METEOROLOGICAL TABLES.

[*Prepared by the Division of Records and Meteorological Data.*]

Table I gives, for 140 Weather Bureau stations making two observations daily and for 10 others making only the 8 p. m. observation, the data ordinarily needed for climatological studies, viz, the monthly mean pressure, the monthly means and extremes of temperature, the average conditions as to moisture, cloudiness, movement of the wind, and the departures from normals in the case of pressure, temperature, and precipitation.

The stations are arranged in geographical or climatological divisions, for each of which the mean temperature and average precipitation for the month are also given, together with their departures from normal values.

Generally the headings of the several columns are sufficiently explicit as to the data underneath.

The mean pressure is based on the 8 a. m. and 8 p. m. simultaneous observations. Mean values thus computed differ from the mean of the 24 hourly readings by amounts varying from zero to 0.02 of an inch; the departures east of the ninetieth meridian are generally above the mean of 24 hourly readings and those west of that meridian are generally below. A comparison for each individual station can readily be made in connection with the data given in Table VI.

The pressures have been reduced to sea level by the empirical method published by Prof. H. A. Hazen in Signal Service Professional Paper No. VI, which, however, has been further modified for a few special stations.

The mean temperature of the dew point and the mean relative humidity are based on daily observations of the whirled psychrometer at 8 a. m and 8 p. m.

The maximum wind velocities given in the table are the velocities as read from the sheets of the register for any 5-minute period in the 24 hours, midnight to midnight, seventy-fifth meridian time.

The number of clear and cloudy days and the average cloudiness are based upon numerous personal estimates by the observer during the daytime and do not relate to the nighttime.

When these personal estimates give from 0 to 3 cloudiness, on a scale of zero to ten (0—10), the day is classed as clear; 4 to 7, partly cloudy; and 8 to 10, cloudy.

Table II gives, for about 2,200 stations occupied by voluntary observers, the extreme maximum and minimum temperatures, the mean temperature deduced from the average of all the daily maxima, and minima, or other readings, as indicated by the numeral following the name of station; and the total monthly precipitation.

For the sake of uniformity the monthly mean temperature has been deduced from readings of self-registering maximum and minimum thermometers whenever practicable. Formerly the means obtained by the use of observations at 7 a. m., 2 and 9 p. m. were printed in this table, whenever given, in preference to those deduced from the daily extremes.

These stations are arranged alphabetically by States, and their reports are generally received through the co-operation of the respective State Weather Services. The voluntary stations in the Republic of Mexico and those in the West Indies are included in this list for convenience of tabulation.

Table III gives, for about 30 Canadian stations, the mean pressure, mean temperature, total precipitation, prevailing wind, and the respective departures from normal values. Reports from Newfoundland and the Bermudas are included in this table for convenience of tabulation.

The mean pressures and temperatures here given are based upon observations made simultaneously for telegraphic purposes at 8 a. m. and 8 p. m., seventy-fifth meridian time; the pressures have been reduced to sea level by the Weather Bureau method and, therefore, differ slightly from those reduced by the method employed by the Canadian Meteorological Service.

Table IV gives for 36 stations the percentages of hourly sunshine as derived from the automatic records made by two essentially different types of instruments, designated, respectively, as the thermometric recorder and the photographic recorder. The kind of instrument used at each station is indicated in the table by the letter T or P in the column following the name of the station.

The thermometric recorder operates on the principle of a Leslie differential air thermometer, one of the bulbs being blackened. It is fully described in the "American Meteorological Journal," Vol. IX, pp. 345–349. The record is produced electrically. Whenever the intensity of the sunshine surpasses a certain minimum limit and the heating action on the blackened thermometric bulb is sufficient to cause a mercurial column to rise above the upper of two platinum wires the recorder will be put in electrical communication with the register. By means of the clock driving the record sheet the electrical circuit is closed momentarily once each minute, causing a succession of minute marks on the record sheet. The intensity of sunshine above this limit is not recorded. The instrument is adjusted by trial and observation so that a record will just be made when the cloudiness is not sufficient to quite obscure the disk of the sun. Denser cloudiness than this, so that the exact form of the sun's disk can not be seen with the unaided eye, will cause an interruption of the record.

The photographic recorder operates on the principle of Jordan's recorder. The record sheets for this instrument are sensitized each month with the ordinary blue-print solution, and are generally used only for a period of fifteen days, a new sheet being then introduced, but the instrument can be used for a whole month's record without changing the sheets.

Neither of these instruments will record satisfactorily the duration of the sunshine for about one hour after sunrise and one hour before sunset and, on this account, it has been considered necessary to apply to the recorded hours of sunshine what has been designated a "twilight correction." The amount of this correction is found from a table of the time of sunrise and sunset, noting, in connection therewith, the time of beginning and ending of sunshine on the automatic record. This correction is applied when we know, by personal observation, the comparative clearness of the sky at the time of sunrise or sunset, as the case may be.

Although the action of the thermometric recorder is based on the heating effect of the sun's rays, while that of the photographic recorder is based on the actinic effect, it is found there is not a very great difference between the two instruments. In general, however, the photographic recorder does not give such good results at stations where rain is more or less frequent and with comparatively high relative humidities, since under these conditions the sensitized paper deteriorates.

Although the thermometric recorders are regulated by standard eastern time, and the photographic recorders by a sun dial or local apparent time, yet the readings from the record sheets are adjusted to local mean time. The last column gives the percentage of sunshine deduced by taking

the complement of the local observer's estimate of cloudiness, which latter is published in Table I.

Table V gives for 79 stations the mean hourly temperatures deduced from thermographs of the well-known pattern manufactured by Richard Bros., Paris, described and figured in the report of the Chief of the Weather Bureau, 1891–'92, p. 29. These instruments are placed in the standard shelter with other thermometers, and are checked twice daily, for time errors and for agreement with the standard whirled thermometer.

In transcribing the hourly values, the readings of the dry-bulb thermometer of the whirled psychrometer at 8 a. m. and 8 p. m. are adopted as the standard of reference, and these standard readings are given in the appropriate columns of Table V. Corrections for intermediate hours, interpolated from the known differences at 8 a. m, and 8 p. m., are applied to the curve throughout the twenty-four hours, thus making it conform as closely as practicable to the indications of the standard mercurial thermometer. The averages given in this table are, therefore, those of the standard dry thermometer at 8 a. m. and 8 p. m., and the corrected thermograph reading for intermediate hours.

In general the magnitude of the corrections applied is about 1° Fahrenheit, although a number of instruments accord with the standard dry thermometer within less than a degree.

As has been noted elsewhere, the greatest differences are those between the daily extremes registered by thermographs and by standard self-registering maximum and minimum thermometers, respectively.

Table VI gives for 68 stations the mean hourly pressures (seventy-fifth meridian time) as automatically registered by barographs of the pattern manufactured by Richard Bros., Paris, except for Washington, D. C., where Foreman's barograph is in use. Both instruments are described in the Report of the Chief of the Weather Bureau for 1891–'92, pp. 26 and 30.

The readings of the mercurial barometer at 8 a. m. and 8 p. m., seventy-fifth meridian time, corrected for temperature and instrumental error, are used as a means of checking and correcting the barograph curve, in the same manner as described in the table of temperature means, and are those given in this table.

The corrections applied to the individual hourly barograph readings vary in magnitude. The average is about 0.02 of an inch, while in extreme cases it may be 0.06 or 0.08 of an inch, depending somewhat on the individual skill of the observer in keeping the instrument in adjustment.

The means have not been reduced to sea level, neither has a correction to reduce to standard gravity been applied.

Although the mean pressures are given in this table to the nearest thousandth of an inch, yet it is probable that these figures still need appreciable systematic corrections, therefore, as in the case of so many other similar European series, caution should be exercised in using them for the investigation of diurnal periodicities of pressure. The adopted process of reduction to the standard mercurial barometer prevents the accumulation of any progressive error, whether due to the time scale or to the vacuum box, but does not inform us of any periodic errors that may have occurred within the 12-hour periods. On this latter point we have only the little knowledge that is given to us by a general investigation into the effect of temperature on these aneroids. In this respect Prof. Marvin's experiments have shown that, although the manufacturer has introduced a compensation for temperature (presumably by introducing some air into the vacuum box), yet this result has not always been perfectly satisfactory. Several aneroids have been found to show higher pressures when the instrumental temperature rises, while others do the reverse. In a number of cases a rise of 10° F., in the instrumental temperature produces a fall of 0.010 or 0.015 of an inch in the recorded pressure.

In general, it is safe to assume that any one of the Richard barographs at Weather Bureau stations is liable to a temperature correction of this amount, although the average of several instruments would undoubtedly be much smaller. Since the highest temperature, and, therefore, the largest plus or minus correction for temperature, generally occurs some time after the 8 a. m. reading, and *vice versa*, the lowest temperature with the largest minus or plus correction occurs before the 8 a. m. reading; therefore, there is introduced into every daily barograph record an error that will be either positive between 8 p. m. and 8 a. m., and negative between 8 a. m. and 8 p. m., or *vice versa*. The average amount of the maximum value of this error for a month, varying as it does with the temperature of the room in which the aneroid is kept, may easily amount in the winter season to 0.02 of an inch, but when station barometers are located in large buildings of uniform temperature the limit will diminish. It is evident, therefore, that these hourly means can not be used for determining by the harmonic analysis the shorter and smaller periodicities, although they sometimes give the semi-amplitude of the principal simple daily component to within 0.01 of an inch, or less. To this extent, therefore, these may be cautiously used in the study of both the geographical and chronological distribution of this first component, a study whose importance undoubtedly warrants the preparation and publication of this table from month to month. Some of the results of such studies will be published in subsequent numbers of this REVIEW.

Table VII gives for 142 stations the arithmetical means of the hourly movements of the wind ending with the respective hours, as registered automatically by the Robinson anemometer, in conjunction with an electrical recording mechanism, described and illustrated in the Report of the Chief of the Weather Bureau, 1891–'92, p. 19. No corrections have been applied to reduce the registered velocities to true velocities.

In studying the diurnal variations of wind movement, the following facts should be kept in mind. In graduating the dials of the various sizes of Robinson anemometers, it has been assumed by the makers that the centers of the cups move only one-third as fast as the wind, although numerous experiments have demonstrated that cups and arms of various proportions require different formulæ and tables of reduction even in perfectly steady motion. Prof. Marvin has further shown that for ordinary gusty winds, when the anemometer cups rapidly vary their rate of rotation, the moment of inertia of the revolving parts is a most important factor. The instruments having the least inertia record most truly, and those having large inertia exceed these in proportion as the gusts are stronger, consequently, the anemometer records are liable to be too large in the gusty winds of the daytime as compared with the more steady winds of nighttime. No correction for this inertia error has been determined, nor can be, unless we have simultaneous records with two anemometers having different moments of inertia; therefore, the apparent diurnal variations of wind velocity include a slight inertia error which is probably periodic in character between the winds of daytime and nighttime.

While we must regard the gustiness of the ordinary wind, that is, its sudden and momentary fluctuations of velocity, as highly variable, yet in practical anemometry we can not do more than make an average allowance for its effects upon an anemometer.

For the ordinary gusty winds of the free atmosphere Prof.

Marvin adopts the following equation expressing the relation between the motion of the cups and the velocity of the wind at any moment:

$$\text{Log. } V = 0.509 + 0.9012 \log. v;$$

where V is velocity of wind in miles per hour and v is the linear velocity (also in miles per hour) of the cup centers. This equation applies strictly to anemometers that have 4-inch hemispherical brass cups on arms 6.72 inches long, whose revolving parts weigh about 590 grams (22 ounces) and have a moment of inertia of about 50,000 C. G. S. units.

