	.47	T	2.5	3.8	2.6	3.3
November	25.72	25.99	25.14	25.9	42.8	40.4	49.2	22.5	35.8	61	12	20	23	22	76	45	46	.104	.122	.116	.09	.06	.8	2.8	3.2	3.1	3.0
December	25.46	25.83	25.02	28.2	35.5	34.2	39.0	23.7	31.4	52	7	22	24	24	77	61	66	.118	.127	.128	.81	.22	6.0	6.1	6.9	7.5	7.0
Year	25.48	25.99	24.73	40.8	55.8	56.0	60.8	37.3	49.1	100	−7	29	30	30	65	44	44	.176	.181	.176	14.68	1.75	54.6	4.2	4.9	5.0	4.9

PORT ARTHUR, TEX.

[ϕ=29°53′ N.; λ=93°55′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.02	30.49	29.56	46.2	54.4	-----	59.4	42.9	51.2	73	25	43	45	---	90	71	---	0.303	0.315	-----	4.63	1.43	T	4.5	5.1	----	5.4
February	30.01	30.33	29.50	46.2	55.1	-----	59.4	42.9	51.2	74	26	41	43	---	83	66	---	.289	.317	-----	3.08	1.21	0.0	6.1	6.1	----	6.4
March	29.91	30.21	29.64	59.9	70.5	-----	73.1	57.4	65.2	83	45	56	58	---	89	68	---	.471	.511	-----	1.09	.65	.0	5.8	5.6	----	5.6
April	30.02	30.39	29.51	60.8	71.4	-----	75.0	57.8	66.4	86	38	56	53	---	84	55	---	.474	.434	-----	2.45	1.29	.0	4.9	4.2	----	4.5
May	29.93	30.14	29.60	71.4	79.0	-----	81.7	68.8	75.2	87	62	66	66	---	86	66	---	.654	.644	-----	17.88	6.31	.0	6.3	6.7	----	5.9
June	29.87	30.06	29.63	79.4	88.3	84.9	91.0	76.1	83.6	98	68	71	69	71	77	54	65	.773	.720	0.769	1.07	.87	.0	2.2	3.2	2.9	3.0
July	29.94	30.11	29.76	79.5	86.5	83.6	90.4	75.8	83.1	95	70	74	72	73	83	64	71	.835	.798	.810	10.15	5.39	.0	4.5	5.6	5.6	5.5
August	29.94	30.12	29.77	79.1	87.0	84.8	91.3	76.3	83.8	97	70	74	72	73	85	63	69	.849	.798	.823	5.60	2.19	.0	3.8	5.9	5.3	5.1
September	29.92	30.02	29.75	77.2	84.5	81.7	88.4	75.0	81.7	96	59	73	71	73	87	66	75	.823	.778	.817	7.26	3.26	.0	4.0	6.1	5.0	5.4
October	30.01	30.26	29.82	62.7	75.1	71.3	78.5	60.4	69.4	88	49	58	57	60	85	56	70	.503	.490	.544	1.31	.83	.0	3.8	4.2	3.1	3.9
November	30.16	30.45	29.85	51.2	63.5	60.0	67.7	48.5	58.1	82	34	45	46	47	79	56	65	.325	.341	.345	3.27	1.49	.0	5.1	4.7	3.7	5.1
December	30.09	30.40	29.69	51.0	58.2	-----	61.5	47.5	54.5	72	32	48	48	---	88	71	---	.351	.364	-----	3.46	1.06	.0	6.0	6.3	----	6.1
Year	29.98	30.49	29.50	63.7	72.8	-----	76.4	60.8	68.6	98	25	59	58	---	85	63	---	.554	.542	-----	61.25	6.31	T	4.8	5.3	----	5.2

[1] Observations taken at Airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

PHOENIX, ARIZ.

[H=1,083 ft.; H_b=1,107 ft.; h_t=39 ft.; h_r=37 ft.; h_a=51 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																											
January	4.9	E.	18	NW.	0	1	4	18	2	5	7	14	8	3	15	11	5	2	2	0	0	0	1	1	0	0	2	0	0
February	5.5	E.	26	SW.	0	4	1	22	1	3	5	14	6	2	15	5	9	8	5	0	0	0	0	0	0	0	0	1	0
March	6.4	E.	35	SW.	1	6	0	23	2	6	5	12	7	1	21	2	8	3	3	0	0	0	0	0	0	0	0	2	0
April	6.5	E.	24	W.	0	6	1	18	3	4	6	11	11	0	19	9	2	3	1	0	0	0	0	0	0	19	0	1	0
May	6.7	E.	26	N.	0	5	1	18	3	3	6	14	10	2	23	7	1	0	0	0	0	0	0	0	0	27	0	1	0
June	6.5	W.	27	NE.	0	3	3	20	2	3	0	16	11	2	25	5	0	0	0	0	0	0	0	0	0	28	0	0	0
July	6.6	E.	41	NE.	1	6	5	20	2	6	2	11	5	5	18	13	0	7	4	0	0	0	0	0	0	31	0	8	0
August	5.8	E.	38	SW.	2	4	2	18	2	5	4	14	6	7	21	10	0	5	4	0	0	0	0	0	0	31	0	10	0
September	5.8	E.	35	NW.	1	11	1	20	3	3	4	7	7	4	22	5	3	1	1	0	0	0	0	0	0	26	0	3	0
October	5.4	E.	23	SW.	0	4	4	27	4	3	2	8	4	6	20	6	5	1	1	0	0	0	0	0	0	13	0	2	0
November	5.1	E.	22	NE.	0	4	8	18	3	0	1	6	3	17	18	9	3	4	3	0	0	0	0	0	0	0	0	2	0
December	4.1	E.	15	SE.	0	3	7	19	5	2	1	8	6	11	15	5	11	5	5	0	0	0	0	0	0	0	0	0	0
Year	5.8	E.	41	NE.	5	57	37	241	32	43	43	135	84	60	232	87	47	39	29	0	0	0	1	1	0	176	2	30	0

PITTSBURGH, PA.[1]

[H=1,248 ft.; H_b=1,273 ft.; h_t=39 ft.; h_r=38 ft.; h_a=54 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.9	SW.	40	W.	3	2	4	3	9	8	19	11	5	1	1	7	23	16	16	22	9	0	16	8	14	0	28	1	0
February	11.2	SW.	45	SW.	2	3	8	3	5	7	12	10	10	0	5	10	14	16	10	15	12	0	11	6	16	0	26	0	0
March	12.0	SW.	34	SW.	2	6	6	5	7	11	8	6	13	0	4	8	19	18	15	10	4	0	16	4	2	0	17	1	0
April	12.1	NW.	49	NW.	7	2	4	2	8	8	9	12	15	0	3	6	21	15	11	9	4	1	9	2	0	0	11	2	0
May	10.0	NW.	34	NW.	2	6	3	3	2	9	13	9	17	0	12	12	7	6	6	0	0	0	3	0	0	0	0	5	0
June	9.6	NW.	32	NW.	1	6	10	2	7	9	10	5	11	0	11	10	9	11	8	0	0	0	13	1	0	2	0	9	0
July	8.7	NW.	34	NW.	1	10	5	2	3	9	12	3	18	0	7	15	9	7	5	0	0	0	10	0	0	11	0	7	0
August	9.1	SW.	43	NW.	2	4	7	3	7	14	11	9	7	0	7	15	9	11	8	0	0	0	12	3	0	6	0	9	0
September	9.4	S.	34	NW.	1	9	8	3	8	16	9	1	6	0	10	13	7	8	7	0	0	0	9	2	0	3	0	3	0
October	10.0	SW.	34	NW.	2	4	7	2	9	15	11	7	7	0	8	12	11	14	12	2	0	0	12	4	0	0	4	3	0
November	12.8	SW.	34	NW.	3	3	1	4	4	12	10	12	14	0	6	8	16	9	4	14	5	0	10	0	3	0	18	0	0
December	11.0	S.	31	W.	0	5	3	3	14	12	7	9	9	0	5	8	18	11	7	11	6	0	11	7	3	0	22	0	0
Year	10.6	SW.	40	NW.	26	60	66	35	83	130	131	94	132	1	79	124	163	142	109	83	40	1	132	37	38	22	126	40	0

POCATELLO, IDAHO

[H=4,468 ft.; H_b=4,478 ft.; h_t=60 ft.; h_r=52 ft.; h_a=68 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.6	W.	36	S.	1	4	1	8	11	7	4	17	10	0	2	6	23	16	12	20	15	0	7	4	15	0	30	0	0
February	11.3	SW.	31	SW.	0	4	0	0	11	11	19	6	7	0	2	6	21	20	16	20	18	0	2	0	9	0	26	0	0
March	10.2	SE.	30	SW.	0	2	0	0	20	5	14	13	7	1	7	11	13	11	7	12	9	0	1	1	1	0	27	0	0
April	9.1	SE.	30	SW.	0	1	1	1	22	11	11	9	4	0	9	13	8	10	8	3	2	1	0	0	2	0	7	4	0
May	9.6	SE.	31	SW.	0	4	2	1	28	8	9	4	6	0	15	11	5	6	3	2	0	1	0	0	0	0	1	2	0
June	8.1	SE.	27	SW.	0	3	1	0	24	5	10	11	6	0	12	9	9	9	5	0	0	0	0	0	0	10	0	7	1
July	8.4	SE.	30	S.	0	4	2	2	27	11	3	6	7	0	10	14	7	13	5	0	0	1	0	0	0	19	0	14	0
August	7.9	SE.	32	SW.	1	6	2	1	26	12	4	5	5	1	18	8	5	9	9	0	0	0	1	0	0	5	0	10	0
September	7.9	SE.	30	SW.	0	10	0	4	16	9	4	9	8	0	22	6	2	2	2	0	0	0	0	0	0	0	3	2	0
October	7.2	SE.	21	S.	0	11	0	8	14	7	3	10	9	0	19	7	5	3	2	2	0	0	0	0	0	0	8	0	0
November	6.2	SE.	21	SW.	0	7	3	3	16	6	7	10	8	0	19	8	3	4	0	6	4	0	2	0	1	0	29	0	0
December	10.2	SE.	32	S.	1	3	1	1	23	6	18	8	2	0	4	11	16	12	9	15	10	0	2	0	4	0	27	0	0
Year	8.8	SE.	36	S.	3	59	13	29	238	98	106	108	79	2	139	110	117	115	78	80	58	3	15	5	32	34	158	39	1

PORT ARTHUR, TEX.

[H=5 ft.; H_b=34 ft.; h_t=98 ft.; h_r=91 ft.; h_a=106 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.1	N.	31	NW.	0	7	7	4	1	4	0	1	7	0	13	5	13	14	9	1	0	0	9	6	0	0	7	4	0
February	9.2	N.	35	N.	1	8	4	10	2	1	1	2	0	1	6	6	17	12	8	0	0	0	8	5	0	0	3	3	0
March	8.3	S.	29	N.	0	2	2	7	4	5	1	6	3	1	9	12	10	8	5	0	0	0	4	3	0	0	0	1	0
April	9.1	S.	26	NW.	0	9	1	5	3	6	2	3	0	1	13	12	5	8	5	0	0	0	6	4	0	0	0	1	0
May	8.1	E.	27	N.	0	7	9	7	4	3	0	0	1	0	4	18	9	15	14	0	0	0	1	0	0	0	0	14	0
June	7.7	S.	25	NE.	0	6	3	5	8	27	2	5	3	1	17	12	1	2	2	0	0	1	0	0	0	18	0	3	0
July	8.0	S.	34	NE.	1	7	3	4	4	23	11	5	2	3	8	16	7	9	9	0	0	0	1	0	0	19	0	9	0
August	6.1	S.	21	NE.	0	7	6	8	10	19	4	1	7	0	9	17	5	12	11	0	0	0	0	0	0	24	0	17	0
September	7.7	S.	25	S.	0	2	10	7	12	21	0	0	7	1	7	18	5	16	10	0	0	0	1	0	0	14	0	14	0
October	7.5	N.	21	N.	0	22	4	9	8	5	0	4	9	1	17	9	5	3	3	0	0	0	4	0	0	0	0	1	0
November	9.6	N.	27	NW.	0	22	5	10	4	8	0	5	6	0	11	9	10	6	5	0	0	0	4	1	0	0	0	0	0
December	10.8	E.	34	S.	1	7	4	8	2	3	0	5	2	0	9	6	16	8	7	0	0	0	5	4	0	0	1	1	0
Year	8.4	S.	35	N.	3	106	58	84	62	125	21	37	47	9	123	140	103	113	88	1	0	1	43	23	0	75	11	68	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

PORTLAND, MAINE

[ϕ=43°39′ N.; λ=70°15′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.76	30.39	28.81	21.0	26.6	25.3	32.0	17.2	24.6	48	−1	12	14	14	68	58	62	0.089	0.092	0.093	10.01	2.34	29.8	5.2	5.1	3.9	4.3
February	29.90	30.37	29.21	15.1	23.4	22.2	27.7	12.1	19.9	43	−1	7	9	12	68	56	62	.069	.081	.081	5.30	1.46	29.1	3.3	4.3	3.8	4.0
March	29.82	30.32	28.97	35.0	41.4	38.2	44.5	31.9	38.2	62	10	29	30	28	78	68	70	.172	.183	.164	7.48	1.38	11.7	4.8	5.3	4.5	5.4
April	29.85	30.30	29.23	40.0	45.7	43.0	48.8	36.0	42.4	74	28	30	32	31	69	61	64	.175	.189	.180	4.54	1.44	3.4	5.8	6.6	5.4	5.9
May	29.84	30.50	29.32	54.5	59.6	55.3	63.9	46.5	55.2	92	32	43	43	43	67	57	65	.294	.295	.287	1.41	.51	.0	3.8	4.1	4.1	3.9
June	29.78	30.21	29.28	61.6	66.9	62.3	70.9	54.9	62.9	78	45	52	53	51	73	64	69	.396	.410	.385	2.68	1.18	.0	4.2	3.8	4.4	4.7
July	29.74	30.15	29.35	65.3	70.8	67.3	74.7	58.5	66.6	96	51	56	56	55	73	62	68	.453	.451	.440	.76	.38	.0	3.6	3.8	4.5	4.0
August	29.88	30.20	29.51	65.5	71.4	66.3	74.8	59.5	67.2	95	53	55	55	56	70	60	70	.441	.451	.447	2.05	.63	.0	2.9	4.1	4.1	3.8
September	29.98	30.40	29.47	57.0	63.3	59.0	66.4	52.3	59.4	88	39	49	49	48	75	61	68	.364	.372	.355	2.02	1.16	.0	4.2	4.3	2.8	4.3
October	29.94	30.52	29.03	46.9	54.9	50.2	58.6	42.2	50.4	75	25	39	38	36	72	57	59	.258	.256	.230	2.94	.91	.0	4.6	3.9	2.3	3.5
November	29.85	30.58	29.10	32.3	39.1	35.9	43.9	27.9	35.9	64	11	23	25	24	66	56	61	.138	.151	.143	1.75	.86	2.9	5.3	5.3	4.4	5.0
December	30.11	30.75	29.19	28.1	33.0	32.5	39.1	22.8	31.0	54	8	20	21	22	70	60	63	.125	.122	.127	8.09	2.49	2.4	5.6	5.4	4.9	5.4
Year	29.87	30.75	28.81	43.5	49.7	46.5	53.8	38.5	46.1	96	−1	35	35	35	71	60	65	.248	.254	.244	49.03	2.49	79.3	4.4	4.7	4.1	4.5

PORTLAND, OREG.

[ϕ=45°32′ N.; λ=122°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.84	30.26	29.22	42.1	45.8	45.6	48.5	39.8	44.2	55	27	37	37	37	82	73	74	0.224	0.229	0.230	8.55	1.90	0.0	8.0	7.8	8.0	8.1
February	29.80	30.31	29.10	31.4	35.2	35.5	38.9	28.9	33.9	56	14	24	25	27	73	66	69	.145	.151	.160	4.73	1.25	3.3	7.8	8.5	8.5	8.8
March	29.95	30.35	29.50	40.2	47.9	49.8	52.5	38.1	45.3	67	31	36	37	37	84	67	63	.210	.222	.222	3.10	1.29	1.6	6.3	7.7	8.1	8.0
April	29.93	30.52	29.46	47.5	58.5	63.0	64.5	46.6	55.6	85	31	43	43	43	86	58	51	.286	.284	.284	.80	.31	5.2	9.0	6.9	7.5	7.6
May	29.84	30.39	29.29	52.7	65.6	68.7	70.7	51.7	61.2	89	41	47	48	47	82	54	50	.326	.338	.331	3.72	1.13	.0	6.5	6.2	6.3	6.2
June	29.81	30.11	29.45	57.3	69.0	71.6	73.8	56.5	65.2	85	51	53	52	53	85	56	54	.400	.390	.408	2.43	1.03	.0	6.8	6.8	6.6	6.7
July	29.85	30.04	29.51	58.4	71.9	76.7	77.7	57.8	67.8	88	53	54	53	54	84	53	46	.412	.406	.414	.40	.17	.0	3.7	4.0	3.1	3.7
August	29.85	30.01	29.55	59.4	73.3	79.4	80.4	58.6	69.5	97	52	54	54	53	82	51	42	.414	.415	.408	.07	.06	.0	4.6	3.4	1.6	3.5
September	29.87	30.27	29.58	55.1	67.0	71.5	73.2	53.7	63.4	88	44	50	50	50	82	56	49	.360	.362	.367	1.41	.94	.0	4.5	3.5	2.8	3.8
October	29.95	30.25	29.58	51.1	62.7	66.1	68.2	49.1	58.6	88	36	47	48	48	87	60	54	.323	.331	.337	.44	.23	.0	3.6	3.7	4.0	5.1
November	30.13	30.45	29.76	40.3	49.3	49.9	53.0	38.1	45.6	64	30	35	37	38	83	65	66	.209	.226	.234	.36	.33	.0	2.9	3.2	3.4	4.3
December	29.88	30.42	29.24	42.3	44.9	45.4	47.3	40.2	43.8	58	27	39	40	41	89	84	84	.246	.256	.260	8.28	2.35	.5	8.2	9.7	9.2	9.5
Year	29.89	30.52	29.10	48.2	57.6	60.3	62.4	46.6	54.5	97	14	43	44	44	83	62	58	.296	.301	.305	34.29	2.35	10.6	6.0	6.0	5.8	6.3

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.74	30.31	28.85	23.7	30.5	28.7	35.3	21.3	28.3	53	6	16	17	19	72	57	66	0.104	0.110	0.118	6.84	1.93	12.0	5.6	4.2	3.6	4.5
February	29.87	30.30	29.20	20.0	27.3	26.0	30.7	16.1	23.4	49	4	12	13	15	70	56	61	.084	.091	.096	3.77	1.85	7.9	5.2	4.8	4.7	5.1
March	29.75	30.24	28.96	40.4	48.1	43.3	51.9	35.6	43.8	70	15	33	33	34	75	60	71	.204	.209	.208	6.78	2.35	3.2	5.8	5.7	5.6	5.6
April	29.83	30.35	29.23	42.5	50.3	46.0	53.5	37.2	45.4	80	29	32	32	33	68	54	62	.192	.196	.196	3.79	1.28	T	7.0	5.9	6.0	6.3
May	29.84	30.43	29.33	58.2	65.5	59.0	70.6	49.3	60.0	92	35	44	43	45	62	48	62	.312	.307	.314	1.68	1.19	.0	4.0	3.6	3.0	3.8
June	29.75	30.13	29.30	65.7	72.8	66.9	75.8	58.3	67.0	85	53	55	54	56	70	55	70	.441	.431	.452	2.92	1.34	.0	6.5	4.9	5.6	5.7
July	29.71	30.11	29.36	69.3	77.0	71.6	81.2	61.9	71.6	94	55	58	58	60	68	54	69	.488	.496	.529	2.34	.66	.0	5.7	4.9	5.1	4.9
August	29.84	30.16	29.53	68.9	77.9	70.4	81.4	61.9	71.6	93	53	60	59	61	74	54	74	.526	.509	.551	3.00	.81	.0	5.4	4.3	5.5	5.2
September	29.93	30.29	29.44	60.6	68.8	62.7	71.8	55.1	63.4	89	39	53	53	54	77	58	76	.423	.420	.441	5.29	3.99	.0	6.3	5.7	5.8	5.7
October	29.91	30.43	29.08	51.2	59.9	53.6	62.5	45.5	54.0	76	25	43	44	44	75	59	71	.308	.321	.317	2.49	1.06	.0	4.8	4.9	3.5	4.5
November	29.84	30.48	29.18	37.1	43.1	39.8	47.6	31.2	39.4	72	13	29	26	27	71	52	61	.180	.166	.176	1.05	.30	3.7	5.7	4.7	4.5	5.0
December	30.06	30.58	29.26	32.9	38.5	36.7	43.8	27.5	35.6	61	10	26	28	29	76	66	73	.161	.168	.171	9.44	2.78	T	6.5	5.9	5.6	6.1
Year	29.84	30.58	28.85	47.5	55.0	50.4	58.8	41.7	50.3	94	4	38	38	40	72	56	68	.285	.285	.297	49.39	3.99	26.8	5.7	5.0	4.9	5.2

PUEBLO, COLO.

[ϕ=38°18′ N.; λ=104°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	25.19	25.54	24.69	25.3	40.4	39.0	45.7	21.2	33.4	67	2	14	16	16	64	42	42	0.079	0.087	0.089	0.23	0.12	2.9	3.0	4.4	4.6	4.7
February	25.12	25.52	24.61	17.9	33.0	36.0	41.9	12.7	27.3	72	−13	8	14	13	65	51	44	.062	.079	.077	.44	.38	5.0	3.1	4.4	4.2	4.4
March	25.15	25.55	24.60	32.9	52.8	54.2	59.9	29.9	44.9	76	16	18	17	16	53	27	25	.095	.093	.092	.14	.08	.7	3.5	3.8	5.4	4.5
April	25.27	25.55	24.85	38.1	62.3	63.4	67.4	37.3	52.4	81	8	24	24	23	59	26	25	.136	.130	.127	.29	.11	.3	2.9	4.7	6.2	4.7
May	25.29	25.56	24.87	52.5	68.5	71.6	74.8	51.2	63.0	89	36	40	36	35	66	33	32	.256	.223	.219	4.40	1.68	.0	4.5	4.9	6.2	5.4
June	25.29	25.57	24.81	61.3	82.8	83.9	87.8	60.7	74.2	104	51	46	43	43	61	28	28	.322	.289	.294	.62	.30	.0	2.5	2.3	4.7	3.4
July	25.35	25.58	25.10	64.7	87.3	87.0	91.1	63.8	77.4	100	56	49	45	45	59	26	27	.359	.311	.311	1.42	1.22	.0	1.8	2.8	4.8	3.6
August	25.37	25.58	25.17	62.7	84.1	82.1	88.1	61.9	75.0	98	56	53	50	51	72	35	40	.405	.372	.387	2.21	1.02	.0	3.7	2.5	5.5	4.2
September	25.32	25.65	24.93	52.8	73.7	74.3	78.3	51.2	64.8	92	32	41	40	40	67	34	34	.269	.255	.253	1.77	.89	6.6	3.8	3.4	4.1	3.9
October	25.36	25.65	24.96	41.5	60.0	58.6	64.3	38.8	51.6	85	25	33	32	33	72	41	42	.187	.185	.186	.76	.34	1.1	4.6	4.3	4.4	4.8
November	25.46	25.80	24.86	28.7	52.3	49.3	58.0	25.4	41.7	74	11	20	19	21	70	31	35	.106	.101	.111	.21	.15	2.2	1.5	2.5	2.1	2.4
December	25.25	25.56	24.70	24.6	44.9	42.4	49.0	21.6	35.3	66	11	17	20	20	74	38	43	.093	.105	.109	.34	.21	3.6	3.6	3.9	2.9	4.2
Year	25.28	25.80	24.60	41.9	61.8	61.8	67.2	39.6	53.4	104	−13	30	30	30	65	34	35	.197	.186	.188	12.83	1.68	22.4	3.2	3.7	4.6	4.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

PORTLAND, MAINE

[H=47 ft.; H_b=103 ft.; h_t=82 ft.; h_r=75 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: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	10.0	N.	35	S.	3	20	2	1	1	3	5	11	17	2	17	6	8	16	14	13	12	0	2	2	15	0	27	0	0
February	8.8	W.	27	NW.	0	14	4	1	2	3	5	17	9	3	16	5	8	8	8	10	7	0	5	5	22	0	26	1	2
March	9.6	N.	38	SE.	1	14	3	4	10	7	9	4	8	3	14	4	13	18	14	5	5	0	10	13	4	0	10	2	6
April	10.4	NW.	43	S.	1	10	4	2	4	10	9	11	10	0	9	9	12	14	13	8	7	0	4	2	0	0	4	1	11
May	9.8	SW.	35	NW.	1	6	4	3	3	9	14	9	11	3	17	11	3	10	7	0	0	0	1	7	0	1	0	10	6
June	8.5	S.	28	NW.	0	11	6	5	4	15	10	2	7	0	12	11	7	10	7	0	0	0	10	7	0	0	0	8	0
July	7.8	S.	38	S.	1	8	3	11	2	8	11	6	10	3	17	8	6	10	5	0	0	0	8	6	0	3	0	8	7
August	7.6	N.	21	SE.	0	10	3	4	2	6	16	11	4	6	20	3	8	9	7	0	0	0	4	5	0	2	0	5	0
September	8.8	SW.	25	NE.	0	12	6	4	1	7	18	6	3	3	18	5	7	14	8	0	0	0	7	7	0	0	0	1	2
October	9.1	SW.	38	S.	1	11	0	2	2	11	18	10	7	1	19	6	6	11	9	0	0	1	7	3	0	0	3	0	6
November	8.5	N.	29	NW.	0	15	2	2	1	2	10	13	12	3	12	8	10	13	9	8	6	0	2	2	5	0	16	0	6
December	9.2	N.	45	SE.	1	27	3	3	2	3	7	8	8	1	12	7	12	15	14	9	5	0	4	1	10	0	28	0	0
Year	9.0	N.	45	SE.	9	158	40	42	34	84	132	108	106	28	183	83	100	148	115	53	42	1	64	60	56	6	114	36	46

PORTLAND, OREG.

[H=30 ft.; H_b=153 ft.; h_t=68 ft.; h_r=63 ft.; h_a=106 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.7	SE.	30	SW.	0	3	2	10	14	13	11	8	1	0	3	4	24	20	16	0	0	0	7	1	0	0	3	1	0
February	8.4	E.	26	SE.	0	0	6	22	9	4	10	2	3	2	2	3	24	15	14	9	4	0	5	0	7	0	17	0	0
March	6.7	NW.	25	NW.	0	6	1	2	8	3	12	9	20	1	3	5	23	14	13	7	3	0	11	3	0	0	2	0	0
April	5.6	NW.	21	W.	0	2	1	1	15	4	9	8	20	0	1	9	20	9	5	1	1	0	3	0	0	0	1	1	0
May	6.9	NW.	26	SW.	0	2	1	0	6	6	10	8	29	0	8	7	16	16	13	0	0	0	2	0	0	0	0	6	0
June	6.2	NW.	21	W.	0	1	1	2	11	5	8	9	22	1	5	9	16	12	8	0	0	1	1	0	0	0	0	2	0
July	6.5	NW.	17	SW.	0	1	2	0	7	6	8	5	32	1	17	6	8	4	4	0	0	0	0	0	0	0	0	0	0
August	6.2	NW.	15	NW.	0	1	2	0	8	8	2	1	38	2	17	10	4	3	1	0	0	0	0	0	0	3	0	0	0
September	6.5	NW.	18	NE.	0	5	2	2	4	3	4	2	37	1	14	11	5	5	4	0	0	0	4	0	0	0	0	1	0
October	5.3	NW.	23	NE.	0	0	4	5	9	1	3	11	24	5	8	16	7	5	2	0	0	0	15	2	0	0	0	0	0
November	5.0	NW.	15	E.	0	0	6	11	17	0	1	7	17	1	14	10	6	3	1	0	0	0	16	6	0	0	3	0	0
December	6.8	SE.	21	S.	0	1	2	3	20	13	9	6	8	0	0	1	30	23	18	2	1	0	13	0	0	0	4	0	0
Year	6.5	NW.	30	SW.	0	22	30	58	128	66	87	76	251	14	92	91	183	129	99	19	9	1	77	12	7	3	30	11	0

PROVIDENCE, R. I.

[H=8 ft.; H_b=159 ft.; h_t=215 ft.; h_r=211 ft.; h_a=251 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	13.3	NW.	40	NW.	13	3	2	2	4	6	4	10	31	0	16	4	11	12	10	9	5	0	3	0	13	0	24	0	0
February	11.9	NW.	43	NW.	4	5	4	3	2	6	4	14	20	0	14	4	11	9	7	9	7	0	5	2	15	0	26	0	0
March	12.6	NW.	47	SE.	7	9	1	3	12	14	10	1	12	0	12	7	12	13	9	5	2	0	13	2	1	0	7	2	0
April	12.7	NW.	44	NW.	4	5	4	2	4	9	9	6	21	0	8	9	13	13	12	3	0	0	6	0	0	0	2	1	0
May	12.2	NW.	34	NW.	2	6	2	1	5	11	15	4	18	0	17	11	3	10	5	0	0	0	4	0	0	2	0	5	0
June	10.5	NW.	29	NW.	0	8	7	3	7	9	11	6	9	0	9	11	10	10	6	0	0	0	9	0	0	0	0	2	0
July	9.1	NW.	42	NW.	2	4	9	5	5	10	17	2	10	0	11	14	6	7	5	0	0	1	3	1	0	4	0	8	0
August	9.2	NW.	32	NW.	1	7	4	4	5	11	15	4	12	0	8	16	7	12	8	0	0	0	8	1	0	5	0	3	0
September	10.0	SW.	38	NW.	2	7	7	3	4	11	15	3	10	0	8	12	10	10	7	0	0	0	8	3	0	0	0	2	0
October	10.1	NW.	51	SE.	4	3	1	2	2	14	13	5	18	4	15	6	10	8	8	0	0	0	10	3	0	0	3	0	0
November	11.9	NW.	41	NW.	4	4	2	2	0	4	14	10	23	1	12	8	10	9	7	4	2	0	10	1	3	0	16	0	0
December	11.9	NW.	47	SE.	5	7	5	3	3	6	5	7	26	0	11	4	16	15	14	4	1	0	9	3	3	0	20	0	0
Year	11.3	NW.	51	SE.	48	68	48	33	53	111	132	72	210	5	141	106	119	128	98	34	17	1	88	16	35	11	98	23	0

PUEBLO, COLO.

[H=4,663 ft.; H_b=4,685 ft.; h_t=80 ft.; h_r=72 ft.; h_a=86 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.9	NW.	45	W.	3	3	3	15	7	1	3	10	20	0	10	15	6	5	2	6	5	0	0	0	4	0	25	0	0
February	7.9	E.	49	W.	2	0	4	23	6	0	2	9	14	0	12	13	4	3	1	5	3	0	0	0	10	0	26	0	0
March	8.5	E.	36	NW.	3	8	7	18	6	2	4	7	10	0	14	15	2	4	2	2	2	0	0	1	0	0	19	0	0
April	7.9	E.	30	W.	0	7	7	11	10	2	3	5	15	0	11	12	7	5	3	2	1	0	0	0	1	0	7	1	0
May	7.8	E.	24	E.	0	8	5	19	2	2	6	5	15	0	8	16	7	9	6	0	0	0	0	0	0	0	0	5	0
June	7.9	E.	34	W.	1	3	7	12	7	2	6	5	18	0	17	11	2	7	4	0	0	1	0	0	0	17	0	6	0
July	7.1	E.	30	E.	0	5	4	19	6	1	2	3	22	0	19	9	3	6	3	0	0	0	0	0	0	21	0	6	0
August	6.5	NW.	28	S.	0	6	3	15	5	3	2	9	19	0	14	12	5	10	8	0	0	0	0	0	0	16	0	5	0
September	6.6	E.	21	N.	0	6	2	20	2	5	2	9	14	0	16	9	5	8	6	3	3	0	0	0	0	3	0	1	0
October	6.5	NW.	21	NW.	0	8	8	14	7	2	1	5	17	0	13	9	9	6	4	4	4	0	2	2	0	0	6	0	0
November	6.2	NW.	29	W.	0	6	4	17	6	4	1	4	18	0	22	4	4	2	2	2	2	0	0	0	0	0	26	0	0
December	6.8	NW.	33	NW.	1	7	4	12	8	4	1	6	20	0	16	9	6	2	2	3	2	0	1	1	1	0	29	0	0
Year	7.4	NW.	49	W.	10	67	58	195	72	28	33	77	202	0	172	134	60	67	43	27	22	1	3	4	16	57	138	24	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

RALEIGH, N. C.

[ϕ=35°45′ N.; λ=78°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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.64	30.13	28.66	31.9	40.1	39.6	46.8	29.5	38.2	69	9	26	32	33	80	73	78	0.167	0.202	0.206	6.62	1.74	5.1	4.8	5.0	5.1	5.6
February	29.68	30.13	28.99	33.7	43.0	42.4	48.6	30.8	39.7	78	14	27	32	33	77	67	72	.162	.203	.207	5.38	1.45	10.1	6.5	6.0	5.2	5.8
March	29.49	29.93	28.68	49.0	61.0	57.0	65.2	45.2	55.2	84	32	44	52	50	84	73	79	.307	.410	.374	4.46	1.27	T	6.6	6.2	5.5	5.9
April	29.66	30.07	29.11	51.8	61.3	60.4	67.5	47.0	57.2	89	30	42	47	49	70	62	68	.286	.341	.355	5.21	3.13	.0	5.8	5.4	3.8	4.8
May	29.66	30.12	29.25	65.8	77.5	75.0	83.2	59.5	71.4	93	49	54	55	54	67	47	50	.430	.449	.434	1.13	.76	.0	2.8	3.4	2.3	3.1
June	29.54	29.80	29.27	71.0	80.6	77.0	85.6	65.1	75.4	101	54	62	62	64	75	56	67	.564	.563	.668	8.07	3.25	.0	4.8	4.2	4.0	4.5
July	29.54	29.87	29.32	75.6	85.2	78.5	90.0	69.8	79.9	98	56	69	69	70	81	60	77	.714	.722	.745	11.65	3.53	.0	5.6	5.4	5.7	5.2
August	29.64	29.91	29.44	74.5	84.6	80.1	88.3	70.5	79.4	95	61	70	69	71	86	61	75	.738	.720	.765	2.55	1.60	.0	5.7	6.7	4.6	4.9
September	29.66	29.90	29.38	69.3	79.2	75.0	83.6	64.5	74.0	94	48	64	64	66	84	61	74	.605	.601	.637	6.49	2.52	.0	3.9	4.9	4.1	4.3
October	29.70	30.00	29.13	58.1	69.4	64.8	72.6	54.6	63.6	83	38	53	54	57	82	61	76	.425	.325	.486	3.61	1.24	.0	3.9	4.5	4.2	3.8
November	29.72	30.18	29.20	43.8	55.6	52.0	59.6	40.7	50.2	80	23	37	42	43	78	63	71	.244	.288	.296	2.53	1.06	T	3.8	4.1	3.6	3.9
December	29.82	30.30	29.32	41.1	48.2	46.8	52.8	37.6	45.2	68	25	37	42	42	86	82	84	.237	.288	.279	6.52	2.69	T	7.2	6.2	7.0	7.0
Year	29.65	30.30	28.66	55.5	65.5	62.4	70.3	51.2	60.8	101	9	49	52	53	79	64	73	.407	.426	.449	64.22	3.53	15.2	5.1	5.2	4.6	4.9

RAPID CITY, S. DAK.

[ϕ=44°04′ N.; λ=103°12′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	26.53	26.97	26.03	12.8	22.7	19.1	28.0	5.5	16.8	55	−12	7	13	13	80	71	79	0.065	0.081	0.080	0.51	0.18	8.2	4.1	5.8	5.8	5.8
February	26.53	26.86	26.02	−3.4	7.6	4.3	12.0	−9.2	1.4	58	−33	−6	1	1	88	79	86	.041	.055	.056	.59	.26	7.5	5.4	6.5	5.3	6.0
March	26.49	26.84	25.94	30.6	42.1	38.8	46.0	23.9	35.0	65	−6	20	20	22	67	44	54	.110	.108	.116	.82	.44	12.5	5.6	5.9	6.1	5.8
April	26.64	27.03	26.24	34.1	47.4	48.1	52.5	29.7	41.1	85	−8	26	27	29	74	52	55	.151	.150	.163	1.21	.64	4.0	5.7	5.9	5.9	5.7
May	26.60	26.93	26.03	54.4	70.1	70.8	74.6	50.3	62.4	95	33	39	38	40	60	35	35	.255	.245	.252	.09	.05	.0	4.2	4.3	4.7	4.4
June	26.57	26.92	26.13	63.0	77.8	79.8	83.6	57.8	70.7	103	44	47	45	45	59	35	33	.332	.305	.304	1.21	.45	.0	4.2	4.2	4.0	4.1
July	26.58	26.87	26.29	72.4	92.0	92.7	96.8	68.1	82.4	106	56	48	46	46	46	22	23	.348	.315	.317	.27	.08	.0	2.2	3.4	3.9	3.2
August	26.64	26.88	26.38	65.3	82.9	84.2	87.8	62.1	75.0	101	49	48	47	47	56	32	31	.341	.333	.332	.70	.27	.0	3.9	3.9	3.8	3.9
September	26.63	27.04	26.22	56.3	72.0	72.2	77.2	52.3	64.8	94	35	36	37	37	50	31	31	.232	.234	.230	.56	.49	.0	3.2	2.7	2.9	2.9
October	26.68	27.14	26.23	41.9	56.5	53.1	61.0	36.6	48.8	84	10	28	29	31	62	42	47	.154	.160	.170	.81	.39	4.9	4.9	4.2	4.3	4.5
November	26.77	27.06	26.41	33.8	45.4	38.5	49.5	25.8	37.6	75	5	22	26	27	66	51	65	.120	.148	.150	.69	.34	8.3	3.7	4.5	2.4	4.0
December	26.57	26.86	26.17	23.5	33.1	28.4	37.8	16.6	27.2	65	−10	16	19	20	75	60	73	.091	.104	.108	.05	.04	.6	4.0	5.2	3.9	5.6
Year	26.60	27.14	25.94	40.4	54.1	52.5	58.9	35.0	46.9	106	−33	28	29	30	65	46	51	.187	.187	.190	7.51	.64	46.0	4.3	4.7	4.4	4.7

READING, PA.

[ϕ=40°20′ N.; λ=75°58′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.67	30.18	28.81	23.9	27.9	28.8	33.5	20.7	27.1	48	−5	16	19	19	69	68	66	0.104	0.117	0.115	5.29	2.24	13.8	6.6	6.8	6.1	6.5
February	29.76	30.18	29.01	21.6	27.2	27.5	32.4	17.8	25.1	55	2	14	16	16	72	61	61	.095	.099	.099	2.79	.85	13.8	7.3	6.4	5.3	6.3
March	29.54	30.02	28.70	42.0	49.8	47.8	54.7	37.5	46.1	74	16	34	35	37	74	61	67	.208	.221	.232	4.77	.89	2.4	6.8	7.1	7.0	6.7
April	29.68	30.17	29.08	45.3	52.2	50.7	58.1	39.7	48.9	85	28	33	34	35	64	50	56	.203	.210	.213	2.41	1.00	T	7.1	7.0	6.7	6.6
May	29.69	30.27	29.28	60.5	69.9	68.0	75.7	54.7	65.2	91	40	46	46	48	62	44	50	.336	.334	.347	1.35	.47	.0	4.8	3.9	3.6	4.0
June	29.57	29.90	29.23	66.8	74.8	72.2	79.0	61.2	70.1	93	52	55	54	56	68	52	59	.448	.439	.464	5.76	2.82	.0	6.0	6.2	6.2	5.9
July	29.55	29.97	29.22	71.7	80.9	78.7	86.1	66.9	76.5	102	58	60	58	60	68	47	53	.529	.493	.519	1.73	.65	.0	4.5	5.0	5.6	4.8
August	29.67	30.00	29.37	70.1	80.2	75.7	84.0	65.9	75.0	94	57	63	62	62	78	56	65	.582	.575	.578	4.87	1.12	.0	5.6	5.6	5.5	5.4
September	29.74	30.09	29.33	63.0	71.3	68.6	76.0	59.5	67.8	88	41	56	56	57	79	60	69	.463	.461	.488	1.02	1.00	.0	5.7	6.3	5.0	5.6
October	29.75	30.17	28.91	52.7	61.3	57.1	65.3	48.2	56.8	80	24	45	46	45	77	58	65	.328	.339	.327	2.18	1.00	.0	5.1	5.9	5.2	5.2
November	29.73	30.29	29.11	38.7	44.1	42.3	48.9	34.2	41.6	75	17	29	29	29	69	55	59	.177	.177	.175	1.17	.54	1.5	6.2	6.7	5.9	6.2
December	29.90	30.34	29.11	35.8	40.0	39.8	45.7	31.5	38.6	65	13	29	28	30	75	64	68	.166	.165	.170	4.38	1.31	2.7	6.2	6.3	6.2	6.3
Year	29.69	30.34	28.70	49.3	56.6	54.8	61.6	44.8	53.2	102	−5	40	40	41	71	56	62	.303	.302	.311	37.72	2.82	34.2	6.0	6.1	5.7	5.8

REDDING, CALIF.