This equation has been deduced from comparative observations in the open air of anemometers whose behavior in steady velocities on the whirling machine had been previously studied. The recognition thus given the important effects of inertia enables us to say that by applying this formula, or the following equivalent table, we partly annul the influence of the inertia of brass anemometers used by the Weather Bureau.

The following table gives the corrected velocities corresponding to observed velocities up to 90 miles per hour. The tabular values corresponding to indicated velocities greater than 60 miles per hour are uncertain, as direct experiments were not made at the higher velocity:

Wind velocities, as indicated by Weather Bureau anemometer, converted to true velocities (in miles per hour).

Indicated velocity.	0	1	2	3	4	5	6	7	8	9
0	.....	.....	.....	.....	.....	5.1	6.0	6.9	7.8	8.7
10	9.6	10.4	11.3	12.1	12.9	13.8	14.6	15.4	16.2	17.0
20	17.8	18.6	19.4	20.2	21.0	21.8	22.6	23.4	24.2	24.9
30	25.7	26.5	27.3	28.0	28.8	29.6	30.3	31.1	31.8	32.6
40	33.3	34.1	34.8	35.6	36.3	37.1	37.8	38.5	39.3	40.0
50	40.8	41.5	42.2	43.0	43.7	44.4	45.1	45.9	46.6	47.3
60	48.0	48.7	49.4	50.2	50.9	51.6	52.3	53.0	53.8	54.5
70	55.2	55.9	56.6	57.3	58.0	58.7	59.4	60.1	60.8	61.5
80	62.2	62.9	63.6	64.3	65.0	65.8	66.4	67.1	67.8	68.5
90	69.2	.....	.....	.....	.....	.....	.....	.....	.....	.....

Table VIII gives the resultant movements of the winds for 68 stations of self-registration as deduced from the continuous record for every hour of the month. The contents of the columns are as follows:

Column 1—the name and number of the station, the latter being the same as in tables I and IX for convenience of reference. Columns 2 and 3—the direction and duration of the prevailing wind, viz, that observed most frequently. Columns 4 and 5—the total movement in all directions for the whole month and the average hourly movement corresponding thereto. Column 6—the resultant direction, assuming the wind to have always a uniform velocity. Column 7—the duration in hours of this resultant direction, considered as a wind that has blown with the average velocity. Column 8—the approximate average hourly velocity in this resultant direction, found by dividing the resultant movement of column 10 by the resultant duration of column 7. Column 9—the direction of the resultant movement, computed by using the miles actually traveled each hour, as read from the registers. Column 10—the amount of the resultant movement in miles. Column 11—the azimuth of the resultant movement minus the azimuth of the resultant direction; these azimuths are counted around the circle from zero at the south through 90° at the west, and if the azimuth of the resultant movement is greater than that of the resultant direction, the difference in column 11 is called positive; the azimuth of the movement is equal to that of the direction plus the positive, or minus the negative differences. Column 12—the ratio of the resultant movement in column 10 divided by the total movement in column 4; this ratio would be unity in the ideal case of wind blowing from one direction only, but would be zero in the ideal case of equal opposing winds.

Table IX gives for 140 stations, or all that make observations at 8 a. m. and 8 p. m. (seventy-fifth meridian time), the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind in miles. The total movement for the whole month, as read from the dial of the Robinson anemometer, is given for each station in Table I. By adding the four components for the stations comprised in each geographical division one may obtain the average resultant direction for that region. From these resultant directions one may pass to the resultant movement, at least approximately, by applying the average corrections indicated by column 11 of Table VIII.

TABLE I.—*Climatological data for Weather Bureau Stations, March, 1894.*

Districts and stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure, in inches. Mean pressure, 8 a. m. and 8 p. m. ÷ 2.	Mean reduced.	Departure from normal.	Temperature of the air, in degrees Fahrenheit. Mean max. and min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Humidity and precipitation. Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.	Departure from normal.	Days with .01, or more.	Wind. Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Mean temperature data since opening of station. Highest for month.	Year.	Lowest for month.	Year.
New England.						39.1	+ 5.9										1.69	— 2.6														
Eastport	76	21	29.93	30.02	+ .14	33.4	+ 4.8	51	19	38	13	28	29	20	25	73	1.19	— 3.8	14	8,173	sw.	42	nw.	19	4	15	12	6.5	33.4	*	22.8	1885
Portland	103	23	29.91	30.02	+ .10	36.7	+ 5.9	71	19	44	14	27	30	31	30	78	1.97	— 1.4	11	5,699	s.	28	se.	23	7	16	8	5.5	38.8	1878	23.2	1872
Northfield	872	8	29.08	30.06	+ .08	34.0	+ 8.7	66	19	43	5	27	25	36	27	79	1.06	— 2.3	13	8,177	s.	39	n.	19	7	12	12	6.4	34.0	1894	21.1	1887
Boston	125	24	29.93	30.07	+ .12	42.5	+ 7.9	70	*	50	20	27	35	26	31	69	1.01	— 3.4	13	8,964	w.	36	w.	16	6	17	8	5.9	42.5	1894	26.8	1872
Nantucket	14	8	30.08	30.09	+ .14	39.3	+ 4.9	52	7	44	22	27	34	16	34	81	1.89	— 2.0	10	8,778	n.	34	nw.	14	11	13	7	5.3	39.3	1894	32.4	1888
Woods Holl	.....	16	.....	.....	.....	39.5	+ 3.7	53	7	45	22	27	34	17	.....	.....	1.81	— 3.0	12	11,216	sw.	47	nw.	14	8	18	5	5.2	40.5	1878	31.6	1888
Vineyard Haven	.....	8	.....	.....	.....	43.0	+ 6.8	60	7	50	22	27	36	25	.....	.....	2.28	— 2.2	11	.....	sw.	.....	.....	.....	9	10	12	.....	43.0	1894	33.6	1887
Block Island	27	14	30.07	30.10	+ .14	39.8	+ 4.8	58	22	45	22	27	34	19	34	83	2.15	— 1.9	10	10,553	nw.	42	nw.	14	11	15	5	5.1	39.8	1894	29.8	1885
Narragansett Pier	.....	12	.....	.....	.....	39.4	+ 6.1	59	*	46	15	27	32	24	.....	.....	1.97	— 2.4	13	.....	sw.	.....	.....	.....	19	1	11	.....	39.4	1894	28.9	1885
New Haven	107	22	29.97	30.09	+ .10	41.4	+ 7.0	65	19	50	19	27	33	26	33	78	1.15	— 3.6	9	6,209	s.	39	nw.	14	5	21	5	6.0	43.4	1878	26.9	1885
New London	45	24	30.07	30.12	+ .14	40.6	+ 4.5	63	22	48	18	27	33	23	32	76	2.07	— 2.9	17	5,606	nw.	32	nw.	14	13	8	10	5.3	41.5	1878	26.7	1872
Mid. Atlantic States.						47.4	+ 6.5										1.58	— 2.4														
Albany	85	21	30.00	30.10	+ .11	39.8	+ 6.8	75	19	48	17	27	31	28	30	73	0.85	— 2.1	14	6,764	s.	33	w.	14	7	14	10	5.9	39.8	1894	23.1	1885
New York, N. Y	185	24	29.91	30.11	+ .11	44.5	+ 7.3	69	6	53	20	27	36	31	34	72	1.69	— 2.4	12	7,745	nw.	42	nw.	14	8	13	10	5.4	44.5	1894	28.9	1872
Harrisburg	377	6	29.71	30.13	.....	44.1	.....	75	22	53	19	27	36	30	35	73	1.30	.....	8	5,571	w.	36	nw.	23	13	9	9	4.5	44.1	1894	33.0	1892
Philadelphia	117	24	30.00	30.12	+ .10	47.0	+ 8.0	77	22	56	21	27	38	29	35	69	1.45	— 1.7	10	7,620	nw.	36	nw.	14	12	8	11	5.3	48.6	1871	30.8	1885
Atlantic City	53	21	30.07	30.12	+ .12	44.0	+ 6.2	77	22	50	19	27	38	27	38	82	1.39	— 2.5	11	8,607	sw.	42	nw.	23	11	7	13	5.4	44.0	1894	31.4	1885
New Brunswick	.....	.....	.....	.....	.....	42.9	.....	71	19	53	18	1	33	35	.....	.....	1.74	.....	12	.....	nw.	.....	.....	.....	5	15	11	.....	.....	.....	.....	.....
Baltimore	179	24	29.92	30.12	+ .09	48.2	+ 6.1	82	22	57	20	27	39	35	34	63	1.19	— 2.9	8	5,872	nw.	37	w.	23	13	11	7	4.3	49.1	1878	35.3	1885
Washington, D. C.	112	24	30.02	30.14	+ .10	48.5	+ 7.1	83	22	58	20	27	38	36	35	66	0.98	— 3.2	7	5,504	nw.	37	nw.	23	15	10	6	4.0	49.4	1878	34.5	1885
Cape Henry	.....	20	.....	.....	.....	50.6	+ 5.5	85	23	59	26	27	42	35	.....	.....	2.77	— 2.6	12	.....	se.	.....	.....	.....	12	7	12	.....	52.4	1878	39.4	1885
Lynchburg	685	23	29.41	30.16	+ .11	51.9	+ 6.1	86	22	64	19	28	40	37	40	72	0.95	— 2.9	8	3,657	nw.	26	nw.	29	11	15	5	4.5	53.8	1878	39.0	*
Norfolk	57	24	30.08	30.15	+ .11	52.5	+ 5.5	88	22	62	24	27	43	32	44	81	2.94	— 1.6	11	6,028	n.	36	sw.	23	16	9	6	4.2	55.1	1871	40.8	1885
S. Atlantic States.						58.9	+ 5.3										2.26	— 2.4														
Charlotte	773	16	29.31	30.14	+ .09	56.6	+ 5.8	85	22	67	20	27	46	31	40	62	1.04	— 3.7	8	6,061	sw.	32	nw.	29	14	13	4	3.9	56.6	1894	45.3	1885
Hatteras	11	14	30.15	30.16	+ .12	55.6	+ 5.9	75	22	61	31	27	50	21	50	86	3.12	— 3.3	9	10,099	sw.	52	nw.	29	13	10	8	4.8	55.6	1894	44.4	1885
Kittyhawk	9	18	30.13	30.14	+ .10	51.8	+ 4.2	82	23	60	26	27	44	30	45	82	2.05	— 3.9	11	10,237	sw.	48	n.	26	14	9	8	4.3	53.1	1878	41.7	1885
Raleigh	388	8	29.73	30.16	+ .09	56.0	+ 7.7	89	22	66	21	27	46	33	43	69	2.14	— 2.8	11	5,008	sw.	28	sw.	23	16	7	8	4.1	56.0	1894	45.2	1891
Southport	34	19	30.14	30.17	+ .12	56.3	+ 4.4	73	20	63	26	27	49	29	51	85	2.33	— 1.6	10	7,097	sw.	38	s.	29	14	12	5	3.8	58.4	1878	45.8	1885
Wilmington	78	24	30.08	30.17	+ .12	59.6	+ 5.9	87	22	68	27	27	51	27	50	82	2.27	— 1.9	12	6,586	sw.	38	nw.	29	18	5	8	3.6	60.3	1871	48.0	1872
Charleston	52	24	30.14	30.18	+ .11	61.4	+ 4.7	84	22	69	32	27	54	24	51	80	1.78	— 2.2	8	5,912	sw.	27	w.	29	8	21	2	4.2	62.5	1871	52.1	1872
Columbia	.....	7	.....	.....	.....	60.4	+ 6.2	90	22	72	24	27	49	34	.....	.....	2.09	— 2.6	8	.....	sw.	.....	.....	.....	15	12	4	.....	60.4	1894	47.6	1891
Augusta	209	23	29.97	30.20	+ .11	60.4	+ 4.3	88	22	72	25	27	49	36	46	68	2.04	— 3.2	6	4,474	nw.	36	nw.	11	17	11	3	3.3	61.3	1878	49.5	1885
Savannah	98	24	30.08	30.19	+ .09	63.6	+ 4.8	88	22	73	31	27	54	30	53	80	2.81	— 0.8	8	6,488	s.	30	nw.	23	11	17	3	4.0	64.1	1880	53.1	1872
Jacksonville	43	23	30.14	30.19	+ .10	66.0	+ 4.0	87	18	76	32	27	56	33	54	76	3.12	— 0.1	7	5,512	s.	29	nw.	25	13	9	9	5.0	68.1	1880	57.6	1885
Florida Peninsula.						70.4	+ 1.1										0.82	— 1.1														
Jupiter	28	7	30.14	30.17	.....	70.1	+ 0.1	85	25	76	45	27	64	23	62	80	0.69	— 1.0	5	8,088	se.	33	n.	27	17	12	2	3.7	70.1	1894	64.8	1889
Key West	22	24	30.15	30.17	+ .07	73.9	+ 1.4	83	21	78	61	27	70	13	62	70	1.13	0.0	3	7,857	e.	38	w.	26	15	14	2	3.8	76.6	1874	69.4	1889
Tampa	36	.....	30.15	30.19	.....	68.3	.....	87	*	78	39	27	58	30	59	80	1.71	.....	6	4,899	w.	26	sw.	25	8	20	3	4.6	.....	.....	.....	.....
Titusville	44	7	30.15	30.19	.....	67.2	+ 1.7	88	25	76	38	27	58	27	60	82	0.64	— 2.4	4	10,048	se.	40	se.	6	20	11	0	2.5	67.2	1894	61.5	1889
Eastern Gulf States.						60.6	+ 2.3										6.52	+ 0.3														
Atlanta	1,131	16	28.97	30.18	+ .08	56.7	+ 5.2	82	22	67	19	27	47	34	42	66	2.99	— 3.2	11	7,574	nw.	38	nw.	25	12	16	3	4.0	57.0	*	47.0	*
Pensacola	56	15	30.09	30.15	+ .05	61.8	+ 1.3	79	21	68	29	27	55	24	55	81	7.52	+ 2.1	10	7,875	se.	35	nw.	6	14	8	9	4.7	65.4	1880	54.8	1885
Mobile	57	24	30.10	30.16	+ .07	60.5	+ 1.0	78	21	68	30	26	53	25	55	88	11.51	+ 4.1	14	7,195	s.	44	nw.	17	11	11	9	5.5	65.1	1882	53.5	1885
Montgomery	257	22	29.88	30.16	+ .07	60.6	+ 3.1	86	*	71	25	27	50	36	48	70	4.88	— 1.2	11	4,864	s.	29	nw.	26	10	14	7	5.0	62.6	1878	51.7	1885
Meridian	358	.....	29.75	30.14	.....	59.0	.....	85	*	70	23	27	48	40	50	79	5.34	.....	9	5,837	s.	43	s.	20	14	10	7	4.3	.....	.....	.....	.....