[ϕ=40°35′ N.; λ=122°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	-----	29.57	28.83	44.2	52.2	53.5	56.1	41.8	49.0	68	33	35	35	37	73	58	58	0.212	0.213	0.227	12.50	2.87	T	6.2	7.0	7.0	7.0
February	-----	29.67	28.63	43.6	51.7	53.2	54.9	40.9	47.9	79	31	38	38	38	81	65	62	.235	.241	.241	9.56	2.97	T	6.9	6.9	7.0	7.3
March	-----	29.55	28.61	49.7	64.2	66.6	68.5	46.5	57.5	84	33	32	29	29	52	31	28	.185	.168	.167	1.34	1.20	0.3	3.8	6.7	6.0	6.2
April	-----	29.69	28.79	53.0	67.2	69.9	71.8	51.2	61.5	86	30	43	42	42	70	44	41	.287	.282	.276	4.76	2.18	.0	4.7	5.8	6.0	6.0
May	-----	29.61	28.82	58.5	74.4	77.7	79.5	56.4	68.0	99	44	43	40	39	59	34	30	.282	.256	.249	.72	.47	.0	3.4	4.3	4.9	4.3
June	-----	29.36	28.85	63.8	79.4	83.1	85.0	62.5	73.8	104	51	47	45	42	58	35	29	.324	.308	.283	1.69	1.26	.0	4.2	4.5	4.8	4.6
July	-----	29.23	28.87	71.4	90.4	94.9	96.1	70.1	83.1	110	58	50	47	43	48	24	19	.360	.323	.282	.42	.42	.0	.8	1.6	1.1	1.1
August	-----	29.24	28.91	71.2	91.5	95.5	96.8	69.6	83.2	107	52	44	42	36	39	19	13	.292	.272	.217	T	T	.0	1.1	1.6	1.3	1.3
September	-----	29.34	28.80	67.6	86.2	89.0	90.7	65.7	78.2	102	50	36	34	32	34	18	16	.221	.213	.190	.04	.03	.0	.5	1.5	1.3	1.5
October	-----	29.40	28.91	61.1	78.6	80.4	82.5	58.8	70.6	99	42	34	34	34	40	24	23	.208	.203	.203	.09	.09	.0	1.3	2.9	2.3	2.6
November	-----	29.69	29.16	50.7	70.1	70.9	74.5	47.7	61.1	92	38	26	24	23	39	18	17	.142	.130	.126	T	T	.0	2.1	1.6	2.3	2.0
December	-----	29.68	28.74	41.6	51.7	51.9	55.5	38.4	47.0	70	30	29	29	29	65	48	49	.164	.166	.167	5.61	2.53	16.6	5.3	5.9	7.9	6.2
Year	-----	29.69	28.61	56.4	71.5	73.9	76.0	54.1	65.1	110	30	38	37	35	55	35	32	.243	.231	.219	36.73	2.97	16.9	3.4	4.2	4.3	4.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

RALEIGH, N. C.

[H=345 ft.; H_b=376 ft.; h_i=103 ft.; h_r=94 ft.; h_a=140 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																										
January	9.0	NW.	36	SW.	2	6	8	6	4	6	10	8	14	0	13	5	13	12	11	4	4	0	10	7	5	0	15	0	0
February	9.2	SW.	31	NW.	0	11	9	5	1	5	11	8	8	0	9	10	10	12	11	5	4	0	6	4	0	0	16	0	0
March	9.5	SW.	38	NW.	3	3	8	2	7	9	17	10	6	0	7	13	11	16	12	2	1	0	6	3	0	0	1	3	0
April	9.8	SW.	28	NW.	0	9	7	8	4	8	12	5	7	0	12	11	7	11	8	0	0	0	3	0	0	0	1	1	0
May	8.4	SW.	23	N.	0	10	7	11	7	6	12	5	4	0	20	10	1	4	4	0	0	0	2	2	0	5	0	4	0
June	8.5	SW.	34	W.	2	5	12	5	3	12	14	5	4	0	15	6	9	10	9	0	0	0	0	0	0	8	0	7	0
July	7.4	SW.	41	NW.	4	3	7	3	3	4	21	13	8	0	8	17	6	16	15	0	0	0	4	0	0	18	0	13	0
August	7.1	SW.	23	NW.	0	3	10	7	3	15	15	5	3	1	7	18	6	10	8	0	0	0	2	1	0	15	0	5	0
September	7.9	SW.	31	NW.	0	6	16	8	0	8	16	3	3	0	14	9	7	9	6	0	0	0	5	2	0	4	0	5	0
October	8.3	NE.	27	NW.	0	6	13	13	4	4	4	10	7	1	18	7	6	10	7	0	0	0	5	1	0	0	0	2	0
November	9.5	W.	27	NW.	0	5	13	1	0	8	6	16	11	0	17	5	8	7	6	1	0	0	5	1	0	0	5	0	0
December	9.0	NE.	24	W.	0	15	19	5	2	3	1	11	5	1	6	7	18	14	13	1	0	0	13	8	1	0	8	0	0
Year	8.6	SW.	41	NW.	11	82	129	74	38	88	139	99	80	3	146	118	102	131	110	13	9	0	61	29	6	50	46	40	0

RAPID CITY, S. DAK.

[H=3,231 ft.; H_b=3,259 ft.; h_i=50 ft.; h_r=43 ft.; h_a=58 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.6	SE.	28	N.	0	14	5	5	12	0	0	11	12	3	8	10	13	10	5	18	10	0	12	3	18	0	31	0	0
February	6.5	SE.	27	N.	0	11	6	4	11	5	1	8	7	5	5	15	9	10	4	16	10	0	1	3	22	0	29	0	0
March	9.8	NW.	32	N.	1	12	7	2	4	4	2	11	18	2	5	19	7	5	4	13	5	0	0	0	5	0	27	0	0
April	8.2	N.	31	NW.	0	17	2	5	11	8	0	10	5	2	8	10	12	11	9	6	5	1	3	3	5	0	11	1	0
May	9.3	S.	27	NW.	0	12	4	4	6	15	0	10	8	3	14	13	4	2	2	0	0	0	1	0	0	1	0	4	0
June	8.5	S.	30	W.	0	15	5	4	10	9	6	7	4	0	14	11	5	10	8	0	0	1	1	0	0	10	0	8	0
July	8.1	W.	30	N.	0	9	5	2	6	10	6	17	5	2	17	13	1	6	4	0	0	1	0	0	0	23	0	11	0
August	7.6	W.	25	N.	0	11	8	7	5	5	2	17	6	1	16	9	6	7	6	0	0	1	0	0	0	16	0	7	0
September	9.2	W.	25	N.	0	12	9	2	5	7	3	15	5	2	21	6	3	5	3	0	0	0	0	0	0	3	0	4	0
October	8.1	W.	27	NW.	0	17	3	3	4	5	1	15	13	1	14	11	6	6	6	5	5	0	1	0	3	0	10	0	0
November	8.3	NW.	38	NW.	3	8	3	2	5	2	1	16	21	2	14	11	5	4	4	6	4	0	2	0	5	0	20	0	1
December	6.5	N.	28	NW.	0	13	6	2	8	6	4	9	14	0	9	11	11	2	1	11	2	0	9	6	12	0	31	0	0
Year	8.1	N.	38	NW.	4	151	63	42	87	76	26	146	118	23	145	139	82	78	56	75	41	4	30	15	70	53	159	35	1

READING, PA.

[H=273 ft.; H_b=323 ft.; h_i=283 ft.; h_r=275 ft.; h_a=306 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	12.7	NW.	42	NW.	9	6	5	1	9	6	3	7	25	0	7	9	15	15	12	13	8	0	0	6	11	0	27	0	0
February	10.9	NW.	41	E.	5	6	4	4	9	5	2	5	23	0	7	10	12	10	8	7	4	0	4	0	15	0	27	0	0
March	12.1	SE.	45	NW.	6	2	7	4	18	10	3	7	11	0	5	10	16	17	10	5	4	0	5	2	0	0	10	1	0
April	13.5	NW.	49	SW.	8	2	6	0	12	6	9	3	22	0	5	15	10	17	11	4	0	0	1	1	0	0	4	2	0
May	10.8	NW.	41	W.	6	9	5	0	3	15	11	7	12	0	13	16	2	7	5	0	0	2	1	3	0	2	0	6	0
June	10.4	SE.	36	NW.	1	8	13	1	9	8	8	2	11	0	9	7	14	10	8	0	0	1	2	1	0	1	0	7	0
July	8.6	NW.	40	NW.	3	8	6	2	5	7	15	2	17	0	13	11	7	11	7	0	0	0	0	1	0	6	0	11	0
August	9.1	SW.	43	N.	5	8	3	3	9	14	11	5	9	0	8	15	8	11	10	0	0	0	6	2	0	7	0	14	0
September	10.1	SE.	43	NE.	3	8	9	1	14	9	12	2	5	0	11	8	11	9	6	0	0	0	6	4	0	0	0	2	0
October	10.8	S.	41	SE.	4	4	8	2	12	15	6	2	13	0	11	8	12	10	7	0	0	0	6	6	0	0	2	0	0
November	12.6	NW.	40	NW.	5	11	5	3	6	5	8	5	17	0	6	13	11	8	6	7	3	0	2	4	2	0	13	0	0
December	11.7	N.	46	SE.	4	12	10	7	8	1	6	3	15	0	9	6	16	13	10	6	2	0	2	8	1	0	16	0	0
Year	11.1	NW.	49	SW.	59	84	81	28	114	101	94	50	180	0	104	128	134	138	100	42	21	3	35	38	29	16	99	43	0

REDDING, CALIF.

[H=718 ft.; H_b=722 ft.; h_i=20 ft.; h_r=3 ft.; h_a=34 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.6	NW.	36	S.	1	5	1	1	5	6	9	7	27	1	7	5	19	14	13	1	0	0	7	2	0	0	0	0	0
February	8.5	NW.	38	S.	2	8	0	1	12	13	7	1	16	0	7	3	19	17	16	1	0	2	8	1	0	0	2	0	0
March	9.2	NW.	31	NE.	0	5	6	2	6	4	6	4	29	0	10	6	15	4	2	2	2	0	0	0	0	0	0	0	0
April	7.6	NW.	26	SE.	0	3	1	1	19	7	6	1	22	0	8	8	14	9	9	0	0	2	1	0	0	0	1	3	0
May	9.0	NW.	27	NW.	0	5	3	5	7	10	3	4	24	1	16	6	9	7	5	0	0	0	0	0	0	9	0	2	0
June	8.1	NW.	31	W.	0	4	0	6	17	4	5	2	22	0	15	4	11	5	4	0	0	0	1	0	0	12	0	1	0
July	8.0	NW.	20	NW.	0	6	1	2	20	5	0	4	24	0	27	2	2	2	2	0	0	0	0	0	0	26	0	0	0
August	8.1	NW.	18	W.	0	4	0	2	25	5	0	0	26	0	26	3	2	0	0	0	0	0	0	0	0	28	0	1	0
September	9.5	NW.	27	NW.	0	8	2	1	15	2	2	1	29	0	23	5	2	2	0	0	0	0	0	0	0	17	0	2	0
October	8.5	NW.	26	N.	0	10	6	2	9	5	2	2	26	0	21	5	5	1	1	0	0	0	0	0	0	6	0	0	0
November	7.6	NW.	24	N.	0	9	1	2	6	9	2	1	29	1	21	7	2	0	0	0	0	0	0	0	0	1	0	0	0
December	6.8	NW.	23	N.	0	14	0	1	9	6	2	3	27	0	10	5	16	9	7	2	2	0	6	2	0	0	3	0	0
Year	8.3	NW.	38	S.	3	81	21	26	150	76	44	30	301	3	191	59	116	70	59	6	4	4	23	5	0	99	6	9	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

RENO, NEV.

[ϕ=39°32′ N.; λ=119°49′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	25.49	25.77	25.19	31.7	41.9	43.6	47.5	28.4	38.0	56	16	22	27	28	66	55	54	0.123	0.147	0.154	0.62	0.42	T	4.7	5.8	6.4	5.7
February	25.36	25.85	25.00	30.3	40.7	41.3	44.8	27.2	36.0	60	13	25	28	28	80	60	59	.138	.154	.151	3.01	.90	11.2	5.6	6.3	6.4	6.1
March	25.45	25.82	24.77	34.8	53.0	54.4	58.1	31.5	44.8	71	18	25	26	26	67	35	35	.131	.136	.138	.04	.02	.4	2.4	4.0	4.7	3.7
April	25.49	25.87	25.05	40.1	62.2	62.8	66.9	38.4	52.6	83	23	30	28	29	66	29	29	.167	.152	.159	.04	.04	T	2.2	3.5	4.5	3.4
May	25.46	25.70	25.18	45.0	66.9	68.1	71.9	43.4	57.6	87	33	32	29	30	60	26	25	.182	.160	.165	T	T	.0	2.1	2.9	3.9	2.6
June	25.44	25.55	25.25	51.4	75.0	74.6	78.9	50.4	64.6	96	39	38	37	38	62	28	30	.235	.220	.230	.77	.40	.0	3.3	3.6	4.5	3.6
July	25.45	25.58	25.20	59.8	85.8	86.2	90.2	58.4	74.3	102	47	41	38	40	52	21	22	.263	.236	.252	.10	.09	.0	2.6	2.6	3.1	2.6
August	25.49	25.61	25.33	56.6	83.7	84.2	88.3	54.6	71.4	95	44	38	36	37	52	19	20	.242	.220	.231	.48	.27	.0	2.1	2.2	2.8	2.3
September	25.48	25.69	25.16	46.7	73.5	74.8	78.4	44.7	61.6	89	35	33	31	31	59	23	22	.187	.177	.175	.12	.07	.0	.6	1.2	1.5	1.1
October	25.53	25.70	25.23	41.1	64.4	65.9	69.1	38.7	53.9	84	28	30	30	30	65	29	27	.167	.171	.165	.20	.18	.0	1.4	3.3	3.1	2.7
November	25.68	25.95	25.30	27.9	51.4	52.9	58.5	25.1	41.8	69	19	20	24	22	69	34	29	.104	.131	.115	.03	.02	.2	1.0	1.5	1.0	1.3
December	25.47	25.81	24.95	27.1	39.0	39.5	44.1	22.5	33.3	59	9	21	25	24	76	58	55	.111	.134	.129	1.49	.46	14.3	4.6	5.0	5.6	5.1
Year	25.48	25.95	24.77	41.0	61.5	62.4	66.4	38.6	52.5	102	9	30	30	30	64	35	34	.171	.170	.172	6.90	.90	26.1	2.7	3.5	4.0	3.4

RICHMOND, VA.

[ϕ=37°32′ N.; λ=77°27′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.91	30.41	28.92	27.5	35.3	34.3	40.5	25.4	33.0	59	6	24	24	26	84	66	72	0.139	0.148	0.151	7.76	2.24	3.0	6.1	6.2	4.2	6.1
February	29.96	30.48	29.26	28.2	37.0	37.1	43.6	25.5	34.6	76	6	24	26	25	85	65	63	.141	.154	.149	3.92	1.16	13.3	7.4	5.9	4.3	6.4
March	29.75	30.23	28.95	45.5	58.3	54.1	63.2	41.7	52.4	82	27	39	40	40	80	54	64	.255	.266	.270	3.83	1.44	.0	5.5	5.7	5.5	6.5
April	29.92	30.39	29.28	48.6	58.9	56.3	64.5	43.4	54.0	87	30	38	38	41	70	49	58	.250	.248	.274	2.68	.85	T	4.2	5.1	5.5	5.7
May	29.93	30.44	29.52	62.9	76.0	70.4	81.4	55.9	68.6	93	43	52	50	52	69	42	53	.403	.386	.398	.45	.39	.0	3.4	2.1	2.8	2.9
June	29.79	30.06	29.44	70.0	80.2	75.1	84.9	63.6	74.2	104	53	61	60	61	74	53	64	.547	.535	.549	3.88	2.40	.0	5.0	4.1	5.0	5.1
July	29.78	30.18	29.54	74.2	86.0	79.3	90.2	69.6	79.9	105	62	68	66	68	81	53	69	.683	.647	.686	3.18	1.10	.0	6.3	6.2	5.3	6.2
August	29.89	30.22	29.63	73.5	84.9	79.0	88.8	69.2	79.0	97	59	68	66	68	84	55	70	.695	.663	.695	2.90	1.57	.0	5.6	4.0	5.1	5.3
September	29.94	30.22	29.57	66.9	80.0	73.1	84.7	62.6	73.6	95	47	62	60	63	84	53	71	.560	.529	.578	1.43	.74	.0	3.3	4.0	4.1	4.5
October	29.97	30.34	29.28	55.0	69.0	61.3	72.1	51.4	61.8	84	29	51	52	52	87	56	72	.401	.414	.417	1.68	.87	.0	3.5	4.8	3.6	4.5
November	29.97	30.50	29.40	41.2	53.7	48.4	57.6	37.7	47.6	81	20	34	34	34	75	49	58	.215	.220	.223	.92	.46	.0	5.2	4.9	3.6	4.9
December	30.11	30.60	29.53	35.9	44.6	42.7	49.4	33.5	41.4	70	18	32	34	34	86	67	74	.191	.207	.210	4.34	1.05	T	6.4	6.0	6.3	6.5
Year	29.91	30.60	28.92	52.4	63.7	59.3	68.4	48.3	58.3	105	6	46	46	47	80	55	66	.373	.368	.383	36.97	2.40	16.3	5.2	4.9	4.6	5.4

ROCHESTER, N. Y.

[ϕ=43°08′ N.; λ=77°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.39	29.97	28.65	21.9	24.8	23.5	28.0	18.6	23.3	43	−2	16	18	16	76	74	73	0.097	0.103	0.097	2.88	0.86	28.0	9.7	8.8	9.1	9.0
February	29.48	29.95	28.57	17.3	21.6	18.9	25.7	12.0	18.8	50	−2	10	12	11	71	63	70	.076	.085	.079	1.57	.43	11.9	7.4	6.9	7.1	6.8
March	29.31	29.82	28.71	34.4	40.6	37.6	44.3	30.3	37.3	68	12	29	32	31	78	71	77	.166	.193	.185	6.55	1.16	19.2	7.1	7.6	6.5	7.3
April	29.43	29.91	28.76	39.4	44.5	42.5	49.1	34.7	41.9	77	23	32	36	35	75	73	76	.193	.226	.217	1.83	.25	2.3	8.1	8.7	7.3	8.2
May	29.47	30.03	28.96	58.3	66.5	61.3	71.3	49.2	60.2	88	33	46	49	47	64	55	61	.335	.374	.343	1.87	.81	.0	4.9	4.4	5.3	4.4
June	29.36	29.71	28.90	64.9	73.1	69.6	77.7	56.9	67.3	91	48	51	50	52	61	47	55	.387	.388	.402	2.30	1.92	.0	4.7	4.9	5.1	4.3
July	29.36	29.78	29.11	71.2	79.7	75.9	82.9	62.5	72.7	102	48	55	52	53	58	40	46	.445	.396	.411	1.24	1.02	.0	3.7	4.3	3.0	3.7
August	29.45	29.80	29.12	67.1	75.9	71.7	79.9	61.3	70.6	94	51	54	54	55	64	49	58	.431	.430	.445	1.25	.51	.0	4.9	5.5	5.1	5.3
September	29.52	29.82	29.07	61.5	70.1	65.5	74.1	55.5	64.8	91	39	52	52	52	72	55	63	.417	.413	.408	3.16	1.51	.0	5.1	5.3	3.9	5.1
October	29.49	29.95	28.71	47.8	55.3	52.7	60.8	44.1	52.4	79	26	40	41	41	76	60	65	.273	.279	.276	2.31	.66	T	7.4	7.0	7.9	7.5
November	29.46	30.07	28.83	33.2	37.4	35.5	41.9	28.0	35.0	74	9	26	27	27	74	66	71	.154	.162	.157	2.19	1.01	9.2	8.5	7.8	7.8	8.1
December	29.62	30.10	28.69	31.8	35.8	34.8	40.7	27.8	34.2	62	11	24	26	26	73	68	69	.137	.147	.145	2.93	1.43	12.2	8.2	8.1	6.7	7.5
Year	29.44	30.10	28.57	45.7	52.1	49.1	56.4	40.1	48.2	102	−2	36	37	37	70	60	65	.259	.266	.264	30.08	1.92	82.8	6.6	6.6	6.2	6.4

ROSEBURG, OREG.

[ϕ=43°13′ N.; λ=123°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.48	29.83	28.90	40.2	46.1	48.8	51.1	37.7	44.4	61	26	38	40	40	94	79	74	0.236	0.244	0.254	9.17	2.32	0.0	7.9	7.8	7.6	8.6
February	29.39	29.90	28.75	37.8	44.7	47.9	49.9	35.8	42.8	69	25	36	37	38	92	77	72	.212	.228	.237	4.97	1.62	T	8.3	9.1	8.5	9.1
March	29.59	29.93	29.02	39.9	50.2	55.2	57.0	37.0	47.0	72	29	37	38	38	90	63	54	.226	.231	.234	1.70	.69	1.0	6.9	7.7	6.8	7.7
April	29.52	30.08	29.00	45.2	63.0	65.6	69.2	43.6	56.4	84	25	43	45	44	92	52	47	.284	.303	.284	2.25	.77	.0	6.2	6.5	5.7	6.4
May	29.47	30.01	28.98	49.1	68.6	69.6	73.5	48.1	60.8	90	38	47	48	46	92	50	46	.322	.346	.320	2.78	.80	.0	6.0	5.2	5.7	5.7
June	29.43	29.72	29.08	53.9	70.9	73.5	76.4	53.0	64.7	87	45	51	51	52	90	51	49	.374	.382	.397	2.02	.97	.0	6.9	6.4	6.1	6.4
July	29.46	29.64	29.17	55.1	74.5	80.1	81.3	54.0	67.6	92	49	51	51	50	86	45	37	.375	.377	.365	.51	.41	.0	4.2	3.1	2.6	3.7
August	29.46	29.65	29.19	55.2	76.8	83.2	84.7	53.3	69.0	97	46	50	52	49	84	42	32	.367	.384	.356	.00	.00	.0	1.9	1.9	1.2	1.7
September	29.46	29.81	29.21	50.6	69.9	76.2	77.6	47.9	62.8	94	39	46	48	45	86	48	36	.321	.343	.308	.92	.45	.0	2.7	2.5	1.5	3.3
October	29.54	29.79	29.21	43.9	63.9	70.2	72.4	41.4	56.9	92	30	41	45	45	91	52	42	.265	.301	.302	.05	.03	.0	1.9	2.5	2.6	3.9
November	29.72	30.01	29.48	34.8	45.6	50.0	52.1	31.9	42.0	69	24	34	37	38	96	73	66	.197	.220	.228	.25	.18	.0	2.5	6.1	3.6	6.4
December	29.53	29.96	28.84	39.9	46.2	47.2	49.8	36.1	43.0	63	28	38	39	39	93	77	75	.233	.242	.244	3.16	.83	T	8.1	8.1	7.9	8.9
Year	29.50	30.08	28.75	45.5	60.0	64.0	66.2	43.3	54.8	97	24	43	44	44	90	59	52	.284	.300	.294	27.84	2.32	1.0	5.3	5.6	5.0	6.0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

RENO, NEV.

[H=4,493 ft.; H_b=4,527 ft.; h_t=61 ft.; h_r=53 ft.; h_a=76 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.0	W.	32	W.	1	5	3	11	5	9	8	18	3	0	8	11	12	6	3	3	1	0	0	0	0	0	24	0	0
February	6.2	W.	40	SW.	1	2	4	8	10	4	12	17	1	0	6	11	12	11	10	6	5	0	0	0	0	0	18	0	0
March	7.8	W.	32	W.	1	2	1	8	2	1	8	28	12	0	16	10	5	2	0	4	1	0	0	0	0	0	7	0	0
April	7.7	W.	27	W.	0	2	3	5	1	2	6	38	3	0	16	10	4	1	1	2	0	0	0	0	0	0	6	0	0
May	8.0	W.	30	W.	0	3	6	9	1	2	9	29	3	0	20	10	1	0	0	0	0	0	0	0	0	0	0	0	0
June	7.3	W.	27	W.	0	2	2	2	3	2	20	25	4	0	17	4	9	6	4	0	0	0	0	0	0	0	5	0	2
July	7.2	SW.	27	SW.	0	0	3	1	1	1	25	28	3	0	22	6	3	2	1	0	0	0	0	0	0	19	0	1	0
August	6.4	SW.	26	NE.	0	2	1	1	2	1	24	28	3	0	24	3	4	5	3	0	0	0	0	0	0	11	0	5	0
September	5.7	SW.	22	SW.	0	1	8	10	3	1	25	10	2	0	27	1	2	3	3	0	0	0	0	0	0	0	0	1	0
October	5.4	W.	23	NE.	0	4	13	9	4	2	13	13	4	0	21	7	3	3	2	0	0	0	0	0	0	0	7	0	0
November	4.5	SW.	18	NE.	0	1	10	5	5	4	22	11	2	0	24	5	1	2	0	1	1	0	0	0	0	0	28	0	0
December	4.5	SW.	24	S.	0	6	3	3	6	13	18	10	3	0	13	6	12	7	6	9	7	0	3	1	3	0	29	0	0
Year	6.5	W.	40	SW.	3	30	57	72	43	42	190	255	43	0	214	84	68	48	33	25	15	0	3	1	3	35	129	9	0

RICHMOND, VA.

[H=162 ft.; H_b=144 ft.; h_t=11 ft.; h_r=3 ft.; h_a=52 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.1	N.	38	NW.	2	11	6	11	9	7	6	8	4	0	9	8	14	12	9	6	2	0	8	4	8	0	19	1	0
February	8.0	NE.	24	N.	0	6	13	3	12	8	8	4	4	0	6	12	11	10	8	4	4	0	9	2	6	0	22	0	0
March	9.7	SW.	34	NW.	2	0	6	6	11	5	16	10	8	0	8	8	15	12	10	0	0	0	7	4	0	0	3	1	0
April	9.1	SW.	31	SW.	0	2	7	3	9	2	19	4	12	2	9	10	11	10	8	1	0	1	5	0	0	0	1	3	0
May	7.7	SW.	32	NW.	1	2	16	4	11	4	17	5	3	0	21	7	3	3	3	0	0	0	2	1	0	5	0	4	0
June	8.0	SW.	23	NE.	0	2	11	7	12	5	16	4	3	0	10	10	10	12	11	0	0	0	2	1	0	8	0	10	0
July	6.9	SW.	34	NW.	1	2	9	7	8	5	15	13	3	0	6	14	11	12	7	0	0	0	6	4	0	18	0	15	0
August	7.0	SW.	30	NW.	0	1	8	3	10	2	23	12	3	0	10	12	9	9	7	0	0	0	3	2	0	16	0	7	0
September	7.6	SW.	32	N.	1	1	14	6	12	6	14	5	2	0	14	9	7	8	5	0	0	0	5	2	0	8	0	3	0
October	7.5	SW.	24	NW.	0	0	13	5	10	4	16	7	6	1	16	6	9	5	3	0	0	0	8	4	0	0	1	0	0
November	9.0	SW.	27	NW.	0	3	13	6	3	6	18	4	7	0	11	10	9	7	5	0	0	0	3	1	0	0	9	0	0
December	8.1	NE.	28	NW.	0	2	29	6	2	5	11	2	4	1	9	5	17	16	9	2	1	0	11	5	1	0	15	0	0
Year	8.1	SW.	38	NW.	7	32	145	67	109	59	179	78	59	4	129	111	126	116	85	13	7	1	69	30	15	55	70	44	0

ROCHESTER, N. Y.

[H=498 ft.; H_b=523 ft.; h_t=86 ft.; h_r=77 ft.; h_a=102 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.6	W.	34	W.	2	3	2	4	2	9	18	21	3	0	0	4	27	22	15	23	19	0	1	0	15	0	28	0	0
February	11.5	SW.	41	SW.	3	1	3	3	5	4	26	13	3	0	4	11	14	18	9	23	17	0	2	0	21	0	27	0	0
March	9.2	W.	37	SW.	1	3	9	1	6	9	13	14	7	0	5	7	19	18	13	14	11	0	8	1	2	0	17	1	0
April	9.6	W.	35	W.	2	0	3	2	6	6	11	22	10	0	3	6	21	20	16	9	4	0	6	1	0	0	12	0	1
May	9.5	SW.	30	W.	0	3	5	1	3	2	22	11	15	0	14	10	7	14	8	0	0	1	1	1	0	0	0	5	0
June	7.6	SW.	27	SW.	0	5	9	5	4	5	15	7	10	0	14	10	6	7	5	0	0	0	1	0	0	2	0	3	2
July	7.4	W.	22	W.	0	6	15	2	0	3	13	11	12	0	16	12	3	3	3	0	0	0	0	0	0	6	0	5	1
August	7.6	NE.	25	SW.	0	3	16	7	2	2	20	5	7	0	12	8	11	10	7	0	0	0	1	0	0	3	0	6	0
September	7.5	SW.	22	SW.	0	5	9	3	6	3	16	7	11	0	12	9	9	11	7	0	0	0	3	0	0	3	0	4	0
October	8.3	SW.	34	W.	1	3	0	3	4	7	24	11	10	0	5	6	20	14	8	4	1	0	3	0	0	0	4	3	0
November	9.5	SW.	32	SW.	1	2	0	0	1	9	21	16	11	0	4	2	24	15	8	13	10	0	1	0	7	0	20	1	0
December	9.3	SW.	31	SW.	0	0	3	5	5	11	16	16	6	0	5	8	18	13	10	12	7	0	3	0	5	0	21	0	0
Year	9.0	SW.	41	SW.	10	34	74	36	44	70	215	154	105	0	94	93	179	165	109	98	69	1	30	3	50	14	129	28	4

ROSEBURG, OREG.

[H=479 ft.; H_b=510 ft.; h_t=45 ft.; h_r=41 ft.; h_a=76 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	4.3	SW.	27	W.	0	10	4	6	5	11	11	5	7	3	1	7	23	20	18	0	0	0	18	7	0	0	6	0	0
February	4.4	N.	21	SW.	0	17	1	3	3	6	14	3	10	1	0	6	23	21	16	3	2	0	18	8	0	0	9	0	0
March	4.7	N.	19	SW.	0	20	3	2	5	1	13	4	12	2	2	7	22	14	8	5	4	0	12	5	0	0	4	0	0
April	4.2	N.	17	W.	0	25	6	4	1	1	4	1	10	8	6	10	14	10	8	0	0	1	8	0	0	0	2	1	0
May	5.0	N.	24	SW.	0	18	10	3	4	2	12	8	2	3	8	8	15	14	9	0	0	0	6	1	0	1	0	2	0
June	4.8	N.	17	NW.	0	24	9	4	6	2	7	1	5	2	6	10	14	9	7	0	0	0	7	0	0	0	0	3	0
July	5.2	N.	16	NE.	0	28	10	1	2	0	4	2	6	9	17	7	7	5	2	0	0	0	0	0	0	3	0	0	0
August	4.9	N.	17	N.	0	24	14	3	0	2	0	1	7	11	22	8	1	0	0	0	0	0	1	0	0	6	0	0	0
September	4.4	N.	17	N.	0	15	15	3	1	2	1	2	12	9	17	6	7	5	5	0	0	0	6	2	0	4	0	1	0
October	3.4	N.	19	N.	0	18	8	3	1	4	1	8	10	9	12	10	9	2	0	0	0	0	14	9	0	1	1	0	0
November	2.9	N.	11	NW.	0	15	5	5	3	4	10	3	13	2	4	11	15	3	2	0	0	0	26	18	0	0	15	0	0
December	3.6	SW.	17	SW.	0	9	3	11	4	14	8	5	8	0	0	5	26	17	12	2	0	0	25	6	0	0	8	0	0
Year	4.3	N.	27	W.	0	223	88	48	35	49	85	43	102	59	95	95	176	120	87	10	6	1	141	56	0	15	45	7	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ROSWELL, N. MEX.

[ϕ=33°24′ N.; λ=104°27′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	26.36	26.73	25.89	29.7	44.0	45.7	52.5	25.6	39.0	72	10	22	23	23	73	50	47	0.115	0.120	0.124	0.98	0.63	9.7	4.5	5.1	2.8	4.4
February	26.26	26.59	25.85	33.6	51.4	55.3	60.5	29.1	44.8	77	13	20	19	17	58	30	25	.111	.107	.097	.04	.03	.1	3.3	3.5	2.3	3.1
March	26.26	26.69	25.79	40.8	63.1	65.4	69.4	38.4	53.9	78	26	21	20	18	46	21	18	.114	.113	.104	.09	.09	.0	1.5	2.5	3.0	2.8
April	26.35	26.70	25.99	47.8	69.6	72.8	76.2	44.5	60.4	90	26	26	25	24	44	21	18	.146	.145	.141	.04	.04	.0	2.6	3.5	4.0	3.4
May	26.34	26.59	25.93	58.1	75.3	77.7	81.3	55.7	68.5	93	41	48	50	47	72	45	38	.353	.370	.336	2.21	1.24	.0	5.8	4.1	5.2	5.2
June	26.33	26.58	25.98	65.5	86.6	91.1	93.1	63.2	78.2	102	54	52	50	44	64	30	22	.404	.370	.298	.94	.83	.0	2.6	1.5	1.6	1.9
July	26.39	26.62	26.20	67.4	86.4	87.4	91.6	65.5	78.6	103	57	58	56	53	72	37	34	.479	.453	.412	1.42	.72	.0	2.8	2.9	4.3	3.5
August	26.40	26.59	26.18	66.9	86.7	87.6	91.2	65.4	78.3	101	60	53	53	51	63	34	31	.407	.413	.378	.22	.14	.0	3.1	2.2	3.5	2.9
September	26.37	26.64	26.05	60.7	75.2	75.9	80.8	58.8	69.8	94	33	57	55	53	87	54	50	.473	.451	.420	5.15	2.26	.0	4.7	3.7	4.4	4.4
October	26.44	26.77	26.13	47.4	64.5	65.0	70.9	44.9	57.9	87	33	41	42	41	80	48	46	.260	.267	.260	.29	.15	.1	4.6	4.5	4.4	4.4
November	26.55	26.88	26.06	34.4	53.9	53.9	60.2	31.3	45.8	77	20	25	25	26	69	34	35	.136	.138	.140	.28	.22	T	3.5	3.0	3.3	3.2
December	26.40	26.68	25.90	31.8	49.6	49.6	57.0	28.3	42.6	69	18	25	26	27	75	43	44	.135	.147	.148	.16	.10	.7	2.4	2.9	3.5	2.8
Year	26.37	25.88	25.79	48.7	67.2	69.0	73.7	45.9	59.8	103	10	37	37	35	67	37	34	.261	.258	.238	11.82	2.26	10.6	3.4	3.3	3.5	3.5

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	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.02	30.32	29.73	44.8	53.2	56.0	57.2	42.8	50.0	66	35	41	43	44	88	70	66	0.263	0.283	0.296	3.80	1.00	0.0	4.8	5.5	6.2	6.0
February	29.92	30.40	29.49	45.5	53.4	56.2	57.6	43.4	50.5	68	33	42	44	44	88	71	65	.275	.290	.292	8.59	2.65	.0	5.2	5.8	5.9	5.7
March	29.92	30.23	29.33	47.4	61.2	66.3	67.4	45.2	56.3	76	34	41	43	42	80	53	44	.267	.291	.281	1.33	.93	T	3.2	3.3	2.3	3.5
April	29.96	30.34	29.55	50.1	66.4	70.6	71.7	48.8	60.2	85	36	45	46	46	84	49	44	.304	.318	.326	1.69	1.56	.0	2.5	3.2	3.7	3.2
May	29.86	30.18	29.57	55.1	73.5	77.7	79.3	54.0	66.6	98	45	46	44	42	74	38	31	.315	.301	.283	.68	.36	.0	2.6	2.4	2.9	2.6
June	29.80	30.03	29.54	58.6	79.6	84.5	86.6	58.2	72.4	105	50	51	49	47	76	37	30	.376	.352	.325	.27	.14	.0	2.0	2.9	2.8	2.8
July	29.75	29.92	29.58	62.8	86.7	93.0	94.7	61.9	78.3	109	55	51	51	47	67	31	23	.375	.383	.332	T	T	.0	.9	1.1	1.3	1.0
August	29.77	29.96	29.62	61.7	85.6	92.4	94.1	60.0	77.0	105	52	51	52	46	69	33	23	.370	.385	.322	.00	.00	.0	.8	.4	.7	.7
September	29.76	30.04	29.51	60.0	81.7	88.8	90.1	57.8	74.0	102	50	46	46	42	62	30	22	.318	.313	.282	T	T	.0	.5	.6	.7	.6
October	29.89	30.08	29.65	55.3	73.7	77.8	79.4	52.6	66.0	94	46	45	44	43	71	39	34	.306	.301	.290	.35	.31	.0	.9	2.4	1.7	1.8
November	30.08	30.46	29.86	44.1	62.5	67.2	68.8	41.1	55.0	76	31	37	36	36	78	40	33	.225	.222	.220	.03	.03	.0	.4	1.1	1.1	1.4
December	30.01	30.38	29.49	40.1	48.1	51.8	53.3	37.0	45.2	64	31	35	37	37	82	70	62	.207	.227	.227	2.62	1.00	.0	3.0	5.5	4.4	5.6
Year	29.90	30.46	29.33	52.1	68.8	73.5	75.0	50.2	62.6	109	31	44	45	43	77	47	40	.300	.306	.290	19.36	2.65	T	2.2	2.8	2.8	2.9

ST. JOSEPH, MO.

[ϕ=39°49′ N.; λ=94° 51′W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.02	29.64	28.46	12.9	19.3	18.7	25.2	8.5	16.8	51	−17	10	12	14	85	71	80	0.079	0.085	0.092	2.62	1.10	24.0	4.7	4.5	5.3	4.7
February	29.04	29.41	28.46	9.0	18.5	19.8	25.1	6.0	15.6	69	−11	5	8	12	84	64	72	.069	.078	.089	.44	.17	4.5	5.1	4.4	5.4	5.1
March	28.84	29.23	28.27	37.5	53.6	52.4	59.4	34.6	47.0	78	18	27	28	28	67	38	41	.152	.160	.160	.14	.14	.0	3.7	3.3	4.2	3.7
April	29.00	29.35	28.52	43.4	59.1	59.2	64.8	40.6	52.7	90	13	30	32	32	62	40	41	.192	.204	.210	2.91	1.10	2.2	4.5	3.1	3.7	3.6
May	28.97	29.30	28.53	61.6	74.6	73.4	79.4	59.0	69.2	89	43	54	55	56	78	53	58	.434	.447	.463	4.14	1.22	.0	4.2	3.9	4.0	4.1
June	28.88	29.20	28.21	66.8	83.1	83.7	88.5	63.4	76.0	105	51	55	56	57	67	41	42	.446	.458	.475	3.68	2.41	.0	2.4	1.9	2.0	2.3
July	28.90	29.33	28.62	76.4	94.5	95.9	99.8	74.3	87.0	108	63	60	58	57	57	31	28	.517	.494	.475	.95	.88	.0	1.1	1.0	1.4	1.2
August	28.90	29.19	28.65	74.7	92.4	90.8	98.2	72.9	85.6	110	59	61	60	59	64	36	38	.543	.52[illegible]	.516	1.02	.49	.0	3.8	2.8	3.3	3.5
September	28.93	29.34	28.47	64.7	77.5	75.1	81.8	62.8	72.3	102	48	59	60	59	84	58	61	.527	.542	.517	8.14	2.45	.0	5.1	5.2	5.3	5.4
October	29.01	29.53	28.59	48.7	61.5	57.8	65.5	45.7	55.6	84	26	42	44	45	77	54	64	.285	.312	.323	2.48	.81	.0	4.5	2.9	4.2	4.3
November	29.13	29.56	28.49	33.4	47.8	43.5	52.8	29.7	41.2	77	17	26	26	26	72	44	52	.145	.152	.145	.04	.02	T	2.1	2.7	1.8	2.4
December	29.06	29.36	28.26	32.0	38.6	37.7	44.3	28.2	36.2	63	3	28	28	30	82	67	74	.161	.168	.181	1.81	.83	3.8	4.7	5.2	5.0	5.5
Year	28.97	29.64	28.21	46.8	60.0	59.0	65.4	43.8	54.6	110	−17	38	39	40	73	50	54	.296	.302	.304	28.37	2.45	34.5	3.8	3.4	3.8	3.8

ST. LOUIS, MO.

[ϕ=38°38′ N.; λ=90°12′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.46	30.01	28.90	22.1	26.5	27.4	32.3	18.5	25.4	67	−10	17	17	19	81	68	70	0.111	0.110	0.120	1.32	0.35	7.0	6.9	6.7	5.7	6.7
February	29.48	29.84	28.75	20.3	26.5	27.4	33.0	15.8	24.4	74	−8	15	17	19	79	67	69	.107	.114	.122	1.97	1.15	2.1	6.1	5.1	5.0	5.4
March	29.28	29.69	28.87	42.0	52.5	53.5	59.1	39.3	49.2	74	24	32	34	34	68	49	50	.184	.202	.210	1.67	1.06	T	4.4	3.6	5.1	4.1
April	29.43	29.81	28.89	45.4	55.2	57.3	62.4	42.4	52.4	89	20	36	37	38	69	52	53	.226	.245	.262	2.80	.86	T	4.6	5.3	4.5	4.6
May	29.44	29.78	29.04	64.2	76.5	76.0	80.8	61.7	71.2	88	50	53	54	54	68	47	49	.419	.427	.439	.85	.35	.0	2.3	3.9	3.8	3.4
June	29.32	29.66	28.79	69.9	82.3	83.4	88.1	66.2	77.2	104	55	54	56	55	58	43	42	.428	.467	.455	3.07	.99	.0	2.6	2.6	2.8	2.7
July	29.33	29.74	29.11	78.8	92.9	92.4	97.9	77.0	87.4	109	64	64	61	60	62	36	36	.605	.548	.538	.60	.40	.0	3.3	1.8	2.2	2.1
August	29.36	29.63	29.17	77.0	90.5	90.9	95.9	75.2	85.6	106	66	63	61	61	62	39	39	.581	.560	.549	.85	.76	.0	2.9	2.4	3.3	2.9
September	29.38	29.74	28.96	68.2	77.8	76.4	82.6	65.8	74.2	98	51	61	60	61	79	58	61	.554	.541	.546	5.94	2.63	.0	5.2	5.6	5.5	5.7
October	29.46	29.87	29.01	52.5	62.4	61.3	67.1	50.4	58.8	83	32	46	46	47	80	57	61	.332	.329	.342	2.79	.81	T	4.8	4.3	4.0	4.6
November	29.56	29.97	29.02	36.8	46.5	45.7	52.7	34.2	43.4	72	19	29	30	31	73	53	57	.168	.175	.185	2.20	2.11	1.1	2.8	2.8	2.1	2.5
December	29.55	29.91	28.84	35.4	42.6	40.4	47.3	31.5	39.4	66	9	29	30	30	78	62	69	.174	.181	.177	2.08	.84	4.6	5.5	5.0	5.0	5.3
Year	29.42	30.01	28.75	51.0	61.0	61.0	66.6	48.2	57.4	109	−10	42	42	42	71	53	55	.324	.325	.329	26.14	2.63	14.8	4.3	4.1	4.1	4.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

ROSWELL, N. MEX.

[H=3,564; H_b=3,566 ft.; h_t=75 ft.; h_r=69 ft.; h_a=85 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	7.6	S.	34	NW.	1	10	6	5	6	10	6	8	8	3	16	10	5	4	3	4	3	0	4	2	1	0	27	0	0
February	9.1	S.	43	NW.	2	6	3	5	2	15	5	12	10	0	17	10	2	3	0	1	1	0	1	1	1	0	17	0	0
March	9.9	S.	35	SW.	3	6	7	3	1	16	6	12	9	2	18	10	3	2	2	0	0	0	0	0	0	0	6	2	0
April	9.2	S.	35	W.	2	1	5	6	3	13	10	8	7	7	15	12	3	2	0	0	0	0	0	0	0	0	2	5	4
May	8.8	S.	32	SW.	1	8	8	8	9	16	4	5	4	0	12	11	8	8	5	0	0	0	0	0	0	6	0	6	0
June	7.9	S.	24	SW.	0	7	0	7	7	20	6	5	5	3	20	9	1	5	3	0	0	0	0	0	0	21	0	7	0
July	8.0	SE.	34	NW.	1	7	3	8	15	9	1	8	7	4	14	14	3	6	3	0	0	1	0	0	0	22	0	10	0
August	8.2	S.	27	NE.	0	5	2	4	14	27	1	1	6	2	21	7	3	3	2	0	0	0	0	0	0	21	0	6	0
September	7.0	S.	23	NW.	0	4	11	9	10	12	3	3	4	4	12	11	7	9	8	0	0	0	3	0	0	6	0	8	0
October	7.4	S.	25	NE.	0	7	11	3	5	20	5	3	6	2	15	8	8	4	3	1	1	0	3	2	0	0	0	1	0
November	7.0	S.	29	NE.	0	14	10	1	3	17	4	5	5	1	16	8	6	4	1	2	0	0	1	0	0	0	18	0	0
December	7.0	S.	34	NW.	2	8	7	7	5	13	5	9	8	0	21	7	3	3	2	2	2	0	3	1	0	0	23	0	0
Year	8.1	S.	43	NW.	12	83	73	66	80	188	56	79	79	28	197	117	52	53	32	10	7	1	15	6	2	78	96	44	0

SACRAMENTO, CALIF.

[H=25 ft.; H_b=66 ft.; h_t=92 ft.; h_r=82 ft.; h_a=115 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.6	SE.	24	SE.	0	15	4	1	20	11	1	2	7	1	10	8	13	12	10	0	0	0	4	2	0	0	0	0	0
February	8.0	S.	22	S.	0	6	4	3	14	17	7	3	3	1	9	7	13	16	15	0	0	0	0	0	0	0	0	2	0
March	7.7	S.	35	NW.	2	13	4	3	11	10	7	3	10	1	17	10	4	3	2	1	0	1	3	1	0	0	0	0	0
April	7.3	SW.	24	SE.	0	9	0	2	10	14	14	1	7	3	14	14	2	4	2	0	0	0	0	0	0	0	0	0	0
May	8.3	SW.	27	NW.	0	6	2	2	12	10	16	0	13	1	19	9	3	3	2	0	0	0	0	0	0	6	0	0	0
June	7.0	SW.	19	SW.	0	2	0	0	12	19	17	2	7	1	20	6	4	3	2	0	0	0	0	0	0	15	0	1	0
July	7.8	S.	19	SW.	0	1	0	0	6	38	13	1	3	0	27	3	1	0	0	0	0	0	0	0	0	24	0	1	0
August	6.9	S.	20	S.	0	2	0	1	14	29	12	2	2	0	28	2	1	0	0	0	0	0	1	0	0	24	0	0	0
September	6.4	S.	27	NW.	0	10	0	3	7	16	8	3	13	0	28	2	0	0	0	0	0	0	0	0	0	14	0	0	0
October	6.0	S.	31	N.	0	12	3	3	11	17	1	5	8	2	24	5	2	2	2	0	0	0	0	0	0	3	0	0	0
November	5.0	N.	25	N.	0	18	2	4	7	8	4	2	9	6	27	2	1	1	0	0	0	0	5	5	0	0	1	0	0
December	5.9	SE.	33	SE.	1	13	5	6	13	7	4	6	4	4	10	8	13	9	6	0	0	0	11	10	0	0	5	0	0
Year	7.0	S.	35	NW.	3	107	24	28	137	196	104	30	86	20	233	76	57	53	41	1	0	1	24	18	0	86	6	4	0

ST. JOSEPH, MO.

[H=957 ft.; H_b=967 ft.; h_t=11 ft.; h_r=3 ft.; h_a=49 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.6	NW.	26	NW.	0	6	6	9	4	3	7	7	19	1	14	7	10	11	9	14	11	0	2	0	20	0	30	0	0
February	9.8	NW.	31	NW.	0	6	9	10	6	4	0	8	15	0	10	9	10	7	4	10	5	0	1	0	21	0	26	0	0
March	11.2	NW.	34	NW.	3	5	6	6	7	9	6	3	17	0	15	11	5	1	1	0	0	1	1	0	0	0	11	1	0
April	10.2	N.	32	NW.	1	13	5	5	8	12	0	3	14	0	18	5	7	8	7	4	2	1	2	0	2	0	6	5	0
May	8.1	S.	38	NW.	1	9	3	10	10	19	5	3	3	0	16	9	6	12	10	0	0	0	2	1	0	0	0	13	0
June	8.7	E.	24	SW.	0	8	11	12	7	9	6	2	5	0	24	4	2	5	4	0	0	0	0	0	0	14	0	5	0
July	7.6	S.	38	N.	2	1	9	9	5	18	12	6	2	0	28	3	0	3	2	0	0	0	0	0	0	29	0	2	0
August	7.6	S.	21	S.	0	3	6	8	12	15	7	2	8	1	17	9	5	9	7	0	0	0	4	0	0	25	0	6	0
September	7.8	S.	32	NW.	1	6	7	12	8	18	1	3	4	1	13	5	12	16	13	0	0	0	4	0	0	8	0	13	0
October	8.2	S.	27	N.	0	9	5	2	9	18	7	3	9	0	15	7	9	9	8	0	0	0	6	0	0	0	4	5	0
November	9.6	NW.	30	NW.	0	4	4	5	5	11	10	4	17	0	20	7	3	3	0	4	1	0	3	0	0	0	20	0	0
December	8.9	S.	27	NW.	0	6	7	5	13	16	5	2	8	0	11	7	13	7	4	7	4	1	6	0	2	0	24	1	0
Year	8.8	S.	38	N.	8	76	78	93	94	152	69	46	121	3	201	83	82	91	69	39	23	3	31	1	45	76	121	51	0

ST. LOUIS, MO.

[H=465 ft.; H_b=568 ft.; h_t=179 ft.; h_r=172 ft.; h_a=303 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	12.1	NW.	39	SW.	2	2	4	5	3	11	9	5	23	0	9	3	19	14	8	10	6	0	6	2	12	0	23	0	0
February	11.8	NW.	39	NW.	4	5	12	3	7	6	5	4	16	0	11	6	12	6	6	8	2	0	5	2	15	0	23	1	0
March	13.6	NW.	47	SW.	5	10	0	4	6	11	8	6	17	0	14	9	8	6	6	2	0	0	0	0	0	0	5	3	0
April	12.5	NW.	43	SW.	3	5	3	6	4	15	6	6	15	0	12	9	9	11	8	5	2	0	5	1	0	0	6	7	0
May	11.7	S.	43	SW	2	4	7	4	6	18	14	2	7	0	18	9	4	7	4	0	0	0	0	0	0	0	0	5	0
June	11.0	NE.	35	SW.	2	7	17	7	3	7	13	1	5	0	20	7	3	7	4	0	0	0	0	0	0	15	0	8	0
July	10.7	SW.	42	NE.	2	4	10	5	4	5	26	5	3	0	24	6	1	4	4	0	0	0	1	0	0	26	0	5	0
August	11.6	SW.	48	S.	1	4	2	9	2	14	20	5	6	0	19	9	3	5	3	0	0	0	3	0	0	22	0	6	0
September	11.1	SW.	33	SW.	1	7	5	5	4	19	12	3	5	0	12	6	12	11	9	0	0	0	6	0	0	9	0	3	0
October	11.9	SW.	40	SW.	2	12	3	1	2	16	14	4	10	0	15	6	10	9	8	1	0	0	7	2	0	0	1	4	0
November	12.5	NW.	44	SW.	2	2	4	3	2	9	12	6	22	0	23	2	5	2	2	1	1	0	1	0	1	0	13	1	0
December	12.2	S.	36	S.	2	5	6	6	3	17	11	4	10	0	13	5	13	7	6	3	2	0	5	1	1	0	17	0	0
Year	11.9	SW.	48	S.	28	67	73	58	46	148	150	51	139	0	190	77	99	89	68	30	13	0	39	8	29	72	88	43	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SALT LAKE CITY, UTAH [1]

[ϕ=40°46′ N.; λ=111°54′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	25.74	26.12	25.31	25.6	33.6	31.3	37.2	20.7	29.0	52	5	22	26	26	86	74	81	0.121	0.141	0.144	2.02	0.55	10.4	6.3	6.9	7.5	6.9
February	25.59	26.15	25.15	29.3	36.6	35.2	40.9	23.9	32.4	54	−7	24	28	28	81	71	75	.136	.155	.156	3.22	.93	20.9	8.8	8.6	8.3	8.6
March	25.68	26.09	25.01	33.1	47.1	47.2	51.8	29.0	40.4	68	21	26	28	27	75	50	48	.140	.154	.147	1.21	.78	10.1	5.0	6.1	5.8	5.9
April	25.72	26.11	25.27	43.1	62.1	62.3	66.4	40.1	53.2	84	14	33	33	32	68	38	36	.191	.190	.180	.85	.50	.2	5.0	5.0	5.5	5.2
May	25.68	25.92	25.28	50.0	72.9	73.2	77.5	46.2	61.8	89	34	35	32	31	59	25	24	.208	.186	.174	.35	.25	T	2.6	3.0	3.1	3.1
June	25.66	25.86	25.38	59.5	80.8	80.5	85.1	55.8	70.4	101	42	46	43	43	64	30	30	.312	.283	.285	1.81	.59	.0	4.8	4.1	5.0	4.6
July	25.72	25.88	25.55	66.9	87.5	85.9	92.5	63.9	78.2	104	53	53	50	51	63	31	35	.407	.376	.392	1.44	.51	.0	4.3	4.3	6.2	4.9
August	25.74	25.90	25.51	63.4	85.5	85.5	90.2	60.8	75.5	100	48	50	48	45	65	29	29	.378	.353	.326	.67	.20	.0	2.6	2.2	2.9	2.6
September	25.72	26.00	25.25	50.3	73.5	74.6	77.8	46.0	61.9	93	31	35	35	31	57	26	22	.212	.212	.181	.16	.08	.0	1.4	2.3	2.2	2.0
October	25.79	26.02	25.43	43.2	62.7	59.6	65.4	39.3	52.4	82	27	33	33	34	68	36	42	.189	.191	.199	1.69	.80	.0	3.2	4.2	4.3	3.7
November	25.98	26.34	25.40	27.2	44.6	37.6	48.3	24.1	36.2	57	6	24	29	31	87	54	75	.128	.159	.171	.99	.46	6.5	1.9	2.5	2.9	2.5
December	25.74	26.13	25.26	29.8	38.4	34.7	41.4	25.9	33.6	55	16	25	26	28	81	62	74	.133	.142	.149	1.88	.77	17.7	7.0	6.7	6.5	6.8
Year	25.73	26.34	25.01	43.4	60.4	59.0	64.5	39.6	52.1	104	−7	34	34	34	71	44	48	.213	.212	.209	16.29	.93	65.8	4.4	4.7	5.0	4.7

SAN ANTONIO, TEX.

[ϕ=29°27′ N.; λ=98°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.30	29.80	28.84	44.1	55.9	57.7	62.8	41.3	52.0	84	25	35	41	37	74	61	51	0.216	0.274	0.231	0.43	0.14	T	4.4	4.5	3.2	4.0
February	29.27	29.69	28.77	43.6	53.7	56.8	62.8	39.3	51.0	82	19	39	42	39	84	67	54	.265	.289	.266	.40	.15	0.0	6.3	7.1	5.7	6.6
March	29.18	29.58	28.80	58.0	70.4	72.7	76.3	56.3	66.3	90	45	49	50	48	75	52	46	.371	.377	.360	2.66	2.46	.0	4.9	5.1	6.4	5.6
April	29.28	29.64	28.77	58.0	73.2	74.6	80.0	56.1	68.0	93	38	50	52	49	77	48	45	.404	.409	.383	2.77	1.78	.0	5.6	4.6	5.3	5.1
May	29.20	29.42	28.95	67.0	77.6	77.7	82.5	65.5	74.0	90	58	64	64	63	91	65	63	.599	.598	.580	6.13	1.55	.0	7.7	7.9	6.4	7.2
June	29.16	29.35	28.88	74.0	87.1	88.8	92.1	72.8	82.4	106	65	68	68	67	84	54	52	.700	.677	.666	6.43	3.78	.0	5.1	5.0	3.6	4.6
July	29.23	29.39	28.99	73.3	86.1	85.7	90.5	72.7	81.6	96	69	70	68	69	91	57	60	.743	.702	.713	2.68	1.04	.0	6.5	5.6	4.9	5.6
August	29.24	29.41	29.05	73.7	89.1	88.6	94.3	73.2	83.8	106	69	69	66	66	86	48	50	.708	.640	.639	2.73	1.50	.0	5.0	5.5	5.0	5.0
September	29.20	29.41	28.95	71.8	82.8	82.1	87.6	70.9	79.2	95	53	69	66	68	92	59	63	.732	.661	.689	4.07	1.61	.0	7.1	6.8	6.3	6.6
October	29.32	29.60	29.08	58.5	71.6	71.0	76.0	56.6	66.3	89	42	53	52	53	83	55	57	.415	.409	.418	1.89	.93	.0	4.0	4.0	3.4	4.0
November	29.47	29.85	29.00	51.0	60.5	60.9	66.5	49.2	57.8	88	31	42	41	42	74	54	54	.298	.287	.298	2.17	1.42	.0	6.1	6.7	6.3	6.9
December	29.36	29.69	28.95	50.1	60.5	60.9	65.4	47.5	56.4	77	34	43	44	44	79	58	57	.301	.314	.308	1.75	1.04	.0	4.9	5.2	5.0	5.3
Year	29.27	29.85	28.77	60.3	72.4	73.1	78.1	58.4	68.2	106	19	54	54	54	82	56	54	.479	.470	.463	34.11	3.78	T	5.6	5.7	5.1	5.5

SAN DIEGO, CALIF.

[ϕ=32°43′ N.; λ=117°10′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.94	30.20	29.76	51.1	62.7	60.1	64.5	48.6	56.6	73	43	39	42	47	68	52	65	0.254	0.284	0.329	0.75	0.68	0.0	4.6	6.0	7.0	6.4
February	29.94	30.16	29.71	52.2	60.7	59.5	62.8	49.8	56.3	72	43	48	50	50	86	69	72	.340	.363	.364	5.18	1.55	.0	5.7	6.4	6.1	6.5
March	29.89	30.14	29.58	53.8	61.2	59.6	63.1	51.7	57.4	77	41	48	49	50	81	66	71	.337	.356	.362	.92	.54	.0	7.2	4.2	4.5	5.3
April	29.93	30.15	29.82	54.1	61.5	60.2	63.7	52.7	58.2	77	45	50	50	51	85	69	73	.357	.371	.375	.48	.40	.0	6.7	4.9	4.6	5.4
May	29.84	30.01	29.70	59.1	66.2	65.4	68.6	57.9	63.2	76	53	53	54	54	80	66	69	.405	.422	.425	T	T	.0	7.7	3.3	3.3	4.5
June	29.79	29.96	29.61	61.5	67.7	67.6	70.1	60.5	65.3	75	56	58	58	59	89	72	73	.487	.488	.496	.01	.01	.0	8.5	2.5	2.9	4.4
July	29.78	29.89	29.57	66.9	72.7	72.1	75.3	65.8	70.6	84	61	63	63	63	88	72	74	.580	.582	.584	.01	.01	.0	8.9	3.4	4.4	4.9
August	29.78	29.97	29.66	67.8	74.2	72.7	76.3	66.4	71.4	94	63	64	64	64	86	70	74	.586	.593	.595	.28	.25	.0	8.8	1.4	2.4	3.7
September	29.76	29.89	29.61	64.1	71.7	70.1	73.4	62.7	68.0	77	58	60	60	61	86	68	73	.517	.527	.539	.04	.04	.0	7.0	1.2	2.1	2.8
October	29.85	29.96	29.58	60.9	69.1	67.4	71.1	59.0	65.0	85	54	55	58	57	83	67	72	.442	.475	.473	1.86	.83	.0	6.3	3.6	5.0	4.7
November	29.95	30.21	29.78	56.9	71.2	67.7	73.4	54.0	63.7	83	48	39	44	47	56	41	52	.253	.298	.334	.44	.34	.0	3.0	3.5	4.5	4.0
December	29.94	30.20	29.62	52.9	63.9	60.7	66.2	50.0	58.1	78	45	42	43	47	68	51	65	.279	.293	.337	4.45	1.97	.0	4.9	5.8	6.4	5.9
Year	29.87	30.21	29.57	58.4	66.9	65.3	69.0	56.6	62.8	94	41	52	53	54	80	64	69	.403	.421	.434	14.42	1.97	.0	6.6	3.8	4.4	4.9

SANDUSKY, OHIO

[ϕ=41°25′ N.; λ=82°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.32	29.85	28.72	19.8	25.2	-----	29.3	15.5	22.4	48	−12	16	20	---	84	78	---	0.099	0.112	-----	1.07	0.25	8.7	7.6	8.1	----	7.8
February	29.38	29.75	28.38	16.3	21.9	-----	28.3	11.8	20.0	54	−6	13	15	---	84	74	---	.092	.097	-----	3.02	1.56	7.9	7.3	6.7	----	6.8
March	29.19	29.68	28.68	36.0	43.7	-----	47.6	31.4	39.5	68	11	30	32	---	78	63	---	.172	.186	-----	3.87	1.15	3.6	7.4	6.7	----	6.7
April	29.36	29.79	28.72	40.6	47.9	-----	52.6	36.6	44.6	76	22	32	33	---	73	58	---	.196	.203	-----	2.06	.60	.7	8.0	7.9	----	7.5
May	29.40	29.87	28.88	62.2	70.2	-----	74.0	52.8	63.4	90	40	48	49	---	62	50	---	.359	.371	-----	1.26	.38	.0	4.0	4.7	----	4.9
June	29.27	29.62	28.71	66.9	74.3	-----	77.9	59.2	68.6	94	49	53	54	---	64	53	---	.411	.435	-----	2.05	.86	.0	4.6	5.3	----	4.9
July	29.28	29.71	28.96	74.5	82.3	-----	86.0	66.5	76.2	105	55	60	60	---	62	50	---	.530	.532	-----	3.21	1.69	.0	4.1	3.5	----	4.1
August	29.33	29.68	29.06	72.7	80.1	-----	84.3	65.7	75.0	102	55	62	64	---	71	58	---	.573	.598	-----	1.83	.78	.0	5.4	5.2	----	5.3
September	29.38	29.75	29.01	65.0	75.6	-----	78.1	59.6	68.8	95	45	56	58	---	74	55	---	.473	.493	-----	3.28	1.12	.0	5.4	5.2	----	5.5
October	29.40	29.79	28.83	49.1	59.5	-----	62.8	45.1	54.0	79	27	42	44	---	77	58	---	.286	.309	-----	2.55	.72	T	6.7	6.1	----	6.6
November	29.39	29.97	28.82	34.5	41.1	-----	45.2	30.3	37.8	69	15	29	30	---	78	65	---	.170	.177	-----	2.20	1.16	1.1	6.7	7.1	----	6.9
December	29.50	29.90	28.91	31.9	39.6	-----	42.5	27.9	35.2	63	13	26	29	---	77	65	---	.147	.165	-----	1.74	1.00	2.4	7.8	6.3	----	6.7
Year	29.35	29.97	28.38	47.5	55.1	-----	59.0	41.9	50.5	105	−12	39	41	---	74	61	---	.292	.306	-----	28.16	1.69	24.4	6.2	6.1	----	6.1

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SALT LAKE CITY, UTAH [1]

[H=4,222 ft.; H_b=4,227 ft.; h_t=32 ft.; h_r=31 ft.; h_a=46 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	8.9	SE.	34	NW.	1	3	2	2	23	11	4	4	12	1	6	9	16	13	12	19	10	0	11	1	6	0	28	0	0
February	9.5	SE.	47	NW.	2	3	4	1	17	16	7	4	6	0	0	8	21	15	11	21	10	0	4	0	4	0	22	4	0
March	9.9	SE.	41	W.	2	12	1	1	19	5	3	1	17	3	9	10	12	7	5	8	4	0	1	0	0	0	25	1	0
April	8.7	SE.	40	NW.	1	5	10	4	21	6	1	3	10	0	9	12	9	7	3	3	1	0	1	0	0	0	7	5	0
May	10.8	SE.	54	W.	7	8	1	3	25	9	3	2	11	0	18	7	6	3	2	1	0	0	0	0	0	0	0	1	0
June	9.4	SE.	37	W.	4	7	6	4	25	6	3	2	7	0	11	12	7	8	6	0	0	0	0	0	0	0	13	0	10
July	10.0	SE.	48	W.	5	3	4	1	38	6	1	3	6	0	9	17	5	12	7	0	0	0	0	0	0	0	23	0	14
August	9.6	SE.	43	SW.	6	3	9	3	29	7	3	2	6	0	19	11	1	8	4	0	0	0	0	0	0	0	16	0	15
September	9.7	SE.	43	E.	4	4	3	5	25	5	1	4	13	0	23	6	1	5	1	0	0	0	0	0	0	1	1	5	0
October	8.2	SE.	34	SW.	2	5	4	2	29	2	2	5	13	0	17	7	7	4	4	0	0	0	1	0	0	0	4	1	0
November	6.0	SE.	23	NW.	0	1	3	8	17	1	7	12	8	3	22	4	4	2	2	3	2	0	0	0	1	0	30	1	0
December	8.4	SE.	37	SE.	1	6	5	2	21	15	2	3	8	0	8	4	19	11	7	13	8	0	2	0	4	0	26	0	0
Year	9.1	SE.	54	W.	35	60	52	36	289	89	37	45	117	7	151	107	108	95	64	68	35	0	20	1	15	53	143	57	0

SAN ANTONIO, TEX.

[H=646 ft.; H_b=693 ft.; h_t=242 ft.; h_r=235 ft.; h_a=301 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.3	NE.	38	NW.	1	11	16	5	1	10	6	6	7	0	14	12	5	7	4	1	0	0	8	1	0	0	8	0	0
February	11.0	NE.	35	N.	3	8	17	11	11	7	1	3	0	0	6	9	14	6	4	0	0	0	14	7	0	0	9	1	0
March	10.3	S.	41	SE.	3	5	14	12	4	14	3	6	3	1	8	13	10	5	3	0	0	1	10	1	0	1	0	3	0
April	10.5	S.	43	E.	3	11	5	7	14	11	4	0	3	5	10	11	9	7	5	0	0	3	7	0	0	2	0	4	0
May	10.2	NE.	32	NE.	1	3	21	18	11	4	2	2	0	1	3	12	16	14	12	0	0	1	12	1	0	1	0	11	0
June	10.5	NE.	43	NE.	1	2	22	9	12	8	2	3	2	0	11	15	4	5	5	0	0	1	1	0	0	24	0	6	0
July	9.9	E.	32	SE.	1	0	5	18	15	16	2	2	0	4	7	17	7	11	7	0	0	0	4	0	0	19	0	11	0
August	9.2	E.	37	E.	4	0	2	33	8	8	3	6	0	2	8	18	5	5	4	0	0	0	1	0	0	26	0	5	0
September	10.9	SE.	31	SE.	0	5	7	15	23	6	0	2	0	2	1	18	11	11	10	0	0	0	7	0	0	14	0	8	0
October	10.2	N.	50	NW.	1	15	15	7	7	5	1	6	6	0	18	2	11	9	8	0	0	0	12	4	0	0	0	2	0
November	10.4	N.	35	N.	1	15	13	15	5	1	3	5	3	0	3	13	14	6	6	0	0	0	8	2	0	0	1	0	0
December	10.5	E.	30	N.	0	12	9	12	12	5	2	3	6	1	9	10	12	9	6	0	0	0	7	5	0	0	0	0	0
Year	10.4	E.	50	NW.	19	87	146	162	123	95	29	44	30	16	98	150	118	95	74	1	0	6	91	21	0	87	18	51	0

SAN DIEGO, CALIF.

[H=26 ft.; H_b=87 ft.; h_t=62 ft.; h_r=55 ft.; h_a=70 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	5.1	NW.	18	NW.	0	7	5	7	3	4	8	7	21	0	8	8	15	3	2	0	0	0	2	0	0	0	0	0	0
February	7.0	W.	29	S.	0	2	3	12	5	7	4	18	7	0	8	5	16	13	12	0	0	0	2	0	0	0	0	1	0
March	7.3	W.	31	W.	0	8	2	3	6	2	8	19	14	0	9	12	10	7	6	0	0	0	7	3	0	0	0	0	0
April	7.2	NW.	28	W.	0	4	5	2	2	5	3	15	24	0	11	8	11	5	3	0	0	0	2	3	0	0	0	0	0
May	7.4	W.	20	NW.	0	6	2	4	3	6	11	15	15	0	15	8	8	0	0	0	0	0	4	0	0	0	0	0	0
June	7.2	W.	17	W.	0	5	0	2	0	15	7	17	13	1	13	13	4	1	0	0	0	0	4	0	0	0	0	1	0
July	6.5	SW.	17	NW.	0	4	1	2	2	7	18	14	14	0	11	14	6	1	0	0	0	0	3	0	0	0	0	2	0
August	6.8	NW.	26	S.	0	8	1	1	1	8	10	21	12	0	19	9	3	2	1	0	0	0	0	0	0	1	0	3	0
September	6.8	NW.	18	NW.	0	8	2	2	0	7	9	14	17	1	22	6	2	1	1	0	0	0	9	2	0	0	0	0	0
October	6.7	NW.	21	SE.	0	8	6	3	7	5	11	7	15	0	13	11	7	7	7	0	0	0	9	7	0	0	0	1	0
November	5.6	NW.	21	S.	0	7	7	11	1	1	4	2	27	0	16	5	9	3	2	0	0	0	0	2	0	0	0	2	0
December	6.4	NW.	29	SE.	0	5	5	7	8	3	7	7	19	1	12	5	14	11	9	0	0	0	3	1	0	0	0	1	0
Year	6.7	NW.	31	W.	0	72	39	56	38	70	100	156	198	3	157	104	105	54	43	0	0	0	45	18	0	1	0	11	0

SANDUSKY, OHIO

[H=603 ft.; H_b=629 ft.; h_t=5 ft.; h_r=3 ft.; h_a=67 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.7	SW.	28	SW.	0	1	3	5	1	4	13	4	0	0	4	5	22	14	6	17	12	0	4	1	17	0	30	1	0
February	10.9	SW.	38	SW.	1	2	3	4	1	1	12	4	2	0	4	12	13	13	9	18	11	0	3	1	17	0	26	1	0
March	10.1	SW.	30	SW.	0	3	2	2	5	4	8	1	6	0	5	13	13	15	12	10	7	1	4	0	2	0	20	2	0
April	10.1	W.	31	W.	0	1	2	3	2	5	4	6	7	0	3	8	19	18	11	10	5	0	3	1	0	0	11	4	0
May	8.4	SW.	26	NW.	0	3	4	3	0	5	11	3	2	0	9	15	7	9	6	0	0	0	1	1	0	0	0	3	0
June	7.9	NE.	30	NW.	0	6	8	0	2	4	8	2	0	0	9	13	8	12	7	0	0	0	0	0	0	3	0	6	0
July	6.8	NE.	20	W.	0	5	7	1	0	5	9	2	2	0	16	9	6	5	5	0	0	1	0	0	0	9	0	5	0
August	7.6	E.	30	W.	0	2	2	5	2	7	8	4	1	0	10	13	8	10	8	0	0	0	1	0	0	8	0	5	0
September	8.2	SW.	26	SW.	0	1	3	6	5	4	9	1	1	0	10	8	12	11	10	0	0	0	0	0	0	4	0	6	0
October	9.3	SW.	27	NW.	0	5	1	3	1	10	7	0	4	0	3	18	10	10	9	2	0	0	0	0	0	0	3	3	0
November	11.4	SW.	30	SW.	0	3	3	0	2	3	13	5	1	0	7	4	19	10	6	12	6	0	2	0	4	0	19	1	0
December	10.1	SW.	27	W.	0	2	3	2	3	8	9	0	4	0	7	6	18	9	8	5	3	0	6	0	3	0	22	0	0
Year	9.3	SW.	38	SW.	1	34	41	34	24	60	111	32	30	0	87	124	155	136	97	74	44	2	24	4	43	24	131	37	0

[1] Observations taken at airport.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SANDY HOOK, N. J.

[ϕ=40°28′ N.; λ=74°01′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.96	30.51	28.97	26.3	29.9	29.6	34.6	23.5	29.0	52	0	22	24	24	85	75	77	0.131	0.136	0.136	5.78	1.48	2.9	5.1	5.9	4.3	5.5
February	30.07	30.49	29.35	23.0	26.6	26.1	30.4	19.2	24.8	48	3	18	19	20	80	73	76	.107	.111	.113	2.60	.75	6.1	5.6	6.3	3.1	5.8
March	29.87	30.38	29.02	40.2	44.9	42.0	49.0	36.6	42.8	67	22	36	37	36	83	76	82	.216	.236	.222	3.40	1.09	.2	5.8	6.0	5.6	6.3
April	30.00	30.50	29.40	44.6	49.8	47.3	53.6	40.8	47.2	77	32	36	43	38	74	77	72	.224	.285	.238	2.25	.68	T	5.8	6.4	5.4	6.1
May	30.01	30.60	29.54	58.4	66.0	60.8	70.4	53.1	61.8	89	45	49	49	50	72	57	70	.361	.370	.377	2.05	.89	.0	3.4	3.4	3.4	3.4
June	29.90	30.25	29.49	66.2	71.6	67.8	74.7	61.9	68.3	88	57	58	58	59	78	64	76	.500	.487	.513	4.25	1.46	.0	5.3	5.3	5.6	5.2
July	29.86	30.28	29.55	71.3	78.6	74.1	81.6	68.0	74.8	101	63	63	63	65	75	60	75	.580	.588	.630	1.66	.97	0	5.1	4.3	6.5	5.2
August	29.99	30.31	29.72	71.2	77.7	73.6	80.8	67.8	74.3	93	61	65	65	66	82	66	79	.629	.628	.656	2.98	.90	0	4.5	4.6	5.4	4.5
September	30.06	30.44	29.53	65.4	70.5	67.2	73.2	62.4	67.8	87	50	59	59	60	80	69	80	.516	.519	.538	5.78	4.43	.0	5.3	5.1	4.5	5.4
October	30.07	30.51	29.18	55.6	61.3	57.8	63.5	52.3	57.9	75	31	50	49	49	82	65	74	.382	.379	.375	3.77	2.19	.0	4.4	6.1	3.8	5.4
November	30.03	30.59	29.37	40.7	46.2	42.8	49.7	36.5	43.1	73	20	34	34	34	76	63	70	.213	.212	.212	1.19	.49	T	5.1	5.0	4.0	5.5
December	30.22	30.69	29.45	36.7	40.9	40.0	45.3	33.0	39.2	60	18	32	32	33	81	70	77	.188	.187	.198	6.97	2.01	T	6.7	5.4	5.7	6.1
Year	30.00	30.69	28.97	50.0	55.3	52.4	58.9	46.3	52.6	101	0	44	44	44	79	68	76	.337	.345	.351	42.68	4.43	9.2	5.2	5.3	4.8	5.4

SAN FRANCISCO, CALIF.

[ϕ=37°47′ N.; λ=122°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: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.92	30.18	29.51	51.2	55.2	56.4	58.7	49.0	53.8	66	42	45	44	43	81	68	65	0.304	0.296	0.289	5.77	1.57	0.0	4.8	7.1	6.9	6.7
February	29.81	30.28	29.37	49.5	55.2	55.6	58.8	48.0	53.4	71	40	46	45	45	88	68	68	.312	.298	.303	10.06	3.07	.0	5.9	6.2	6.2	6.4
March	29.84	30.11	29.25	51.7	61.0	60.2	65.0	49.9	57.4	77	42	44	42	44	78	53	58	.297	.279	.297	1.01	.74	.0	3.7	3.9	3.6	4.1
April	29.89	30.23	29.43	52.8	63.1	61.6	66.5	51.3	58.9	83	43	46	46	47	80	56	60	.317	.322	.325	1.09	.71	.0	5.5	4.6	4.6	5.1
May	29.81	30.06	29.58	56.0	65.0	63.6	68.4	54.6	61.5	85	50	49	47	48	78	55	60	.349	.325	.343	.49	.40	.0	5.4	3.8	3.3	4.0
June	29.76	29.96	29.52	56.5	65.0	63.7	67.6	55.8	61.7	78	52	52	52	52	85	64	68	.390	.392	.396	.28	.24	.0	4.1	3.8	3.6	3.7
July	29.72	29.83	29.57	54.1	63.6	61.7	65.6	55.3	59.4	73	50	50	53	52	89	68	70	.370	.397	.388	.03	.03	.0	4.6	2.0	2.1	2.7
August	29.74	29.92	29.62	54.7	62.2	60.4	64.7	53.9	59.3	78	49	52	54	53	92	75	77	.393	.417	.405	.02	.02	.0	6.5	2.8	3.7	4.8
September	29.71	29.92	29.46	56.1	68.8	64.4	71.0	55.0	63.0	91	51	52	51	52	88	58	67	.395	.378	.392	T	T	.0	4.5	2.2	1.5	2.8
October	29.80	30.00	29.54	55.7	67.2	62.2	70.3	54.1	62.2	86	50	51	50	51	86	57	69	.374	.363	.378	.69	.69	.0	4.7	3.5	3.3	4.2
November	29.97	30.29	29.77	51.8	62.1	60.7	65.9	50.2	58.0	78	45	46	41	42	82	50	57	.312	.267	.282	.01	.01	.0	4.7	2.6	2.2	3.6
December	29.89	30.26	29.39	47.8	52.9	53.5	56.6	46.5	51.6	67	40	44	42	41	87	69	66	.288	.271	.267	2.94	1.06	.0	4.8	6.8	5.3	6.1
Year	29.82	30.29	29.25	53.2	61.8	60.3	64.9	51.8	58.4	91	40	48	47	48	84	62	65	.342	.334	.339	22.39	3.07	.0	4.9	4.1	3.9	4.5

SAN JUAN, P. R.

[ϕ=18°28′ N.; λ=66°07′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.93	30.06	29.82	74.4	78.6	----	80.2	70.2	75.2	86	67	70	72	---	86	81	---	0.732	0.791	----	2.47	0.63	0.0	5.4	4.3	----	4.8
February	29.93	30.11	29.82	74.4	79.1	----	81.3	69.8	75.6	87	68	67	68	---	79	69	---	.669	.688	----	1.03	.38	.0	4.5	3.6	----	4.6
March	29.90	30.02	29.76	75.5	78.7	----	80.9	70.3	75.6	89	65	67	68	---	76	71	---	.670	.697	----	1.43	1.05	.0	3.7	3.8	----	3.9
April	29.93	30.07	29.81	78.8	79.9	----	81.7	72.6	77.2	89	70	70	71	---	75	75	---	.737	.756	----	2.38	1.52	.0	5.2	5.1	----	5.3
May	29.82	29.93	29.72	80.4	81.9	----	84.5	74.4	79.4	90	71	74	74	---	80	78	---	.824	.842	----	16.88	5.37	.0	6.2	6.4	----	6.7
June	29.89	30.02	29.77	82.9	84.1	----	86.6	76.0	81.3	90	73	74	75	---	76	75	---	.852	.877	----	3.43	1.22	.0	5.3	6.0	----	5.8
July	29.94	30.03	29.81	82.5	82.6	----	84.5	75.6	80.0	89	70	75	75	---	78	78	---	.866	.875	----	7.52	2.12	.0	5.9	5.2	----	5.6
August	29.87	29.98	29.77	81.7	82.7	----	84.5	75.8	80.2	87	72	76	78	---	84	84	---	.912	.942	----	9.30	1.49	.0	6.8	6.2	----	5.1
September	29.85	29.95	29.75	81.2	83.1	----	85.2	75.5	80.4	89	72	75	77	---	83	82	---	.879	.925	----	5.84	1.72	.0	5.7	5.9	----	4.7
October	29.86	29.98	29.75	80.3	82.3	----	83.7	74.7	79.2	87	73	75	76	---	84	82	---	.863	.902	----	6.37	1.42	.0	6.2	5.8	----	4.8
November	29.86	30.02	29.70	78.4	81.2	----	82.3	73.2	77.8	84	70	73	75	---	83	80	---	.807	.857	----	5.55	1.96	.0	5.1	4.3	----	4.2
December	29.88	30.01	29.73	75.9	79.2	----	80.5	71.0	75.8	85	68	70	72	---	82	78	---	.738	.782	----	9.87	†4.19	.0	4.8	4.5	----	5.1
Year	29.89	30.11	29.70	78.9	81.1	----	83.0	73.3	78.1	90	65	72	73	---	80	78	---	.796	.828	----	72.07	5.37	.0	5.4	5.1	----	5.0

SANTA FE, N. MEX.