Vicksburg	254	23	29.83	30.10	+ .02	61.0	+ 2.5	84	18	71	27	27	51	28	48	69	6.27	— 0.1	15	6,809	se.	47	nw.	28	17	9	5	3.5	64.6	1878	52.8	1892
New Orleans	54	24	30.07	30.13	+ .06	63.0	+ 0.5	82	22	70	32	27	56	23	55	81	5.94	+ 0.3	13	7,778	se.	40	se.	20	14	9	8	4.6	67.9	1882	58.4	1885
Port Eads	.....	.....	.....	.....	.....	62.2	.....	78	22	68	41	26	56	20	.....	.....	3.35	.....	12	.....	ne.	.....	.....	.....	14	8	9	.....	.....	.....	.....	.....
Western Gulf States.						69.5	+ 1.3										6.13	+ 1.6														
Shreveport	249	23	29.80	30.06	.00	59.8	+ 1.3	82	13	69	30	26	50	28	48	70	8.04	+ 3.3	12	6,749	se.	54	nw.	18	14	6	11	4.9	65.3	1879	52.7	1892
Fort Smith	492	12	29.54	30.07	+ .03	53.8	+ 2.2	84	13	65	20	26	43	38	42	65	6.82	+ 4.0	9	6,237	e.	42	s.	17	15	8	8	4.5	54.4	1887	45.1	1891
Little Rock	302	15	29.76	30.08	.00	55.3	+ 1.7	84	13	64	24	26	46	37	43	69	9.08	+ 4.2	10	6,644	s.	45	nw.	18	12	6	13	5.5	58.9	1882	47.0	1891
Corpus Christi	20	8	30.02	30.04	— .01	64.5	+ 0.5	80	20	70	38	26	59	26	58	83	0.66	— 1.0	6	10,759	se.	36	se.	31	4	7	20	7.3	65.4	1887	60.0	1891
Galveston	42	23	30.05	30.09	+ .04	63.2	+ 0.7	76	11	68	38	26	58	19	57	85	1.96	— 1.2	8	9,690	se.	40	nw.	28	12	13	6	4.6	68.2	1879	58.6	1892
Palestine	511	13	29.51	30.07	.00	60.6	+ 1.4	85	15	70	27	29	51	31	48	69	4.59	+ 0.3	16	6,066	s.	32	se.	5	10	12	9	5.6	64.3	1882	52.6	1891
San Antonio†	679	17	29.35	30.07	+ .02	65.1	+ 2.9	93	18	76	32	26	54	38	43	52	0.80	— 1.4	4	7,079	se.	34	n.	28	11	9	11	4.9	70.2	1879	56.6	1888
Ohio Val. & Tenn.						51.0	+ 5.8										3.51	— 1.1														
Chattanooga	762	16	29.35	30.17	+ .09	55.6	+ 4.6	83	22	67	19	27	44	35	40	64	4.61	— 1.8	10	5,877	s.	44	w.	15	11	14	6	4.9	55.6	1894	45.6	1885
Knoxville	980	24	29.10	30.16	+ .07	53.6	+ 5.3	82	20	65	18	*	42	38	38	64	2.37	— 3.3	8	3,977	sw.	34	w.	19	16	10	5	3.8	54.3	1878	40.9	1872
Memphis	330	24	29.77	30.13	+ .06	56.4	+ 3.9	80	21	66	23	26	47	30	45	72	10.90	+ 5.1	12	6,742	se.	40	se.	5	17	5	9	4.2	59.3	1878	47.0	1872
Nashville	553	24	29.53	30.13	+ .07	53.8	+ 4.8	81	22	64	18	27	44	35	42	69	2.69	— 2.5	9	5,440	se.	32	s.	6	13	13	5	4.3	55.9	1878	41.8	1885
Lexington	989	11	29.03	30.11	.....	49.2	+ 4.8	81	20	59	14	27	40	31	35	63	2.13	— 3.4	9	10,530	sw.	48	sw.	20	10	8	13	5.8	49.2	1894	38.6	1890
Louisville	525	23	29.54	30.12	+ .05	51.4	+ 5.5	85	20	61	17	26	42	37	36	61	3.04	— 1.1	10	7,205	s.	39	w.	23	13	7	11	5.3	52.4	1878	38.8	1872
Indianapolis	766	24	29.24	30.08	+ .04	47.4	+ 7.5	80	20	56	12	26	39	31	35	67	2.82	— 1.1	11	6,064	se.	28	sw.	5	6	13	12	6.2	49.9	1878	33.0	1885
Cincinnati	628	24	29.42	30.11	+ .05	48.6	+ 5.8	82	20	57	16	26	40	33	36	65	2.36	— 1.1	8	6,144	se.	36	sw.	22	10	13	8	4.9	51.4	1878	33.2	1885
Columbus	868	16	29.17	30.12	+ .08	46.2	+ 7.4	78	20	55	15	27	38	31	35	70	1.79	— 1.4	10	8,739	nw.	51	nw.	13	12	5	14	5.5	46.2	1894	29.6	1885
Pittsburg	820	24	29.20	30.10	+ .06	47.4	+ 8.1	76	*	58	15	27	37	38	36	71	2.41	— 0.5	9	5,607	nw.	32	nw.	6	14	9	8	4.9	47.4	1894	30.7	1872
Parkersburg	638	6	29.43	30.13	.....	48.0	.....	86	20	59	16	27	37	40	35	67	2.46	.....	12	4,673	w.	35	w.	6	9	9	13	5.7	48.0	1894	36.7	1890
Lower Lake Region.						40.7	+ 8.3										1.70	— 1.0														
Buffalo	690	24	29.29	30.06	+ .06	38.8	+ 9.0	67	18	46	16	27	32	29	31	73	1.73	— 1.0	13	9,685	sw.	46	w.	23	6	18	7	6.1	40.9	1871	19.7	1885
Oswego	335	24	29.67	30.05	+ .05	37.5	+ 7.8	72	18	44	16	27	31	31	29	74	1.95	— 0.8	15	9,869	s.	36	nw.	14	5	12	14	6.5	41.9	1878	18.7	1885
Rochester	523	24	29.50	30.08	+ .08	40.0	+ 9.8	77	18	48	15	27	32	32	31	74	1.84	— 1.1	14	7,123	sw.	44	sw.	11	7	12	12	5.9	40.1	1878	20.0	1885
Erie	714	21	29.27	30.06	+ .05	40.6	+ 7.6	75	18	49	17	26	32	36	30	69	1.95	— 1.1	14	9,409	s.	36	s.	11	8	16	7	5.5	42.2	1878	25.0	1885
Cleveland	740	24	29.25	30.07	+ .03	42.3	+ 9.0	74	18	50	14	27	34	33	32	71	1.86	— 1.0	11	11,144	se.	48	sw.	13	12	9	10	5.5	43.1	1871	24.4	1885
Sandusky	629	17	29.37	30.06	+ .02	43.2	+ 8.9	76	18	51	14	27	35	31	32	69	1.64	— 1.0	10	7,897	s.	36	nw.	13	4	15	12	6.4	43.6	1878	27.0	1885
Toledo	674	24	29.30	30.04	+ .02	42.8	+ 8.0	75	18	51	11	26	34	31	32	70	1.26	— 0.9	11	9,351	sw.	43	w.	24	9	11	11	5.8	46.0	1878	28.1	1885
Detroit	724	24	29.24	30.04	+ .02	40.4	+ 6.5	72	18	48	12	26	33	27	31	73	1.39	— 1.0	11	10,192	sw.	44	w.	24	9	11	11	5.5	41.1	1878	25.6	1872
Upper Lake Region.						35.6	+ 8.9										2.74	+ 0.5														
Alpena	609	22	29.30	29.99	— .03	34.4	+ 10.8	77	18	41	8	27	28	40	29	84	1.73	— 0.3	13	9,130	se.	46	nw.	11	4	12	15	7.0	35.3	1878	13.1	1885
Escanaba	.....	23	.....	.....	.....	31.4	+ 11.0	54	31	38	6	27	25	31	.....	.....	2.22	+ 0.4	11	.....	se.	.....	.....	.....	6	11	14	.....	35.3	1878	14.0	1885
Grand Haven	628	23	29.29	29.99	— .03	38.1	+ 7.2	70	18	45	11	26	32	33	32	82	3.40	+ 1.0	13	10,236	sw.	38	sw.	11	5	11	15	6.5	42.6	1878	23.4	*
Marquette	734	23	29.11	29.93	— .11	30.7	+ 8.3	56	4	37	5	26	24	23	26	85	4.14	+ 2.7	20	8,973	nw.	41	sw.	3	9	17	14	7.6	39.9	1878	12.0	1885
Port Huron	639	20	29.32	30.04	+ .02	39.2	+ 10.3	72	18	47	10	26	32	32	30	74	1.28	— 1.7	16	10,427	s.	54	w.	24	8	12	11	5.6	39.7	1878	18.6	1885
Sault Ste. Marie	642	6	29.23	29.95	.....	28.2	.....	57	18	35	— 2	26	21	30	24	87	3.97	.....	22	7,500	se.	50	nw.	11	1	8	22	8.1	28.7	1889	17.8	1890
Chicago	824	24	29.11	30.01	— .03	41.2	+ 6.9	74	17	48	9	26	34	29	33	74	2.66	+ 0.1	10	16,485	sw.	61	nw.	10	11	13	7	5.2	44.3	1878	27.6	1872
Milwaukee	673	24	29.25	29.99	— .04	38.9	+ 8.7	66	*	46	9	26	32	28	30	75	2.53	0.0	10	9,406	sw.	50	w.	11	4	20	7	6.0	40.2	1878	23.3	1877
Green Bay	617	8	29.28	29.98	— .13	37.0	+ 11.5	69	18	44	8	26	30	30	28	72	2.39	— 0.1	13	8,136	s.	45	w.	11	1	11	19	7.7	37.0	1894	20.3	1888
Duluth	656	24	29.19	29.94	— .11	29.4	+ 5.5	51	3	36	— 5	25	23	31	24	84	4.30	+ 2.8	17	5,634	ne.	36	ne.	22	5	8	18	7.2	39.4	1878	14.8	1872
North Dakota.						25.2	+ 5.2										1.76	+ 1.0														
Moorhead	935	14	28.90	29.97	— .13	27.4	+ 6.9	53	*	35	— 11	25	20	31	21	82	1.82	+ 1.1	10	9,608	nw.	60	nw.	24	5	16	10	6.5	32.6	1889	12.3	1888
Saint Vincent	804	14	29.06	29.98	— .14	21.7	+ 6.6	48	2	31	— 12	6	12	34	19	94	1.20	+ 0.6	9	8,378	n.	50	n.	23	13	6	12	5.5	30.4	1889	7.8	1888
Bismarck	1,698	20	28.11	30.02	— .08	26.4	+ 2.2	64	16	35	— 10	26	18	36	15	65	2.27	+ 1.2	8	9,716	nw.	53	nw.	23	17	7	7	4.4	40.2	1878	12.2	1876
Williston ‖ †	1,874	16	27.93	30.02	— .06	23.8	— 1.1	52	16	32	— 13	25	15	36	16	71	2.23	+ 1.8	8	8,578	n.	54	nw.	23	7	8	16	6.5	35.2	1889	13.1	1888
Upper Miss. Valley.						44.1	+ 7.4										2.70	+ 0.4														
Minneapolis	.....	.....	.....	.....	.....	36.4	.....	76	17	46	— 2	25	27	36	.....	.....	2.72	.....	12	.....	se.	.....	.....	.....	9	8	14	.....	.....	.....	.....	.....
Saint Paul	850	23	29.01	29.96	— .10	34.6	+ 6.1	76	17	42	— 2	25	27	35	26	73	3.28	+ 1.9	13	7,526	se.	38	nw.	10	9	7	15	6.4	44.3	1878	18.2	1888
La Crosse	720	22	29.17	29.97	— .07	38.8	+ 8.1	78	17	48	6	25	30	35	29	71	1.89	+ 0.3	10	7,384	s.	38	s.	11	6	16	9	6.0	46.9	1878	22.2	1888

TABLE I.—*Climatological data for Weather Bureau Stations, March*, 1894—Continued.

Districts and stations.	Elevation above sea-level, feet.	Length of record, years.	Pressure, in inches. Mean pressure, 8 a. m. and 8 p. m. ÷ 2.	Mean reduced.	Departure from normal.	Temperature of the air, in degrees Fahrenheit. Mean max. and min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Humidity and precipitation. Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.	Departure from normal.	Days with .01, or more.	Wind. Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Mean temperature data since opening of station. Highest for month.	Year.	Lowest for month.	Year.
Up. Miss. Val.—Con.																																
Davenport	613	23	29.33	30.00	— .06	43.4	+ 8.5	78	17	52	6	25	35	29	33	72	1.88	— 0.3	8	9,320	sw.	60	sw.	10	8	15	8	5.3	48.2	1878	28.7	1877
Des Moines	869	16	29.04	30.00	— .06	42.6	+ 7.6	81	17	53	4	25	33	34	30	67	1.78	+ 0.4	8	8,209	sw.	42	sw.	10	15	9	7	4.9	42.6	1894	28.8	1891
Dubuque	651	21	29.27	29.99	— .05	41.4	+ 8.2	78	17	50	7	25	32	34	32	73	3.06	+ 0.8	10	5,494	se.	34	w.	10	9	13	9	5.6	45.4	1878	26.7	1888
Keokuk	613	23	29.34	30.01	— .03	46.2	+ 8.3	79	21	56	8	25	36	34	34	67	2.52	+ 0.4	8	7,981	sw.	42	nw.	10	15	8	8	4.4	50.4	1878	31.1	1891
Cairo	359	23	29.70	30.09	+ .05	52.4	+ 5.3	78	21	61	17	26	44	29	43	73	4.14	+ 0.3	9	8,293	s.	44	sw.	22	12	11	8	5.0	57.6	1878	42.5	*
Springfield, Ill	644	15	29.34	30.05	— .01	46.6	+ 6.7	79	21	56	8	25	37	31	34	68	3.09	+ 0.5	9	9,150	s.	36	s.	10	12	11	8	4.9	46.6	1894	33.8	1891
Hannibal	534	....	29.44	30.03	.....	47.4	.....	81	21	57	12	25	38	34	34	66	1.77	.....	5	9,442	sw.	48	s.	10	11	10	10	5.2	....	....	.....	....
Saint Louis	571	24	29.43	30.05	— .01	51.2	+ 7.4	84	21	61	14	20	42	37	38	66	2.69	— 0.4	7	10,158	se.	41	s.	10	18	5	8	3.6	53.9	1878	37.8	1872
Missouri Valley.						43.2	+ 6.6										1.77	— 0.1														
Columbia	.....	....	.....	.....	.....	50.0	.....	84	21	63	11	26	37	41	.....	.....	1.84	.....	7	7,543	se.	34	sw.	10	13	5	13	5.3	....	....	.....	....
Kansas City	963	6	28.98	30.03	— .04	47.8	+ 5.5	82	17	58	12	25	37	33	34	66	2.66	+ 0.6	6	9,025	sw.	36	sw.	10	18	7	6	3.5	45.4	1889	33.9	1891
Springfield, Mo	1,356	9	28.59	30.04	— .02	50.0	+ 5.0	82	17	60	13	26	40	32	34	62	3.62	+ 0.3	6	9,104	se.	36	s.	4	12	11	8	4.3	50.6	1882	39.5	1891
Topeka	.....	7	.....	.....	.....	48.6	+ 9.4	82	17	61	11	26	36	38	.....	.....	1.16	— 1.3	4	.....	n.	....	.....	....	14	11	6	....	48.6	1894	35.0	1891
Omaha	1,123	24	28.79	30.02	— .07	43.0	+ 6.5	84	17	54	4	25	32	37	28	63	0.91	— 0.6	6	7,666	nw.	32	nw.	28	9	10	12	5.8	47.9	1878	27.6	1881
Valentine	2,613	9	27.19	30.00	— .10	30.2	+ 2.7	77	16	48	— 4	25	24	48	23	66	1.08	0.0	5	10,242	n.	48	nw.	21	6	16	9	6.1	44.0	1889	21.6	1891
Sioux City	1,165	....	28.69	29.97	.....	39.8	.....	82	17	51	0	25	28	40	26	66	0.64	.....	7	10,633	nw.	42	nw.	10	11	11	9	5.2	....	....	.....	....
Pierre	1,470	....	28.36	29.99	.....	34.1	.....	73	16	45	— 5	25	24	38	23	73	1.60	.....	7	8,534	nw.	40	n.	21	12	11	8	5.0	....	....	.....	....
Huron	1,310	13	28.52	29.98	— .12	33.8	+ 4.8	79	16	46	— 6	25	22	47	24	75	1.18	+ 0.5	7	11,716	nw.	58	se.	14	8	12	11	6.2	36.3	1889	19.2	1888
Northern Slope.						32.3	— 0.9										1.55	+ 0.9														
Havre	2,477	14	27.27	29.99	— .06	27.8	— 2.1	62	29	38	—17	28	17	49	17	67	0.64	0.0	6	7,737	sw.	53	nw.	14	7	18	6	5.6	39.6	1885	18.0	1893
Miles City ‡	2,374	17	27.41	30.01	.....	28.6	— 2.8	62	16	38	— 3	25	20	34	22	80	4.03	+ 3.5	12	5,374	nw.	40	n.	19	6	12	13	6.4	38.8	1878	15.8	1891
Helena	4,118	14	25.71	30.05	— .01	30.8	— 3.2	62	29	39	0	5	22	31	18	63	0.80	+ 0.2	12	6,888	sw.	46	sw.	9	5	4	22	7.1	40.6	1885	23.2	*
Rapid City	3,280	9	26.53	30.01	— .09	33.5	+ 1.8	69	10	44	— 2	26	23	48	20	65	1.18	+ 0.2	8	9,271	n.	51	n.	22	1	20	10	6.7	39.8	1889	24.9	1888
Cheyenne	6,105	24	23.88	30.07	— .01	33.2	— 1.8	63	12	44	4	28	22	41	20	62	0.93	+ 0.3	7	11,419	w.	48	w.	14	7	17	7	5.2	42.1	1887	25.7	1875
Lander	5,377	....	24.52	30.05	.....	32.0	.....	61	13	44	— 3	22	20	43	18	62	3.29	.....	9	4,781	w.	60	sw.	16	7	15	9	5.7	....	....	.....	....
Kearney §	2,206	....	27.64	30.03	.....	40.0	.....	81	17	52	2	26	28	41	24	60	0.85	.....	5	9,699	nw.	60	s.	4	9	10	9	4.9	....	....	.....	....
North Platte	2,841	20	27.00	30.04	— .06	39.8	+ 2.8	77	16	54	7	25	26	50	24	62	1.72	+ 1.1	4	9,156	nw.	44	nw.	10	5	23	3	5.2	44.6	1878	26.9	1888
Middle Slope.						42.3	+ 2.6										0.44	— 0.6														
Colorado Springs	6,098	15	23.91	30.03	.....	37.2	+ 1.3	70	12	50	6	22	25	46	13	45	0.36	— 0.2	5	9,063	n.	66	nw.	10	8	16	7	5.0	44.2	1879	30.4	1875
Denver	5,287	23	24.64	30.03	— .03	40.2	+ 0.1	71	12	52	9	25	28	49	16	41	0.70	— 0.2	7	6,491	sw.	36	nw.	10	9	15	7	5.1	46.0	1879	32.2	1891
Pikes Peak	.....	17	17.54	.....	.....	8.6	.....	26	15	14	—17	22	3	21	1	75	1.34	.....	13	25,733	w.	93	w.	30	5	13	13	6.3	16.0	1879	— 0.4	1875
Pueblo	4,734	6	25.16	30.00	.....	43.2	.....	75	12	57	11	22	29	51	13	39	0.24	.....	6	7,476	w.	48	n.	20	9	19	3	4.7	44.2	1889	35.8	1891
Concordia	1,410	9	28.49	30.02	— .09	45.8	+ 6.3	86	17	59	7	20	33	47	28	60	0.28	— 1.7	2	8,342	s.	48	s.	17	16	10	5	4.0	45.8	1894	33.1	1891
Dodge City	2,523	20	27.34	30.02	— .03	46.1	+ 2.9	84	14	60	9	25	32	45	25	54	0.40	— 0.4	4	10,035	se.	48	nw.	10	16	13	2	3.8	48.8	1878	33.8	1891
Wichita	1,366	6	28.55	30.04	.....	49.0	.....	80	16	60	13	20	38	39	31	58	0.72	.....	4	9,176	s.	39	n.	28	15	10	6	3.9	49.0	1894	37.8	1891
Oklahoma City	1,239	....	28.72	30.05	.....	52.6	.....	83	14	64	19	*	41	34	38	65	4.79	.....	8	8,918	s.	42	n.	10	22	5	4	2.9	....	....	.....	....
Southern Slope.						.....	.....										.....	.....														
Abilene	1,749	9	28.19	30.03	— .02	57.8	+ 1.8	92	13	70	24	29	46	40	36	53	1.66	+ 0.1	7	9,348	se.	42	nw.	28	16	13	2	3.1	59.1	1887	49.6	1891
Amarillo	3,691	....	26.20	30.02	.....	40.4	.....	77	14	58	17	20	34	39	22	43	0.05	.....	2	14,386	sw.	66	sw.	6	18	10	3	3.5	....	....	.....	....
Southern Plateau.						52.3	— 2.3										0.49	0.0														
El Paso	3,796	16	26.18	30.05	+ .02	54.0	— 2.3	83	13	67	27	22	41	43	12	25	0.13	— 0.4	3	9,243	nw.	52	nw.	17	14	14	3	3.9	63.6	1879	52.9	1886
Santa Fe	7,051	22	23.18	30.02	.00	39.3	— 0.7	66	13	50	15	5	29	38	14	40	0.41	— 0.2	5	5,961	sw.	42	sw.	3	19	8	4	3.7	47.5	1879	32.4	1880
Tucson	2,432	11	27.47	30.01	.....	54.9	— 4.6	86	29	70	24	5	40	43	26	44	1.17	+ 0.2	7	6,174	se.	51	s.	3	17	5	9	4.1	65.5	1879	54.2	1880
Yuma	141	19	29.79	29.94	— .05	63.0	— 2.1	95	27	78	33	21	48	41	32	40	0.74	+ 0.6	2	5,738	w.	54	nw.	17	19	9	3	2.6	71.8	1877	58.3	1880
Keeler	3,622	10	26.24	29.96	— .05	50.5	— 1.7	78	25	63	24	20	38	39	22	34	0.01	— 0.2	1	6,367	e.	60	nw.	17	17	8	6	3.6	56.5	1887	47.5	1886
Middle Plateau.						41.0	— 0.7										1.03	— 0.3														
Carson City	4,720	7	25.26	30.07	.....	42.0	— 0.2	70	26	53	12	3	32	40	20	43	0.97	— 0.3	7	.....	.....	....	.....	....	17	7	7	4.3	44.8	1889	40.6	1890
Winnemucca	4,340	16	25.61	30.05	— .01	39.8	— 0.9	68	26	50	17	10	29	41	19	48	0.38	— 0.5	8	8,975	sw.	58	sw.	9	5	5	21	7.6	47.2	1883	32.6	1880
Salt Lake City	4,345	20	25.62	30.11	+ .01	41.1	— 0.9	67	29	49	20	5	33	28	26	58	1.73	— 0.2	11	5,273	nw.	46	w.	9	6	14	11	6.0	49.6	1879	33.7	1880
Northern Plateau.						41.4	— 1.4										3.20	+ 1.8														
Baker City	3,430	....	26.37	29.99	.....	35.0	.....	60	26	43	12	3	27	28	26	71	2.36	.....	15	5,008	se.	34	se.	15	5	7	19	7.1	....	....	.....	....
Idaho Falls	4,742	....	25.15	30.06	.....	32.4	.....	57	27	40	9	5	25	29	25	74	2.24	.....	18	8,864	s.	40	sw.	9	1	7	23	8.4	....	....	.....	....
Spokane	1,930	14	27.90	29.99	— .03	38.4	— 1.3	63	25	46	19	4	30	29	30	75	2.65	+ 1.3	17	5,683	sw.	28	sw.	14	4	8	19	7.4	46.8	1889	33.4	1891
Walla Walla	1,018	9	28.91	30.01	— .04	44.4	— 1.5	68	25	53	28	*	36	32	36	75	3.75	+ 2.2	19	5,844	s.	36	sw.	8	4	17	10	6.3	53.0	1889	39.3	1891
N. Pac. Coast Region.						42.6	— 3.0										9.76	+ 4.1														
East Clallam ¶	.....	....	.....	.....	.....	40.6	.....	58	24	47	29	3	34	27	.....	.....	13.99	.....	20	.....	w.	....	.....	....	6	1	23	....	....	....	.....	....
Fort Canby	179	11	29.74	29.94	— .09	42.6	— 2.8	62	22	48	32	7	38	18	38	84	9.70	+ 3.7	25	12,266	e.	84	s.	8	10	7	14	5.9	51.2	1889	42.6	1894
Neah Bay	.....	10	.....	.....	.....	42.1	— 3.1	57	*	50	28	3	34	23	.....	.....	13.70	+ 5.6	20	.....	w.	....	.....	....	6	6	19	....	49.6	1889	42.1	1894
Olympia	52	17	29.91	29.96	— .05	41.8	— 2.9	63	24	49	26	21	34	30	36	82	8.89	+ 3.7	20	4,651	s.	30	s.	8	4	8	19	7.5	49.8	1889	39.5	1880
Port Angeles	29	10	29.89	29.92	— .10	40.0	— 1.7	54	25	46	29	3	34	20	33	78	3.35	+ 1.2	19	3,638	s.	28	sw.	18	5	14	12	6.5	45.6	1889	39.7	1886
Port Crescent	.....	....	.....	.....	.....	39.4	.....	59	28	46	27	4	33	26	.....	.....	5.30	.....	19	.....	w.	....	.....	....	9	9	13	....	....	....	.....	....
Pysht	.....	....	.....	.....	.....	39.0	.....	57	30	47	25	2	31	25	.....	.....	10.11	.....	23	.....	w.	....	.....	....	6	5	20	....	....	....	.....	....
Seattle	119	....	29.81	29.94	.....	42.6	.....	64	27	49	31	22	36	27	36	79	6.25	.....	22	5,922	s.	30	s.	7	1	16	14	6.5	....	....	.....	....
Tatoosh Island	86	10	29.82	29.92	— .10	41.6	— 2.5	54	28	40	33	14	38	13	37	83	12.32	+ 4.5	24	12,458	e.	51	w.	11	4	8	19	7.7	47.5	1885	41.0	1890
Astoria	.....	10	.....	.....	.....	43.5	— 3.1	59	24	49	31	4	38	20	.....	.....	14.04	+ 7.2	25	.....	w.	....	.....	....	6	5	20	....	51.8	1889	43.5	1894
Portland	157	23	29.84	30.02	— .02	44.0	— 4.5	67	24	51	30	20	37	28	37	78	7.48	+ 1.5	23	7,305	sw.	46	sw.	8	5	6	20	7.5	53.8	1889	41.2	1880
Roseburg	523	17	29.45	30.02	— .05	45.5	— 3.2	71	28	53	29	3	38	35	37	76	8.61	+ 5.3	23	3,270	sw.	24	sw.	18	6	5	20	7.4	52.7	1889	40.1	1880
Mid. Pac. Coast Reg.						50.4	— 3.1										2.80	— 1.2														
Eureka	64	8	30.05	30.11	+ .04	46.4	— 2.3	62	12	52	32	3	41	21	43	91	7.46	+ 1.5	18	5,492	s.	46	nw.	2	6	8	17	6.6	52.2	1889	46.9	1890
Red Bluff	342	17	29.71	30.08	+ .03	51.5	— 3.6	76	28	60	30	4	43	33	40	68	2.40	— 1.0	13	5,461	nw.	36	nw.	18	10	12	9	5.4	61.0	1885	49.8	1893
Sacramento	64	17	30.01	30.08	+ .02	53.3	— 2.5	78	28	62	34	4	44	31	41	69	0.74	— 2.5	7	5,825	sw.	36	nw.	17	11	11	9	5.1	59.1	1885	48.8	1880
San Francisco	153	24	29.96	30.12	+ .04	50.6	— 3.9	66	28	56	37	2	45	21	41	75	0.60	— 2.7	6	8,215	sw.	36	sw.	16	12	11	8	4.7	57.2	1889	48.9	1880
Point Reyes Light	.....	....	.....	.....	.....	47.4	.....	62	23	53	30	2	42	18	.....	.....	2.06	.....	6	.....	nw.	....	.....	....	8	4	19	....	....	....	.....	....
S. Pac. Coast Region.						53.1	— 3.3										0.57	— 1.3														
Fresno	338	7	29.70	30.06	+ .03	53.0	— 2.2	81	28	65	32	3	41	33	38	62	0.29	— 1.0	5	5,308	nw.	32	nw.	19	12	14	5	4.3	58.4	1889	52.2	1893
Los Angeles	330	17	29.69	30.04	— .01	53.8	— 3.3	82	26	65	35	5	43	40	41	70	0.37	— 2.5	3	3,138	w.	30	n.	17	12	11	8	4.5	61.6	1885	52.0	1880
San Diego	93	23	29.96	30.06	— .01	52.6	— 4.4	72	27	60	36	5	45	28	44	77	1.05	— 0.4	5	4,335	w.	27	nw.	17	15	8	8	3.8	59.6	1885	52.1	1888

NOTE.—The data at stations having no departures are not used in computing the district averages. Letters of the alphabet denote number of days missing from the record.

*Two or more directions, dates, or years. † Received too late to be considered in departures, etc. ‡ All temperature and precipitation normals and extremes of temperature are obtained from Fort Keogh records. ‖ All temperature and precipitation normals and extremes of temperature are obtained from Fort Buford records. § All data except precipitation for 28 days only. ¶ For 30 days only.