[ϕ=35°41′ N.; λ=105°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	23.16	23.38	22.82	22.0	33.6	32.0	38.3	18.2	28.2	52	8	16	20	21	74	56	62	0.085	0.103	0.108	0.99	0.44	11.4	3.1	4.6	3.9	3.6
February	23.10	23.41	22.75	27.3	38.0	38.9	42.8	24.1	33.4	57	7	20	23	23	73	56	52	.110	.126	.123	.98	.37	9.6	4.3	5.4	6.0	5.1
March	23.14	23.42	22.68	31.3	48.8	50.3	53.9	28.6	41.2	62	15	19	22	21	59	36	32	.102	.120	.114	.63	.42	5.5	2.2	3.7	4.9	3.4
April	23.25	23.49	22.88	39.1	57.8	57.7	61.7	36.7	49.2	73	17	24	25	24	57	30	30	.133	.136	.130	.20	.18	.1	3.6	4.4	5.9	4.5
May	23.28	23.53	22.88	49.6	66.3	66.1	71.1	46.8	59.0	79	31	35	35	34	60	34	33	.211	.206	.200	1.75	.62	3.0	4.9	2.4	7.5	5.3
June	23.33	23.54	22.97	59.0	77.4	77.2	82.1	55.1	68.6	93	43	40	38	37	50	26	27	.253	.238	.238	.42	.21	.0	2.2	3.1	4.9	3.3
July	23.40	23.54	23.22	60.6	78.6	74.0	82.7	57.8	70.2	91	51	46	47	46	61	34	43	.317	.326	.324	3.29	.79	.0	3.2	4.1	6.7	4.9
August	23.40	23.53	23.24	59.2	76.8	75.3	81.6	58.1	69.8	92	52	48	48	48	68	38	42	.335	.332	.335	1.36	.37	.0	2.8	4.9	7.0	4.7
September	23.33	23.51	23.01	50.4	66.4	64.5	70.7	48.6	59.6	83	28	44	45	45	80	49	54	.297	.306	.306	3.33	1.22	4.0	2.5	4.8	5.6	4.5
October	23.32	23.54	23.06	40.8	56.2	54.0	60.7	39.2	50.0	73	29	33	36	37	76	48	55	.190	.209	.219	.83	.42	3.0	3.6	4.4	3.9	4.3
November	23.38	23.62	22.94	30.0	47.4	41.9	51.7	27.4	39.6	65	15	20	24	23	66	39	45	.107	.127	.120	T	T	T	1.1	2.0	1.5	3.0
December	23.23	23.50	22.79	26.0	38.7	34.9	42.6	22.4	32.5	56	12	19	21	21	73	48	55	.104	.112	.112	.64	.33	4.6	2.8	4.1	4.0	3.9
Year	23.28	23.62	22.68	41.3	57.2	55.6	61.7	38.6	50.1	93	7	30	32	32	66	41	44	.187	.195	.194	14.42	1.22	41.2	3.0	4.0	5.2	4.2

† Partly estimated.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SANDY HOOK, N. J.

[H=15 ft.; H_b=22 ft.; h_t=10 ft.; h_r=3 ft.; h_a=57 ft.]

Month	Wind: By self-register: Average hourly velocity	Wind: By self-register: Prevailing direction	Wind: By self-register: Maximum velocity	Wind: By self-register: Direction at time of maximum velocity	Wind: By self-register: Days with 32 miles or over	Wind: Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	Precipitation: 0.04 inch or over	Snow: T or more	Snow: 0.01 inch or more melted	Hail	Fog: Light	Fog: Dense	Maximum temp.: 32° or below	Maximum temp.: 90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Electricity: Aurora
	Mi.		*Mi.*																										
January	16.9	W.	51	W.	13	2	3	5	3	4	8	28	9	0	10	8	13	12	11	10	5	0	19	6	11	0	25	0	0
February	15.2	W.	41	NE.	9	6	7	5	1	2	8	21	8	0	10	4	15	11	9	6	5	0	21	1	17	0	26	0	0
March	13.5	S.	49	NW.	6	3	9	7	6	19	6	6	6	0	5	11	15	16	11	5	3	0	19	8	2	0	7	1	0
April	15.3	W.	55	S.	8	7	6	3	6	12	5	14	7	0	8	10	12	14	11	1	0	0	14	2	0	0	0	2	0
May	12.7	S.	46	SW.	5	2	4	1	2	22	10	8	13	0	16	10	5	8	7	0	0	0	12	1	0	0	0	5	0
June	12.3	S.	32	S.	1	5	7	10	6	11	7	6	8	0	13	5	12	11	10	0	0	0	21	5	0	0	0	7	0
July	11.7	SW.	39	N.	4	2	8	3	5	15	13	9	7	0	11	8	11	4	3	0	0	0	16	0	0	4	0	10	0
August	11.7	SW.	40	N.	3	3	12	6	6	10	12	12	1	0	12	10	9	12	9	0	0	0	20	0	0	3	0	10	0
September	13.6	S.	60	N.	4	7	9	5	8	15	10	3	3	0	9	11	10	9	8	0	0	0	15	3	0	0	0	1	0
October	13.8	S.	43	NW.	8	8	6	4	4	15	15	6	4	0	13	4	14	11	6	0	0	0	21	2	0	0	1	0	0
November	16.8	NW.	53	NW.	9	3	6	0	1	9	13	11	17	0	9	8	13	6	6	5	2	0	13	0	2	0	12	0	0
December	16.2	SW.	46	S.	11	11	13	3	1	5	12	9	8	0	11	6	14	13	12	2	0	0	19	4	1	0	13	0	0
Year	14.1	W.	60	N.	81	59	90	52	49	139	119	133	91	0	127	96	143	127	103	29	15	0	210	32	33	7	84	36	0

SAN FRANCISCO, CALIF.

[H=52 ft.; H_b=155 ft.; h_t=112 ft.; h_r=104 ft.; h_a=132 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.3	N.	28	NW.	0	15	8	2	5	9	7	6	9	1	9	4	18	12	11	0	0	0	5	2	0	0	0	0	0
February	7.2	SE.	27	SW.	0	8	3	0	9	9	9	11	9	0	7	6	16	17	16	0	0	1	4	2	0	0	0	2	0
March	7.0	W.	34	NW.	3	4	3	3	4	3	8	29	7	1	16	8	7	4	2	0	0	1	1	1	0	0	0	0	0
April	7.4	W.	28	NW.	0	5	1	1	4	5	10	27	5	2	11	8	11	6	4	0	0	0	0	0	0	0	0	0	0
May	9.6	W.	30	N.	0	3	1	1	5	1	16	33	1	1	15	10	6	6	3	0	0	0	0	0	0	0	0	0	0
June	9.9	W.	26	W.	0	1	0	0	1	2	14	39	2	1	17	6	7	4	2	0	0	0	0	0	0	0	0	0	0
July	10.8	W.	25	W.	0	0	0	1	0	2	10	47	2	0	18	12	1	1	0	0	0	0	0	0	0	0	0	0	0
August	9.9	W.	22	W.	0	0	0	0	0	2	11	48	1	0	10	14	7	1	0	0	0	0	5	1	0	0	0	0	0
September	9.3	W.	26	W.	0	0	0	0	0	2	7	48	1	2	19	11	0	0	0	0	0	0	2	0	0	1	0	0	0
October	7.5	W.	24	W.	0	6	0	0	1	3	7	35	10	0	12	12	7	1	1	0	0	0	10	0	0	0	0	0	0
November	5.4	W.	21	NE.	0	9	2	7	0	9	3	25	5	0	12	14	4	1	0	0	0	0	14	5	0	0	0	0	0
December	5.4	N.	26	SW.	0	10	1	11	4	5	3	14	14	0	8	9	14	8	6	0	0	1	11	3	0	0	0	0	0
Year	8.0	W.	34	NW.	2	61	19	26	33	52	105	362	66	8	154	114	98	61	45	0	0	3	52	14	0	1	0	2	0

SAN JUAN, P. R.

[H=47 ft.; H_b=82 ft.; h_t=9 ft.; h_r=4 ft.; h_a=54 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.7	E.	35	E.	1	0	5	17	6	2	1	0	0	0	8	21	2	14	13	0.0	0.0	0	0	0	0	0	0	0	0
February	12.2	E.	34	NE.	3	0	0	3	5	5	11	5	0	0	8	19	2	9	8	.0	.0	0	0	0	0	0	0	0	0
March	10.7	E.	27	E.	0	0	0	5	6	10	6	3	1	0	15	15	1	5	3	.0	.0	0	0	0	0	0	0	0	0
April	13.6	E.	35	E.	1	0	1	1	20	4	4	0	1	0	4	23	3	15	7	.0	.0	0	0	0	0	0	0	1	0
May	8.3	SE.	25	E.	0	0	0	0	7	11	9	3	1	0	2	17	12	23	21	.0	.0	0	0	0	0	0	3	0	11
June	10.0	E.	27	E.	0	0	0	0	16	6	8	0	0	0	1	25	4	16	13	.0	.0	0	0	0	0	2	0	11	0
July	13.7	E.	34	S.	2	0	0	0	29	2	0	0	0	0	5	19	7	18	17	.0	.0	0	0	0	0	0	0	7	0
August	11.2	E.	31	E.	0	0	0	0	24	3	3	1	0	0	7	17	7	25	19	.0	.0	0	0	0	0	0	0	9	0
September	10.0	E.	31	E.	0	1	1	10	6	10	2	0	0	0	8	22	2	22	15	.0	.0	0	0	0	0	0	0	10	0
October	9.9	E.	26	E.	0	0	0	0	11	10	9	0	0	1	6	22	3	24	20	.0	.0	0	0	0	0	0	0	7	0
November	10.6	E.	36	E.	2	0	0	9	14	7	0	0	0	0	9	19	2	18	12	.0	.0	0	0	0	0	0	0	1	0
December	10.3	E.	34	NE.	2	0	4	6	10	9	0	2	0	0	7	19	5	20	16	.0	.0	0	0	0	0	0	0	2	0
Year	11.0	E.	36	E.	11	1	19	160	87	78	15	5	1	0	78	238	50	209	162	.0	.0	0	0	0	0	0	5	0	59	0

SANTA FE, N. MEX.

[H=6,994 ft.; H_b=7,013 ft.; h_t=38 ft.; h_r=31 ft.; h_a=53 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.3	N.	24	N.	0	16	9	7	13	5	5	2	4	1	18	8	5	5	4	7	5	0	2	0	6	0	31	0	0
February	6.9	N.	26	SW.	0	14	8	2	3	4	8	11	8	0	12	6	11	10	7	12	10	0	0	0	2	2	0	26	0
March	7.5	N.	27	SW.	0	7	11	7	4	5	8	9	11	0	19	8	4	4	4	8	4	0	0	0	1	0	23	0	0
April	6.8	E.	25	W.	0	7	6	12	6	7	7	9	4	2	11	14	5	3	1	3	1	0	0	0	0	0	9	2	0
May	6.8	E.	21	SE.	0	4	5	19	9	5	10	6	1	3	10	13	8	8	7	2	2	0	1	0	0	0	2	3	0
June	6.8	SE.	20	SE.	0	4	9	15	11	6	4	7	2	2	17	12	1	5	4	0	0	0	0	0	0	3	0	9	0
July	5.6	E.	29	NE.	0	3	15	14	13	4	4	2	2	5	11	12	8	12	10	0	0	1	0	0	0	3	0	11	0
August	5.4	E.	24	N.	0	8	11	20	11	6	5	1	0	0	8	17	6	9	8	0	0	0	0	0	0	1	0	17	0
September	5.2	E.	23	SE.	0	4	13	14	10	6	8	3	1	1	14	11	5	13	11	3	2	0	1	0	0	0	3	5	0
October	5.3	S.	17	N.	0	10	4	11	4	17	8	4	4	0	13	10	8	7	5	2	2	0	2	0	0	0	4	1	0
November	5.3	N.	21	W.	0	13	7	13	4	16	2	3	1	1	23	6	1	0	0	1	0	0	0	0	1	0	25	0	0
December	5.4	N.	21	N.	0	11	17	11	9	2	5	4	3	0	17	7	7	6	6	4	4	1	0	0	1	0	29	0	0
Year	6.1	E.	29	NE	0	101	115	145	97	83	74	61	41	15	173	124	69	82	67	42	30	2	6	2	11	7	152	48	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SAULT STE. MARIE, MICH.

[ϕ=46°30′ N.; λ=84°21′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.27	29.88	28.64	10.3	14.7	14.7	19.2	6.5	12.8	35	−17	9	10	12	92	81	89	0.075	0.080	0.085	2.59	0.47	33.6	8.8	8.0	7.8	8.2
February	29.29	29.74	28.49	1.0	9.6	7.7	14.5	−5.0	4.8	38	−17	−1	5	3	90	80	81	.045	.057	.053	1.84	.40	31.7	6.9	6.0	6.6	6.4
March	29.16	29.72	28.37	21.9	29.2	27.7	32.7	18.1	25.4	42	−12	18	22	23	86	72	80	.108	.121	.125	2.21	.59	13.2	7.1	7.7	8.0	6.9
April	29.32	29.87	28.93	29.4	36.1	33.6	38.7	26.7	32.7	63	12	25	28	28	84	71	79	.142	.149	.155	1.95	.52	5.5	7.8	7.4	7.3	7.4
May	29.32	29.89	28.72	46.7	56.2	51.7	61.0	40.5	50.8	82	31	41	43	42	80	64	70	.267	.299	.278	3.15	.95	T	5.8	5.7	5.7	5.8
June	29.27	29.62	28.59	53.1	64.4	59.4	68.2	44.9	56.6	81	36	46	47	47	78	56	64	.318	.337	.327	1.03	.46	.0	5.0	5.1	4.8	4.9
July	29.27	29.64	28.99	63.9	76.3	71.5	79.5	55.6	67.6	96	42	56	55	54	75	50	56	.449	.440	.430	1.02	.91	.0	2.9	2.9	2.9	3.2
August	29.32	29.56	28.79	60.0	68.4	64.3	71.9	54.3	63.1	88	44	54	54	55	82	63	73	.429	.433	.437	2.85	1.04	.0	7.2	5.4	6.0	6.4
September	29.36	29.77	28.87	52.8	63.6	57.2	66.3	47.6	57.0	84	31	49	50	51	87	65	80	.360	.386	.381	5.30	3.32	.0	6.0	6.1	5.9	6.5
October	29.32	29.85	28.80	38.4	44.8	41.9	47.6	33.9	40.8	68	18	34	36	36	83	72	79	.204	.223	.224	3.79	1.72	2.0	7.4	7.6	7.3	7.6
November	29.33	30.07	28.59	23.4	27.6	26.2	33.8	17.1	25.4	60	−10	19	19	20	81	70	78	.116	.119	.120	2.14	.44	10.4	7.8	6.7	6.3	7.4
December	29.40	29.94	28.54	22.9	26.1	25.6	31.1	17.6	24.4	45	2	20	22	22	86	83	85	.110	.121	.121	3.40	.81	19.9	8.1	8.5	8.2	9.1
Year	29.30	30.07	28.37	35.3	43.1	40.1	47.0	29.8	38.4	96	−17	31	33	33	84	69	76	.219	.230	.228	31.27	3.32	116.3	6.7	6.4	6.4	6.6

SAVANNAH, GA.

[ϕ=32°05′ 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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	30.00	30.39	29.32	44.2	55.2	50.4	60.1	40.9	50.5	75	22	39	41	42	84	61	74	0.272	0.294	0.294	3.27	1.03	0.0	4.8	5.1	4.4	5.3
February	30.02	30.37	29.28	44.4	55.2	49.7	59.9	41.8	50.8	77	23	39	41	42	82	62	76	.257	.278	.281	3.74	1.52	.0	6.5	5.8	5.0	6.0
March	29.87	30.16	29.35	56.1	68.1	62.1	72.3	53.2	62.8	87	39	49	50	50	79	54	67	.375	.383	.379	3.67	1.56	.0	5.9	5.8	4.3	5.5
April	30.01	30.36	29.58	61.5	71.9	65.0	75.4	56.9	66.2	92	38	53	52	54	74	52	70	.430	.420	.443	1.67	.94	.0	4.6	4.9	4.5	4.7
May	29.98	30.31	29.63	71.0	80.9	73.0	83.5	65.6	74.6	93	60	64	62	64	78	54	75	.594	.561	.602	1.85	.87	.0	4.5	4.8	4.1	4.4
June	29.87	30.16	29.69	76.5	84.9	79.1	89.1	70.9	80.0	100	64	69	67	69	77	57	72	.706	.675	.709	3.57	1.68	.0	3.9	4.5	2.8	3.6
July	29.92	30.14	29.70	78.2	88.5	81.1	92.3	73.3	82.8	100	64	72	71	72	80	57	75	.771	.756	.786	6.68	3.23	.0	4.4	4.7	4.8	4.5
August	29.97	30.16	29.77	77.9	88.2	80.7	91.8	74.3	83.0	99	69	73	72	73	86	59	78	.819	.777	.820	3.23	1.34	.0	3.6	5.9	4.2	4.8
September	29.96	30.12	29.79	74.8	85.2	78.3	88.2	71.7	80.0	95	65	70	70	71	86	62	79	.739	.732	.767	5.05	1.38	.0	5.1	6.8	3.5	5.9
October	29.99	30.27	29.63	65.5	77.4	70.1	80.5	62.9	71.7	89	48	62	63	64	87	62	82	.574	.591	.620	2.43	1.00	.0	4.0	5.6	3.6	5.1
November	30.08	30.37	29.73	51.7	63.3	58.3	67.1	49.3	58.2	83	28	46	48	48	81	59	69	.346	.357	.363	1.25	1.08	.0	5.3	4.7	4.2	4.6
December	30.12	30.48	29.76	48.3	57.8	53.0	61.4	46.3	53.8	75	36	45	49	48	90	76	85	.317	.371	.353	3.34	.91	.0	5.6	8.2	6.5	7.5
Year	29.98	30.48	29.28	62.5	73.0	66.7	76.8	58.9	67.9	100	22	57	57	58	82	60	75	.517	.516	.535	39.75	3.23	.0	4.8	5.6	4.3	5.2

SCRANTON, PA.

[ϕ=41°24′ N.; λ=75°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.10	29.64	28.41	21.1	26.0	26.1	30.4	17.6	24.0	46	−8	15	16	17	76	63	67	0.097	0.101	0.106	4.47	1.86	26.5	7.8	7.2	7.5	7.2
February	29.19	29.62	28.44	17.4	25.1	24.4	29.7	13.3	21.5	55	−3	11	11	12	74	52	56	.079	.081	.084	1.31	.54	9.5	6.7	6.7	4.9	5.9
March	29.01	29.44	28.20	37.9	47.2	45.2	52.8	33.9	43.4	74	13	31	33	34	76	58	66	.189	.200	.205	5.25	1.28	1.7	6.4	7.5	7.1	7.1
April	29.14	29.61	28.56	41.2	50.2	47.3	55.0	36.8	45.9	82	25	32	33	33	68	53	60	.191	.201	.203	2.85	.90	T	7.0	7.8	7.4	6.8
May	29.18	29.78	28.77	56.3	68.9	66.3	74.8	48.9	61.8	91	32	46	44	45	69	43	48	.333	.318	.321	2.18	1.14	.0	4.8	5.1	4.0	4.3
June	29.07	29.43	28.73	64.4	73.8	71.4	78.2	57.9	68.0	90	46	54	52	54	70	50	57	.426	.409	.437	6.75	2.76	.0	5.5	6.3	5.8	5.3
July	29.05	29.48	28.73	67.8	81.1	77.9	86.1	61.3	73.7	103	48	56	54	55	68	40	46	.464	.431	.440	.73	.45	.0	3.8	4.6	5.0	5.0
August	29.16	29.54	28.89	66.5	79.1	74.4	83.4	61.5	72.4	95	48	59	59	60	77	52	62	.571	.510	.528	4.58	1.20	.0	6.0	6.1	6.0	5.7
September	29.24	29.55	28.80	59.4	71.5	66.7	75.5	55.3	65.4	89	35	52	53	55	78	53	67	.409	.416	.446	1.70	1.01	.0	6.0	5.5	4.6	5.6
October	29.22	29.65	28.39	47.7	57.0	53.8	61.4	43.7	52.6	78	21	42	43	43	81	60	66	.291	.301	.299	2.11	.40	T	6.4	7.1	5.5	6.0
November	29.17	29.71	28.55	33.8	40.4	38.4	45.4	29.7	37.6	75	10	27	27	27	76	59	64	.161	.163	.168	2.59	1.80	3.8	7.1	7.4	6.2	6.9
December	29.36	29.78	28.50	31.7	36.7	35.7	42 2	26.6	34.4	60	5	24	25	26	72	62	68	.139	.140	.149	2.75	.97	3.4	7.6	7.4	5.7	7.1
Year	29.16	29.78	28.20	45.4	54.8	52.3	59.6	40.5	50.1	103	−8	37	38	38	74	54	61	.274	.273	.282	37.27	2.76	44.9	6.3	6.6	5.8	6.1

SEATTLE, WASH.

[ϕ=47°36′ 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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	29.81	30.32	29.02	42.4	46.4	46.0	48.4	39.9	44.2	56	29	37	38	38	82	74	75	0.225	0.230	0.232	7.18	1.66	0.0	8.3	7.2	7.0	7.1
February	29.77	30.31	29.09	33.5	38.6	39.1	41.9	30.7	36.3	52	19	24	25	26	68	60	61	.142	.147	.153	4.64	1.61	5.8	6.7	7.4	7.2	7.2
March	29.93	30.36	29.50	40.3	47.1	47.9	50.0	38.1	44.0	62	30	35	34	33	81	62	57	.207	.205	.194	2.14	.75	1.1	7.0	7.6	7.2	7.5
April	29.95	30.50	29.52	46.9	56.1	59.6	61.9	45.6	53.8	74	31	42	42	42	84	60	54	.272	.276	.278	.72	.28	.9	8.0	6.8	5.7	6.6
May	29.87	30.36	29.28	51.5	62.0	64.9	67.5	50.4	59.0	82	43	46	46	45	84	58	52	.319	.315	.306	3.29	.85	.0	7.1	5.9	6.3	6.4
June	29.83	30.10	29.39	56.1	66.3	68.7	71.2	55.1	63.2	81	50	52	51	51	85	60	55	.382	.376	.373	2.77	.95	.0	6.5	5.9	5.9	6.0
July	29.88	30.06	29.57	57.7	67.7	73.3	75.1	56.7	65.9	84	54	52	52	50	82	57	46	.395	.386	.366	.55	.23	.0	4.6	3.2	3.2	3.7
August	29.89	30.02	29.59	58.0	68.3	74.5	76.0	56.8	66.4	89	53	51	54	53	86	61	48	.413	.413	.403	1.00	.66	.0	5.5	4.0	2.6	4.2
September	29.92	30.30	29.57	52.9	62.3	65.7	67.7	51.4	59.6	78	46	49	50	50	89	66	58	.355	.368	.360	1.40	.80	.0	4.6	5.0	3.9	4.6
October	30.00	30.34	29.61	51.7	58.5	59.9	61.9	49.9	55.9	75	42	48	49	49	90	72	69	.343	.345	.350	.88	.53	.0	6.4	6.4	5.6	6.7
November	30.17	30.46	29.87	42.8	49.6	50.2	52.7	39.4	46.0	67	28	39	41	41	86	75	73	.240	.265	.263	1.05	.45	.0	4.8	5.7	4.9	6.3
December	29.84	30.46	29.30	43.1	45.6	45.6	47.7	40.2	44.0	58	31	39	40	40	86	80	81	.242	.247	.250	5.41	1.55	T	8.7	8.6	7.7	8.4
Year	29.91	30.50	29.02	48.1	55.7	58.0	60.2	46.2	53.2	89	19	43	44	43	84	65	61	.295	.298	.294	31.03	1.66	7.8	6.5	6.1	5.6	6.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SAULT STE. MARIE, MICH.

[H=607 ft.; H_b=614 ft.; h_t=11 ft.; h_r=3 ft.; h_a=52 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	7.1	SE.	32	NW.	1	7	4	14	15	4	3	7	7	1	2	8	21	24	14	27	24	0	10	1	25	0	30	0	0
February	8.8	W.	29	NW.	0	2	2	7	8	2	14	14	7	2	7	7	15	19	15	19	18	0	12	2	27	0	29	0	0
March	9.9	SE.	38	NW.	2	2	0	5	17	2	6	14	15	1	5	10	16	21	12	19	15	1	10	0	11	0	29	1	3
April	9.7	NW.	30	NW.	0	1	3	9	12	2	3	9	21	0	5	3	22	13	8	15	8	0	8	1	8	0	26	1	3
May	8.9	NW.	32	NW.	1	3	3	8	15	3	4	10	16	0	9	10	12	12	11	1	0	0	13	4	0	0	4	2	3
June	7.0	W.	24	NW.	0	0	7	7	9	3	7	13	13	1	11	9	10	9	7	0	0	0	7	1	0	0	0	4	5
July	6.5	NW.	25	NW.	0	3	2	4	4	3	7	20	17	2	19	9	3	6	2	0	0	0	3	0	0	6	0	3	3
August	6.9	NW.	24	NW.	0	2	3	8	15	4	4	7	15	4	6	12	13	13	8	0	0	0	15	2	0	0	0	3	0
September	6.6	SE.	27	SW.	0	2	3	13	19	0	5	4	11	3	7	10	13	12	9	0	0	0	18	8	0	0	1	6	2
October	8.5	NW.	38	NW.	2	7	3	6	16	6	6	1	16	1	6	3	22	21	12	9	2	2	18	5	1	0	14	4	1
November	9.8	N.	29	NW.	0	9	9	5	5	9	6	7	8	2	6	4	20	15	11	16	8	0	10	2	11	0	26	0	1
December	9.4	SE.	31	NW.	0	5	3	11	22	2	5	6	7	1	1	2	28	16	14	20	13	0	11	5	18	0	30	1	0
Year	8.3	NW.	38	NW.	6	43	42	97	157	40	70	112	153	18	84	87	195	181	123	126	88	3	135	31	101	6	189	25	21

SAVANNAH, GA.

[H=42 ft.; H_b=65 ft.; h_t=73 ft.; h_r=71 ft.; h_a=152 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.6	NW.	43	W.	1	8	4	8	6	11	6	6	13	0	15	2	14	14	10	0	0	0	10	3	0	0	5	1	0
February	11.1	N.	46	SW.	3	10	8	7	5	6	11	4	7	0	11	3	15	13	11	0	0	1	4	1	0	0	2	2	0
March	12.9	S.	44	W.	5	2	2	8	6	15	9	11	9	0	10	12	9	9	7	0	0	0	3	1	0	0	0	0	0
April	12.0	SW.	37	NW.	1	4	5	8	8	12	9	7	7	0	13	6	11	6	5	0	0	0	2	0	0	2	0	3	0
May	9.8	E.	37	E.	1	3	4	20	10	13	3	4	5	0	15	7	9	7	6	0	0	0	2	1	0	4	0	3	0
June	9.5	S.	36	SE.	1	2	7	7	8	17	7	10	2	0	16	10	4	11	10	0	0	0	0	0	0	12	0	8	0
July	10.7	W.	36	NW.	3	5	0	3	3	10	13	24	4	0	12	14	5	13	9	0	0	1	0	0	0	22	0	9	0
August	8.1	S.	27	E.	0	8	1	8	4	20	4	13	4	0	12	13	6	11	10	0	0	0	4	2	0	24	0	10	0
September	8.9	S.	26	NW.	0	10	10	10	8	11	4	6	1	0	4	16	10	14	10	0	0	0	2	0	0	10	0	6	0
October	10.3	E.	27	E.	0	10	13	18	1	4	6	7	3	0	11	9	11	9	8	0	0	0	5	4	0	0	0	1	0
November	10.4	N.	32	NW.	1	11	8	9	4	3	4	14	7	0	15	4	11	6	2	0	0	0	5	1	0	0	1	0	0
December	10.1	NE.	30	NW.	0	9	16	13	4	5	4	3	8	0	6	6	19	15	12	0	0	0	13	6	0	0	0	0	0
Year	10.4	E.	46	SW.	16	82	78	119	67	127	80	109	70	0	140	102	124	128	100	0	0	2	50	19	0	74	8	43	0

SCRANTON, PA.

[H=746 ft.; H_b=805 ft.; h_t=72 ft.; h_r=64 ft.; h_a=104 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.7	SW.	24	SE.	0	14	2	2	3	5	22	3	11	0	5	8	18	16	11	21	12	0	8	4	13	0	28	0	0
February	6.8	SW.	21	NW.	0	15	5	2	4	6	14	2	8	0	8	11	10	9	6	10	6	0	7	1	17	0	27	0	0
March	7.0	SW.	32	NW.	1	19	6	0	5	10	13	0	8	1	3	13	15	17	13	10	5	0	7	0	2	0	9	1	0
April	7.5	NW.	25	NW.	0	8	6	2	5	4	14	5	16	0	4	13	13	14	11	8	2	0	0	0	0	0	10	4	0
May	7.1	SW.	32	NW.	1	19	1	0	2	6	24	0	10	0	14	9	8	8	6	0	0	1	7	0	0	2	0	6	0
June	6.4	SW.	28	NW.	0	20	2	5	6	5	18	2	2	0	7	16	7	9	9	0	0	0	1	0	0	1	0	5	0
July	6.0	N.	21	NW.	0	17	3	1	2	5	23	1	10	0	6	22	3	6	4	0	0	0	5	0	0	7	0	8	0
August	5.5	SW.	34	NW.	1	19	6	1	5	5	20	2	3	1	5	18	8	17	10	0	0	0	13	0	0	6	0	9	0
September	6.1	N.	20	NW.	0	16	7	3	5	3	18	1	7	0	8	12	10	7	7	0	0	0	6	0	0	0	0	0	0
October	6.2	SW.	26	NW.	0	19	4	2	1	6	19	1	8	2	6	12	13	13	11	2	0	0	8	2	0	0	5	0	0
November	7.4	SW.	29	NW.	0	10	2	0	2	11	15	3	17	0	2	15	13	10	6	10	4	0	7	2	3	0	21	0	0
December	6.8	N.	23	SW.	0	15	12	3	1	6	11	2	12	0	6	9	16	10	8	12	3	0	4	1	4	0	24	0	0
Year	6.6	SW.	34	NW.	3	193	56	21	41	72	211	22	112	4	74	158	134	136	102	73	32	1	73	10	39	16	124	33	0

SEATTLE, WASH.

[H=14 ft.; H_b=125 ft.; h_t=90 ft.; h_r=83 ft.; h_a=321 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.5	SE.	40	SW.	5	12	6	1	23	11	6	1	2	0	5	8	18	19	15	0	0	0	6	0	0	0	2	1	0
February	9.6	N.	34	S.	2	16	5	6	15	9	6	0	1	0	3	7	19	12	8	11	6	0	2	0	2	0	19	0	0
March	10.8	S.	42	S.	3	6	3	2	13	15	12	2	9	0	3	9	19	14	9	4	3	0	4	2	0	0	2	0	0
April	8.7	SE.	28	SW.	0	12	3	3	13	7	11	4	7	0	4	10	16	7	5	2	2	0	6	1	0	0	1	0	0
May	9.2	N.	28	S.	0	13	5	3	8	12	7	5	9	0	7	9	15	17	12	0	0	0	2	0	0	0	0	5	0
June	8.2	SE.	47	SW.	1	15	4	3	18	7	6	3	4	0	8	10	12	11	7	0	0	0	5	0	0	0	0	1	0
July	8.2	N.	26	SW.	0	13	11	2	9	4	6	4	13	0	16	10	5	4	3	0	0	0	0	0	0	0	0	0	0
August	7.0	N.	24	SE.	0	9	12	4	8	3	6	5	14	1	17	6	8	3	3	0	0	0	7	0	0	0	0	1	0
September	7.0	N.	29	S.	0	23	7	2	8	2	6	4	8	0	9	15	6	7	5	0	0	1	12	2	0	0	0	1	0
October	6.8	N.	27	S.	0	23	12	2	7	7	1	2	8	0	6	10	15	6	2	0	0	0	15	7	0	0	0	0	0
November	7.2	SE.	29	SW.	0	19	8	1	21	4	1	3	2	1	5	12	13	4	4	0	0	0	18	9	0	0	1	0	0
December	11.1	SE.	42	SW.	7	10	5	3	20	18	4	1	1	0	3	4	24	21	18	2	1	0	7	2	0	0	2	0	0
Year	8.7	N.	47	SW.	18	171	81	32	163	99	72	34	78	2	86	110	170	125	91	19	12	1	84	23	2	0	27	9	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	25.99	26.46	25.50	14.8	26.9	22.8	31.1	7.9	19.5	57	−13	9	13	12	76	56	63	0.073	0.082	0.079	0.76	0.34	10.8	5.9	6.5	5.4	6.6
February	25.97	26.37	25.47	−1.8	10.1	7.1	16.2	−8.7	3.8	58	−38	−7	1	−1	79	63	69	.041	.057	.055	.85	.20	11.7	6.4	6.7	5.2	6.3
March	25.99	26.36	25.48	25.7	38.5	37.3	44.1	21.2	32.6	62	−17	18	20	19	76	49	49	.104	.113	.106	1.48	.65	15.2	6.1	6.6	5.7	6.2
April	26.11	26.48	25.68	31.4	51.4	51.4	56.7	27.7	42.2	81	−10	27	28	28	82	46	45	.161	.162	.160	.88	.38	.9	6.2	5.5	5.7	5.8
May	26.06	26.37	25.64	47.5	71.9	72.3	77.4	42.7	60.0	91	31	36	35	34	68	30	28	.221	.206	.203	.15	.12	.0	2.8	4.6	5.0	4.1
June	26.06	26.35	25.65	57.5	78.1	78.8	83.3	52.7	68.0	106	41	47	42	42	69	31	30	.328	.273	.273	2.18	1.81	.0	3.2	3.5	4.6	3.9
July	26.08	26.30	25.80	64.0	90.1	89.9	95.8	60.0	77.9	104	48	51	43	44	64	23	25	.380	.288	.303	1.07	.76	.0	3.4	4.0	4.9	4.1
August	26.13	26.38	25.91	56.9	83.6	81.3	88.4	54.6	71.5	101	40	47	43	45	70	26	30	.325	.282	.306	.19	.13	.0	3.9	3.6	3.8	3.8
September	26.12	26.48	25.65	45.0	71.8	68.7	76.1	42.1	59.1	92	27	36	33	35	72	28	32	.217	.197	.207	.88	.68	.0	2.5	2.3	3.5	3.0
October	26.18	26.52	25.71	35.4	57.6	51.8	61.4	31.2	46.3	83	12	31	30	33	83	39	52	.173	.164	.187	1.82	.52	2.2	4.4	4.7	4.9	4.7
November	26.29	26.58	25.87	25.8	43.8	36.1	48.6	20.0	34.3	73	1	20	23	24	79	45	61	.111	.126	.133	.38	.19	4.6	3.1	4.1	4.4	4.2
December	26.03	26.36	25.69	19.7	31.4	26.8	36.8	13.3	25.0	56	−9	15	18	17	81	60	67	.086	.103	.096	.50	.24	5.9	6.2	6.1	6.4	6.8
Year	26.08	26.58	25.47	35.2	54.6	52.0	59.7	30.4	45.0	106	−38	28	27	28	75	41	46	.185	.171	.176	11.14	1.81	51.3	4.5	4.8	5.0	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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.80	30.38	29.29	38.0	48.4	49.1	54.4	34.8	44.6	76	17	32	35	36	80	63	63	0.193	0.220	0.222	1.77	0.64	4.6	4.4	5.5	4.3	4.7
February	29.80	30.22	29.22	38.6	47.6	49.3	54.1	35.1	44.6	80	13	32	35	35	78	64	60	.207	.225	.221	1.40	.48	.8	6.4	5.4	5.2	5.8
March	29.65	30.00	29.35	55.5	68.6	68.8	74.0	53.4	63.7	87	42	47	45	45	74	47	46	.340	.327	.322	2.65	2.06	.0	5.4	4.6	4.1	4.6
April	29.79	30.16	29.22	56.4	70.6	69.8	75.7	53.8	64.8	92	35	46	45	46	69	43	47	.339	.334	.342	2.18	1.20	.0	4.5	5.0	5.2	4.9
May	29.74	29.93	29.43	67.3	79.1	77.1	83.5	65.4	74.4	89	56	61	59	59	82	53	57	.549	.511	.517	2.69	1.61	.0	5.6	5.0	5.5	5.5
June	29.65	29.87	29.34	75.1	89.7	90.0	95.2	72.5	83.8	104	65	65	62	62	73	42	40	.634	.581	.560	.39	.23	.0	2.1	2.0	3.1	2.5
July	29.71	29.93	29.48	76.8	87.8	86.3	92.8	73.9	83.4	100	64	72	70	69	84	57	59	.775	.729	.724	3.27	1.31	.0	5.1	5.1	5.3	5.2
August	29.71	29.90	29.45	77.8	92.8	90.3	97.3	75.8	86.6	109	64	70	66	66	78	42	46	.746	.646	.636	.39	.36	.0	3.2	4.1	4.8	4.0
September	29.70	29.84	29.44	74.0	88.1	85.2	91.8	72.7	82.2	101	57	70	66	66	86	49	53	.734	.660	.639	.84	.44	.0	4.0	5.3	4.9	4.6
October	29.81	30.12	29.60	57.4	72.3	69.0	75.6	55.4	65.5	90	44	52	52	52	83	52	58	.401	.403	.399	4.09	1.93	.0	4.1	4.2	3.9	4.1
November	29.96	30.27	29.54	47.1	59.6	56.8	64.2	44.4	54.3	86	30	40	40	39	78	52	56	.270	.274	.266	2.34	.96	.0	4.6	4.2	3.4	4.0
December	29.88	30.18	29.38	46.0	55.1	55.4	60.7	43.2	52.0	75	31	41	42	42	84	64	63	.276	.284	.285	4.43	1.42	.0	6.4	6.3	4.9	5.7
Year	29.77	30.38	29.22	59.2	71.6	70.6	76.6	56.7	66.7	109	13	52	51	51	79	52	54	.455	.433	.428	26.44	2.06	5.4	4.6	4.7	4.6	4.6

SIOUX CITY, IOWA

[ϕ=42°30′ 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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.84	29.40	28.21	4.1	9.5	9.7	15.5	−1.9	6.8	39	−21	2	5	6	90	80	85	0.054	0.061	0.063	1.46	0.53	19.4	5.8	6.4	8.5	6.4
February	28.87	29.18	28.14	−2.4	5.0	5.4	10.5	−6.7	1.9	44	−25	−4	0	2	90	77	85	.039	.048	.056	2.11	.55	25.0	6.4	6.9	6.6	6.9
March	28.64	29.16	28.00	31.3	42.6	42.0	48.5	29.1	38.8	73	13	25	26	29	78	53	62	.136	.145	.167	.30	.23	2.1	6.3	6.8	4.8	6.1
April	28.82	29.21	28.37	37.2	52.0	52.9	58.0	34.2	46.1	84	8	28	29	30	72	44	46	.165	.174	.183	.62	.34	2.4	6.1	6.4	5.9	6.4
May	28.76	29.12	28.22	59.3	73.7	74.4	78.2	56.5	67.4	92	37	50	49	50	74	45	46	.374	.359	.375	4.35	2.23	.0	5.7	6.5	5.0	5.8
June	28.71	29.06	28.05	64.9	78.9	80.0	84.8	59.8	72.3	105	45	51	52	54	63	42	43	.389	.410	.427	2.04	1.23	.0	4.8	5.2	2.9	4.8
July	28.69	29.19	28.38	77.2	95.4	95.7	100.2	74.1	87.2	111	57	56	54	55	50	26	27	.464	.428	.446	.18	.11	.0	2.5	3.2	2.1	2.7
August	28.71	29.98	28.40	71.6	88.5	87.2	93.1	68.9	81.0	108	55	56	56	56	61	36	38	.469	.477	.464	1.66	.80	.0	5.1	5.0	3.4	4.8
September	28.85	29.23	28.35	61.3	75.0	73.0	79.9	57.9	68.9	95	37	54	52	53	77	49	53	.440	.436	.450	2.07	.78	.0	4.4	4.6	4.5	4.5
October	28.82	29.43	28.30	43.2	56.9	54.9	62.7	39.5	51.1	83	21	34	35	35	72	46	49	.210	.221	.222	.99	.55	.2	4.1	4.5	4.2	4.5
November	28.92	29.34	28.42	29.8	40.7	38.9	46.0	25.6	35.8	68	8	24	27	27	77	58	64	.128	.148	.149	.34	.10	2.3	4.0	4.8	3.1	4.3
December	28.84	29.21	28.25	24.3	29.9	28.3	34.7	19.4	27.0	52	−7	22	23	24	88	76	82	.124	.131	.132	1.16	.56	9.1	6.0	7.0	6.1	7.0
Year	28.79	29.43	28.00	41.8	54.0	53.5	59.3	38.0	48.7	111	−25	33	34	35	74	53	57	.249	.253	.261	17.28	2.23	60.5	5.1	5.6	4.8	5.4

SPOKANE, WASH.

[ϕ=47°40′ N.; λ=117°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: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	27.93	28.47	27.28	29.4	33.5	34.7	36.8	26.9	31.8	44	5	27	28	28	89	79	78	0.148	0.154	0.158	2.78	0.61	11.3	7.1	7.3	7.5	7.8
February	27.88	28.43	27.27	13.2	20.1	22.5	24.6	10.1	17.4	51	−16	10	13	15	87	73	73	.081	.087	.098	1.57	.62	21.2	6.5	6.9	6.7	7.2
March	27.92	28.39	27.36	32.7	42.3	45.1	47.0	30.4	38.7	63	18	27	26	26	80	53	48	.150	.146	.145	.58	.44	2.1	6.7	6.8	6.2	6.5
April	27.97	28.37	25.56	42.4	58.3	61.3	63.3	41.1	52.2	86	14	33	32	31	71	38	34	.198	.188	.184	.18	.16	.0	5.3	5.3	6.0	5.6
May	27.90	28.24	27.48	50.7	69.1	73.3	74.6	49.4	62.0	93	40	40	37	35	68	34	27	.252	.229	.213	.57	.24	.0	4.8	5.2	4.5	5.1
June	27.90	28.15	27.54	55.8	70.9	75.2	76.7	54.3	65.5	97	46	46	44	42	72	42	34	.319	.295	.276	2.33	1.06	.0	4.8	6.0	5.0	5.6
July	27.90	28.09	27.61	59.2	81.1	86.3	87.5	58.1	72.8	103	49	43	41	37	56	26	19	.284	.264	.225	.07	.04	.0	2.3	2.3	1.8	2.3
August	27.93	28.16	27.70	58.0	79.7	82.7	85.0	57.0	71.0	98	45	42	41	37	56	26	22	.265	.257	.224	.23	.20	.0	2.2	3.0	2.5	2.7
September	27.98	28.37	27.59	48.4	66.3	70.1	72.1	46.1	59.1	85	36	41	39	37	76	40	33	.265	.249	.230	1.64	1.01	.0	2.9	4.2	3.5	3.7
October	28.06	28.39	27.64	42.0	58.8	62.3	65.4	38.9	52.2	80	29	34	36	35	75	45	38	.204	.220	.213	.28	.20	T	2.3	2.9	3.8	3.2
November	28.30	28.53	27.82	26.1	36.7	37.9	41.2	23.4	32.3	60	10	22	26	26	85	65	63	.118	.138	.140	.08	.08	T	3.9	4.7	5.2	5.0
December	27.92	28.47	27.48	31.6	35.8	35.7	37.9	28.1	33.0	54	4	28	30	30	88	78	80	.158	.166	.169	2.39	.79	9.5	8.4	9.1	8.7	9.0
Year	27.96	28.53	27.27	40.8	54.4	57.3	59.3	38.6	49.0	103	−16	33	33	32	75	50	46	.204	.199	.190	12.70	1.06	44.1	4.8	5.3	5.1	5.3

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SHERIDAN, WYO.

[H=3,773 ft.; H_b=3,790 ft.; h_t=10 ft.; h_r=3 ft.; h_a=47 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																										
January	5.4	NW.	32	NW.	1	0	6	3	8	14	7	6	18	0	4	11	16	10	5	12	9	0	2	0	16	0	29	0	0
February	5.4	NW.	32	NW.	1	2	6	3	3	13	6	6	18	1	5	13	11	12	10	20	12	0	3	1	22	0	29	0	0
March	6.6	NW.	30	NW.	0	2	6	4	4	13	2	4	27	0	6	13	12	10	5	15	9	0	1	0	7	0	30	0	0
April	5.9	NW.	22	NW.	0	2	11	4	6	11	3	4	17	2	6	14	10	11	5	5	4	0	1	0	4	0	12	1	1
May	6.5	NW.	31	NW.	0	3	4	10	9	10	3	2	17	4	15	12	4	3	1	0	0	0	1	1	0	4	3	2	1
June	5.2	NW.	23	NW.	0	5	2	2	13	10	2	4	18	4	14	10	6	9	6	0	0	0	0	0	0	10	0	7	1
July	5.0	NW.	25	NW.	0	3	4	6	8	8	9	3	16	5	15	10	6	7	5	0	0	0	0	0	0	28	0	7	0
August	4.9	NW.	27	SE.	0	2	4	3	11	12	4	4	18	4	18	9	4	4	1	0	0	0	0	0	0	16	0	7	0
September	5.1	NW.	24	S.	0	5	3	9	4	9	4	1	22	3	18	10	2	4	3	0	0	0	0	0	0	2	5	1	0
October	5.1	NW.	25	NW.	0	1	2	4	4	16	9	2	20	4	13	8	10	9	8	6	4	0	0	0	0	0	15	0	1
November	5.2	NW.	30	NW.	0	2	2	2	5	23	5	0	20	1	16	6	8	6	4	7	5	0	1	0	4	0	30	0	0
December	4.8	NW.	24	NW.	0	6	5	3	8	15	6	4	15	0	3	13	15	8	3	13	8	0	5	0	10	0	30	0	0
Year	5.4	NW.	32	NW.	2	33	55	53	83	154	60	40	226	28	133	129	104	93	56	78	51	0	14	2	63	60	183	25	4

SHREVEPORT, LA.

[H=197 ft.; H_b=249 ft.; h_t=92 ft.; h_r=90 ft.; h_a=227 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.2	NE.	31	S.	0	5	14	5	10	8	4	10	6	0	12	11	8	7	6	3	3	1	6	0	0	0	12	2	0
February	11.4	NE.	45	NW.	5	6	18	2	14	10	1	1	6	0	12	5	12	9	6	1	1	0	5	0	0	0	13	1	0
March	12.1	S.	34	NW.	3	4	7	5	6	21	7	3	9	0	13	13	5	6	4	0	0	0	6	0	0	0	0	3	0
April	12.4	S.	35	SW.	2	2	12	2	7	14	13	4	6	0	13	7	10	5	5	0	0	1	2	0	0	1	0	3	0
May	9.6	NE.	27	N.	0	0	27	12	16	3	1	0	3	0	8	14	9	12	7	0	0	0	3	1	0	0	0	8	0
June	9.9	S.	35	NE.	1	2	14	4	3	16	15	1	5	0	21	7	2	4	2	0	0	0	0	0	0	26	0	4	0
July	9.7	SW.	29	S.	0	1	8	1	11	12	23	4	1	1	10	12	9	6	6	0	0	0	0	0	0	22	0	7	0
August	8.3	S.	25	S.	0	1	6	5	15	11	14	6	4	0	15	11	5	4	1	0	0	0	1	1	0	29	0	8	0
September	10.1	S.	28	E.	0	4	6	4	11	19	10	1	5	0	12	12	6	4	2	0	0	0	0	0	0	24	0	2	0
October	9.8	NE.	46	NW.	1	7	14	5	8	11	3	7	7	0	18	3	10	6	5	0	0	0	2	0	0	0	0	2	0
November	10.7	NE.	30	NW.	0	13	16	2	6	5	2	6	10	0	16	5	9	6	4	0	0	0	8	0	0	0	1	0	0
December	10.4	SE.	52	NW.	1	4	16	5	20	7	0	2	8	0	10	9	12	8	6	0	0	0	8	1	0	0	3	2	0
Year	10.5	S.	52	NW.	13	49	158	52	127	137	93	45	70	1	160	109	97	77	54	4	4	2	41	3	0	102	29	42	0

SIOUX CITY, IOWA

[H=1,111 ft.; H_b=1,138 ft.; h_t=64 ft.; h_r=57 ft.; h_a=106 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.6	NW.	30	NW.	0	7	4	4	10	4	6	3	24	0	8	7	16	13	8	20	13	0	3	0	27	0	31	0	0
February	10.2	NW.	41	NW.	3	11	6	5	9	4	0	0	23	0	6	9	14	15	13	18	15	0	2	0	24	0	29	0	0
March	11.3	NW.	40	NW.	2	12	4	2	10	6	2	2	24	0	8	10	13	4	2	8	3	0	2	0	3	0	22	2	0
April	11.0	N.	38	W.	2	16	5	4	9	6	3	2	15	0	7	6	17	5	5	5	1	0	2	0	3	0	11	4	0
May	9.8	S.	29	SW.	0	6	10	7	7	13	3	3	13	0	8	13	10	11	11	0	0	0	3	1	0	3	0	8	0
June	9.6	S.	67	NW.	1	8	10	11	13	12	1	0	5	0	9	13	8	7	5	0	0	0	1	0	0	12	0	7	0
July	9.0	S.	36	N.	2	6	11	6	7	24	2	2	4	0	19	11	1	4	2	0	0	0	0	0	0	26	0	6	0
August	9.5	S.	35	NW.	1	7	8	9	11	14	4	1	7	1	12	13	6	6	4	0	0	1	0	0	0	22	0	11	0
September	9.2	S.	35	S.	3	11	5	5	15	14	2	1	5	2	14	8	8	12	6	0	0	0	7	0	0	7	0	4	0
October	9.5	S.	33	S.	2	14	6	2	6	14	3	1	16	0	13	11	7	5	3	2	2	0	4	1	0	0	7	2	0
November	10.4	NW.	40	NW.	3	7	5	3	9	10	3	1	22	0	14	7	9	4	4	6	3	0	1	0	3	0	23	0	0
December	9.5	SE.	27	NW.	0	9	4	1	20	10	2	2	14	0	8	5	18	6	4	9	3	0	11	7	11	0	29	0	0
Year	9.8	NW.	67	NW.	19	114	78	59	126	131	31	18	172	3	126	113	127	92	67	68	40	1	36	9	71	70	152	44	0

SPOKANE, WASH.

[H=1,879 ft.; H_b=1,929 ft.; h_t=101 ft.; h_r=94 ft.; h_a=110 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	5.7	S.	24	S.	0	8	6	7	3	17	12	2	3	4	4	6	21	15	13	16	12	0	13	5	5	0	22	0	0
February	6.4	N.	27	SW.	0	10	13	7	0	12	8	2	3	3	7	4	18	15	8	15	13	0	7	0	22	0	26	0	0
March	8.4	S.	25	SW.	0	2	6	7	2	18	20	2	3	1	3	16	12	5	3	12	3	0	3	0	1	0	19	0	0
April	7.2	S.	22	SW.	0	3	6	12	2	13	14	3	4	3	9	10	11	3	1	0	0	0	0	0	1	0	5	0	0
May	7.7	S.	31	S.	0	2	6	5	1	22	15	4	5	2	12	12	7	8	6	0	0	1	0	0	0	2	0	7	0
June	7.1	S.	21	S.	0	2	9	9	1	21	10	2	5	1	9	10	11	8	6	0	0	0	0	0	0	3	0	4	2
July	6.2	S.	22	SW.	0	3	7	3	2	21	13	9	1	3	23	4	4	4	1	0	0	0	0	0	0	12	0	1	0
August	6.0	S.	19	NW.	0	3	4	8	1	20	14	7	2	3	20	9	2	3	1	0	0	0	0	0	0	5	0	2	1
September	5.3	S.	24	S.	0	5	4	8	0	16	9	9	3	6	17	6	7	7	5	0	0	0	2	0	0	0	0	1	2
October	4.4	S.	18	SW.	0	7	12	10	1	14	3	2	11	2	18	10	3	4	3	1	0	0	5	1	0	0	4	0	4
November	4.2	N.	16	N.	0	24	6	6	0	8	1	7	8	0	12	8	10	1	1	1	0	0	12	5	6	0	30	0	0
December	6.8	S.	24	S.	0	5	5	11	0	27	5	0	8	1	0	5	26	14	8	10	9	0	13	2	8	0	20	0	0
Year	6.3	S.	31	S.	0	74	84	93	13	209	124	49	57	29	134	100	132	87	56	55	37	1	55	13	43	22	126	15	9

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SPRINGFIELD, ILL.

[ϕ=39°48′ N.; λ=89°39′ W.]

Month	Pressure			Temperature								Moisture															
		Extremes		Mean						Extremes		Dew point			Relative humidity			Vapor pressure			Precipitation			Cloudiness			
	Monthly mean	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	Maximum	Minimum	Monthly	Maximum	Minimum	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	8 a. m.	Noon, local time	8 p. m.	Total	Maximum in 24 hours	Total snowfall	8 a. m.	Noon, local time	8 p. m.	Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.38	29.90	28.80	17.9	23.6	22.2	28.1	14.2	21.2	59	−16	14	18	18	85	79	84	0.105	0.117	0.119	1.77	0.58	13.0	7.3	7.2	5.2	6.6
February	29.40	29.73	28.60	15.1	23.9	22.5	28.6	10.8	19.7	66	−9	12	18	19	88	76	84	.096	.117	.126	1.74	1.27	1.6	5.8	4.9	5.3	6.0
March	29.21	29.62	28.77	37.8	50.5	48.6	55.1	35.0	45.0	78	21	32	35	35	81	58	60	.193	.214	.214	3.61	2.75	1.2	5.1	5.8	5.7	5.5
April	29.36	29.72	28.88	42.2	55.9	54.3	60.6	40.1	50.4	89	20	35	35	36	75	49	53	.220	.231	.236	2.20	1.02	.3	5.6	6.1	4.8	5.4
May	29.37	29.74	28.95	61.3	77.0	74.1	80.3	58.0	69.2	90	43	52	52	52	72	45	50	.402	.414	.415	1.88	1.02	.0	4.1	4.6	5.0	4.6
June	29.26	29.56	28.68	66.3	82.1	81.0	87.1	61.3	74.2	103	51	52	54	53	62	40	40	.402	.432	.411	1.14	.77	.0	3.9	4.0	4.2	4.0
July	29.26	29.71	29.00	76.9	93.3	92.3	98.3	74.1	86.2	110	58	62	59	60	62	35	35	.571	.515	.525	1.36	.97	.0	3.8	2.8	3.5	3.3
August	29.29	29.59	29.07	73.5	89.6	87.6	94.1	70.9	82.5	106	60	63	62	62	70	42	45	.580	.576	.580	1.61	.59	.0	3.7	3.6	3.3	3.9
September	29.32	29.72	28.93	65.6	77.8	74.0	82.2	63.3	72.8	98	46	60	61	61	82	59	66	.530	.556	.554	6.06	2.85	.0	5.6	6.8	5.1	6.0
October	29.39	29.83	28.89	50.0	62.7	58.3	65.6	47.5	56.6	83	30	44	46	48	81	56	68	.312	.328	.350	2.54	.84	T	4.8	5.4	4.5	5.4
November	29.48	29.91	29.02	34.1	43.9	41.3	48.5	31.5	40.0	69	15	28	30	30	78	58	64	.164	.175	.179	2.30	2.26	.8	3.3	4.0	3.3	4.1
December	29.48	29.86	28.71	32.4	39.6	36.9	43.2	28.5	35.8	62	6	28	29	29	82	66	72	.163	.171	.167	2.71	1.07	1.1	5.8	5.6	5.4	5.8
Year	29.35	29.91	28.60	47.8	60.0	57.8	64.3	44.6	54.5	110	−16	40	42	42	76	55	60	.312	.320	.323	28.92	2.85	18.0	4.9	5.1	4.6	5.0

SPRINGFIELD, MO.

[ϕ=37°12′ N.; λ=93°18′ W.]

January	28.62	29.20	28.12	23.8	30.7	30.6	36.1	20.0	28.0	68	−6	18	21	20	79	68	66	0.110	0.136	0.125	0.17	0.07	0.6	6.9	6.6	6.2	5.8
February	28.62	29.02	28.00	22.5	29.5	30.9	37.0	18.1	27.6	74	−8	17	19	21	78	66	67	.118	.124	.135	1.01	.64	2.3	6.1	5.7	4.6	4.3
March	28.48	28.81	28.11	42.9	56.5	56.1	62.2	39.6	50.9	78	27	33	35	34	68	45	45	.192	.213	.206	1.29	.74	.0	3.2	4.5	4.3	3.2
April	28.63	28.92	28.11	47.3	59.4	59.8	65.3	43.8	54.6	88	17	37	38	36	70	50	45	.248	.254	.233	2.37	.93	.3	4.9	4.3	3.7	3.7
May	28.64	28.91	28.30	62.6	74.1	74.2	78.2	59.9	69.0	86	48	55	54	54	76	51	51	.439	.424	.422	2.37	.67	.0	4.8	5.1	4.6	3.8
June	28.54	28.80	28.07	70.3	83.5	83.8	88.8	66.5	77.6	101	54	58	57	56	65	43	42	.481	.483	.465	2.05	1.23	.0	2.8	2.0	2.8	1.3
July	28.57	28.90	28.33	76.0	90.9	90.6	95.4	72.9	84.2	106	60	64	59	57	68	35	34	.616	.507	.486	1.11	.42	.0	2.7	2.5	3.9	2.1
August	28.59	28.80	28.43	75.9	89.7	90.4	95.1	73.8	84.4	105	63	61	58	57	61	38	35	.542	.499	.476	.78	.30	.0	3.7	4.2	4.1	3.3
September	28.59	28.88	28.21	67.3	78.9	76.4	83.2	65.3	74.2	97	48	61	61	59	81	57	60	.546	.540	.517	7.29	2.37	.0	6.1	6.2	6.1	5.2
October	28.67	29.03	28.37	50.8	61.1	58.9	65.2	48.6	56.9	80	33	46	48	47	83	62	68	.317	.326	.339	5.27	1.66	T	4.6	5.7	4.7	4.7
November	28.77	29.05	28.27	37.2	48.1	46.4	52.8	33.3	43.0	75	22	29	29	30	72	48	53	.174	.174	.181	1.38	1.38	T	3.0	2.7	2.2	2.8
December	28.70	28.98	28.03	37.1	43.4	42.5	48.9	33.9	41.4	63	14	32	33	33	80	68	71	.190	.199	.200	2.60	.95	2.7	6.3	5.8	4.8	5.5
Year	28.62	29.20	28.00	51.1	62.2	61.7	67.4	48.0	57.6	106	−8	43	43	42	73	53	53	.331	.323	.315	27.69	2.37	5.9	4.6	4.6	4.3	3.8

SYRACUSE, N. Y.

[ϕ=43°03′ N.; λ=76°09′ W.]

January	29.33	29.93	28.57	21.5	25.4	----	29.0	17.6	23.3	44	0	16	18	---	78	72	---	0.096	0.103	----	3.18	0.63	26.4	9.4	8.7	----	8.8
February	29.45	29.92	28.61	17.6	22.4	----	26.4	12.1	19.2	53	−1	12	12	---	76	62	---	.079	.080	----	1.90	.58	15.5	8.2	6.6	----	7.0
March	29.25	29.76	28.52	35.6	41.8	----	46.7	31.3	39.0	68	7	28	28	---	75	61	---	.164	.165	----	5.97	1.26	8.8	6.9	7.8	----	7.7
April	29.34	29.82	28.68	40.9	46.5	----	51.0	36.0	43.5	82	24	32	31	---	70	57	---	.192	.188	----	2.85	.45	3.5	8.5	8.2	----	8.5
May	29.40	29.99	28.90	59.3	66.9	----	71.5	50.6	61.0	89	32	45	45	---	61	47	---	.324	.321	----	1.63	.69	.0	5.6	6.2	----	5.7
June	29.29	29.66	28.84	65.8	73.1	----	78.5	57.9	68.2	91	47	51	50	---	61	46	---	.393	.379	----	.57	.23	.0	5.9	6.1	----	6.0
July	29.27	29.70	29.02	70.9	79.7	----	83.7	62.3	73.0	102	48	56	51	---	60	38	---	.455	.389	----	.67	.44	.0	3.8	5.0	----	4.5
August	29.38	29.74	29.02	67.1	76.8	----	82.4	60.4	71.4	95	50	56	53	---	68	46	---	.453	.422	----	2.44	.56	.0	5.4	6.1	----	6.1
September	29.45	29.75	28.96	60.4	70.3	----	74.1	54.4	64.2	91	36	52	52	---	73	54	---	.402	.408	----	3.01	.70	.0	5.7	6.3	----	5.8
October	29.41	29.91	28.59	49.7	55.6	----	61.5	44.9	53.2	80	23	42	41	---	74	61	---	.283	.284	----	3.44	1.14	T	6.9	6.9	----	6.7
November	29.37	30.02	28.74	34.5	37.8	----	43.6	28.9	36.2	72	8	26	27	---	71	66	---	.154	.162	----	3.80	1.51	14.3	8.6	7.5	----	8.3
December	29.57	30.05	28.58	31.2	35.3	----	41.2	25.3	33.2	62	1	24	25	---	74	66	---	.137	.139	----	1.89	.94	10.8	8.5	7.8	----	7.6
Year	29.38	30.05	28.52	46.2	52.6	----	57.5	40.1	48.8	102	−1	37	36	---	70	56	---	.261	.253	----	31.35	1.51	79.3	7.0	6.9	----	6.9

TAMPA, FLA.

[ϕ=27°57′ N.; λ=82°27′ W.]

January	30.04	30.35	29.68	56.5	66.6	62.4	70.0	53.6	61.8	83	35	53	54	54	89	67	75	0.438	0.458	0.450	3.45	1.32	0.0	5.7	5.6	5.2	5.9
February	30.02	30.37	29.67	54.0	65.8	62.1	70.3	51.7	61.0	78	32	50	53	53	87	65	74	.384	.419	.423	7.43	2.96	.0	5.4	4.8	4.7	5.2
March	29.94	30.16	29.56	61.8	71.2	66.5	74.0	59.6	66.8	84	48	56	55	57	83	59	72	.478	.465	.488	2.53	1.03	.0	6.5	5.7	5.6	5.9
April	30.04	30.30	29.77	66.6	77.8	72.5	81.2	62.9	72.0	87	47	59	56	61	78	49	67	.529	.483	.547	.93	.86	.0	2.9	3.4	2.8	3.4
May	29.94	30.12	29.63	72.5	82.7	77.6	86.2	68.3	77.2	91	64	66	63	66	81	52	67	.645	.580	.635	3.61	1.39	.0	2.8	4.3	3.3	4.2
June	29.89	30.10	29.67	76.0	85.1	79.7	88.3	71.6	80.0	92	68	71	67	69	84	57	71	.751	.676	.703	4.69	1.11	.0	4.4	4.0	4.2	4.3
July	30.00	30.14	29.82	79.1	86.3	81.7	90.0	74.8	82.4	94	68	74	70	72	83	60	73	.827	.740	.784	8.85	3.53	.0	4.7	6.1	7.2	6.1
August	29.98	30.13	29.84	78.0	87.4	80.9	90.4	74.0	82.2	94	70	74	70	73	88	58	77	.837	.745	.807	7.59	3.01	.0	2.1	5.1	6.2	4.7
September	29.96	30.08	29.81	77.2	86.9	79.5	89.8	73.1	81.4	93	70	73	70	72	86	58	79	.802	.737	.787	4.08	1.98	.0	3.6	5.0	6.2	5.2
October	29.96	30.16	29.79	72.4	82.6	76.5	85.1	69.7	77.4	89	58	68	67	68	86	61	76	.698	.673	.703	2.67	1.60	.0	4.1	5.1	3.1	4.5
November	30.07	30.37	29.89	59.7	72.3	66.1	75.3	57.7	66.5	86	33	54	56	58	80	59	77	.458	.490	.514	.70	.52	.0	4.1	4.8	3.0	4.4
December	30.08	30.35	29.85	58.6	69.7	64.6	73.0	56.7	64.8	83	43	56	59	58	98	70	82	.466	.510	.504	2.22	1.06	.0	5.1	6.5	5.2	6.0
Year	29.99	30.37	29.56	67.7	77.9	72.5	81.1	64.5	72.8	94	32	63	62	63	85	60	74	.609	.581	.612	49.35	3.53	.0	4.3	5.0	4.7	5.0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

SPRINGFIELD, ILL.

[H=598 ft.; H_b=636 ft.; h_t=5 ft.; h_r=3 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 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	11.7	W.	36	NW.	1	4	3	7	6	10	3	20	9	0	8	5	18	14	11	16	11	0	8	2	14	0	27	0	0
February	12.3	W.	35	W.	2	8	7	7	9	7	2	12	6	0	10	5	14	9	6	10	5	0	6	1	15	0	25	2	0
March	13.2	W.	44	NW.	1	13	1	13	5	4	3	18	5	0	9	11	11	8	7	5	3	0	1	0	0	0	10	3	0
April	12.4	E.	35	NW.	4	7	5	12	7	9	1	8	11	0	12	7	11	10	7	5	4	1	6	0	1	0	9	3	0
May	11.1	S.	28	W.	0	7	5	11	5	18	5	7	4	0	14	9	8	9	6	0	0	1	1	1	0	0	0	7	0
June	10.8	N.	38	NW.	1	15	7	3	8	9	7	7	4	0	16	8	6	7	6	0	0	1	0	0	0	11	0	6	2
July	9.6	W.	32	NE.	1	8	13	8	2	7	5	11	8	0	17	11	3	7	6	0	0	0	0	0	0	25	0	9	0
August	10.5	S.	44	NW.	1	5	8	14	6	16	6	5	2	0	16	13	2	7	6	0	0	0	2	0	0	21	0	7	0
September	10.5	S.	29	NW.	0	4	12	10	7	16	5	1	5	0	8	12	10	10	9	0	0	0	3	0	0	11	0	5	0
October	10.9	S.	28	N.	0	8	5	3	4	20	11	3	8	0	11	5	15	11	7	1	0	0	7	2	0	0	2	4	0
November	12.1	NW.	34	NW.	1	7	5	1	4	10	9	12	12	0	15	8	7	2	2	5	1	0	3	1	1	0	19	1	0
December	11.9	S.	35	S.	1	7	5	5	9	16	9	4	7	0	12	6	13	7	7	4	2	0	4	2	2	0	21	0	0
Year	11.4	S.	44	NW.	13	93	76	94	72	142	66	108	81	0	148	100	118	101	80	46	26	3	41	9	33	68	113	47	2

SPRINGFIELD, MO.

[H=1,301 ft.; H_b=1,324 ft.; h_t=98 ft.; h_r=66 ft.; h_a=104 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.0	NW.	28	SW.	0	9	3	8	6	9	5	9	13	0	8	10	13	7	1	12	3	0	11	0	12	0	28	0	0
February	10.8	SE.	34	W.	1	8	6	6	12	6	3	6	11	0	15	5	9	8	6	7	5	0	8	3	13	0	23	1	0
March	11.9	S.	32	S.	1	3	4	6	12	11	4	8	12	2	19	8	4	5	3	0	0	1	0	0	0	0	6	3	0
April	11.1	SE.	32	S.	1	8	6	4	12	11	3	4	10	2	19	4	7	9	6	4	2	1	5	0	1	0	6	2	0
May	9.1	S.	26	SW.	0	8	3	4	21	17	4	1	4	0	13	14	4	10	10	0	0	0	3	1	0	0	0	10	0
June	9.5	S.	37	NW.	2	6	8	9	7	14	9	4	2	1	26	4	0	7	6	0	0	1	0	0	0	16	0	7	0
July	8.4	S.	40	SW.	1	5	4	7	9	22	11	3	1	0	25	6	0	6	5	0	0	1	0	0	0	25	0	6	0
August	9.3	S.	24	NW.	0	7	3	6	12	20	10	2	1	1	17	12	2	8	6	0	0	0	1	0	0	24	0	4	0
September	9.5	S.	28	SW.	0	5	9	2	17	15	3	4	3	2	9	13	8	14	12	0	0	0	7	0	0	13	0	10	0
October	9.6	S.	26	W.	0	7	6	3	17	11	3	8	7	0	14	6	11	10	6	1	0	0	9	1	0	0	0	4	0
November	10.0	NW.	30	NW.	0	1	4	4	6	11	7	9	17	1	21	5	4	1	1	1	0	0	2	0	0	0	12	1	0
December	10.5	SE.	30	SE.	0	4	6	2	26	14	1	2	7	0	11	8	12	10	8	5	3	0	10	5	0	0	14	0	0
Year	10.1	S.	40	SW.	6	71	62	61	157	161	63	60	88	9	197	95	74	95	70	30	13	4	56	10	26	78	89	48	0

SYRACUSE, N. Y.

[H=400 ft.; H_b=596 ft.; h_t=65 ft.; h_r=57 ft.; h_a=79 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.4	W.	25	W.	0	3	1	12	5	11	6	15	9	0	2	4	25	21	17	24	17	0	1	0	14	0	27	0	0
February	8.9	SW.	24	S.	0	2	1	12	2	8	13	15	5	0	5	8	16	16	10	23	14	0	0	0	20	0	27	0	0
March	7.8	W.	26	W.	0	2	1	13	7	9	8	17	5	0	4	6	21	22	20	14	9	0	10	3	3	0	13	0	0
April	8.4	W.	25	SW.	0	3	0	9	4	12	7	18	7	0	1	5	24	22	16	9	6	0	3	0	0	0	13	2	1
May	7.9	W.	22	SW.	0	2	1	6	5	4	14	23	7	0	8	13	10	13	8	0	0	1	1	1	0	0	1	5	0
June	7.2	S.	21	W.	0	3	1	3	7	14	5	16	11	0	8	13	9	10	5	0	0	0	1	0	0	1	0	2	0
July	7.1	NW.	23	NW.	0	10	0	6	0	6	1	22	17	0	12	14	5	5	4	0	0	0	0	0	0	6	0	5	0
August	6.4	S.	24	N.	0	4	0	11	6	15	3	11	12	0	6	15	10	14	8	0	0	0	2	0	0	5	0	4	0
September	7.0	S.	21	NW.	0	3	3	12	9	14	3	7	8	1	8	11	11	13	10	0	0	0	6	2	0	2	0	3	0
October	8.0	S.	26	W.	0	6	1	7	3	25	11	8	1	0	7	8	16	16	12	4	0	0	4	0	0	0	4	1	0
November	8.6	S.	24	NW.	0	4	1	2	7	16	10	15	5	0	3	4	23	21	14	18	14	0	2	0	6	0	19	1	0
December	8.3	S.	27	S.	0	3	0	14	7	17	4	11	6	0	5	5	21	15	9	11	7	0	9	0	7	0	21	0	0
Year	7.8	S.	27	S.	0	45	10	107	62	151	85	178	93	1	69	106	191	188	133	103	67	1	39	6	50	14	125	23	1

TAMPA, FLA.

[H=23 ft.; H_b=35 ft.; h_t=88 ft.; h_r=81 ft.; h_a=197 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.9	S.	33	SW.	1	11	8	10	7	10	4	5	6	1	7	11	13	8	8	0	0	0	8	5	0	0	0	4	0
February	12.4	NE.	38	N.	2	8	15	10	9	7	2	3	4	0	10	9	10	12	11	0	0	0	5	1	0	0	1	5	0
March	11.2	S.	34	NW.	1	3	2	12	2	15	7	8	13	0	11	5	15	10	8	0	0	0	3	1	0	0	0	2	0
April	11.6	E.	31	W.	0	9	4	18	5	7	5	0	12	0	18	8	4	2	2	0	0	0	3	1	0	0	0	2	0
May	11.9	E.	42	E.	3	7	8	28	4	3	1	5	6	0	13	15	3	11	10	0	0	0	1	0	0	1	0	7	0
June	9.8	E.	32	E.	1	5	7	20	12	3	2	8	3	0	13	11	6	14	10	0	0	0	1	0	0	9	0	9	0
July	9.9	W.	43	S.	4	4	5	11	10	5	5	16	6	0	6	14	11	16	11	0	0	0	0	0	0	18	0	16	0
August	9.4	E.	40	NE.	2	7	6	29	9	4	0	1	6	0	11	17	3	17	14	0	0	0	0	0	0	22	0	12	0
September	9.2	E.	32	E.	1	4	11	19	7	7	2	6	4	0	3	23	4	14	12	0	0	0	1	0	0	16	0	18	0
October	10.7	NE.	30	SW.	0	14	24	10	5	4	0	1	4	0	13	11	7	8	7	0	0	0	0	0	0	0	0	7	0
November	11.5	NE.	36	NW.	1	21	19	13	0	1	0	3	3	0	14	10	6	3	3	0	0	0	5	0	0	0	0	0	0
December	11.1	NE.	24	E.	0	11	17	13	5	6	2	4	4	0	8	11	12	8	8	0	0	0	7	5	0	0	0	0	0
Year	10.8	E.	43	S.	16	104	126	193	75	72	30	60	71	1	127	145	94	123	104	0	0	1	33	13	0	66	1	82	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

TATOOSH ISLAND, WASH.

[ϕ=48°23′ N.; λ=124°44′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.80	30.34	28.91	43.9	45.5	45.0	47.5	42.3	44.9	51	37	39	38	38	84	77	79	0.244	0.236	0.236	10.94	2.29	0.0	8.5	7.0	8.1	7.8
February	29.78	30.37	29.00	36.1	38.1	37.9	40.0	33.7	36.8	48	21	29	27	28	75	66	67	.166	.158	.159	6.36	2.06	4.6	7.4	7.1	6.8	7.9
March	29.96	30.37	29.57	41.1	43.9	43.3	45.3	38.4	41.8	52	30	37	34	35	84	71	74	.223	.206	.209	7.67	1.45	1.2	7.3	7.4	7.2	7.7
April	30.00	30.52	29.61	46.2	49.6	49.1	52.1	44.8	48.4	61	34	42	43	43	87	79	81	.276	.281	.284	3.98	2.03	T	8.6	6.4	7.3	8.0
May	29.92	30.45	29.42	50.4	53.5	53.2	55.8	48.9	52.4	70	44	47	48	48	89	82	83	.324	.335	.335	4.33	.97	.0	8.1	8.1	7.5	8.7
June	29.88	30.16	29.45	54.9	59.4	58.9	61.6	53.8	57.7	66	51	52	54	53	91	81	81	.392	.410	.403	5.93	1.44	.0	7.4	6.4	6.2	6.9
July	29.95	30.14	29.59	56.2	60.3	60.3	62.7	54.8	58.8	68	51	53	55	55	91	82	82	.408	.431	.430	2.74	.72	.0	6.3	4.8	4.1	5.0
August	29.96	30.09	29.58	55.3	58.9	59.1	61.6	53.3	57.4	68	49	53	55	56	94	88	88	.409	.434	.441	2.52	2.24	.0	6.6	6.2	5.5	7.0
September	29.98	30.37	29.55	50.9	54.0	53.9	56.7	49.0	52.8	66	46	49	50	50	92	86	87	.344	.357	.360	1.45	.95	.0	4.0	5.3	4.7	7.1
October	30.04	30.40	29.64	50.3	52.8	52.0	55.2	47.9	51.6	66	40	48	48	48	92	86	89	.335	.342	.344	3.54	1.76	.0	4.7	5.5	4.8	6.4
November	30.18	30.48	29.83	46.4	48.5	47.7	50.8	43.8	47.3	68	37	42	42	42	86	81	82	.272	.275	.272	2.85	1.09	.0	4.7	5.1	5.2	6.0
December	29.84	30.49	29.32	44.7	46.0	44.9	48.0	42.0	45.0	53	33	41	40	40	86	81	83	.258	.255	.250	11.05	2.52	T	8.3	6.8	7.1	7.7
Year	29.94	30.52	28.91	48.0	50.9	50.4	53.1	46.1	49.6	70	21	44	44	45	88	80	81	.304	.310	.310	63.36	2.52	5.8	6.8	6.3	6.2	7.2

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.42	29.97	28.89	19.9	25.9	25.1	31.0	16.2	23.6	60	−15	17	18	18	86	72	74	0.111	0.116	0.115	1.43	0.28	7.8	7.1	6.6	6.1	6.4
February	29.46	29.79	28.69	19.4	27.1	26.6	33.0	14.2	23.6	63	−9	15	18	19	81	68	73	.105	.121	.121	3.87	1.55	5.9	6.9	5.7	5.7	6.1
March	29.26	29.68	28.84	40.0	51.0	48.8	56.8	36.2	46.5	74	20	33	34	34	75	54	59	.194	.209	.207	2.81	.99	4.9	5.5	5.9	5.6	5.5
April	29.41	29.83	28.88	43.0	54.4	53.6	60.1	40.2	50.2	82	24	34	34	37	71	50	56	.211	.219	.243	3.86	1.31	1.0	5.4	6.4	5.7	5.8
May	29.44	29.77	29.05	62.5	76.5	72.8	80.3	57.3	68.8	90	42	51	56	54	67	50	53	.392	.465	.429	1.59	.66	.0	4.3	4.6	4.1	4.0
June	29.30	29.61	28.80	67.0	83.3	81.9	87.9	60.8	74.4	103	52	52	52	52	59	35	38	.394	.401	.408	1.05	.42	.0	3.2	4.0	3.2	3.7
July	29.31	29.75	29.05	76.7	92.1	90.3	97.5	73.2	85.4	110	57	63	61	60	64	38	39	.594	.553	.537	4.51	3.37	.0	4.8	3.9	4.5	4.4
August	29.36	29.66	29.14	73.9	89.2	87.3	94.0	70.5	82.2	104	57	63	63	62	70	43	45	.590	.581	.569	2.26	1.20	.0	3.2	3.8	2.7	2.8
September	29.39	29.75	29.04	65.7	78.9	75.0	82.4	62.6	72.5	98	45	59	60	60	80	56	61	.514	.544	.526	5.00	1.70	.0	5.6	5.6	5.3	5.2
October	29.45	29.84	28.97	49.8	62.0	58.5	66.5	47.4	57.0	82	28	45	46	48	85	59	69	.321	.338	.352	5.91	1.50	.0	5.4	5.9	4.0	5.4
November	29.52	29.95	29.11	34.9	44.0	41.5	49.1	32.0	40.6	71	21	30	29	31	81	57	65	.175	.175	.184	3.96	3.90	T	4.3	5.2	3.0	4.7
December	29.55	29.96	28.88	33.3	40.6	38.4	44.5	28.7	36.6	63	9	29	32	32	82	72	76	.169	.193	.185	3.44	1.65	5.6	5.5	6.0	4.5	5.9
Year	29.40	29.97	28.69	48.8	60.4	58.3	65.3	44.9	55.1	110	−15	41	42	42	75	54	59	.314	.326	.323	39.69	3.90	25.2	5.1	5.3	4.5	5.0

TOLEDO, OHIO

[ϕ=41°40′ N.; λ=83°34′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.32	29.88	28.70	18.3	23.1	22.7	27.3	14.5	20.9	48	−12	14	18	18	83	78	80	0.093	0.105	0.109	1.40	0.29	8.4	7.6	7.8	7.7	8.0
February	29.38	29.77	28.38	14.0	18.9	20.2	25.8	9.7	17.8	51	−9	9	12	14	80	74	76	.082	.087	.094	2.76	1.18	8.7	6.5	6.2	6.3	6.2
March	29.20	29.68	28.66	34.3	43.0	40.7	47.9	30.7	39.3	68	12	28	30	30	76	60	67	.158	.174	.174	1.90	.47	1.9	6.5	5.4	5.7	5.7
April	29.35	29.77	28.75	38.9	46.2	46.5	51.5	36.3	43.9	76	23	32	31	35	76	57	65	.194	.190	.221	1.75	.48	2.1	7.0	7.6	6.6	6.9
May	29.39	29.87	28.88	58.2	69.3	67.7	74.1	53.2	63.6	90	37	48	46	48	68	47	51	.345	.334	.350	2.00	.98	.0	4.0	5.0	4.4	4.1
June	29.27	29.64	28.69	63.3	73.5	72.4	78.4	57.8	68.1	93	48	51	52	53	66	49	53	.389	.398	.416	2.31	.87	.0	4.9	4.8	4.1	4.5
July	29.29	29.72	28.95	71.0	82.5	81.3	86.6	65.4	76.0	105	52	58	55	58	65	41	46	.493	.451	.490	3.26	2.22	.0	2.9	3.4	3.5	3.3
August	29.34	29.70	29.07	69.5	79.9	78.0	84.5	65.4	75.0	101	54	60	60	60	74	53	56	.535	.526	.531	1.62	.64	.0	4.8	4.4	4.1	3.8
September	29.39	29.77	29.02	61.9	73.3	70.1	76.9	58.7	67.8	92	39	56	58	58	81	60	67	.466	.493	.494	6.70	3.17	.0	4.2	4.9	4.7	4.8
October	29.40	29.84	28.79	46.7	57.2	54.8	61.3	44.4	52.8	78	26	42	44	44	82	62	68	.280	.307	.315	2.17	.60	T	5.6	5.5	6.1	5.5
November	29.41	30.00	28.83	33.5	38.9	37.8	43.6	29.9	36.8	65	13	27	29	29	76	67	69	.160	.168	.169	1.28	.96	1.1	6.3	6.6	6.3	6.7
December	29.50	29.91	28.89	30.8	36.6	35.4	40.5	26.8	33.6	60	10	26	28	28	79	71	73	.145	.165	.160	2.82	1.43	5.0	6.7	6.3	5.2	6.3
Year	29.35	30.00	28.38	45.0	53.5	52.3	58.2	41.1	49.6	105	−12	38	39	40	76	60	64	.278	.283	.294	29.97	3.17	27.2	5.6	5.7	5.4	5.5

TOPEKA, KANS.