TABLE II.—*Meteorological record of voluntary and other co-operating observers, March, 1894.*

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean.	Precip'n.
	°	°	°	Ins.
Alabama.				
Alco	85	26	60.8	.....
Auburn †	82	21	58.7	2.54
Bermuda *†[5]	84	24	59.9	5.57
Birmingham †	87[d]	27[d]	62.4[d]	4.44
Brewton †	83	25	61.2	7.88
Carrollton *†[1]	79	25	58.5	4.82
Citronelle †	80	30	61.8	6.48
Claiborne Landing †	.....	.....	.....	4.90
Clanton †	83	22	59.6	.....
Cordova †	.....	.....	.....	4.13
Daphne †	85	28	61.0	8.06
Demopolis †	.....	.....	.....	4.28
Elba *†[1]	82	30	65.7	7.63
Eufaula *a* †	86	28	62.6	3.22
Eufaula *c* †	.....	.....	.....	3.12
Florence *a* †	.....	.....	.....	4.54
Florence *b* †	81	19	54.8	5.59
Fort Deposit †	85	25	60.4	4.91
Gadsden †	87	20	58.0	2.72
Greensboro †	84	24	58.2	4.94
Healing Springs †	84	23	57.6	5.18
Highland Home †	83	26	60.9	4.26
Livingston †	.....	.....	.....	4.57
Lock No. 4	.....	.....	.....	5.31
Madison Station †	82	20	60.0	3.83
Maple Grove †	83	19	56.6	3.73
Marion †	.....	.....	.....	2.89
Mount Willing †	84	25	59.6	5.91
Newbern †	83	24	57.8	4.39
Newburg †	85	15	55.6	5.31
Newton †	87	26	60.4	3.61
Opelika †	76	26	60.2	1.75
Pine Apple †	84	25	59.3	5.85
Pushmataha †	84	29	60.6	5.11
Rock Mills †	84	20	56.2	5.81
Scottsboro †	81	19	55.4	4.09
Selma †	.....	.....	.....	4.72
Starlington *†[1]	85	26	58.6	5.80
Sturdevant †	.....	.....	.....	1.31
Talladega *a* †	.....	.....	.....	4.16
Talladega *b* †[1]	86	21	58.4	4.70
Tallassee Falls †	.....	.....	.....	4.24
Tuscaloosa †	88	21	57.6	5.18
Union †	86[d]	26[d]	58.6[d]	4.60
Union Springs *a* †	87	22	59.6	3.14
Uniontown	82	25	60.0	4.61
Valley Head †	82	16	53.6	4.11
Warrior †	.....	.....	.....	3.14
Wetumpka	.....	.....	.....	3.54
Wilsonville †	.....	.....	.....	5.58
Alaska.				
Killisnoo †	45	10	30.8	7.70
Metlakahtla †	54	11	34.6	8.10
Arizona.				
Arizola †	91	30	58.2	0.75
Ariz. Canal Co. Dam	89	36	61.0	1.20
Benson *[8]	90	40	66.0	0.40
Bisbee *†[1]	75	24	49.0	1.91
Buckeye †	95	31	61.1	0.90
Calabasas †	80	20	50.4	0.79
Casa Grande *[8]	90	40	63.3	0.62
Chiricahua Mts	.....	.....	.....	1.80
Dragoon Summit *[5]	72	29	53.4	0.92
Dudleyville †	86	30	55.4	1.22
Eagle Pass *[3]	.....	26	41.9	0.81
Farleys Camp [2]	.....	.....	50.0	1.55
Flagstaff †	64	— 6	36.6	5.20
Fort Apache	75	18	43.3	1.36
Fort Bowie †	79	24	51.2	1.07
Fort Grant	81	10	48.8	0.66
Fort Huachuca	87	16	49.0	1.12
Gila Bend *b* *[8]	92	36	61.9	0.71
Globe †	81	29	53.6	0.94
Holbrook †	79	16	46.0	0.16
Keams Canyon †	70	12	40.1	0.56
Maricopa *[8]	85	40	60.4	0.50
Mount Huachuca †	81	18	49.3	1.02
Natural Bridge †	.....	.....	.....	1.93
Navajo *†[3]	.....	9	30.9	.....
Nogales *†[5 1]	78	31	57.8	.....
Oracle †	77	25	51.4	1.87
Oro	.....	.....	.....	0.67
Palomas †	96	25	59.2	0.60
Pantano *[8]	82	32	51.5	0.70
Payson *[1]	70	15	41.6	2.00
Peoria †	84	35	59.2	0.77
Phœnix *a* †	90	29	57.9	0.62
Phœnix *b* †	90	33	59.6	0.62
Red Rock *†[5]	94	34	61.4	2.40
Reymert †	88	31	55.7	2.22
Rye †	85	23	50.0	1.30
St. Helena R'h †	82	22	51.4	1.16
San Carlos	86	23	51.6	1.14
San Simon *[8]	78	28	56.7	0.15
Show Low	.....	.....	.....	2.91
Signal †	87	32	56.6	0.55
Texas Hill *[8]	90	40	64.7	0.00
Tucson *a* †	86	26	56.2	1.10
Tucson *b* *[8]	90	30	64.5	0.64
Walnut Grove †	.....	.....	.....	0.00
Walnut Ranch *†[1]	78	20	46.4	2.46
Whipple Barracks	79	— 9	41.9	0.88
Wilgus †	.....	.....	.....	1.55
Arizona—Cont'd.				
Willcox *[8]	80	23	45.9	0.70
Yuma *[8]	95	42	65.7	0.00
Arkansas.				
Arkadelphia †	.....	.....	.....	11.35
Arkansas City †	.....	.....	.....	9.70
Ashdown †	88	25	56.4	9.20
Bee Branch † [d]	85	19	55.2	.....
Blanchard Springs †	85	23	57.1	9.74
Brinkley †	81	22	54.2	13.35
Camden *a* †	.....	.....	.....	12.12
Camden *b* †	85	24	56.5	11.87
Cassville †	78	13	52.2	7.09
Conway *[1]	79	24	54.9	9.28
Cornerstone *[1]	76[f]	26[d]	55.8[f]	14.25
Corning †	81	19	52.6	6.61
Dallas *†[1]	76[f]	22[g]	53.6[g]	11.28
Dardanelle †	.....	.....	.....	11.22
Fayetteville †	82	15	52.2	5.66
Forrest †	82	21	58.8	14.70
Fulton †	.....	.....	.....	9.82
Gaines Landing †	.....	.....	.....	10.85
Hamburg	84	21	56.9	10.57
Helena *a* †	.....	.....	.....	9.00
Helena *b* †	80	24	56.2	8.91
Hot Springs	86	19	54.8	10.40
Hot Springs (near)	.....	.....	.....	9.27
Keesees Ferry †	84	14	52.8	9.17
Kirby †	84	.....	.....	10.40
Lonoke *[1]	77	26	57.0	13.00
Madding [2]	.....	.....	53.4	18.20
Mount Ida †	83	17	52.0	11.73
Mount Nebo †	75	20	53.5	10.10
New Gascony *[1]	76[f]	29[f]	55.8[f]	14.25
Newport *a* †	.....	.....	.....	7.97
Newport *c* †	78	21	54.0	8.19
Osceola †	81	22	54.0	8.86
Ozark †	83	21	55.7	8.05
Rison †	81	20	55.8	10.12
Rogers †	83	8	46.4	4.73
Russellville †	84	22	54.8	9.05
Searcy †	83	18	52.2	7.76
Stuttgart †	81	25	55.8	14.33
Texarkana †	86	26	58.2	4.38
Warm Springs *[1]	80	18	52.1	5.50
Washington †	83	24	56.1	12.27
Wiggs	.....	.....	.....	9.91
Winslow †	78	13	49.0	6.68
California.				
Ager [2]	76	26	45.5	1.53
Agnew	76	33	51.8	0.73
Anaheim *[8]	81	44	54.9	0.48
Anderson *[1]	74	22	47.6	1.98
Antioch *[8]	77	36	52.7	0.37
Aptos *[8]	80	30	52.1	0.92
Arcata †	63	29	46.4	8.52
Arlington Heights	88	29	54.2	0.48
Athlone *[8]	85	35	54.5	0.32
Auburn *[8]	84	29	51.7	1.95
Bakersfield *a* *[8]	79	38	56.8	0.50
Ballast Point L. H.	.....	.....	.....	1.25
Barstow †	84	24	55.1	0.06
Beaumont *[8]	92	31	58.6	0.35
Belmont *[8]	73	44	57.0	.....
Berendo *[8]	84	36	56.2	0.48
Berkeley	69	34	49.8	0.91
Bethany *[1]	77	36	51.7	0.33
Bishop Creek *[8]	81	31	53.8	0.09
Boca *[8]	70	0	33.2	0.75
Borden *[8]	82	32	54.9	0.15
Boulder Creek *[8]	74	30	49.1	2.11
Brentwood *[8]	78	38	51.0	0.25
Brighton *[5]	85	32	56.2	0.31
Byron *[8]	80	31	51.2	0.32
Caliente *[8]	76	38	54.9	1.60
Calistoga *[8]	79	34	53.3	3.21
Campo Seco	.....	.....	.....	1.01
C. Mendocino L. H.	.....	.....	.....	6.71
Capitola *[8]	70	30	52.1	.....
Castroville *[8]	69	31	54.0	0.50
Centerville *[1]	78	.....	53.6	1.23
Chico *[8]	78	28	52.7	1.68
Chino *[6]	82	31	51.9	0.47
Cisco *[8]	45	10	31.4	.....
Claremont †	81	28	53.0	1.05
Colegrove	.....	.....	.....	0.49
Colfax *[8]	70	24	46.8	3.63
Colton *[8]	82	32	55.8	2.00
Colusa †	83	30	53.2	0.80
Corning *[8]	82	34	54.0	0.85
Crescent City	63	30	45.8	14.11
Crescent City L. H.	.....	.....	.....	15.41
Crofton *[8]	86	35	55.6	1.18
Davisville *a* *[8]	78	35	51.9	0.94
Deep Creek	.....	.....	.....	2.75
Delano *[8]	83	32	54.9	0.64
Delta *[8]	77	32	53.4	2.60
Dinuba *[8]	80	32	55.5	1.02
Downey *[8]	90	38	56.5	0.52
Dry Creek *†[3]	.....	30	48.6	.....
Drytown	76	27	49.5	1.48
Dunnigan *[8]	78	34	51.1	0.93
Dunsmuir *[8]	77	21	45.5	6.05
East Brother L. H.	.....	.....	.....	0.14