[ϕ=39°03′ N.; λ=95°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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	----	----	----	16.6	----	----	29.6	12.9	21.2	56	−6	----	----	----	----	----	----	----	----	----	1.73	1.16	13.2	----	----	----	5.5
February	----	----	----	11.7	----	----	29.1	9.7	19.4	76	−9	----	----	----	----	----	----	----	----	----	.42	.30	4.6	----	----	----	4.8
March	----	----	----	38.2	----	----	62.8	35.1	49.0	81	19	----	----	----	----	----	----	----	----	----	.25	.20	T	----	----	----	3.6
April	----	----	----	44.7	----	----	67.5	41.2	54.4	91	16	----	----	----	----	----	----	----	----	----	3.02	1.29	1.5	----	----	----	3.8
May	----	----	----	62.5	----	----	80.7	58.9	69.8	92	46	----	----	----	----	----	----	----	----	----	4.79	1.26	.0	----	----	----	4.5
June	----	----	----	70.1	----	----	92.3	64.4	78.4	109	50	----	----	----	----	----	----	----	----	----	.92	.84	.0	----	----	----	2.3
July	----	----	----	79.0	----	----	102.5	74.2	88.4	114	60	----	----	----	----	----	----	----	----	----	1.11	1.11	.0	----	----	----	2.2
August	----	----	----	76.3	----	----	101.2	73.7	87.4	113	60	----	----	----	----	----	----	----	----	----	.57	.43	.0	----	----	----	3.1
September	----	----	----	65.8	----	----	83.7	62.7	73.2	105	49	----	----	----	----	----	----	----	----	----	7.32	2.21	.0	----	----	----	5.3
October	----	----	----	49.0	----	----	66.2	45.9	56.0	85	28	----	----	----	----	----	----	----	----	0.328	.86	.59	.0	----	----	----	4.2
November	----	----	----	34.3	----	----	56.0	30.2	43.1	78	16	----	----	----	----	----	----	----	----	.157	.09	.09	T	----	----	----	2.1
December	----	----	----	33.4	----	----	46.9	28.8	37.8	66	8	----	----	----	----	----	----	----	----	.199	1.55	.73	1.2	----	----	----	5.9
Year	----	----	----	48.5	----	----	68.2	44.8	56.5	114	−9	----	----	----	----	----	----	----	----	----	22.63	2.21	20.5	----	----	----	3.9

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

TATOOSH ISLAND, WASH.

[H=101 ft.; H_b=86 ft.; h_t=10 ft.; h_r=3 ft.; h_a=54 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	5.0 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		Mi.																										
January	18.7	E.	52	E.	16	0	1	31	1	9	6	10	4	0	4	4	23	24	19	0	0	0	2	0	0	0	0	1	0
February	21.0	E.	58	E.	18	0	0	36	3	8	3	5	3	0	1	8	20	15	13	8	4	0	2	3	2	0	11	0	0
March	15.9	W.	45	W.	16	4	4	13	0	14	8	13	6	0	3	9	19	22	19	4	3	0	4	4	0	0	2	0	0
April	11.4	S.	40	E.	3	2	4	10	0	21	12	10	1	0	3	6	21	15	12	1	0	0	4	5	0	0	0	0	0
May	12.5	S.	40	S.	9	3	4	8	4	18	7	12	6	0	0	5	26	16	14	0	0	1	1	3	0	0	0	0	0
June	10.1	S.	45	S.	2	1	3	10	3	15	12	11	5	0	4	10	16	16	14	0	0	0	1	1	0	0	0	1	0
July	8.2	SW.	33	S.	1	0	2	6	3	16	22	11	2	0	14	8	9	11	9	0	0	0	6	4	0	0	0	0	0
August	9.4	S.	34	E.	1	0	1	11	0	22	19	5	1	0	3	12	16	4	3	0	0	0	13	15	0	0	0	0	0
September	9.7	S.	34	E.	3	0	9	10	1	19	15	5	1	0	6	5	19	6	6	0	0	0	10	15	0	0	0	0	0
October	11.7	E.	42	E.	3	1	8	24	1	15	6	5	2	0	9	6	16	7	5	0	0	0	9	15	0	0	0	0	0
November	16.3	E.	47	E.	9	0	3	44	2	6	4	0	0	1	9	6	15	9	8	0	0	0	3	6	0	0	0	0	0
December	16.1	E.	59	S.	17	0	4	19	3	15	10	8	3	0	3	7	21	28	26	1	0	0	0	0	0	0	0	1	0
Year	13.4	E.	59	S.	98	11	43	222	21	178	124	98	34	1	59	86	221	173	148	14	7	1	55	71	2	0	13	3	0

TERRE HAUTE, IND.

[H=503 ft.; H_b=575 ft.; h_t=63 ft.; h_r=61 ft.; h_a=149 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	5.0 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.0	W.	35	NW.	1	5	5	5	9	5	9	12	12	0	8	8	15	15	10	11	6	0	5	0	12	0	26	0	0
February	10.4	NE.	30	W.	0	4	12	3	10	4	8	9	8	0	10	4	15	10	7	13	5	0	4	2	13	0	24	2	0
March	11.0	SW.	37	W.	1	8	4	6	11	7	8	8	10	0	10	12	9	11	7	3	2	0	1	0	0	0	9	4	0
April	10.7	SE.	31	NW.	0	6	12	5	11	5	7	4	10	0	10	7	13	11	8	4	2	1	2	1	0	0	8	3	0
May	9.0	SW.	30	N.	0	8	8	5	11	10	13	1	6	0	17	6	8	8	7	0	0	0	0	0	0	1	0	9	0
June	9.9	NE.	28	SW.	0	10	14	7	7	3	10	5	4	0	15	12	3	6	5	0	0	1	0	0	0	15	0	7	0
July	8.3	SW.	30	N.	0	10	8	7	4	7	17	3	6	0	12	15	4	6	4	0	0	2	0	0	0	23	0	8	0
August	8.5	SW.	58	W.	2	3	8	4	8	16	14	3	6	0	19	11	1	8	5	0	0	0	1	0	0	23	0	7	0
September	9.0	SW.	26	N.	0	4	12	9	5	15	11	0	2	2	12	9	9	11	10	0	0	0	3	0	0	12	0	3	0
October	8.9	S.	29	N.	0	8	8	1	12	18	8	1	5	1	12	7	12	13	10	0	0	0	7	1	0	0	3	4	0
November	10.5	SW.	27	SW.	0	8	5	4	1	12	12	7	11	0	14	5	11	4	2	3	1	0	1	0	2	0	20	1	0
December	9.7	S.	37	SW.	1	5	5	5	8	21	7	4	7	0	9	8	14	10	9	3	2	0	4	3	3	0	20	1	0
Year	9.7	SW.	58	W.	5	79	101	61	97	123	124	57	87	3	148	104	114	113	84	37	18	4	28	7	30	74	110	49	0

TOLEDO, OHIO

[H=589 ft.; H_b=628 ft.; h_t=79 ft.; h_r=72 ft.; h_a=87 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	5.0 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.5	W.	30	W.	0	4	5	8	1	4	7	30	3	0	4	3	24	15	7	20	11	0	8	0	17	0	30	1	0
February	11.4	W.	40	W.	3	5	6	10	4	2	6	22	4	0	6	11	12	10	6	17	9	0	8	1	18	0	27	1	0
March	10.7	W.	31	SW.	0	8	5	12	5	5	6	15	7	0	7	16	8	12	9	8	5	0	12	1	2	0	19	4	0
April	10.3	W.	33	NW.	2	5	3	11	6	6	4	14	11	0	5	9	16	15	11	9	6	0	8	1	1	0	10	3	0
May	9.1	W.	30	NW.	0	9	0	9	5	4	6	21	8	0	13	12	6	5	4	0	0	1	1	1	0	1	0	5	0
June	8.7	N.	35	NW.	1	14	8	8	7	3	6	8	6	0	11	14	5	8	5	0	0	0	0	0	0	2	0	10	0
July	7.6	N.	26	W.	0	12	9	11	9	4	3	7	7	0	17	11	3	5	4	0	0	0	0	0	0	10	0	7	0
August	8.2	W.	29	W.	0	7	4	15	7	4	8	12	5	0	16	10	5	7	5	0	0	0	0	0	0	11	0	5	0
September	8.5	E.	28	N.	0	13	4	13	4	6	10	7	3	0	11	11	8	11	8	0	0	0	7	3	0	3	0	5	0
October	9.2	SW.	28	W.	0	7	4	5	5	13	10	9	9	0	10	10	11	10	8	1	0	0	7	2	0	0	3	3	0
November	10.9	W.	30	W.	0	9	2	4	1	6	15	15	8	0	7	6	17	8	5	9	3	0	4	2	4	0	18	2	0
December	9.9	SW.	27	W.	0	5	3	9	5	9	14	10	7	0	11	4	16	11	11	7	6	0	8	3	6	0	25	1	0
Year	9.7	W.	40	W.	6	98	53	115	59	66	93	170	78	0	118	117	131	117	83	71	40	1	63	14	48	27	132	47	0

TOPEKA, KANS.*

[H=926 ft.; H_b=987 ft.; h_t=65 ft.; h_r=61 ft.; h_a=87 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	5.0 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.7	NW.	23	NW.	0	3	2	4	2	5	2	2	11	0	11	7	13	6	6	13	6	0	0	0	17	0	30	0	0
February	9.8	NW.	29	NW.	0	4	6	3	3	2	1	5	5	0	10	13	6	8	1	12	7	0	1	0	19	0	25	0	0
March	11.2	W.	32	S.	1	2	2	4	2	8	2	7	4	0	17	11	3	2	2	2	0	0	1	0	0	0	10	0	0
April	10.6	N.	29	SW.	0	2	4	3	3	6	4	3	5	0	17	8	5	8	5	3	1	1	2	0	1	2	6	7	0
May	8.7	S.	31	NW.	0	2	3	3	4	6	6	4	3	0	13	12	6	12	9	0	0	1	1	0	0	3	0	6	0
June	9.4	S.	25	SW.	0	5	2	6	4	5	6	1	1	0	22	6	2	4	2	0	0	0	0	0	0	17	0	4	0
July	8.9	S.	40	NW.	2	3	2	4	2	5	11	3	1	0	22	9	0	1	1	0	0	0	0	0	0	30	0	1	0
August	8.8	S.	25	NW.	0	1	4	3	4	13	1	4	1	0	20	6	5	5	3	0	0	0	0	0	0	27	0	5	0
September	8.7	S.	23	SW.	0	3	3	5	6	9	1	0	2	1	11	10	9	15	14	0	0	0	9	0	0	12	0	10	0
October	9.5	S.	27	SW.	0	12	2	1	5	19	9	9	5	0	16	8	7	5	3	0	0	0	4	0	0	0	4	3	0
November	9.7	NW.	30	N.	0	10	1	3	2	11	9	7	15	2	20	7	3	1	1	2	0	0	5	0	0	0	19	1	0
December	9.8	S.	28	SW.	0	7	7	3	7	19	9	4	6	0	10	11	10	6	4	5	1	0	15	0	2	0	24	1	0
Year	9.5	S.	40	NW.	3	54	38	42	44	108	61	49	59	3	189	108	69	73	51	37	15	2	38	0	39	91	118	38	0

*Wind direction frequency at Topeka, Kans.; for 8 a. m. only, January through September; October–December, 8 a. m. and 8 p. m.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.80	30.33	28.85	24.3	29.7	29.2	34.6	21.0	27.8	53	−3	19	20	22	79	66	72	0.115	0.121	0.128	6.00	2.03	3.9	5.8	6.1	4.6	5.7
February	29.90	30.33	29.18	21.5	27.5	27.5	32.0	17.7	24.8	51	2	16	18	18	78	66	68	.097	.106	.110	2.20	.78	9.1	6.2	6.2	4.7	5.9
March	29.69	30.18	28.85	42.4	50.8	46.6	55.7	37.0	46.4	75	19	37	37	37	80	62	72	.233	.243	.239	3.78	1.13	T	7.0	6.9	5.7	6.9
April	29.83	30.34	29.23	44.8	52.7	50.0	57.9	39.3	48.6	84	30	35	34	37	68	52	62	.214	.215	.230	2.11	.96	.0	6.2	6.6	5.9	6.3
May	29.84	30.43	29.39	59.5	69.8	65.3	75.6	52.3	64.0	93	41	47	48	49	66	48	57	.348	.365	.367	3.59	1.80	.0	4.0	4.2	3.5	3.8
June	29.72	30.06	29.33	67.1	74.9	71.0	79.4	60.4	69.9	94	53	57	56	57	72	55	64	.483	.463	.477	2.39	.51	.0	6.2	6.3	5.3	5.9
July	29.68	30.11	29.38	72.4	82.1	76.8	86.6	66.0	76.3	106	60	61	59	62	69	47	62	.546	.506	.563	1.75	.79	.0	4.6	5.2	5.4	5.1
August	29.81	30.15	29.53	70.6	80.9	75.5	84.1	64.6	74.4	95	57	64	62	63	79	55	67	.601	.577	.590	4.11	.99	.0	5.5	5.8	5.6	5.6
September	29.89	30.24	29.45	64.2	72.6	67.9	77.3	58.9	67.6	90	44	58	58	59	80	62	74	.490	.504	.512	4.30	2.38	.0	5.7	6.5	4.2	5.9
October	29.90	30.34	29.01	52.3	62.6	56.3	65.2	47.5	56.4	79	27	46	46	47	81	56	71	.347	.342	.347	2.76	1.92	.0	5.2	5.0	3.8	5.2
November	29.86	30.41	29.21	38.5	46.4	42.0	49.4	33.1	41.2	75	16	30	29	29	70	51	60	.182	.184	.183	.75	.30	.2	4.7	5.5	4.7	4.9
December	30.05	30.53	29.26	34.7	41.3	39.5	45.6	30.2	37.9	61	11	29	30	31	78	65	72	.170	.181	.189	5.44	1.38	1.0	6.6	5.1	5.5	5.6
Year	29.83	30.53	28.85	49.4	57.6	54.0	61.9	44.0	52.9	106	−3	42	41	43	75	57	67	.319	.317	.328	39.18	2.38	14.2	5.6	5.8	4.9	5.6

VALENTINE, NEBR.

[ϕ=42°50′ N.; λ=100°32′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	27.26	27.73	26.73	8.5	18.2	16.4	25.2	1.3	13.2	51	−21	5	10	12	85	73	82	0.062	0.073	0.078	0.98	0.21	13.2	4.9	6.9	6.1	6.7
February	27.27	27.59	26.71	−4.4	8.1	5.6	12.8	−9.2	1.8	52	−32	−6	2	2	91	77	85	.041	.061	.058	.97	.30	20.3	6.2	7.6	6.6	6.9
March	27.17	27.56	26.66	29.0	42.8	40.3	48.1	24.4	36.2	73	4	21	22	23	72	45	54	.112	.118	.125	.95	.39	10.7	5.4	6.6	6.7	6.1
April	27.33	27.74	26.86	34.6	49.1	49.4	54.5	30.1	42.3	83	−8	27	28	29	76	51	52	.160	.159	.165	1.63	.76	3.6	5.5	5.0	6.2	5.6
May	27.29	27.65	26.70	54.4	69.8	69.9	74.9	50.6	62.8	94	35	46	44	44	74	44	43	.319	.307	.302	1.87	.67	.0	5.6	5.0	5.4	5.4
June	27.25	27.61	26.68	63.0	78.4	79.5	84.4	58.0	71.2	104	38	50	49	48	66	38	38	.372	.348	.344	1.91	.53	.0	4.8	3.1	4.2	3.8
July	27.25	27.64	27.00	72.4	93.1	94.8	98.2	69.9	84.0	108	56	51	50	47	49	26	22	.383	.369	.331	.04	.02	.0	2.3	1.7	2.0	2.2
August	27.28	27.55	26.97	65.7	86.3	86.9	91.9	63.7	77.8	107	46	53	51	49	67	33	31	.413	.384	.358	1.65	.60	.0	4.4	2.7	4.3	3.6
September	27.29	27.74	26.91	54.2	73.4	72.3	79.1	51.4	65.2	94	32	44	43	43	69	37	38	.305	.303	.303	1.06	.43	.0	3.3	2.9	2.3	2.7
October	27.35	27.84	26.86	37.9	56.7	53.4	61.8	33.6	47.7	83	9	29	30	29	72	39	42	.161	.167	.161	.35	.25	.9	4.2	5.2	4.9	4.7
November	27.45	27.76	27.01	25.8	39.7	34.4	44.3	21.5	32.9	64	−4	21	25	25	81	58	70	.113	.138	.140	.83	.35	10.4	3.5	5.1	3.3	4.7
December	27.28	27.65	26.87	22.7	32.6	28.7	37.8	16.8	27.3	63	−11	18	21	20	80	65	71	.100	.116	.111	.26	.18	3.9	5.9	7.0	4.9	6.7
Year	27.29	27.84	26.66	38.6	54.0	52.6	59.4	34.3	46.9	108	−32	30	31	31	74	49	52	.212	.212	.206	12.50	.76	63.0	4.7	4.9	4.7	4.9

VICKSBURG, MISS.

[ϕ=32°22′ N.; λ=90°53′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	29.82	30.38	29.38	39.3	48.0	47.5	53.8	36.9	45.4	76	19	34	34	35	83	62	65	0.214	0.214	0.220	3.60	1.44	3.0	5.4	5.1	5.9	6.0
February	29.82	30.17	29.27	39.1	49.0	48.8	55.1	36.4	45.8	79	14	33	34	34	80	60	61	.213	.223	.223	4.93	3.22	T	7.7	7.6	6.6	7.5
March	29.68	29.96	29.39	55.3	67.1	66.7	73.0	52.9	63.0	86	42	46	44	45	71	47	50	.331	.312	.328	2.60	.64	.0	6.1	5.4	4.3	5.6
April	29.80	30.13	29.25	56.1	67.8	67.4	74.1	53.3	63.7	89	38	48	45	47	76	49	51	.366	.338	.352	7.58	4.85	.0	5.6	5.2	5.4	5.2
May	29.77	29.99	29.46	67.5	79.4	75.7	83.1	65.1	74.1	88	58	61	59	61	81	52	62	.549	.510	.540	2.70	1.47	.0	6.2	6.6	6.1	6.2
June	29.67	29.89	29.41	74.0	87.4	86.7	91.7	71.4	81.6	100	61	66	64	66	77	47	52	.652	.605	.652	.87	.55	.0	2.1	2.2	1.7	1.9
July	29.73	29.96	29.55	75.8	84.8	82.6	89.4	72.5	81.0	95	65	72	72	72	87	66	72	.773	.782	.798	5.95	1.72	.0	6.5	6.1	6.0	6.1
August	29.74	29.91	29.49	75.9	88.6	85.6	93.2	73.6	83.4	99	64	70	69	70	84	53	60	.749	.712	.727	.72	.35	.0	4.0	3.5	5.5	3.9
September	29.74	29.88	29.53	72.6	86.6	81.7	90.1	71.3	80.7	95	59	68	67	68	87	53	65	.700	.672	.694	.04	.03	.0	5.3	5.8	4.7	5.8
October	29.82	30.09	29.60	58.2	72.4	68.6	76.6	56.3	66.4	87	44	54	55	55	86	57	64	.433	.450	.451	.160	1.39	.0	4.7	4.5	3.5	4.8
November	29.95	30.25	29.67	46.3	59.5	56.0	64.2	43.9	54.0	84	30	39	39	39	77	50	55	.267	.263	.260	5.23	3.65	.0	6.1	4.9	3.0	4.9
December	29.90	30.22	29.49	46.3	54.8	53.3	59.4	43.4	51.4	72	28	41	41	41	82	64	66	.280	.284	.279	4.15	1.03	.0	6.1	7.1	6.1	7.1
Year	29.79	30.38	29.25	58.9	70.4	68.4	75.3	56.4	65.9	100	14	53	52	53	81	55	60	.461	.447	.460	39.97	4.85	3.0	5.5	5.3	4.9	5.4

WALLA WALLA, WASH.

[ϕ=46°02′ N.; λ=118°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.95	29.50	28.32	36.4	39.5	39.0	42.3	32.7	37.5	55	10	30	30	32	78	72	76	0.166	0.172	0.181	3.21	1.03	6.3	7.8	8.3	8.5	9.0
February	28.94	29.52	28.27	19.5	24.4	24.2	27.3	15.7	21.5	60	−5	14	15	17	78	68	73	.090	.097	.105	2.28	.89	17.4	7.9	8.2	8.9	8.6
March	28.96	29.37	28.44	40.1	48.8	51.2	53.6	36.9	45.2	70	22	30	29	30	66	47	46	.167	.162	.173	.50	.26	3.6	6.4	6.5	6.0	6.4
April	28.96	29.44	28.57	49.7	61.1	66.4	67.9	47.8	57.8	89	19	38	38	35	64	45	35	.232	.233	.213	.74	.39	.8	5.7	6.4	5.7	5.8
May	28.87	29.27	28.33	55.6	71.1	75.7	77.6	53.9	65.8	99	43	42	41	39	61	35	28	.268	.258	.242	.49	.32	.0	5.5	4.1	5.1	4.7
June	28.85	29.15	28.51	59.9	74.3	78.5	81.1	58.4	69.8	103	49	47	47	46	65	41	37	.328	.325	.316	.88	.42	.0	5.2	5.1	5.7	5.4
July	28.85	29.04	28.56	65.1	81.5	88.5	90.0	64.1	77.0	104	55	45	44	42	49	28	21	.300	.290	.273	.04	.02	.0	2.3	1.7	2.0	2.1
August	28.88	29.10	28.65	64.6	80.6	87.0	88.4	62.9	75.6	103	55	44	45	40	48	29	20	.290	.297	.252	.01	.01	.0	2.4	2.1	1.4	2.2
September	28.94	29.24	28.61	55.7	70.2	75.4	77.3	52.5	64.9	90	40	40	41	40	57	37	30	.258	.267	.256	.93	.58	.0	2.3	2.6	2.8	2.7
October	29.03	29.35	28.61	50.3	64.2	66.6	69.9	46.6	58.2	83	33	36	36	37	58	36	34	.215	.220	.226	.03	.03	.0	2.0	2.0	2.7	2.0
November	29.30	29.61	28.86	31.6	40.6	41.0	44.5	27.8	36.2	66	19	24	26	26	73	57	58	.127	.139	.145	.01	.01	.0	2.8	4.4	4.8	4.8
December	28.94	29.48	28.36	39.7	43.4	42.3	46.8	34.2	40.5	64	21	31	32	33	73	67	71	.172	.181	.186	1.12	.64	.8	6.7	9.0	8.6	9.1
Year	28.95	29.61	28.27	47.4	58.3	61.3	63.9	44.5	54.2	104	−5	35	35	35	64	47	44	.218	.220	.214	10.22	1.03	28.9	4.8	5.0	5.2	5.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

TRENTON, N. J.

[H=56 ft.; H_b=190 ft.; h_i=88 ft.; h_r=83 ft.; h_a=106 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	10.3	W.	35	NE.	1	6	5	2	4	6	5	20	14	0	8	13	10	14	12	13	7	0	13	0	11	0	26	1	0
February	9.4	W.	26	NW.	0	8	10	1	1	4	4	15	15	0	9	7	13	9	7	7	5	0	8	1	15	0	25	0	0
March	10.2	S.	33	SE.	2	11	9	4	7	12	8	4	7	0	5	9	17	14	10	3	2	0	14	0	0	0	7	2	0
April	11.5	S.	38	S.	4	8	5	2	4	19	4	9	9	0	7	9	14	14	10	0	0	0	8	0	0	0	2	1	0
May	10.0	S.	35	S.	1	8	1	1	2	23	11	2	14	0	16	10	5	7	6	0	0	1	3	0	0	2	0	5	0
June	9.3	N.	35	NW.	1	11	10	4	8	14	7	2	4	0	9	9	12	11	9	0	0	0	9	0	0	3	0	8	0
July	8.4	S.	27	NW.	0	9	4	2	4	18	9	7	9	0	11	11	9	9	4	0	0	1	6	0	0	8	0	9	0
August	8.4	S.	29	NW.	0	5	11	3	6	18	6	8	5	0	8	12	11	11	9	0	0	0	9	1	0	8	0	9	0
September	9.1	S.	33	N.	1	9	8	6	10	18	0	6	3	0	10	9	11	9	4	0	0	0	11	0	0	1	0	1	0
October	8.8	S.	30	NW.	0	14	4	2	4	18	6	9	5	0	12	7	12	8	5	0	0	0	15	2	0	0	4	0	0
November	10.8	NW.	32	NW.	1	7	4	2	0	14	11	6	16	0	13	8	9	6	4	6	2	0	12	1	2	0	15	0	0
December	10.4	N.	29	E.	0	21	7	3	0	6	12	6	7	0	13	6	12	13	10	5	1	0	12	1	2	0	19	0	0
Year	9.7	S.	38	S.	11	117	78	32	50	170	83	94	108	0	121	110	135	125	90	34	17	2	120	6	31	22	98	36	0

VALENTINE, NEBR.

[H=2,581 ft.; H_b=2,598 ft.; h_i=47 ft.; h_r=36 ft.; h_a=54 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.2	W.	24	NW.	0	7	7	9	1	5	2	19	12	0	7	12	12	12	8	18	12	0	5	2	20	0	31	0	0
February	8.0	W.	30	SW.	0	9	7	4	4	3	4	19	6	2	4	10	15	12	9	16	12	0	0	0	22	0	29	0	1
March	10.9	NW.	27	N.	0	12	4	6	1	2	4	16	16	1	6	15	10	8	6	11	7	0	1	0	4	0	29	0	1
April	9.5	N.	26	N.	0	18	6	3	7	5	4	10	7	0	8	14	8	11	9	7	3	1	1	0	2	0	11	4	0
May	9.9	N.	30	SW.	0	14	2	4	11	11	6	7	6	1	9	14	8	8	8	0	0	0	2	0	0	1	0	4	0
June	10.3	S.	29	NW.	0	4	5	9	9	15	6	7	4	1	18	9	3	8	8	0	0	1	0	0	0	8	0	9	0
July	10.3	S.	30	SW.	0	6	4	4	3	22	7	12	2	2	25	5	1	2	0	0	0	0	0	0	0	27	0	5	0
August	9.0	SW.	32	SW.	1	9	5	10	6	8	12	9	1	2	16	11	4	9	6	0	0	0	2	0	0	18	0	11	0
September	9.3	N.	26	N.	0	17	3	3	8	8	5	8	6	2	21	5	4	6	4	0	0	0	1	1	0	4	0	6	0
October	8.8	W.	28	NE.	0	12	7	3	1	5	7	23	4	0	14	8	9	4	3	4	2	0	1	0	1	0	10	0	1
November	9.4	W.	34	N.	3	7	4	1	0	2	2	33	11	0	11	9	10	7	5	8	6	0	1	0	4	0	25	1	2
December	8.1	W.	23	NW.	0	5	1	3	6	3	11	19	12	2	5	10	16	6	1	9	6	0	3	1	12	0	31	0	0
Year	9.3	W.	34	N.	4	120	55	59	57	89	70	182	87	13	144	122	100	93	67	73	48	2	17	4	65	58	166	40	5

VICKSBURG, MISS.

[H=226 ft.; H_b=247 ft.; h_i=65 ft.; h_r=58 ft.; h_a=73 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.9	N.	26	NW.	0	14	7	8	9	7	4	6	7	0	9	9	13	13	8	3	3	0	8	5	1	0	13	4	0
February	8.4	N.	29	NW.	0	19	8	5	8	12	2	0	4	0	4	7	18	8	7	1	0	1	4	0	1	0	12	1	0
March	8.6	S.	26	NW.	0	6	1	7	9	23	6	5	5	0	11	6	14	9	7	0	0	1	2	2	0	0	0	5	0
April	8.4	S.	26	NW.	0	9	7	8	7	14	8	3	4	0	13	5	12	6	5	0	0	1	0	0	0	0	0	4	0
May	6.5	E.	21	SE.	0	9	6	17	13	5	4	3	5	0	5	13	13	9	7	0	0	0	0	0	0	0	0	6	0
June	5.7	N.	18	NE.	0	11	6	4	5	9	13	7	4	1	25	2	3	3	2	0	0	0	0	0	0	21	0	3	0
July	6.5	S.	27	S.	0	6	5	1	3	23	12	6	3	3	7	10	14	10	9	0	0	0	0	0	0	17	0	13	0
August	5.7	S.	23	E.	0	2	4	12	10	18	9	4	2	1	16	9	6	7	3	0	0	0	0	0	0	26	0	6	0
September	6.6	SE.	15	SE.	0	6	1	11	14	12	6	7	2	1	7	12	11	2	0	0	0	0	0	0	0	21	0	5	0
October	6.5	N.	19	W.	0	19	4	10	12	2	2	6	6	1	13	7	11	6	4	0	0	0	5	3	0	0	0	2	0
November	6.8	N.	21	NW.	0	26	4	6	5	7	4	2	8	0	13	6	11	8	8	0	0	0	9	1	0	0	1	0	0
December	7.2	N.	25	S.	0	19	6	3	18	6	3	4	3	0	7	4	20	11	8	0	0	0	9	6	0	0	3	2	0
Year	7.2	N.	29	NW.	0	146	59	92	113	138	73	53	51	7	130	90	146	92	68	4	3	3	37	17	2	85	29	51	0

WALLA WALLA, WASH.

[H=952 ft.; H_b=991 ft.; h_i=57 ft.; h_r=50 ft.; h_a=65 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.3	S.	24	W.	0	0	2	5	9	24	13	4	4	1	1	5	25	15	11	5	3	0	11	6	5	0	14	0	0
February	5.4	S.	21	SW.	0	3	0	2	5	24	13	6	4	1	2	5	22	13	8	15	10	0	0	0	19	0	25	0	0
March	7.4	SW.	32	W.	1	3	1	5	4	21	15	9	4	0	7	10	14	5	4	6	2	1	0	0	0	0	6	0	0
April	6.2	S.	22	SW.	0	0	3	2	9	28	6	11	1	0	8	13	9	5	3	1	1	0	1	0	0	0	3	0	0
May	6.8	SW.	25	W.	0	7	4	2	6	19	11	12	1	0	9	16	6	8	2	0	0	0	0	0	0	3	0	2	0
June	5.6	S.	21	W.	0	2	2	6	6	24	11	7	2	0	10	9	11	11	6	0	0	0	1	0	0	6	0	6	1
July	5.9	S.	18	W.	0	0	0	0	9	21	10	20	2	0	23	6	2	3	0	0	0	0	0	0	0	15	0	2	0
August	5.8	W.	15	W.	0	2	2	1	4	22	10	18	2	1	22	7	2	1	0	0	0	0	0	0	0	12	0	0	0
September	4.8	S.	19	W.	0	1	1	3	8	19	16	11	0	1	20	5	5	4	3	0	0	0	0	0	0	1	0	0	0
October	4.8	S.	17	W.	0	2	1	0	8	20	11	18	1	1	23	4	4	1	0	0	0	0	0	0	0	0	0	0	0
November	3.8	S.	15	S.	0	1	0	3	7	19	16	10	4	0	13	8	9	1	0	0	0	0	11	2	5	0	24	0	0
December	5.8	S.	24	SW.	0	2	2	2	3	29	16	6	2	0	1	3	27	14	7	7	4	0	8	4	2	0	13	0	0
Year	5.7	S.	32	W.	1	23	18	31	78	270	148	132	27	5	139	91	136	81	44	34	20	1	32	12	31	37	85	10	1

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.93	30.43	28.95	26.9	32.3	31.9	37.2	24.1	30.6	58	0	20	20	21	73	59	64	0.122	0.121	0.125	5.87	2.49	2.3	6.1	6.1	5.1	6.0
February	29.99	30.47	29.30	24.2	31.4	33.2	37.5	21.6	29.6	64	3	18	19	19	75	60	56	.108	.111	.113	3.83	1.45	18.5	7.0	6.8	4.4	6.2
March	29.76	30.27	28.95	44.3	53.2	52.4	59.8	40.8	50.5	76	26	36	36	37	75	54	60	.228	.226	.242	4.47	1.48	T	6.5	6.8	5.6	7.0
April	29.93	30.39	29.27	47.4	56.5	54.6	61.8	42.6	52.2	86	36	34	34	35	61	45	50	.212	.213	.218	1.98	.66	T	5.5	6.5	5.5	6.3
May	29.94	30.50	29.54	62.2	72.6	69.9	78.7	56.2	67.4	92	43	50	48	51	65	43	53	.374	.356	.399	5.32	2.44	.0	4.4	4.4	3.2	3.7
June	29.80	30.09	29.45	69.0	78.2	74.8	82.6	63.1	72.8	98	54	58	57	58	70	51	61	.499	.486	.508	2.29	.80	.0	5.5	5.6	5.4	5.7
July	29.78	30.18	29.54	72.9	83.4	80.6	88.0	68.7	78.4	105	62	64	62	66	74	50	61	.603	.568	.623	4.07	2.46	.0	5.4	5.2	5.7	5.5
August	29.89	30.23	29.63	73.3	82.7	79.3	87.1	68.7	77.9	98	59	65	64	66	77	56	66	.636	.619	.660	3.61	2.71	.0	4.4	5.2	5.5	5.4
September	29.96	30.28	29.57	66.5	75.9	72.1	80.2	62.7	71.4	93	47	59	59	61	78	58	69	.520	.508	.553	1.98	1.49	.0	5.1	5.1	3.9	5.4
October	29.98	30.37	29.18	54.6	65.3	60.1	68.7	50.7	59.7	83	27	49	48	49	81	55	68	.374	.370	.378	1.70	1.00	.0	5.4	5.1	3.9	5.1
November	29.97	30.54	29.36	40.9	49.5	46.1	53.2	36.7	45.0	79	19	31	31	30	68	48	54	.195	.194	.194	.76	.39	T	5.2	5.7	4.2	5.3
December	30.14	30.60	29.43	35.2	42.8	41.3	47.2	32.5	39.8	65	14	29	30	31	78	62	68	.170	.177	.184	5.23	1.48	1.5	5.4	6.2	5.6	6.1
Year	29.92	30.60	28.95	51.4	60.3	58.0	65.2	47.4	56.3	105	0	43	42	44	73	53	61	.337	.329	.351	41.11	2.71	22.3	5.5	5.7	4.8	5.6

WICHITA, KANS.

[ϕ=37°41′ N.; λ=97°20′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.59	29.17	28.06	23.5	30.5	31.9	36.5	19.5	28.0	59	2	18	18	21	77	60	63	0.105	0.106	0.119	0.94	0.69	4.1	5.6	6.3	4.8	5.6
February	28.59	29.06	28.06	17.9	29.1	31.4	36.0	14.0	25.0	76	−8	11	11	14	74	50	52	.082	.078	.086	.02	.02	.1	5.0	4.8	5.1	5.0
March	28.44	28.84	27.86	40.9	56.9	59.2	64.3	37.7	51.0	78	21	26	24	23	57	30	26	.149	.136	.128	T	T	.0	3.9	3.9	4.0	3.8
April	28.56	28.93	28.08	46.5	63.5	65.4	69.1	43.9	56.5	93	15	31	30	32	57	32	33	.194	.197	.212	.58	.50	T	3.7	4.1	4.7	4.1
May	28.56	28.85	28.13	62.5	74.8	73.9	78.7	60.6	69.6	90	50	55	56	55	77	53	55	.439	.452	.442	3.30	1.98	.0	6.5	6.6	5.6	6.2
June	28.48	28.78	27.91	70.2	85.9	87.9	91.2	66.9	79.0	105	53	55	54	53	61	36	34	.450	.435	.419	1.04	.73	.0	2.4	2.6	2.6	2.5
July	28.51	28.89	28.30	77.2	95.8	97.4	99.7	75.8	87.8	112	65	59	53	51	55	26	22	.510	.417	.379	.21	.14	.0	1.6	2.9	2.3	2.4
August	28.50	28.76	28.31	77.6	96.1	97.5	101.1	76.8	89.0	114	61	55	52	49	48	25	22	.451	.401	.364	.04	.04	.0	1.8	2.4	3.2	2.3
September	28.52	28.86	28.10	67.3	78.9	77.7	83.0	65.4	74.2	101	47	59	58	57	76	55	55	.512	.507	.482	4.84	2.16	.0	5.9	7.0	6.2	6.6
October	28.62	29.13	28.24	49.6	60.4	60.2	65.1	47.1	56.1	82	27	42	44	45	77	56	58	.287	.307	.319	3.77	2.79	.0	4.2	4.4	4.5	4.4
November	28.76	29.10	28.10	36.2	50.1	48.9	56.9	32.8	44.8	76	19	26	26	26	67	40	42	.157	.143	.148	.01	.01	T	1.9	2.8	2.3	2.2
December	28.63	28.91	28.00	34.9	43.7	43.4	47.8	31.9	39.8	65	15	31	34	34	83	69	71	.177	.203	.207	.83	.32	2.1	5.3	5.2	5.6	5.4
Year	28.56	29.17	27.86	50.4	63.8	64.6	69.1	47.7	58.4	114	−8	39	38	38	67	44	44	.293	.282	.275	15.58	2.79	6.3	4.0	4.4	4.2	4.2

WILLISTON, N. DAK.