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean.	Precip'n.
	°	°	°	Ins.
California—Cont'd.				
Edgwood *[8]	74	18	42.9	1.83
Edinanton *[1]	63	12	35.1	7.08
Eldorado *[8]	81	32	51.4	2.25
Elmira *[8]	85	35	53.3	0.97
El Verano *[8]	75	35	51.6	2.49
Emigrant Gap *[8]	50	12	33.8	.....
Esparto *[8]	80	37	51.1	0.42
Evergreen	.....	.....	.....	1.21
Exeter *[8]	95	33	66.2	1.11
Fall Brook *[1]	83	30	49.8	1.36
Farmington *[8]	75	39	51.6	0.13
Felton *[8]	86	28	55.1	0.60
Fernando *[8]	80	29	51.3	0.75
Florence *[8]	80	38	59.6	0.57
Florin *[3]	84	31	50.2	0.52
Folsom City *a* *[8]	85	35	54.8	1.22
Folsom City *b* *[1]	82	33	53.8	1.13
Fort Ross	.....	.....	.....	4.25
Fresno *[8]	85	34	55.9	0.25
Fruto *[8]	75	35	54.1	0.38
Galt *[8]	80	37	54.2	0.66
Georgetown †	70	20	46.2	4.74
Gilroy *[8]	80	30	51.3	0.66
Girard *[8]	65	25	43.5	3.05
Glendora	.....	.....	.....	1.09
Glen Ellen *[8]	76	29	55.5	2.46
Gormans Station †	.....	.....	.....	1.37
Goshen *[8]	83	30	58.5	0.29
Grass Valley *a*	.....	.....	.....	2.96
Green Valley	.....	.....	.....	3.80
Greenville *†[1]	69	10	37.2	2.92
Gridley *[1]	83	28	51.2	1.65
Guinda	.....	.....	.....	0.81
Haywards *[8]	70	34	50.1	0.72
Healdsburg *[1]	68	32	47.4	1.93
Hollister *[8]	83	32	53.1	0.79
Hornbrook *[8]	74	20	43.9	1.50
Humboldt L. H.	.....	.....	.....	7.31
Huron *[8]	85	35	52.3	0.00
Hydesville †	75	26	47.0	6.28
Independence †	.....	18	.....	0.09
Indio *a* *[8]	102	36	64.5	0.00
Indio *b*	95	34	66.2	0.00
Ione *[8]	84	31	53.0	0.35
Iowa Hill *[1]	72	23	47.0	4.20
Jackson	60	22	45.0	2.52
Jolon	.....	.....	.....	0.46
Julian †	78	21	47.2	4.19
Keeler *[8]	74	30	50.7	0.01
Keene *[8]	72	30	46.2	2.25
Kennedy Gold Mine	74	25	48.6	2.23
Kernville	.....	.....	.....	0.42
King City *[8]	88	32	49.5	0.30
Kingsburg *[8]	80	35	54.0	0.77
Knights Landing *[8]	85	32	53.3	1.24
Lagrange *[5]	79	31	53.3	0.61
Lathrop *[8]	81	35	53.4	0.63
Laurel *[8]	80	30	49.5	1.73
Lemoore *a* *[8]	81	34	53.8	0.00
Lemoore *b*	82	27	53.6	0.25
Lick Observatory †	64	20	40.4	2.54
Lime Point L. H.	.....	.....	.....	0.83
Little Bear Valley	.....	.....	.....	3.16
Little Bear Valley (near)	.....	.....	.....	2.87
Livermore *[8]	78	32	49.9	0.81
Livingston *[8]	82	38	61.2	0.25
Lodi	84	31	53.1	0.57
Long Beach *[8]	78	40	53.2	.....
Los Angeles *[8]	82	40	58.4	0.43
Los Banos *[8]	78	36	53.3	0.00
Los Gatos *a* *[8]	82	35	55.8	0.85
Los Gatos *b*	75	31	48.5	1.30
Lower Holcomb Valley	.....	.....	.....	1.68
Mammoth Tank *[8]	96	40	63.6	0.00
Manzana *[1]	83	25	48.8	0.36
Mare Island L. H.	.....	.....	.....	0.48
Mariposa *[1]	75	25	48.2	2.11
Martinez *[8]	72	32	50.8	0.52
Marysville *a* *[8]	72	35	53.9	0.73
Mendota *[3]	74	34	46.6	0.00
Menlo Park *[8]	70	33	49.9	0.57
Merced *[8]	80	32	52.1	0.21
Middletown *†[1]	80	30	50.3	2.09
Mills College	.....	.....	.....	1.04
Milton *[3]	72	30	51.4	0.60
Milton (near) *[1]	77	33	52.5	1.16
Modesto *[8]	86	38	53.4	0.00
Mohave *[8]	83	30	53.7	0.24
Mokelumne Hill *[8]	.....	28	47.0	1.73
Monson *[8]	81	37	55.3	1.23
Montague *[8]	73	30	47.1	2.28
Monterey *[8]	68	32	51.7	0.82
Monterey (Hotel del Monte) *[8]	70	35	58.1	.....
Morses House	.....	.....	.....	5.00
Mountain View	.....	.....	.....	0.52
Mount Glenwood *[1]	78	35	55.0	1.06
Napa *a* *[8]	80	32	51.7	0.13
Napa *b*	76	33	52.9	1.15
National City †	82	35	53.3	1.69
Needles †	88	36	62.7	0.65
Nevada City †	69	19	43.8	3.26
New Almaden *[8]	75	34	52.3	0.88
Newark *[8]	68	34	54.7	0.67
Newcastle *a* †	76	27	49.2	1.49
Newcastle *b* *[8]	78	28	48.7	0.59
Newhall *[8]	89	30	53.6	0.62
Newman *[8]	75	32	54.1	0.00
Niles *[8]	68	32	50.2	1.25
Nordhoff †	83	26	51.0	0.29
Norwalk *[8]	80	34	52.1	0.43
Oakdale *a* *[1]	79	27	51.3	0.54
Oakdale *b* *[8]	78	26	51.8	0.50
Oakland *a*	72	34	51.6	0.79
Oakland *b* *[8]	64	38	50.8	0.75
Ogilby *[8]	99	44	66.6	0.26
Oleta *[1]	72	28	46.6	1.11
Ontario *a* *[8]	86	36	57.6	0.80
Ontario *b*	92	31	55.4	0.75
Orangevale †	79	30	51.8	1.47
Orland *[8]	78	40	53.0	0.40
Oroville *a* *[8]	77	34	55.2	0.95
Oroville *b*	72	31	52.3	0.95
Pajaro *[8]	69	36	52.0	0.40
Palermo †	78	30	51.5	0.79
Palm Springs *[8]	98	38	62.6	0.00
Paso Robles *a* *[8]	85	28	51.4	0.22
Paso Robles *b*	84	24	49.9	0.22
Petaluma *[1]	73	37	53.0	0.85
Piedras Blancas LH	.....	.....	.....	0.65
Pigeon Point L. H.	.....	.....	.....	0.81
Placerville *a* *[8]	77	32	51.0	3.31
Placerville *b*	72	22	45.0	2.94
Pleasanton *a* *[8]	85	32	50.6	0.73
Pleasanton *b* [1]	77	27	46.8	0.71
Pt. Ano Nuevo L. H.	.....	.....	.....	1.55
Point Arena L. H.	.....	.....	.....	2.42
Point Bonita L. H.	.....	.....	.....	1.85
Pt. Conception L.H.	.....	.....	.....	0.39
Point Fermin L. H.	.....	.....	.....	0.28
Point George L. H.	.....	.....	.....	12.56
Pt. Hueneme L. H.	.....	.....	.....	0.36
Point Loma L. H.	.....	.....	.....	0.95
Point Montara L. H.	.....	.....	.....	0.85
Point Pinos L. H.	.....	.....	.....	0.96
Point Reyes L. H.	.....	.....	.....	2.06
Point Sur L. H.	.....	.....	.....	0.94
Pomona *[8]	80	30	54.7	0.65
Pomona (near)	80	28	53.1	0.65
Portersville *[8]	84	34	56.5	0.71
Port Los Angeles *[8]	62	47	53.0	0.23
Poway *[3]	.....	33	47.5	1.64
Puente *[8]	79	39	55.4	0.80
Ravenna *[8]	84	28	50.0	0.75
Red Bluff *[8]	79	38	53.1	1.92
Redding *a* *[8]	80	32	51.7	3.20
Redding *b* †	76	29	50.6	2.89
Redlands *a*	.....	.....	.....	1.01
Redlands *b* *[8]	84	34	52.1	0.59
Represa	78	32	52.2	0.65
Rio Vista	78	32	54.2	0.65
Riverside †	88	27	54.2	0.72
Rocklin *[8]	79	36	55.9	1.08
Roe Island L. H.	.....	.....	.....	0.33
Sacramento *a*	83	30	54.0	0.74
Sacramento *b* *[8]	82	38	54.7	0.63
Sacramento *c* *[8]	79	37	53.5	0.63
Salton *[8]	103	38	68.6	0.00
San Ardo *a* *[8]	88	28	51.4	0.13
San Bernardino †	85	28	54.0	1.15
San Gabriel *[8]	79	36	56.0	0.43
Sanger Junction *[8]	85	35	55.8	0.56
San Jose *a* *[8]	74	35	49.8	0.69
San Jose *b*	76	26	48.2	0.77
San Luis L. H.	.....	.....	.....	0.68
San Luis Obispo	.....	.....	.....	0.79
San Mateo *[8]	70	39	51.7	1.07
San Miguel *[8]	86	32	53.8	0.13
San Miguel Isl'd †	82	37	52.2	0.40
San Pedro *[8]	79	42	58.3	0.20
San Rafael †	72	30	47.2	0.85
Santa Ana *[8]	78	45	59.5	0.63
Santa Barbara *a*	74	34	53.4	0.29
Santa Barbara *b* *[8]	80	41	54.3	0.22
Santa Barbara L. H.	.....	.....	.....	0.28
Santa Clara *a* *[6]	72	32	50.6	0.45
Santa Clara *b*	78	31	52.0	0.60
Santa Cruz *a* *[8]	74	34	52.4	1.41
Santa Cruz *b* †	78	31	52.3	1.64
Santa Cruz L. H.	.....	.....	.....	1.38
Santa Margarita *[8]	84	34	49.6	0.50
Santa Maria	80	29	51.7	0.62
Santa Monica *[8]	72	31	52.2	0.20
Santa Paula *[8]	78	32	52.3	0.00
Santa Rosa *[8]	66	33	52.1	1.31
Saticoy †	.....	.....	.....	0.25
Selma *[8]	80	36	55.5	0.40
Shasta Springs †	69	19	39.6	4.49
Shingle Springs *[8]	72	22	47.7	1.60
Sims *[8]	75	21	42.7	6.37
Sisson *[8]	70	12	38.7	3.45
Sneddens Ranch	.....	.....	.....	0.45
Soledad *[8]	78	30	51.1	0.40
Sonoma *[3]	73	33	47.8	1.47
S. E. Farralon L. H.	.....	.....	.....	0.75
South Vallejo *[8]	69	41	52.6	0.47
Spadra *[8]	85	33	55.6	0.44