[ϕ=48°09′ N.; λ=103°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	28.03	28.51	27.39	−3.6	1.3	−0.8	6.0	−10.8	−2.4	31	−30	−8	−6	−6	81	71	76	0.039	0.033	0.033	0.71	0.31	7.2	6.8	4.7	5.8	5.5
February	28.09	28.40	27.57	−18.1	−9.3	−9.1	−5.1	−22.2	−13.6	34	−50	−21	−17	−15	84	66	74	.016	.020	.024	.61	.19	6.9	4.8	3.1	4.1	4.3
March	27.88	28.29	27.47	21.7	29.8	30.1	34.0	17.8	25.9	55	−8	18	22	22	84	72	72	.105	.122	.125	1.51	.54	18.2	5.3	3.9	4.6	5.2
April	28.06	28.49	27.56	28.3	42.8	45.2	48.9	25.5	37.2	82	−2	22	24	26	78	50	48	.131	.140	.149	.12	.08	.4	4.1	4.8	3.7	4.5
May	27.94	28.32	27.43	52.0	70.3	71.9	75.3	48.9	62.1	96	32	40	38	38	66	35	32	.252	.239	.235	.62	.37	.0	2.4	2.4	2.9	2.7
June	27.92	28.32	27.59	57.5	73.8	76.6	79.5	53.9	66.7	104	36	45	44	43	66	38	34	.316	.304	.293	1.47	1.00	.0	4.4	3.4	3.7	3.9
July	27.91	28.28	27.58	69.1	88.6	91.3	95.0	66.5	80.8	110	51	55	52	50	62	31	27	.438	.400	.369	.87	.32	.0	2.2	1.3	2.0	2.0
August	28.00	28.33	27.67	59.1	77.1	78.5	82.3	57.5	69.9	103	48	48	48	46	70	40	35	.340	.344	.312	1.01	.37	.0	3.8	3.9	3.6	3.8
September	27.96	28.43	27.49	48.7	68.7	68.4	73.9	45.9	59.9	93	27	41	40	38	75	38	36	.267	.262	.240	.46	.18	T	2.5	2.4	2.4	2.9
October	28.04	28.57	27.45	35.1	50.7	48.9	56.3	32.4	44.4	81	12	26	28	28	69	46	50	.144	.159	.161	.29	.19	2.1	4.0	3.3	4.8	4.1
November	28.14	28.65	27.73	25.2	35.9	33.2	40.6	21.0	30.8	67	−11	20	24	24	82	62	68	.117	.136	.133	.38	.26	4.7	3.6	3.9	3.4	4.1
December	27.98	28.35	27.52	13.0	20.0	17.4	24.6	5.4	15.0	49	−26	8	12	10	79	69	73	.071	.082	.078	.45	.19	6.0	4.3	4.9	4.8	5.3
Year	28.00	28.65	27.39	32.3	45.8	46.0	50.9	28.5	39.7	110	−50	24	26	25	75	52	52	.186	.187	.179	8.50	1.00	45.5	4.0	3.5	3.8	4.0

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.	Moisture: Cloudiness: Daylight
January	30.01	30.47	29.18	39.2	48.3	45.0	53.0	35.3	44.2	71	18	33	35	36	79	61	71	0.226	0.239	0.244	4.00	0.86	6.5	4.5	4.3	4.5	4.7
February	30.03	30.44	29.32	40.1	48.3	45.0	53.6	35.6	44.6	74	14	34	36	36	78	64	73	.216	.238	.235	5.05	1.74	3.7	5.3	6.0	5.3	5.9
March	29.86	30.23	29.16	53.2	62.7	57.7	66.4	49.1	57.8	84	36	48	46	47	82	57	70	.356	.333	.348	10.43	5.19	.0	5.3	5.5	5.1	5.7
April	30.02	30.41	29.46	57.9	66.8	61.2	69.7	51.9	60.8	87	34	48	47	50	71	51	69	.358	.352	.389	1.56	.62	.0	4.0	4.5	4.2	4.7
May	30.00	30.39	29.57	67.6	78.1	70.0	80.6	60.7	70.6	95	53	60	57	60	76	49	70	.518	.472	.518	.20	.10	.0	3.3	3.3	2.7	3.2
June	29.88	30.16	29.64	74.3	81.9	75.9	84.9	68.1	76.5	95	60	67	64	68	78	58	76	.662	.620	.680	3.57	1.59	.0	3.5	3.7	3.5	3.8
July	29.88	30.17	29.63	78.0	86.2	79.0	89.0	71.9	80.4	102	62	71	70	72	80	59	80	.772	.728	.787	4.95	1.48	.0	4.7	5.2	5.1	5.2
August	29.98	30.18	29.76	77.0	85.1	78.5	88.1	72.5	80.3	95	65	72	71	72	84	62	82	.784	.750	.796	4.32	1.73	.0	4.0	4.6	4.4	4.7
September	29.99	30.20	29.67	72.5	81.4	76.0	84.2	68.5	76.4	90	58	68	68	70	86	64	81	.696	.689	.725	4.25	1.37	.0	4.2	6.0	4.4	5.6
October	30.02	30.34	29.50	62.3	72.2	67.3	75.9	58.8	67.4	84	40	57	58	60	85	63	80	.499	.513	.553	7.15	2.73	.0	3.8	4.4	3.7	4.6
November	30.07	30.45	29.56	48.7	59.7	54.4	63.5	45.5	54.5	80	26	43	44	46	80	58	75	.301	.320	.343	3.03	2.78	.0	4.4	4.1	3.4	4.4
December	30.14	30.60	29.66	46.8	55.1	50.7	58.6	42.6	50.6	72	34	43	45	45	88	72	83	.300	.327	.320	6.51	2.19	.0	6.6	7.0	6.6	7.0
Year	29.99	30.60	29.16	59.8	68.8	63.4	72.3	55.0	63.7	102	14	54	53	55	81	60	76	.474	.465	.495	55.02	5.19	10.2	4.5	4.9	4.4	5.0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

WASHINGTON, D. C.

[H=72 ft.; 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 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	8.2	NW.	38	NW.	2	10	2	6	0	8	6	4	24	2	8	10	13	15	10	12	8	0	15	1	10	0	20	0	0
February	7.1	NW.	24	NW.	0	8	8	6	2	8	4	1	17	4	8	5	16	10	10	7	5	0	16	2	12	0	23	0	0
March	7.8	NW.	34	NW.	1	6	3	10	3	11	10	5	10	4	5	10	16	14	10	3	0	0	22	3	0	0	7	1	0
April	8.8	NW.	31	NW.	0	4	6	5	5	11	8	1	20	0	7	10	13	11	6	2	0	0	5	0	0	0	2	2	0
May	6.8	NW.	30	W.	0	9	2	4	7	13	10	4	13	0	17	13	1	6	5	0	0	3	4	0	0	3	0	4	0
June	6.2	SW.	22	NW.	0	9	7	5	5	10	13	3	7	1	11	6	13	10	9	0	0	0	1	0	0	6	0	7	0
July	5.8	SW.	25	NW.	0	10	3	7	3	13	13	2	9	2	9	12	10	11	9	0	0	0	7	0	0	12	0	10	0
August	5.7	SW.	30	NW.	0	6	6	7	4	15	12	3	8	1	11	10	10	9	9	0	0	0	9	0	0	12	0	6	0
September	6.2	S.	24	NE.	0	5	8	8	6	8	12	2	5	6	13	5	12	8	4	0	0	0	10	0	0	3	0	0	0
October	6.4	NW.	29	NW.	0	6	5	6	4	9	13	3	10	6	12	7	12	7	5	0	0	0	17	0	0	0	2	0	0
November	7.5	NW.	28	NW.	0	4	4	2	1	12	14	4	19	0	9	12	9	5	2	2	5	0	12	1	1	0	10	0	0
December	7.2	NW.	21	SW.	0	11	9	5	0	4	9	5	16	3	11	5	15	13	11	6	3	0	20	2	1	0	17	0	0
Year	7.0	NW.	38	NW.	3	88	63	71	40	122	124	37	158	29	121	105	140	119	90	32	21	3	138	9	24	36	81	30	0

WICHITA, KANS.

[H=1,300 ft.; H_b=1,358 ft.; h_t=85 ft.; h_r=78 ft.; h_a=93 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	10.3	N.	26	SW.	0	16	9	3	7	11	9	3	4	0	10	9	12	3	3	8	3	0	4	1	13	0	26	0	0
February	11.0	NE.	31	SW.	0	9	17	2	8	11	2	3	5	1	14	4	11	1	0	9	1	0	3	0	15	0	25	0	0
March	13.0	SW.	41	SW.	2	10	8	2	6	5	15	6	10	0	15	10	6	0	0	0	0	0	0	0	0	0	6	0	0
April	12.9	SW.	37	SW.	2	10	9	8	5	7	18	0	3	0	15	8	7	5	3	2	0	0	1	0	0	1	6	3	0
May	10.5	SW.	31	SW.	0	8	12	3	11	7	15	3	3	0	7	11	13	8	7	0	0	1	2	1	0	1	0	9	0
June	11.4	SW.	43	SE.	1	7	6	7	9	8	22	1	0	0	20	6	4	3	3	0	0	0	0	0	0	17	0	7	0
July	10.9	SW.	25	SW.	0	12	7	3	2	8	29	0	1	0	21	7	3	2	2	0	0	0	0	0	0	29	0	2	0
August	11.0	SW.	29	SW.	0	4	7	2	12	7	28	1	1	0	23	6	2	2	0	0	0	0	0	0	0	27	0	3	0
September	11.0	SW.	29	SW.	0	10	7	2	13	2	19	5	2	0	6	9	15	13	11	0	0	0	6	0	0	12	0	9	0
October	11.4	SW.	32	SW.	1	14	5	3	7	7	18	2	6	0	16	7	8	5	5	0	0	0	8	0	0	0	4	1	0
November	10.9	SW.	34	SW.	1	8	4	4	5	1	21	4	13	0	21	6	3	1	0	1	0	0	2	0	0	0	14	0	1
December	11.4	SW.	31	SW.	0	9	9	0	15	3	18	2	6	0	9	9	13	8	7	6	4	1	9	2	2	0	20	1	0
Year	11.3	SW.	43	SE.	7	117	100	39	100	77	214	30	54	1	177	92	97	51	41	26	8	2	35	4	30	87	101	35	1

WILLISTON, N. DAK.

[H=1,877 ft.; H_b=1,878 ft.; h_t=42 ft.; h_r=34 ft.; h_a=50 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	6.0	SE.	21	NW.	0	7	10	7	8	5	9	9	7	0	11	7	13	11	6	15	11	0	5	3	31	0	31	0	1
February	5.4	W.	24	NW.	0	7	11	5	4	3	3	13	6	6	13	10	6	9	5	13	9	0	5	3	28	0	29	0	1
March	9.8	W.	35	W.	1	10	4	0	7	3	9	16	13	0	10	14	7	12	8	15	12	0	3	2	9	0	31	0	3
April	8.4	SE.	30	NW.	0	5	8	6	15	7	7	3	9	0	12	12	6	2	2	5	1	0	1	0	6	0	16	0	9
May	10.6	SE.	35	W.	3	7	4	4	14	10	2	12	8	1	22	6	3	6	4	0	0	0	0	0	0	4	0	5	3
June	9.3	SE.	32	NW.	1	5	10	11	10	5	4	6	9	0	14	11	5	6	6	0	0	0	0	0	0	8	0	6	3
July	8.4	SE.	30	SE.	0	10	15	5	16	5	0	7	3	1	23	8	0	7	5	0	0	0	0	0	0	21	0	10	0
August	7.2	SE.	23	NE.	0	10	15	6	10	10	1	6	3	1	15	10	6	8	7	0	0	0	0	0	0	8	0	6	2
September	8.3	N.	34	W.	1	13	2	6	5	8	6	10	10	0	20	8	2	5	3	1	0	0	2	1	0	4	3	3	4
October	8.5	SW.	30	NW.	0	12	4	3	7	9	10	8	9	0	16	7	8	5	2	6	2	0	0	0	3	0	16	0	6
November	8.6	W.	36	NW.	2	4	5	2	5	7	10	15	12	0	17	7	6	4	2	7	4	0	1	1	8	0	27	0	7
December	8.2	SW.	37	NW.	1	4	5	7	8	11	10	9	8	0	9	15	7	4	3	9	4	0	1	0	17	0	31	0	0
Year	8.2	W.	37	NW.	9	94	93	62	109	83	71	114	97	9	182	115	69	79	53	71	43	0	18	10	102	45	184	30	39

WILMINGTON, N. C.

[H=6 ft.; H_b=72 ft.; h_t=73 ft.; h_r=65 ft.; h_a=107 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	9.7	NW.	47	SW.	2	5	10	7	1	11	9	7	12	0	13	8	10	11	8	2	2	0	17	6	2	0	11	1	0
February	9.8	N.	35	NW.	3	16	8	7	1	7	8	4	7	0	11	4	14	12	10	3	1	0	17	2	0	0	11	0	0
March	10.5	S.	37	SW.	3	1	10	6	5	12	11	8	9	0	12	6	13	12	9	0	0	0	18	5	0	0	0	5	0
April	10.7	SW.	35	SW.	1	7	9	10	4	6	14	4	5	1	15	6	9	7	6	0	0	0	6	0	0	0	0	6	0
May	8.8	NE.	22	S.	0	5	12	10	6	7	11	4	5	2	17	11	3	4	2	0	0	0	10	3	0	1	0	3	0
June	8.9	S.	24	S.	0	8	3	4	3	15	15	4	8	0	14	11	5	6	6	0	0	0	9	0	0	4	0	9	0
July	9.2	SW.	28	W.	0	2	3	5	3	5	22	14	8	0	9	15	7	10	10	0	0	0	8	0	0	10	0	10	0
August	7.1	S.	22	NW.	0	10	8	4	6	10	14	5	5	0	9	15	7	14	9	0	0	0	11	3	0	10	0	14	0
September	7.6	NE.	27	NW.	0	6	22	3	3	10	7	2	6	1	10	11	9	11	9	0	0	0	15	2	0	1	0	4	0
October	8.7	NE.	30	SW.	0	17	19	7	1	4	7	3	3	1	14	7	10	10	9	0	0	0	15	3	0	0	0	2	0
November	9.1	N.	28	NW.	0	15	10	3	4	4	11	4	6	3	13	9	8	7	4	0	0	0	20	1	0	0	2	0	0
December	8.7	NE.	30	W.	0	20	20	3	3	3	4	3	4	2	7	5	19	13	10	0	0	0	23	5	0	0	0	0	0
Year	9.1	SW.	47	SW.	9	112	134	69	40	94	133	62	78	10	144	108	114	117	92	5	3	0	169	30	2	26	24	54	0

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	25.63	25.97	25.27	28.7	37.7	37.8	43.0	25.0	34.0	51	12	25	29	29	86	70	71	0.134	0.158	0.162	1.34	0.56	1.1	5.7	7.3	7.5	7.1
February	25.49	26.03	25.09	30.4	40.0	39.7	44.3	26.3	35.3	61	0	27	28	29	86	64	67	.150	.157	.160	2.01	.64	3.9	7.6	8.2	7.9	7.8
March	25.57	25.98	24.87	30.3	50.3	51.8	55.5	26.2	40.8	72	14	24	25	22	79	39	34	.132	.133	.120	.35	.21	4.4	3.8	4.5	5.2	4.3
April	25.63	26.09	25.20	38.0	62.1	63.4	67.7	34.9	51.3	86	17	29	30	29	72	35	32	.162	.168	.162	.61	.36	.2	3.4	4.5	5.6	4.5
May	25.58	25.85	25.22	44.2	69.6	71.2	75.5	41.5	58.5	93	30	32	32	29	63	28	23	.183	.179	.161	.29	.14	T	3.2	3.3	3.7	3.2
June	25.57	25.73	25.35	52.2	78.4	78.2	83.5	50.2	66.8	103	36	39	37	37	64	27	28	.244	.227	.226	.41	.25	.0	3.7	3.7	4.2	3.9
July	25.58	25.74	25.27	58.5	88.9	89.2	94.1	56.5	75.3	104	47	40	41	41	53	21	20	.264	.271	.262	.71	.31	.0	2.9	3.0	3.6	3.4
August	25.62	25.80	25.46	56.0	85.9	85.1	91.2	53.4	72.3	97	41	37	41	39	52	22	22	.240	.276	.255	.23	.12	.0	2.6	2.6	3.2	2.8
September	25.63	25.88	25.22	42.7	73.4	73.1	78.2	39.2	58.7	91	27	28	30	29	57	24	23	.161	.174	.165	.76	.69	.0	1.8	1.1	1.9	1.4
October	25.69	25.91	25.37	35.2	64.8	63.8	69.4	32.5	51.0	87	20	25	30	29	66	30	30	.134	.166	.159	.47	.47	.0	1.8	3.0	2.5	2.6
November	25.86	26.16	25.39	20.1	50.6	47.9	57.3	16.3	36.8	68	8	12	20	20	68	30	32	.073	.108	.108	T	T	T	1.0	2.1	1.8	1.9
December	25.63	26.06	25.11	23.9	38.1	34.8	42.7	18.8	30.8	53	1	20	26	24	85	61	67	.114	.139	.132	1.58	.60	10.5	5.7	6.5	6.4	6.3
Year	25.62	26.16	24.87	38.4	61.6	61.3	66.9	35.1	51.0	104	0	28	31	30	69	38	37	.166	.180	.173	8.76	.69	20.1	3.6	4.2	4.5	4.1

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	27.57	28.00	26.81	24.6	36.4	30.2	38.0	20.5	29.2	55	−7	20	23	24	84	71	76	0.126	0.136	0.136	5.19	1.40	4.2	6.5	6.2	6.7	6.3
February	27.62	27.96	27.15	26.2	36.4	33.8	41.6	22.2	31.9	70	−1	22	25	24	83	64	68	.130	.145	.140	2.95	1.08	8.6	7.2	5.9	5.2	5.9
March	27.49	27.81	26.84	40.9	51.3	48.0	56.7	35.8	46.2	71	24	34	34	35	78	55	62	.206	.209	.210	4.59	2.32	7.2	6.4	6.6	5.1	5.8
April	27.66	27.99	27.13	44.9	53.9	51.6	59.3	38.9	49.1	78	21	35	35	36	70	51	56	.223	.218	.219	3.03	.91	T	5.8	6.3	5.3	5.8
May	27.72	28.15	27.41	59.6	73.3	66.5	77.4	49.0	63.2	86	38	48	44	46	65	36	50	.339	.301	.327	.77	.37	.0	3.0	3.6	4.1	3.3
June	27.61	27.85	27.36	65.4	78.2	71.5	82.2	56.6	69.4	95	42	55	53	55	72	44	60	.448	.414	.446	1.67	.73	.0	4.3	3.9	5.1	4.5
July	27.64	27.94	27.42	69.5	79.6	75.0	84.6	63.9	74.2	95	51	62	61	62	78	55	66	.573	.545	.573	2.33	.73	.0	5.7	6.2	5.8	5.8
August	27.73	27.97	27.54	67.9	79.6	73.0	83.7	62.3	73.0	95	53	62	61	63	83	55	72	.567	.544	.584	2.94	1.11	.0	4.6	6.5	5.9	5.4
September	27.74	27.96	27.46	61.7	73.8	67.5	77.7	56.0	66.8	86	38	57	57	59	86	59	74	.480	.483	.504	5.38	3.70	.0	4.7	5.5	4.3	5.0
October	27.73	28.04	27.21	51.4	62.5	56.0	65.5	47.0	56.2	77	29	46	47	48	84	59	75	.336	.345	.352	2.44	1.56	.0	6.2	5.3	4.7	5.5
November	27.70	28.05	27.24	36.9	47.1	41.8	50.6	31.7	41.2	74	15	31	31	32	78	54	67	.185	.191	.190	.60	.24	.7	6.0	6.0	5.0	5.5
December	27.78	28.15	27.31	31.7	40.2	38.5	45.2	28.2	36.7	58	18	29	31	32	89	71	78	.165	.181	.191	3.31	.99	8.9	6.9	7.7	6.7	7.4
Year	27.67	28.15	26.81	48.4	59.4	54.4	63.5	42.7	53.1	95	−7	42	42	43	79	56	67	.315	.309	.323	35.20	3.70	29.6	5.6	5.8	5.3	5.5

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: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	28.85	29.40	28.16	30.3	36.2	35.7	38.7	27.3	33.0	52	11	27	29	30	87	75	79	0.148	0.158	0.164	2.14	0.68	11.2	7.5	7.6	6.9	7.7
February	28.83	29.44	28.18	17.8	28.0	27.3	31.1	14.4	22.8	65	−1	12	15	16	76	56	61	.079	.097	.099	.84	.30	9.9	6.8	8.1	7.3	8.0
March	28.86	29.27	28.36	35.9	49.6	51.3	53.7	32.9	43.3	69	24	25	25	26	65	39	37	.139	.143	.149	.05	.02	.2	4.5	6.7	5.9	6.0
April	28.88	29.37	28.52	45.9	64.1	65.9	68.5	43.5	56.0	88	21	34	32	32	63	31	29	.200	.184	.183	.27	.19	T	6.0	6.2	7.0	6.5
May	28.79	29.17	28.29	53.6	71.8	74.4	77.0	51.5	64.2	97	37	39	36	37	59	29	27	.241	.217	.224	.32	.18	.0	5.0	4.8	5.8	5.0
June	28.77	29.08	28.35	57.4	74.4	77.8	79.7	55.9	67.8	100	48	46	42	42	67	35	32	.312	.278	.275	1.21	.71	.0	5.5	5.8	5.8	5.8
July	28.78	28.98	28.51	61.6	81.6	86.9	88.7	60.5	74.6	104	49	45	41	41	56	25	22	.302	.259	.257	.38	.27	.0	2.8	2.4	1.9	2.2
August	28.80	29.03	28.58	61.5	82.0	86.0	88.2	59.6	73.9	100	49	45	41	42	55	24	22	.300	.263	.264	T	T	.0	1.9	2.0	2.0	2.2
September	28.86	29.25	28.52	52.6	73.4	75.4	78.0	49.2	63.6	90	37	40	39	40	62	30	29	.253	.245	.254	.25	.23	.0	2.8	2.3	2.8	2.6
October	28.96	29.30	28.52	45.5	67.1	67.2	71.1	42.3	56.7	84	31	36	37	37	70	33	34	.213	.222	.288	.10	.10	.0	1.5	2.5	3.0	2.6
November	29.22	29.53	28.80	28.4	42.7	42.7	46.3	24.9	35.6	60	17	22	25	26	77	52	52	.116	.134	.138	T	T	T	5.0	5.1	4.5	5.1
December	28.84	29.38	28.34	30.8	39.9	39.7	42.8	26.2	34.5	63	13	27	30	30	86	70	71	.147	.166	.172	.93	.34	6.7	7.0	8.0	6.8	7.9
Year	28.87	29.53	28.16	43.4	59.2	60.9	63.6	40.7	52.2	104	−1	33	33	33	69	42	41	.204	.197	.206	6.49	.71	28.0	4.7	5.1	5.0	5.1

YELLOWSTONE PARK, WYO.

[ϕ=44°58′ N.; λ=110°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	Moisture: Dew point: 8 a. m.	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.	Moisture: Relative humidity: 8 a. m.	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.	Moisture: Vapor pressure: 8 a. m.	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Cloudiness: 8 a. m.	Cloudiness: Noon, local time	Cloudiness: 8 p. m.	Cloudiness: Daylight
January	23.76	24.07	23.33	14.8	21.6	18.8	25.6	8.5	17.0	38	−14	9	13	13	76	67	77	0.068	0.078	0.079	1.31	0.19	32.1	6.6	7.3	7.7	7.3
February	23.60	24.12	22.97	7.8	16.2	13.5	22.0	−.2	10.9	42	−35	2	7	7	75	65	73	.059	.067	.068	1.60	.52	29.5	8.6	8.7	8.9	8.6
March	23.74	24.09	23.30	19.3	30.6	29.1	34.4	15.1	24.8	48	−13	13	16	16	74	53	58	.079	.090	.093	.71	.16	15.3	6.0	8.4	8.2	7.8
April	23.87	24.10	23.36	29.6	46.6	45.3	50.2	26.8	38.5	71	−8	24	25	27	78	46	52	.136	.140	.150	1.64	.44	9.7	7.1	7.4	7.6	7.1
May	23.90	24.13	23.54	39.5	62.3	61.5	65.7	36.5	51.1	85	28	30	29	30	69	31	34	.168	.162	.165	.61	.20	4.5	4.4	5.3	6.1	5.4
June	23.92	24.16	23.54	47.4	67.0	66.9	71.4	44.6	58.0	88	33	39	38	37	74	40	39	.241	.235	.224	1.54	.46	T	4.9	5.6	6.5	6.0
July	23.99	24.16	23.76	54.5	77.9	76.3	80.9	52.4	66.6	91	45	43	42	41	67	30	33	.281	.270	.265	2.00	.61	.0	4.4	5.6	7.1	5.9
August	24.00	24.19	23.77	49.6	71.7	70.8	75.9	47.9	61.9	87	34	41	41	40	73	36	37	.266	.274	.265	1.62	.77	.0	4.8	5.3	5.6	5.2
September	23.94	24.22	23.52	39.2	60.2	59.5	66.1	36.0	51.0	80	20	29	30	30	67	36	36	.162	.172	.169	.69	.23	2.4	3.4	4.8	4.4	4.3
October	23.98	24.23	23.52	32.2	50.1	47.2	55.0	28.2	41.6	74	17	24	26	26	70	41	46	.126	.141	.137	.67	.22	.5	3.5	4.6	4.3	4.5
November	24.10	24.36	23.54	19.1	33.2	29.4	38.2	15.3	26.8	54	−7	13	18	17	76	53	58	.077	.098	.091	.40	.31	7.1	2.5	4.9	4.5	4.4
December	23.79	24.13	23.44	19.7	26.5	23.7	29.0	13.2	21.1	41	−7	14	17	16	75	65	70	.082	.094	.091	1.21	.45	20.4	7.5	8.2	8.0	8.1
Year	23.88	24.36	22.97	31.1	47.0	45.2	51.2	27.0	39.1	91	−35	23	25	25	73	47	51	.145	.152	.150	14.00	.77	121.5	5.3	6.3	6.6	6.2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

WINNEMUCCA, NEV.

[H=4,287 ft.; H_b=4,344 ft.; h_t=18 ft.; h_r=6 ft.; h_a=56 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m. and 8 p. m.: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																											
January	8.7	SW.	30	SW.	0	3	15	3	1	6	28	4	2	0	7	3	21	12	8	13	5	0	0	0	0	0	26	0	0
February	8.9	SW.	36	SW.	2	1	9	0	0	2	39	5	2	0	1	11	17	13	9	13	8	0	1	0	1	0	22	0	0
March	9.2	NE.	27	SW.	0	7	17	1	0	0	17	10	10	0	14	8	9	5	4	7	5	0	0	0	0	0	28	0	0
April	7.6	SW.	24	NW.	0	2	17	1	1	7	16	10	6	0	11	14	5	5	3	3	1	0	1	0	0	0	10	1	0
May	8.1	NE.	32	NW.	1	5	22	0	2	5	15	8	5	0	18	10	3	5	3	2	2	0	0	0	0	2	3	0	0
June	7.4	SW.	27	S.	0	2	14	1	2	8	14	15	4	0	16	8	6	6	3	0	0	1	0	0	0	11	0	4	0
July	7.0	SW.	30	SW	0	1	9	0	2	11	26	7	6	0	13	16	2	4	4	0	0	1	0	0	0	25	0	5	0
August	6.9	SW.	25	SE.	0	2	15	4	1	8	22	7	2	1	21	6	4	5	2	0	0	0	0	0	0	19	0	7	0
September	6.8	NE.	25	W.	0	8	20	3	0	1	11	5	12	0	26	1	3	3	2	0	0	0	0	0	0	1	6	1	0
October	6.9	NE.	25	NE.	0	7	28	2	0	2	10	11	2	0	23	4	4	2	2	0	0	0	1	0	0	0	14	0	0
November	6.7	NE.	16	N.	0	9	37	0	0	4	4	3	2	1	23	5	2	0	0	1	0	0	0	0	0	0	30	0	0
December	7.0	NE.	23	W.	0	2	26	2	3	3	21	2	3	0	8	6	17	9	8	11	6	0	2	0	3	0	28	0	0
Year	7.6	NE.	36	SW.	3	49	229	17	12	57	223	87	56	2	181	92	93	69	48	50	27	2	5	0	4	58	167	18	0

WYTHEVILLE, VA.

[H=2,299 ft.; H_b=2,304 ft.; h_t=49 ft.; h_r=40 ft.; h_a=55 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.0	W.	34	W.	1	0	7	9	2	0	0	37	6	1	9	6	16	14	11	8	5	0	6	0	10	0	23	0	0
February	7.8	W.	30	W.	0	3	9	5	0	1	1	30	9	0	7	14	8	12	10	9	6	0	7	2	9	0	24	0	0
March	7.7	W.	30	W.	0	4	5	4	0	1	5	35	8	0	10	9	12	15	13	6	5	0	3	0	1	0	11	3	0
April	8.2	W.	29	W.	0	2	4	13	1	6	3	17	14	0	6	13	11	10	8	1	0	0	2	0	1	0	6	4	0
May	5.3	NW.	21	W.	0	7	6	7	2	3	6	17	14	0	17	11	3	8	6	0	0	0	0	1	0	0	0	7	0
June	5.7	NW.	26	NW.	0	7	4	11	2	1	10	15	8	2	13	11	6	12	6	0	0	0	7	1	0	5	0	13	0
July	6.4	W.	20	W.	0	4	3	5	1	0	7	38	4	0	8	11	12	15	10	0	0	0	2	0	0	9	0	12	0
August	5.5	W.	21	NW.	0	4	3	7	2	3	9	25	9	0	10	12	9	11	7	0	0	0	11	5	0	4	0	10	0
September	4.6	E.	16	N.	0	6	5	15	3	1	5	16	9	0	12	9	9	8	7	0	0	0	11	4	0	0	0	3	0
October	5.7	W.	24	NW.	0	5	6	14	3	0	4	20	10	0	10	9	12	10	9	0	0	0	9	2	0	0	2	1	0
November	8.5	W.	32	W.	1	3	5	6	1	1	6	28	10	0	10	10	10	7	5	5	2	0	4	2	2	0	17	0	0
December	6.0	W.	26	W.	0	2	6	15	3	1	5	14	14	2	6	5	20	16	11	4	4	0	12	2	2	0	20	0	0
Year	6.6	W.	34	W.	2	47	63	111	20	18	61	292	115	5	118	120	128	138	103	33	22	0	74	19	25	18	103	53	0

YAKIMA, WASH.

[H=1,068 ft.; H_b=1,076 ft.; h_t=58 ft.; h_r=52 ft.; h_a=67 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	4.2	NW.	25	SW.	0	5	3	0	12	5	1	17	17	2	5	6	20	10	8	10	6	0	16	9	7	0	28	0	0
February	5.0	NW.	26	W.	0	4	4	4	17	8	3	5	13	0	2	5	22	8	7	15	8	0	3	0	19	0	26	0	0
March	7.0	NW.	29	W.	0	7	3	4	10	7	2	11	16	2	7	11	13	3	0	3	2	0	0	0	0	0	12	0	0
April	6.8	NW.	34	W.	1	11	2	2	2	4	3	11	25	0	4	16	10	4	2	2	0	0	0	0	0	0	4	1	0
May	7.9	NW.	24	W.	0	5	1	1	6	4	5	8	32	0	10	12	9	6	3	0	0	0	0	0	0	4	0	5	0
June	6.6	NW.	25	W.	0	3	0	0	5	4	9	9	28	2	10	7	13	9	6	0	0	0	0	0	0	7	0	1	2
July	7.2	NW.	21	NW.	0	5	0	0	3	3	7	7	37	0	23	3	5	4	2	0	0	0	0	0	0	15	0	2	0
August	7.0	NW.	24	NW.	0	7	2	2	3	3	3	12	30	0	19	12	0	0	0	0	0	0	0	0	0	12	0	0	0
September	5.5	NW.	23	NW.	0	12	4	0	4	3	6	10	20	1	19	8	3	3	2	0	0	0	0	0	0	0	0	0	0
October	4.6	NW.	21	SW.	0	7	3	2	7	8	2	12	19	2	18	11	2	1	1	0	0	0	0	0	0	0	2	0	0
November	3.4	SE.	12	N.	0	5	3	4	20	8	6	3	7	4	13	6	11	0	0	4	0	0	9	2	4	0	29	0	0
December	4.3	NW.	32	SW.	1	5	6	1	13	6	10	9	10	2	1	10	20	13	7	11	8	0	15	3	4	0	26	0	0
Year	5.8	NW.	34	W.	2	76	31	20	102	63	57	114	254	15	131	107	128	61	38	45	24	0	43	14	34	38	127	9	2

YELLOWSTONE PARK, WYO.

[H=6,235 ft.; H_b=6,235 ft.; h_t=12 ft.; h_r=4 ft.; h_a=46 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	8.5	SW.	30	SW.	0	4	1	1	0	14	22	18	2	0	5	5	21	20	13	23	20	0	0	0	27	0	31	0	0
February	9.5	SW.	32	SW.	1	5	3	3	2	11	26	7	1	0	0	6	23	21	10	27	21	0	0	0	21	0	29	0	0
March	10.2	SW.	36	SW.	2	9	5	0	0	10	23	9	6	0	2	12	17	14	7	21	14	0	0	0	10	0	31	0	0
April	7.9	SW.	26	SW.	0	6	5	2	2	5	22	13	5	0	5	6	19	14	11	10	7	1	2	0	5	0	18	1	0
May	8.6	SW.	37	SW.	4	9	6	0	0	10	32	4	1	0	7	19	5	8	6	6	4	2	0	0	0	0	9	4	0
June	8.2	SW.	33	SW.	2	10	1	2	0	13	25	6	3	0	8	10	12	12	9	1	0	2	1	1	0	0	0	8	2
July	7.8	SW.	36	SW.	2	9	2	0	2	10	29	8	2	0	5	17	9	11	8	0	0	2	0	0	0	3	0	15	0
August	7.6	SW.	27	N.	0	2	4	0	3	9	27	10	7	0	10	10	11	11	7	0	0	1	0	0	0	0	0	11	0
September	7.7	SW.	37	SW.	2	3	2	0	0	7	32	7	9	0	14	10	6	8	5	2	2	0	0	0	0	0	9	2	0
October	7.0	SW.	25	SW.	0	4	5	0	0	8	21	14	10	0	14	9	8	6	4	9	2	0	0	0	0	0	22	1	0
November	6.4	SW.	20	SW.	0	5	1	0	0	11	26	15	2	0	13	9	8	4	2	9	4	0	1	0	8	0	30	0	0
December	8.2	SW.	27	SW.	0	2	2	2	3	16	26	8	2	1	2	5	24	17	9	22	17	0	0	0	18	0	31	0	0
Year	8.1	SW.	37	SW.	13	68	37	10	12	124	311	119	50	1	85	118	163	146	91	130	91	8	4	1	89	3	208	42	2

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

YUMA, ARIZ.

[ϕ=32°45′ N.; λ=114°36′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.89	30.20	29.53	46.6	66.5	64.6	68.2	42.6	55.4	76	34	29	29	32	53	26	31	0.167	0.164	0.183	0.24	0.24	0.0	2.3	3.7	3.5	3.2
February	29.83	30.14	29.55	49.7	70.5	70.5	72.9	46.3	59.6	84	32	37	37	36	65	31	30	.227	.229	.219	.18	.08	.0	2.7	2.7	3.6	3.3
March	29.73	30.06	29.40	55.0	79.4	80.6	82.9	52.2	67.6	94	38	36	30	29	52	17	17	.217	.169	.163	T	T	.0	1.1	2.1	2.4	2.2
April	29.74	30.11	29.51	59.5	86.5	88.4	90.9	56.7	73.8	103	45	41	32	31	51	15	14	.264	.185	.177	.00	.0	.0	1.2	1.7	1.6	1.7
May	29.62	29.81	29.39	64.9	93.4	95.8	98.4	62.7	80.6	107	56	45	37	35	51	15	12	.311	.227	.206	.00	.0	.0	.5	1.2	1.3	1.0
June	29.58	29.83	29.41	73.0	99.4	102.2	104.5	71.3	87.9	115	56	54	46	47	52	18	17	.430	.335	.340	T	T	.0	.5	.3	.2	.3
July	29.59	29.79	29.39	81.0	102.2	103.8	107.2	78.9	93.0	118	67	64	61	60	58	28	26	.618	.562	.542	.18	.17	.0	2.5	1.7	2.2	2.0
August	29.63	29.89	29.48	81.8	101.5	103.1	106.2	79.8	93.0	114	70	68	64	64	65	31	29	.706	.599	.599	.11	.07	.0	1.7	.8	1.5	1.5
September	29.61	29.86	29.40	72.7	96.3	96.3	100.1	70.0	85.0	109	54	58	51	51	61	23	23	.513	.433	.404	.02	.02	.0	.4	.5	.7	.6
October	29.73	29.93	29.38	62.2	86.3	83.1	88.8	59.3	74.0	104	51	47	45	45	60	26	29	.331	.306	.305	T	T	.0	.9	1.7	1.0	1.3
November	29.92	30.36	29.64	55.2	74.8	70.4	76.6	51.0	63.8	86	40	33	33	33	48	26	30	.207	.206	.209	.42	.26	.0	1.1	2.0	2.0	1.9
December	29.90	30.22	29.58	48.1	66.5	62.3	67.6	44.3	56.0	76	32	33	33	33	58	30	36	.195	.193	.198	.14	.14	.0	1.5	3.0	2.5	2.8
Year	29.93	30.36	29.38	62.5	85.3	85.1	88.7	59.6	74.1	118	32	45	42	41	56	24	24	.349	.301	.295	1.29	.26	.0	1.4	1.8	1.9	1.8

BARROW, ALASKA

[ϕ=71°23′ N.; λ=156°17′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
January	(2) 30.08	30.72	29.47	-14.6	-----	-14.8	-8.7	-22.4	-15.6	22.0	-44.0	---	---	---	---	---	---	-----	-----	-----	0.00	0.00	0.0	2.8	----	4.3	4.4
February	30.55	31.10	29.90	-27.9	-----	-24.7	-20.8	-33.3	-27.0	-6.0	-44.0	---	---	---	---	---	---	-----	-----	-----	.00	.00	.0	.7	----	1.2	1.0
March	29.97	30.72	29.36	-18.7	-----	-12.3	-9.1	-25.7	-17.4	28.0	-40.0	---	---	---	---	---	---	-----	-----	-----	T	T	T	3.6	----	4.2	4.5
April	30.06	30.79	29.54	-2.4	-----	7.7	13.7	-8.5	2.6	42.0	-39.0	---	---	---	---	---	---	-----	-----	-----	.01	.01	.1	4.9	----	5.3	5.3
May	29.93	30.40	29.54	10.6	-----	20.1	22.1	6.5	13.8	40.0	-15.0	---	---	---	---	---	---	-----	-----	-----	T	T	T	5.7	----	5.9	6.4
June	29.94	30.32	29.44	33.8	-----	40.4	45.4	29.3	37.4	61.0	18.0	---	---	---	---	---	---	-----	-----	-----	.37	.15	T	6.8	----	7.1	6.5
July	29.78	30.28	29.10	36.3	-----	41.1	48.1	31.0	39.6	65.0	22.0	---	---	---	---	---	---	-----	-----	-----	.60	.23	.1	7.3	----	7.4	7.4
August	29.77	30.08	29.32	38.8	-----	43.5	52.5	34.0	43.2	71.0	26.0	---	---	---	---	---	---	-----	-----	-----	.55	.24	2.5	9.4	----	8.8	9.0
September	29.98	30.46	29.54	27.2	-----	28.9	31.1	25.4	28.2	40.0	21.0	---	---	---	---	---	---	-----	-----	-----	.27	.13	3.2	8.4	----	7.2	7.6
October	29.97	30.50	29.50	9.6	-----	10.2	13.7	5.9	9.8	28.0	-15.0	---	---	---	---	---	---	-----	-----	-----	.12	.08	3.2	3.8	----	4.0	4.7
November	30.04	30.46	29.48	-.3	-----	-.7	4.2	-6.3	-1.0	24.0	-22.0	---	---	---	---	---	---	-----	-----	-----	T	T	T	3.4	----	5.6	5.5
December	29.79	30.62	29.08	-11.0	-----	-11.3	-6.4	-16.7	-11.6	30.0	-39.0	---	---	---	---	---	---	-----	-----	-----	.00	.00	.0	2.4	----	2.7	2.6
Year	29.99	31.10	29.08	6.8	-----	10.7	15.5	1.6	8.5	71.0	-44.0	---	---	---	---	---	---	-----	-----	-----	1.92	.24	9.1	4.9	----	5.3	5.4

DUTCH HARBOR, ALASKA

[ϕ=53°53′ N.; λ=166°32′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
January	(2) 29.80	30.21	28.30	29.5	-----	29.7	32.4	25.2	28.8	42	15	---	---	---	---	---	---	-----	-----	-----	6.58	2.31	24.8	8.5	----	8.0	8.4
February	29.57	30.29	28.87	37.0	-----	39.2	42.6	33.6	38.1	55	18	---	---	---	---	---	---	-----	-----	-----	9.01	2.71	2.3	6.0	----	6.8	6.8
March	29.73	30.49	28.74	33.7	-----	37.3	42.2	30.2	36.2	69	19	---	---	---	---	---	---	-----	-----	-----	7.02	1.62	22.6	6.8	----	6.6	6.7
April	29.79	30.26	29.15	36.7	-----	40.4	44.9	33.5	39.2	55	23	---	---	---	---	---	---	-----	-----	-----	8.06	3.46	7.5	8.6	----	8.8	8.7
May	29.37	30.10	28.78	38.9	-----	43.2	46.7	36.2	41.4	55	31	---	---	---	---	---	---	-----	-----	-----	7.64	1.68	.0	9.2	----	8.9	9.0
June	29.94	30.33	29.43	45.3	-----	52.0	54.8	42.6	48.7	64	36	---	---	---	---	---	---	-----	-----	-----	.81	.64	.0	6.9	----	6.9	6.9
July	30.07	30.34	29.31	50.2	-----	55.3	58.1	47.4	52.8	75	42	---	---	---	---	---	---	-----	-----	-----	2.96	1.27	.0	7.6	----	6.7	7.2
August	29.92	30.35	29.32	52.3	-----	57.7	60.8	49.4	55.1	71	44	---	---	---	---	---	---	-----	-----	-----	3.68	.85	.0	7.9	----	8.3	8.1
September	29.77	30.55	28.97	50.7	-----	54.0	56.2	46.9	51.6	69	38	---	---	---	---	---	---	-----	-----	-----	10.16	1.95	.0	8.1	----	8.4	8.2
October	29.49	30.12	28.82	44.0	-----	46.5	47.9	40.2	44.0	55	34	---	---	---	---	---	---	-----	-----	-----	10.89	2.32	.0	8.5	----	8.8	8.6
November	29.41	30.03	28.49	35.0	-----	36.8	39.3	30.6	35.0	52	20	---	---	---	---	---	---	-----	-----	-----	8.27	3.10	21.2	7.3	----	8.1	7.7
December	29.59	30.26	28.74	35.5	-----	36.5	38.9	30.8	34.8	48	19	---	---	---	---	---	---	-----	-----	-----	7.89	1.22	26.2	8.2	----	9.1	8.6
Year	29.70	30.55	28.30	40.7	-----	44.0	47.1	37.2	42.1	75	15	---	---	---	---	---	---	-----	-----	-----	82.97	3.46	104.6	7.8	----	8.0	7.9

FAIRBANKS, ALASKA

[ϕ=64°51′ N.; λ=147°39′ W.]

Month	Pressure: Monthly mean	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
January	(2) 29.30	30.08	28.50	-9.4	-5.3	-3.0	1.0	-17.5	-8.2	36	-44	-14	-10	-8	82	79	79	0.028	0.032	0.036	0.09	0.06	2.4	3.5	4.7	4.8	4.6
February	29.71	30.19	28.58	-16.8	-8.5	-4.2	-2.6	-26.2	-14.4	15	-50	-22	-14	-12	78	75	67	.018	.023	.024	.15	.10	3.3	3.1	3.7	3.7	4.1
March	29.37	30.18	28.62	-.5	12.8	15.9	18.0	-8.7	4.6	39	-30	-4	2	3	83	61	56	.037	.049	.050	.49	.20	10.4	5.4	6.6	6.9	5.4
April	29.47	29.92	28.78	20.3	35.5	37.6	40.5	14.8	27.6	63	-13	13	18	17	74	47	41	.088	.108	.098	T	T	T	3.0	3.6	3.3	3.4
May	29.21	29.63	28.51	39.8	56.3	57.3	59.8	37.5	48.6	72	30	34	35	33	79	46	42	.195	.205	.192	1.03	.37	.0	6.3	6.9	7.8	6.7
June	29.42	29.81	28.96	53.0	69.2	71.4	74.2	50.9	62.6	88	40	48	47	45	84	49	44	.337	.326	.308	.67	.19	.0	5.1	5.6	5.9	5.7
July	29.38	29.75	28.86	52.7	67.2	68.2	70.9	50.1	60.5	86	39	49	47	46	89	50	48	.354	.326	.322	.81	.29	.0	6.8	7.1	7.0	6.9
August	29.43	29.75	28.89	49.9	64.1	66.3	68.8	46.6	57.7	83	34	48	47	46	94	57	52	.339	.331	.317	2.12	.38	.0	6.7	6.4	6.3	6.5
September	29.43	29.99	28.85	35.3	49.0	51.7	53.5	31.5	42.5	62	23	32	31	34	89	52	51	.185	.180	.195	.76	.38	T	5.7	7.1	7.3	6.9
October	29.25	29.85	28.57	28.2	33.5	34.8	37.1	23.4	30.2	56	3	25	26	26	86	75	72	.138	.143	.146	2.02	.60	12.3	7.0	7.1	7.0	7.5
November	29.25	29.83	28.51	11.8	12.5	13.5	18.3	3.3	10.8	54	-29	7	8	8	82	82	80	.070	.073	.074	1.88	.59	19.9	7.5	7.8	7.4	7.6
December	29.30	29.94	28.23	-12.8	-11.9	-11.6	-6.0	-19.4	-12.7	34	-45	-16	-14	-14	85	88	87	.026	.030	.030	1.12	.49	16.2	5.2	6.1	5.6	6.1
Year	29.38	30.19	28.23	21.0	31.2	33.2	36.1	15.5	25.8	88	-50	17	19	19	84	63	60	.151	.152	.149	11.14	.60	66.5	5.4	6.1	6.1	6.0

See footnotes on p. 155.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

YUMA, ARIZ.

[H=138 ft.; H_b=142 ft.; h_t=9 ft.; h_r=2 ft.; h_a=54 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m.[1] and 8 p. m.[1]: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp. 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	5.7	N.	22	N.	0	36	7	4	0	3	2	5	3	2	15	13	3	2	1	0	0	0	0	0	0	0	0	0	0
February	6.5	W.	28	NW.	0	13	4	10	0	6	2	17	4	2	15	12	2	3	2	0	0	1	0	0	0	0	0	1	0
March	6.9	W.	29	NW.	0	10	9	1	3	7	8	16	8	0	23	6	2	0	0	0	0	0	0	0	0	5	0	0	0
April	6.4	W.	32	NW.	1	11	3	2	5	2	14	18	3	2	23	7	0	0	0	0	0	0	0	0	0	22	0	0	0
May	6.0	W.	32	N.	1	10	3	4	4	3	15	16	4	3	27	4	0	0	0	0	0	0	0	0	0	28	0	0	0
June	6.3	W.	27	SE.	0	1	3	4	8	7	16	18	2	1	30	0	0	0	0	0	0	0	0	0	0	26	0	0	0
July	6.1	S.	30	E.	0	2	2	2	10	12	17	12	2	3	25	6	0	2	1	0	0	0	0	0	0	31	0	6	0
August	5.5	S.	30	SE.	0	2	8	2	9	9	12	19	0	1	25	6	0	2	2	0	0	0	0	0	0	31	0	4	0
September	5.4	W.	25	N.	0	9	5	6	4	4	9	18	4	1	28	2	0	1	0	0	0	0	0	0	0	27	0	1	0
October	5.3	W.	19	N.	0	11	13	7	6	3	5	14	3	0	26	4	1	0	0	0	0	0	0	0	0	13	0	0	0
November	6.9	N.	24	N.	0	22	18	4	1	0	4	5	6	0	23	6	1	5	5	0	0	1	0	0	0	0	0	2	0
December	6.0	N.	26	SE.	0	20	10	3	5	4	3	9	6	2	20	8	3	1	1	0	0	0	0	0	0	0	1	0	0
Year	6.1	W.	32	NW.	2	147	85	49	55	60	107	167	45	17	280	74	12	16	12	0	0	2	0	0	0	183	1	14	0

BARROW, ALASKA

[H=22 ft.; H_b=13 ft.; h_t=4 ft.; h_r=2 ft.; h_a=27 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	14.3	NE.	46	E.	3	1	29	13	4	3	1	2	9	0	17	0	14	0	0	0	0	0	8	8	31	0	31	0	4
February	9.1	NE.	35	NE.	2	6	18	5	5	1	0	5	18	0	25	2	2	0	0	0	0	0	6	0	29	0	29	0	10
March	10.4	NE.	29	E.	0	3	28	13	2	4	2	8	2	0	17	0	14	0	0	1	0	0	6	2	31	0	31	0	10
April	13.0	E.	36	E.	1	1	8	17	9	3	4	8	10	0	13	4	13	1	0	3	1	0	6	4	26	0	30	0	0
May	12.2	NE.	29	NE.	0	6	20	20	7	3	2	1	3	0	10	3	18	0	0	5	0	0	3	11	28	0	31	0	0
June	10.6	SE.	26	NE.	0	4	7	8	18	3	7	5	7	1	9	2	19	5	3	1	0	0	4	9	0	0	21	0	0
July	12.3	SW.	33	E.	1	4	6	8	8	1	19	9	6	1	5	5	21	9	5	5	1	0	7	13	0	0	16	0	0
August	13.4	SW.	41	SW.	1	2	3	6	7	5	18	13	8	0	1	4	26	5	3	6	1	0	10	14	0	0	14	0	0
September	15.4	NE.	40	NE.	2	2	34	1	5	1	9	4	4	0	4	7	19	3	3	6	3	0	3	1	24	0	30	0	4
October	16.3	NE.	40	NE.	5	5	50	3	2	1	0	0	1	0	14	3	14	3	1	4	3	0	0	0	31	0	31	0	9
November	11.1	NE.	35	NE.	2	10	34	3	2	0	4	2	5	0	12	3	15	0	0	2	0	0	2	1	30	0	30	0	13
December	8.6	NE.	40	SE.	1	8	26	2	4	3	15	1	3	0	20	3	8	0	0	0	0	0	0	0	31	0	31	0	16
Year	12.2	NE.	46	E.	18	52	263	99	73	28	81	58	76	2	147	36	183	26	15	33	9	0	55	63	261	0	325	0	66

DUTCH HARBOR, ALASKA

[H=40 ft.; H_b=13 ft.; h_t=4 ft.; h_r=3 ft.; h_a=— ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	----	(2) NW.	----	------	----	6	5	3	5	3	8	1	15	16	1	9	21	25	19	22	18	0	0	0	12	0	28	0	0
February	----	SE.	----	------	----	4	2	4	29	6	2	0	1	10	6	7	16	22	17	2	2	0	1	0	1	0	10	0	0
March	----	S.	----	------	----	3	0	6	9	11	17	3	7	6	5	11	15	24	19	10	8	0	0	0	0	0	20	0	0
April	----	E.	----	------	----	7	9	9	13	4	5	0	10	3	3	1	26	17	14	5	2	0	0	0	0	0	12	0	0
May	----	S.	----	------	----	3	2	2	13	17	11	3	9	2	0	4	27	29	26	0	0	0	3	0	0	0	3	0	0
June	----	S.	----	------	----	3	4	5	15	14	7	0	3	9	5	10	15	9	3	0	0	0	8	5	0	0	0	0	0
July	----	E.	----	------	----	2	5	15	5	5	17	3	3	7	4	6	21	13	9	0	0	0	6	0	0	0	0	0	0
August	----	S.	----	------	----	12	0	0	0	23	6	1	11	9	4	6	21	20	17	0	0	0	5	0	0	0	0	0	0
September	----	S.	----	------	----	5	0	0	0	23	11	3	14	4	1	5	24	20	16	0	0	0	2	0	0	0	0	0	0
October	----	NW.	----	------	----	10	2	2	6	9	7	3	21	2	1	6	24	25	22	0	0	0	3	0	0	0	0	0	0
November	----	SW.	----	------	----	8	4	2	9	8	15	1	9	4	3	6	21	26	23	11	11	0	0	0	5	0	16	0	0
December	----	SW.	----	------	----	1	1	0	15	9	19	8	8	1	0	5	26	30	27	8	8	0	0	0	7	0	15	0	0
Year	----	S.	----	------	----	64	34	48	119	132	125	26	111	73	33	76	257	260	212	58	49	0	28	5	25	0	104	0	0

FAIRBANKS, ALASKA

[H=440 ft.; H_b=454 ft.; h_t=11 ft.; h_r=61 ft.; h_a=87 ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	4.1	NW.	17	NE.	0	14	8	4	3	5	1	12	14	1	12	12	7	2	1	7	2	0	4	0	29	0	31	0	16
February	4.4	N.	24	NE.	0	11	6	3	1	11	3	12	9	2	16	4	9	4	1	8	4	0	7	4	29	0	29	0	12
March	5.0	S.	38	S.	1	6	9	3	6	15	10	8	5	0	8	8	15	10	5	16	10	0	2	0	28	0	31	0	9
April	6.4	N.	32	N.	1	13	11	2	2	12	5	5	9	1	17	9	4	0	0	2	0	0	0	0	8	0	30	0	19
May	7.1	NE.	22	SE.	0	9	9	6	3	3	9	13	9	1	3	15	13	9	7	0	0	2	0	0	0	0	3	1	0
June	6.2	SW.	32	SW.	1	10	2	3	6	11	16	4	7	1	7	13	10	7	5	0	0	0	0	0	0	0	0	0	0
July	6.6	S.	23	SW.	0	6	4	2	1	18	15	10	4	2	6	8	17	9	6	0	0	1	3	1	0	0	0	2	0
August	5.8	S.	23	SE.	0	3	9	9	7	15	9	5	5	0	6	12	13	14	9	0	0	0	2	0	0	0	0	3	3
September	5.9	NE.	30	S.	0	9	18	7	1	10	8	4	3	0	6	7	17	7	4	4	0	0	4	0	0	0	19	0	15
October	5.5	NE.	26	SW.	0	8	18	5	4	11	6	3	4	3	7	4	20	15	12	16	9	0	9	1	12	0	30	0	0
November	4.8	NE.	26	SW.	0	10	9	3	1	10	5	11	7	4	3	8	19	12	8	16	12	0	4	1	21	0	30	0	2
December	3.9	W.	27	SW.	0	6	8	3	4	10	6	13	9	3	9	8	14	11	8	17	11	0	19	5	30	0	31	0	6
Year	5.5	NE.	38	S.	3	105	111	50	39	131	93	100	85	18	100	108	158	100	66	86	48	3	54	12	157	0	234	6	82

See footnotes on p. 155.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

JUNEAU, ALASKA

[ϕ=58°18′ N.; λ=134°24′ W.]

Month	Pressure: Monthly mean[5]	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
	In.	In.	In.	°	°	°	°	°	°	°	°	°	°	°	%	%	%	In.	In.	In.	In.	In.	In.				
January	29.76	30.37	28.99	26.1	27.5	27.3	30.4	22.7	26.6	42	10	21	21	22	82	77	81	0.120	0.122	0.127	4.86	1.18	30.3	6.5	8.3	7.0	8.3
February	29.96	30.36	29.12	13.9	16.9	17.3	20.1	10.0	15.0	42	−5	1	−1	−1	58	45	44	.050	.048	.049	2.40	1.49	23.1	3.6	3.7	5.1	4.1
March	29.81	30.44	29.13	31.4	34.3	34.8	35.9	28.7	32.3	44	20	23	24	22	73	66	63	.133	.135	.129	7.74	1.35	30.7	6.7	7.4	7.2	7.2
April	29.86	30.27	29.24	37.8	46.5	47.1	48.9	35.0	42.0	62	24	31	31	31	78	59	59	.175	.177	.179	7.18	2.40	4.8	5.6	6.8	6.5	6.7
May	29.85	30.25	29.33	43.0	52.4	53.9	55.4	40.7	48.0	79	32	39	36	36	86	59	56	.239	.219	.219	5.59	.95	.0	8.0	8.1	8.1	7.8
June	29.83	30.10	29.33	53.7	65.1	66.8	69.4	51.3	60.4	80	44	46	44	44	78	51	49	.317	.295	.298	.54	.24	.0	5.7	5.6	5.6	5.8
July	29.84	30.15	29.33	53.0	60.0	61.5	63.7	51.1	57.4	79	44	49	50	49	88	72	69	.349	.363	.355	6.48	1.35	.0	7.4	7.9	7.7	8.0
August	29.94	30.22	29.62	52.7	61.2	63.7	64.9	50.8	57.8	76	45	50	51	52	91	71	67	.357	.376	.383	2.76	.64	.0	6.6	7.3	6.5	7.0
September	29.89	30.31	29.36	47.8	52.5	52.9	54.8	45.1	50.0	67	34	43	42	43	85	72	73	.285	.279	.285	12.34	2.69	T	7.3	7.9	8.0	7.9
October	29.89	30.32	29.29	46.1	48.4	48.7	51.1	42.7	46.9	60	29	43	44	44	90	85	86	.285	.292	.299	18.71	2.14	T	8.8	9.1	8.7	9.1
November	29.85	30.39	28.97	41.9	42.9	43.0	45.7	38.6	42.2	54	30	38	38	38	85	84	83	.231	.237	.234	25.87	3.80	8.2	9.0	9.4	9.2	9.7
December	29.61	30.25	28.78	28.0	28.7	28.0	31.2	24.5	27.8	44	10	20	21	21	74	72	74	.121	.119	.121	9.11	3.20	43.2	8.4	7.5	7.5	7.8
Year	29.84	30.44	28.78	39.6	44.7	45.4	47.6	36.8	42.2	80	−5	34	33	33	81	68	67	.222	.222	.223	103.58	3.89	140.3	7.0	7.4	7.3	7.4

KODIAK, ALASKA

[ϕ=57°48′ N.; λ=152°24′ W.]

Month	Pressure: Monthly mean[5]	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
January	29.28	30.31	28.68	34.4	-----	36.8	38.7	31.7	35.2	43	18	---	---	---	---	---	---	-----	-----	-----	8.14	1.09	4.7	7.9	---	8.4	8.6
February	29.70	30.21	28.59	33.3	-----	36.4	39.8	29.8	34.8	54	1	---	---	---	---	---	---	-----	-----	-----	4.75	.87	12.9	7.4	---	7.7	7.7
March	29.62	30.35	28.72	28.1	-----	35.5	38.2	25.2	31.7	46	2	---	---	---	---	---	---	-----	-----	-----	1.97	.66	7.0	4.9	---	6.0	5.9
April	29.73	30.19	28.91	33.9	-----	44.0	46.5	31.7	39.1	62	23	---	---	---	---	---	---	-----	-----	-----	1.10	.72	1.4	5.9	---	6.0	6.0
May	29.51	30.01	28.53	39.4	-----	44.0	46.9	37.5	42.2	53	33	---	---	---	---	---	---	-----	-----	-----	8.44	1.69	T	8.5	---	8.6	8.5
June	29.78	30.09	29.37	49.7	-----	60.8	64.3	47.7	56.0	78	36	---	---	---	---	---	---	-----	-----	-----	1.27	.44	.0	6.0	---	5.4	5.2
July	29.75	30.06	29.31	54.5	-----	64.5	68.4	52.3	60.4	81	45	---	---	---	---	---	---	-----	-----	-----	.76	.37	.0	6.1	---	6.0	5.9
August	29.80	30.16	29.38	53.3	-----	60.4	62.9	51.4	57.2	70	48	---	---	---	---	---	---	-----	-----	-----	4.53	.92	.0	6.3	---	8.0	7.8
September	29.78	30.21	28.98	47.0	-----	53.9	56.1	44.7	50.4	63	35	---	---	---	---	---	---	-----	-----	-----	5.75	1.42	.0	7.0	---	8.1	7.9
October	29.46	30.06	28.54	45.1	-----	49.8	52.6	41.9	47.2	58	34	---	---	---	---	---	---	-----	-----	-----	11.59	2.60	T	7.6	---	8.0	7.8
November	29.44	30.05	28.49	35.8	-----	39.4	42.7	32.5	37.6	54	9	---	---	---	---	---	---	-----	-----	-----	11.61	2.64	14.6	6.0	---	8.1	7.9
December	29.58	30.40	28.60	30.1	-----	32.6	35.7	26.4	31.0	44	8	---	---	---	---	---	---	-----	-----	-----	1.93	.63	7.0	---	---	-----	-----
Year	29.62	30.18	28.84	40.4	-----	46.5	49.4	37.7	43.6	81	1	---	---	---	---	---	---	-----	-----	-----	61.84	2.64	47.6	---	---	-----	-----

NOME, ALASKA

[ϕ=64°30′ N.; λ=165°24′ W.]

Month	Pressure: Monthly mean[5]	Pressure: Extremes: Maximum	Pressure: Extremes: Minimum	Temperature: Mean: 8 a. m.[1]	Temperature: Mean: Noon, local time	Temperature: Mean: 8 p. m.[1]	Temperature: Mean: Maximum	Temperature: Mean: Minimum	Temperature: Mean: Monthly	Temperature: Extremes: Maximum	Temperature: Extremes: Minimum	Moisture: Dew point: 8 a. m.[1]	Moisture: Dew point: Noon, local time	Moisture: Dew point: 8 p. m.[1]	Moisture: Relative humidity: 8 a. m.[1]	Moisture: Relative humidity: Noon, local time	Moisture: Relative humidity: 8 p. m.[1]	Moisture: Vapor pressure: 8 a. m.[1]	Moisture: Vapor pressure: Noon, local time	Moisture: Vapor pressure: 8 p. m.[1]	Moisture: Precipitation: Total	Moisture: Precipitation: Maximum in 24 hours	Moisture: Precipitation: Total snowfall	Moisture: Cloudiness: 8 a. m.[1]	Moisture: Cloudiness: Noon, local time	Moisture: Cloudiness: 8 p. m.[1]	Moisture: Cloudiness: Daylight
January	29.72	30.46	29.00	8.3	-----	10.3	14.7	1.8	8.2	35	−24	2	---	2	74	---	68	0.057	-----	0.056	0.96	0.34	6.9	5.2	---	7.8	7.5
February	30.11	30.61	29.45	8.8	-----	11.7	14.6	2.4	8.5	32	−25	2	---	2	71	---	64	.052	-----	.054	.56	.34	8.1	3.8	---	5.2	5.4
March	29.82	30.55	29.02	2.4	-----	8.9	12.1	−4.7	3.7	37	−25	−5	---	0	70	---	64	.044	-----	.051	1.52	.40	16.2	4.2	---	5.5	4.8
April	29.94	30.32	29.13	24.3	-----	30.6	32.0	20.0	26.0	43	−2	17	---	20	72	---	64	.099	-----	.112	.89	.40	6.9	5.3	---	5.6	5.4
May	29.64	30.05	29.01	36.9	-----	45.4	48.3	33.4	40.8	57	24	30	---	33	76	---	63	.170	-----	.189	.52	.16	.1	5.8	---	5.8	5.9
June	29.92	30.41	29.63	46.1	-----	51.9	56.2	41.8	49.0	74	33	42	---	42	85	---	69	.267	-----	.265	1.67	.60	.0	7.3	---	7.5	7.2
July	29.88	30.30	29.27	49.7	-----	54.9	57.9	45.8	51.8	84	35	47	---	48	90	---	79	.324	-----	.333	2.36	.80	.0	8.2	---	7.7	7.7
August	29.87	30.23	29.39	49.4	-----	55.7	57.8	44.4	51.1	71	29	48	---	50	95	---	82	.339	-----	.365	3.56	.83	.0	6.9	---	7.0	7.3
September	29.85	30.51	29.27	40.0	-----	47.5	49.1	36.2	42.6	58	24	38	---	40	92	---	76	.233	-----	.249	2.61	.54	1.0	5.4	---	7.7	7.5
October	29.68	30.28	29.32	29.3	-----	35.5	36.7	23.0	29.8	55	10	24	---	28	79	---	73	.129	-----	.151	2.04	.67	7.6	6.0	---	6.6	7.1
November	29.73	30.24	28.86	19.3	-----	20.8	23.5	13.6	18.6	41	−10	15	---	15	80	---	76	.097	-----	.098	1.34	.54	7.6	5.1	---	5.3	5.5
December	29.65	30.16	28.92	6.1	-----	7.8	12.4	−.5	6.0	34	−22	1	---	3	76	---	77	.051	-----	.053	1.49	.41	13.4	5.7	---	8.2	8.0
Year	29.82	30.61	28.86	26.7	-----	31.8	34.6	21.4	28.0	84	−25	22	---	24	80	---	71	.155	-----	.155	19.52	.83	67.8	5.7	---	6.7	6.6

See footnotes p.155.

TABLE 16.—*Annual meteorological summaries for the year ended Dec. 31, 1936*—Continued

JUNEAU, ALASKA

[H=72 ft.; H_b=80 ft.; h_t=96 ft.; h_r=88 ft.; h_a=116 ft.]

Month	Wind: By self-register: Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	Number of winds, 8 a. m.[1] and 8 p. m.[1]: North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Number of days: Clear	Partly cloudy	Cloudy	Precipitation: 0.01 inch or over	0.04 inch or over	Snow: T or more	0.01 inch or more melted	Hail	Fog: Light	Dense	Maximum temp.: 32° or below	90° or above	Minimum temperature 32° or below	Electricity: Thunderstorm	Aurora
	Mi.		*Mi.*																										
January	6.3	S.	25	E.	0	0	4	1	12	24	0	16	2	3	4	4	23	18	13	18	14	0	6	4	19	0	29	0	2
February	10.6	NE.	30	NE.	0	1	15	12	15	6	1	6	1	1	15	5	9	6	5	11	5	0	0	0	25	0	29	0	4
March	8.8	SE.	27	NE.	0	1	6	10	20	10	3	8	4	0	6	4	21	19	19	18	13	0	0	0	7	0	24	0	5
April	6.8	W.	24	SE.	0	1	2	1	16	14	8	16	1	1	8	3	19	14	12	7	4	0	2	0	0	0	5	0	7
May	6.1	S.	24	SE.	0	2	0	3	7	27	4	12	0	7	5	2	24	22	17	0	0	0	0	0	0	0	0	0	0
June	5.9	S.	25	SE.	0	1	4	2	2	26	5	9	1	10	11	6	13	9	5	0	0	0	2	0	0	0	0	0	0
July	6.0	S.	20	SE.	0	0	1	2	11	27	5	10	0	6	3	7	21	22	18	0	0	0	3	2	0	0	0	0	0
August	4.7	S.	21	SE.	0	0	1	1	2	28	5	9	4	12	8	4	19	17	12	0	0	0	4	0	0	0	0	0	0
September	6.7	S.	29	SE.	0	2	5	2	12	22	2	11	2	2	6	1	23	22	20	1	0	0	1	0	0	0	0	0	0
October	7.7	S.	30	SE.	0	0	0	1	21	17	3	11	1	8	2	3	26	27	27	1	0	0	9	2	0	0	3	0	4
November	9.5	S.	31	SE.	0	0	3	3	28	17	1	6	1	1	0	3	27	28	28	5	1	0	1	1	0	0	4	0	1
December	9.0	S.	25	E.	0	3	12	7	12	13	1	8	4	2	5	5	21	25	20	24	20	0	0	0	16	0	23	0	0
Year	7.3	S.	31	SE.	0	11	53	45	158	231	38	122	21	53	73	47	246	229	196	85	57	0	28	9	67	0	117	0	23

KODIAK, ALASKA

[H=147 ft.; H_b=15 ft.; h_t=5 ft.; h_r=4 ft.; h_a=—ft.]

Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	7.8	NE.	34	NE.	3	4	23	0	15	3	5	1	11	0	2	4	25	26	22	11	6	0	8	3	2	0	16	0	0
February	7.1	NE.	30	SW.	2	2	18	1	10	3	9	4	11	0	5	5	19	17	15	8	8	0	5	3	1	0	15	0	0
March	7.9	SW.	33	SE.	5	0	4	1	9	8	25	4	11	0	9	11	11	10	8	13	7	0	1	0	3	0	29	0	1
April	6.4	NW.	29	W.	1	1	10	7	6	8	10	5	13	0	10	5	15	8	5	9	3	0	1	7	1	0	13	0	3
May	10.8	SE.	33	SE.	2	1	11	5	37	2	2	2	1	1	1	6	24	24	19	1	0	1	2	2	0	0	0	0	0
June	4.9	NE.	20	------	0	7	14	5	10	7	4	4	8	1	11	8	11	7	4	0	0	0	2	7	0	0	0	1	0
July	5.6	NE.	24	SW.	0	5	13	4	7	4	10	8	11	0	10	9	12	7	4	0	0	0	3	2	0	0	0	0	0
August	5.4	NE.	29	SE.	0	5	19	3	14	5	9	1	6	0	3	9	19	20	17	0	0	0	4	5	0	0	0	0	0
September	6.3	NE.	29	SE.	0	3	14	6	9	1	9	4	14	0	5	4	21	17	14	0	0	0	8	0	0	0	0	0	1
October	7.4	NW.	26	------	0	2	12	1	13	7	9	3	15	0	1	9	21	22	18	1	0	0	3	2	0	0	0	0	1
November	8.5	NW.	40	NE.	6	3	5	2	13	8	8	3	18	0	1	10	19	21	18	9	6	0	2	1	3	0	10	0	0
December	10.6	NW.	42	NW.	----	----	----	----	----	----	----	----	----	----	9	7	15	9	8	7	3	----	----	1	8	0	22	0	0
Year	7.4	NE.	42	NW.	----	----	----	----	----	----	----	----	----	----	67	87	212	188	152	59	33	----	----	33	18	0	105	1	6

NOME, ALASKA

[H=28 ft.; H_b=22 ft.; h_t=5 ft.; h_r=2 ft.; h_a=32 ft.]

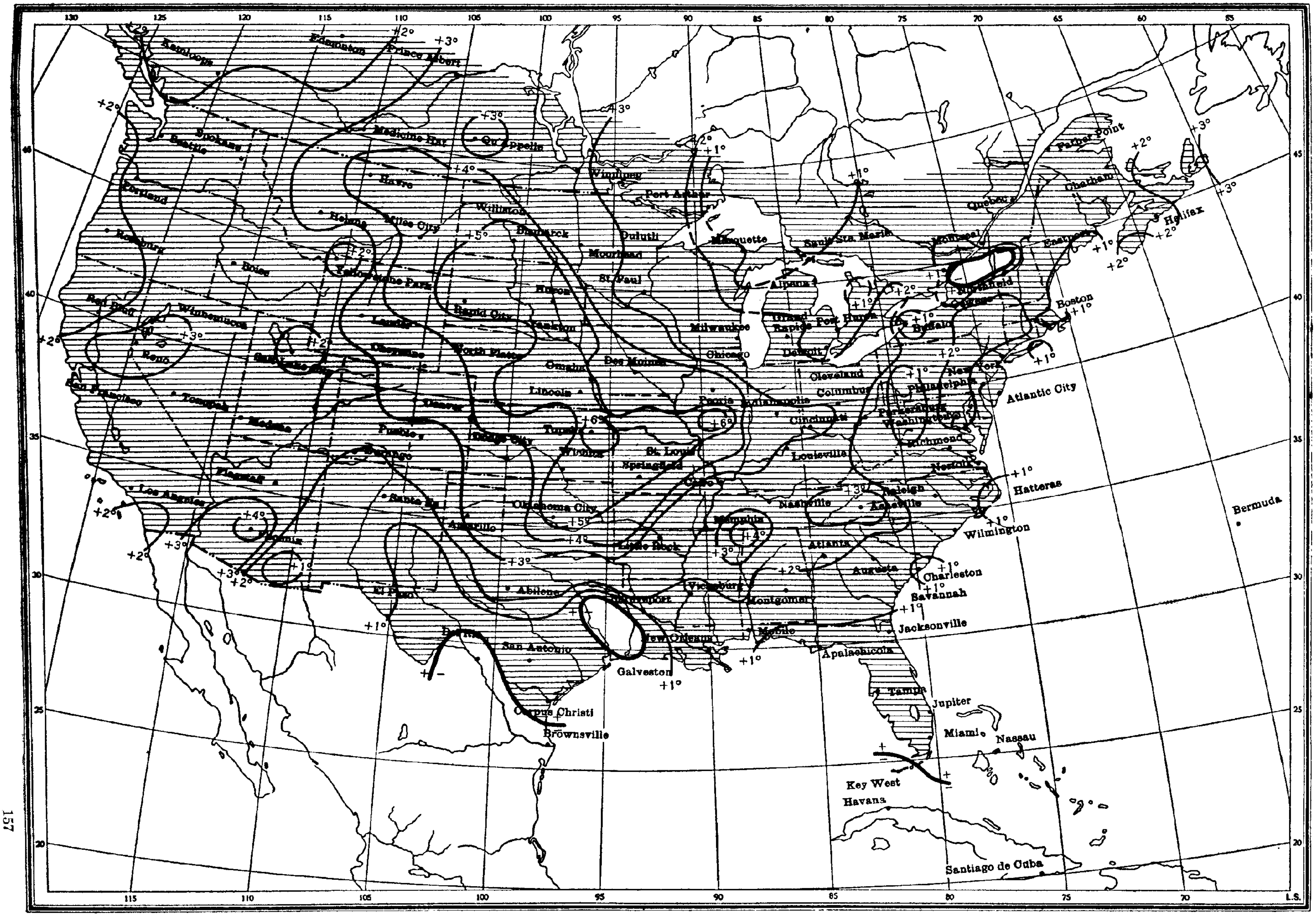
Month	Average hourly velocity	Prevailing direction	Maximum velocity	Direction at time of maximum velocity	Days with 32 miles or over	North	Northeast	East	Southeast	South	Southwest	West	Northwest	Calm	Clear	Partly cloudy	Cloudy	0.01 inch or over	0.04 inch or over	T or more	0.01 inch or more melted	Hail	Light	Dense	32° or below	90° or above	Minimum temperature 32° or below	Thunderstorm	Aurora
January	11.4	NE.	54	N.	6	16	31	9	0	1	1	1	3	0	5	5	21	11	6	24	10	0	0	0	28	0	31	0	5
February	11.7	NE.	47	NE.	3	9	37	7	0	1	1	1	1	1	13	3	13	9	3	11	9	0	2	1	29	0	29	0	17
March	9.0	NE.	40	NE.	3	12	20	14	0	2	1	3	8	2	13	9	9	13	10	18	13	0	7	0	27	0	31	0	13
April	9.6	E.	38	NE.	2	8	17	14	4	4	2	6	1	4	11	6	13	10	6	15	9	0	5	1	11	0	30	0	6
May	8.9	NE.	31	NE.	0	8	19	8	9	3	6	3	4	2	6	15	10	9	4	4	1	1	3	1	0	0	13	0	0
June	7.6	W.	20	SW.	0	5	2	4	9	9	19	7	1	4	3	13	14	14	8	0	0	0	12	2	0	0	0	0	0
July	7.9	W.	25	S.	0	8	4	1	8	11	15	13	4	0	5	6	20	13	10	0	0	0	10	1	0	0	0	0	0
August	8.1	S.	32	SW.	1	9	6	4	9	10	11	11	2	0	6	8	17	16	14	0	0	0	3	1	0	0	1	1	3
September	9.5	NE.	30	SW.	0	8	16	7	4	3	8	3	9	2	4	7	19	16	12	2	1	1	6	1	0	0	6	0	3
October	9.1	NE.	34	NE.	1	10	24	6	8	3	3	1	6	1	7	5	19	14	8	15	12	1	8	1	6	0	28	0	10
November	10.6	NE.	34	N.	1	17	25	8	1	1	0	1	6	1	13	2	15	14	10	11	11	0	7	0	23	0	27	0	13
December	9.2	NE.	40	SW.	3	11	22	10	7	2	2	3	5	0	4	4	23	12	9	16	12	0	11	0	28	0	31	0	2
Year	9.4	NE.	54	N.	20	119	223	92	59	50	69	53	50	17	90	83	193	151	100	116	78	3	74	9	152	0	227	1	72

[1] Hours at Dutch Harbor, 12 a. m. and 12 p. m., 165th meridian time; at Barrow, Fairbanks, and Kodiak, 2 a. m. and 2 p.m., 150th meridian time; at Nome 1 a. m. and 1 p. m., 165th meridian time.

[2] No diurnal correction applied.

[3] By eye observation.

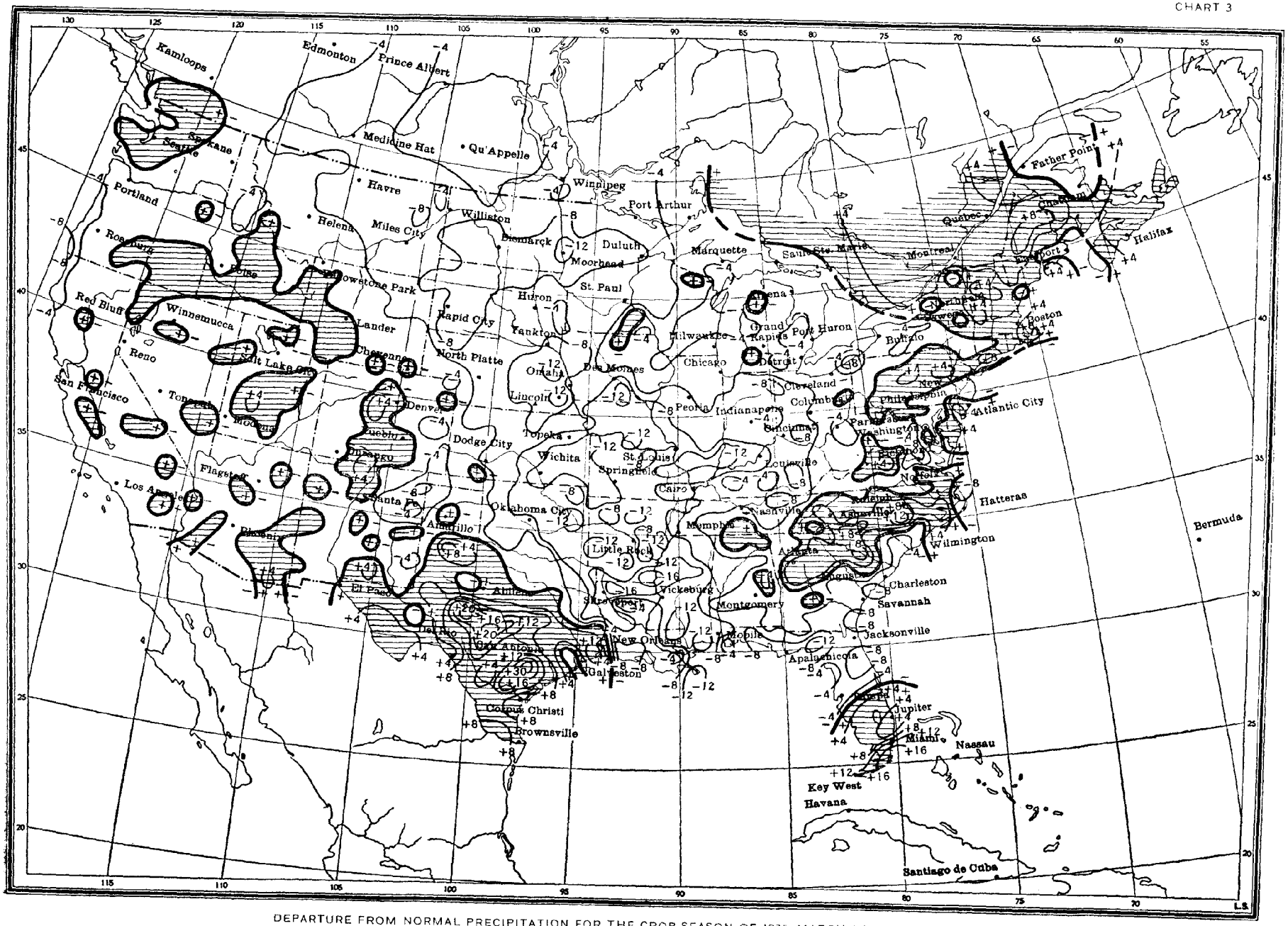
CHART 1



DEPARTURE FROM NORMAL TEMPERATURE, IN DEGREES FAHRENHEIT, FOR THE CROP SEASON OF 1936, 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 1938, MARCH 1 TO SEPTEMBER 30



DEPARTURE FROM NORMAL PRECIPITATION FOR THE CROP SEASON OF 1936, MARCH 1 TO SEPTEMBER 30

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

CHART 4

TOTAL PRECIPITATION, INCHES, FOR THE YEAR 1936