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
California—Cont'd.				
Squirrel Inn				3.54
Stockton *a*	75	32	52.2	0.45
Stockton *b* *[8]	74	37	55.5	0.61
Suisun City *[8]	80	35	53.9	0.88
Summit *[8]	43	1	28.9	
Susanville *†[1]	68	19	39.1	2.35
Tehachapi *a* *[8]	62	26	42.4	0.00
Tehachapi *b*	72	20	41.6	1.45
Tehama *[8]	78	34	55.1	1.00
Templeton *[8]	83	28	52.7	0.61
Towles *[8]	70	14	42.8	5.39
Tracy *[8]	82	40	53.6	0.00
Traver *[5]	76	44	59.3	0.37
Trinidad L. H.				9.34
Tropico *[8]	80	38	55.3	0.90
Truckee *[8]	50	— 7	31.0	2.65
Tulare *a* *[8]	82	33	53.7	0.98
Tulare *b*				1.16
Tulare *c*	92	28	55.2	0.77
Tunnel No. 2				2.41
Turlock *a* *[5]	80	35	57.6	0.00
Turlock *b* †	80	25	51.9	0.20
Ukiah †	74	26	48.2	3.03
Upper Lake	79	27	48.8	1.80
Upper Mattole *[1]	78	36	51.0	8.45
Vacaville *a* *[1]	82	35	53.0	1.18
Vacaville *b* *[8]	82	37	55.1	0.60
Valley Springs *[8]	84	35	56.2	0.91
Ventura †	68	33	51.4	0.27
Vina *[8]	76	41	54.6	1.41
Volcano Springs *[8]	105	38	71.5	0.00
Walnut Creek	79	30	51.8	0.67
Weaverville †	78	21	46.8	4.60
Wenrich Ranch				0.58
West Butte *	80	31		0.65
Westley *[8]	79	38	57.6	0.11
West Point †				2.95
Wheatland	78	32	52.6	1.09
Whittier *[8]	82	40	59.4	0.63
Williams *[8]	80	30	54.4	0.86
Willows *a* †	66	30	48.3	0.81
Willows *b* *[8]	75	35	50.6	1.03
Winchester †	89	22	53.3	0.77
Winters *[8]	76	35	54.8	0.73
Wire Bridge *[5]	78	31	51.0	2.19
Woodland *[8]	74	36	50.7	0.80
Yerba Buena L. H.				0.42
Yreka †	72	12	42.5	3.32
Yuba City *[5]	72	43	56.9	0.89
Colorado.				
Abbott				0.57
Akron †	72	10	38.4	0.90
Alma †	45	— 6	23.1	0.88
Amherst *l*				0.25
Arboles				0.80
Avoca				0.85
Boulder †	76	15	42.2	1.40
Box Elder				0.39
Breckenridge †	61	—14	23.3	1.50
Brush †	79	3	39.2	0.90
Byers *[1]	66	10	33.9	
Canyon †	75	11	43.8	1.16
Castle Rock †	74	3	38.8	0.95
Cheyenne Wells *†[1]	80	10	35.0	0.10
Climax *†[1]	38	—12	15.3	4.81
Collbran				2.18
Como (near) †	51	— 2	26.0	0.66
Cope †	78	7	40.2	0.50
Deer Trail *[5]	70	7	40.9	0.80
Delta †	76	7	41.8	0.64
Divide Ex. Station	66	— 3	32.6	0.83
Downing †	74	9	41.5	0.93
Dumont	60	6	35.4	1.10
East Dale				0.12
First View *[6]	77		41.8	0.08
Fort Collins †	73	10	37.4	0.67
Glenwood Sp'gs †	70	11	44.2	2.21
Gold Hill *[5]	57	7	36.7	1.27
Grand Junction †	73	20	45.6	0.97
Greeley †	71	9	37.2	0.31
Greenhorn †	71	— 3	35.6	3.10
Gunnison † [c]	55	—19	26.2	0.90
Holly †				0.10
Hugo *[5]	75	10	42.7	0.40
Hugo (near) †	76	2	36.0	0.54
Husted †	74	3	39.4	0.39
Idaho Springs †	63	6	31.8	0.74
Kirk				0.10
Kit Carson *[1]	82	10	44.8	0.05
La Jara †	66	4	36.7	0.01
Las Animas †	76	5	42.9	T.
Lay *†[1]	62	4	33.3	1.10
Le Roy *†[1]	73	2	36.9	0.95
Leslie				0.55
Loveland				0.51
McCoy †				0.27
Manhattan				0.95
Meeker †	65	2	36.8	0.69
Minneapolis †	85	11	44.7	0.35
Monte Vista	64	2	33.3	T.
Moraine †	55	— 3	31.6	1.08
Pagoda (near) †	61	— 5	31.9	1.65
Parachute †	70	12	43.2	0.79
Red Cliff				3.05
Rico				3.52
Colorado—Cont'd.				
River Bend *[6]	80	10	44.1	1.00
Rocky Ford †	80	9	43.3	0.45
Saint Cloud				1.10
Sanborn				T.
San Luis †	66	4	36.0	0.76
Scissors †				2.20
Seibert †				0.23
Smoky Hill Mine †	67	3	34.8	1.90
Stamford *[1]	56	— 2	27.2	1.60
Steamboat Spring †	49	—10	26.0	1.60
Sunnyside	52	— 5	27.4	1.29
Surface Creek †	65	12	40.7	1.80
Thon †	77	1	38.3	0.07
T. S. Ranch †	70	13	42.4	1.13
Twin Lakes				0.10
Vilas				0.10
Wallet †				0.40
Ward District				1.39
Watkins *[1]	59	10	36.0	
Yuma				1.10
Connecticut.				
Bridgeport *[1]	61	21	39.8	1.48
Canton	72	12	39.9	1.71
Colchester	63	16	41.2	1.55
Falls Village				1.63
Greenfield Hill				1.16
Hartford *b*				1.62
Hartford *c*	66	19	41.4	
Lake Konomoc				1.67
Lebanon				1.78
Middletown	67	17	41.7	1.71
New Hartford *a* *†[1]	65	13	38.4	1.83
New Hartford *b*				1.83
N. Grosvenor Dale	64	19	40.3	0.94
Norwalk	65	10	39.5	1.22
Southington *[1]	67	18	40.2	1.21
South Manchester				1.76
Stevenson				1.44
Storrs	64	14	39.2	1.18
Thompson *[1]	60	15	38.2	
Voluntown †	62	11	41.2	1.65
Wallingford †				1.69
Waterbury	68	18	41.0	1.43
West Simsbury				1.69
Delaware.				
Dover †	79	21	47.8	1.27
Milford	84	19	48.8	1.43
Millsboro	82	17	47.5	1.60
Seaford †	82	18	48.4	1.18
District of Columbia.				
Dist'ing Reserv'r *[5]	78	22	48.4	1.13
Rec'ing Reserv'r *[5]	76	21	47.8	1.04
West Washington	86	18	51.2	1.06
Florida.				
Amelia †	82	34	63.6	2.60
Archer †	93	34	67.9	1.96
Brooksville †	86	35	65.9	1.41
Clermont †	90	39	69.2	0.59
De Land †	86	38	65.8	
Eustis †	90	38	68.7	0.88
Federal Point †	86	36	65.0	1.84
Fort Meade †	87	39	67.0	1.04
Grasmere †	84	34	65.6	0.72
Green Cove Sp'gs †	85	33	63.8	2.77
Homeland †	88	40	67.4	1.00
Kissimmee †	93	39	70.6	0.74
Lake City †	87	35	67.3	3.17
Manatee †	88	39	68.5	1.62
Merritts Island †	88	43	69.7	0.84
Moseley Hall †	84	30	65.1	4.04
Mullet Key †	80	42	67.9	0.64
Myers †	87	46	69.0	1.07
New Smyrna †	85	38	64.6	1.08
Oak Hill *[1]	84	42	69.7	
Ocala *†[1]	88	36	66.2	0.99
Orange City †	91	37	67.4	0.53
Orange Park	85	32	64.7	2.01
Orlando †	88	38	68.6	0.88
Oxford *†[1]	88	37	63.1	1.54
Plant City †	92	37	68.7	1.33
Saint Francis B'ks.	84	31	68.0	1.28
Saint Petersburg †	89	40	69.2	1.65
Tallahassee †	86	29	62.8	4.45
Tarpon Springs †	88	38	67.4	2.03
Georgia.				
Adairsville †	84	18	56.8	3.14
Alapaha †	88	28	62.4	4.25
Albany †	85	27	62.5	3.28
Americus †	90	23	63.2	3.19
Athens *a*	82	22	57.6	2.34
Bainbridge *b* †				6.50
Blakely *†[5]	85	27	62.6	5.75
Brag †	92	25	63.1	2.90
Camilla	86	28	62.8	3.84
Canton †				2.92
Clayton †	82	16	53.6	2.48
Cohutta	83	17	55.5	2.98
Columbus †	91	24	63.0	3.47
Cordele † [g]	89	25	61.2	3.06
Covington	84	19	57.6	2.30
Dahlonega †	83	15	55.5	2.71
Darien †	89	30	64.8	3.24
Diamond †				3.20
Dublin *a* †	87	26	60.1	5.50
Elberton †	88	19	56.6	2.64
Georgia—Cont'd.				
Fleming †	92	27	61.9	2.52
Forsyth *[1]	90	26	62.8	3.71
Fort Gaines †	87	26	62.6	3.14
Gillsville *†[1]	83	24	54.0	3.54
Hawkinsville †	85	21	59.6	2.40
Hephzibah *†[3]	82	26	62.2	2.28
Lafayette †	81	19	54.8	4.03
Lagrange †	82	20	57.4	4.50
Leverett	88	21	56.8	1.71
Louisville †	89	24	58.7	3.64
Lumpkin †	84	23	60.8	2.18
McArthur †	90	27	62.1	3.35
Macon *b* †				3.39
Marietta †	82	18	55.6	3.41
Marshallville †	85	22	62.0	3.75
Millen †	90[e]	24[e]	59.7[e]	2.50
Monticello *†[1]	81	23	60.4	3.07
Morgan †	87	27	91.8	2.09
Piscola	85	30	64.0	4.85
Point Peter *[1]	84	22	56.6	2.85
Poulan †	86	26	61.2	3.92
Quitman †	88			4.60
Resaca †				2.65
Rome †	82	21	55.2	3.72
Talbotton †	85	21	59.0	3.13
Thomasville †	85	29	63.2	7.12
Toccoa †	82	26	57.7	3.37
Washington †	85	22	59.0	3.87
West Point †	82[c]	21[c]	56.8[c]	3.93
Whitesburg †				4.92
Idaho.				
American Falls †	60	14	35.4	1.76
Atlanta †	40	9	24.0	7.20
Boise Barracks	72	21	41.0	1.64
Fort Lemhi †	66	— 2	33.8	0.69
Fort Sherman †	60	12	35.0	7.00
Garden Valley *†[1]	54	8	31.8	7.35
Grangeville	55	15	34.4	3.37
Hailey				1.95
Idaho City †	61	6	30.4	3.94
Kootenai †	55	18	34.2	0.40
Lake †	52	—12	26.8	2.90
Lewiston †	68	21	43.0	1.22
Martin †	53	3	29.8	3.93
Moscow †	58	12	37.3	3.43
Murray †	58	11	34.8	4.95
Nampa	69	20	40.9	0.74
Oakley †	67	11	37.1	1.70
Paris †	61	— 4	30.9	3.41
Payette †	71	16	41.4	1.45
Salubria †	62	— 5	35.6	3.45
Soldier †	57[d]	—10[d]	26.6[d]	3.07
Illinois.				
Albion †	80	14	49.4	2.43
Atwood *[3]	78	10	42.0	4.22
Aurora †	77	9	41.6	3.17
Beardstown †				0.85
Bloomington †	82	7	44.8	3.37
Braidwood †	78	12	45.6	2.87
Bushnell †	81	8	45.4	2.28
Carlinville †	83	13	48.2	3.15
Carlyle				2.68
Carrollton	79	12	48.4	2.37
Chemung	75	6	39.6	
Chester †				1.59
Decatur †	82	10	47.6	2.79
Dixon †	77	4	42.0	3.12
East Peoria †	85	11	46.6	2.91
Effingham †	80	14	48.5	3.40
Evanston *[10]	74	9	41.3	
Fort Sheridan †	76	9	40.8	2.01
Galva †	79	6	44.2	2.53
Golconda †	81	18	53.4	3.54
Greenville †	83	13	49.4	3.53
Griggsville †	81	11	46.8	2.15
Halliday *[3]	80[d]	18[d]	47.2[d]	3.61
Havana †	82	11	48.2	2.12
Herrins Prairie *[1]	80	20	53.6	3.40
Jordans Grove †	81	16	50.7	2.81
Kankakee †				2.04
Louisville †	79	16	49.4	2.97
McLeansboro *[1]	80	15	50.0	3.01
Martinsville †	78	14	47.6	2.20
Mascoutah *[5]	82	13	48.5	2.40
Mattoon *[1]	78	21	48.8	3.33
Monmouth †	80	7	45.5	2.22
Mount Carmel †				3.87
Mount Pulaski	80	12	47.0	3.23
Olney *a* *[1]	79	16	50.0	3.06
Olney *b* *[1]	81	14	44.6	3.24
Oregon †	79	10	44.4	2.03
Oswego *[1]	74	7	39.6	2.68
Ottawa †	79	9	42.6	2.57
Palestine †	80	15	48.4	1.97
Paris †	79	11	45.9	3.80
Peoria *a* †				2.41
Peoria *b*	80	13	46.4	3.06
Philo †	78	11	44.8	3.04
Rantoul *†[5]	76	9	44.0	2.75
Riley †	74	8	39.8	3.02
Rockford *[1]	75	10	41.0	3.26
Rushville	82	10	46.8	2.41
Saint John *[3]	78	19	46.9	3.91
Streator †	75	11	42.2	2.95
Sycamore *†[1]	73	9	40.4	3.26
Illinois—Cont'd.				
Tuscola *†[1]	77	11	43.0	3.03
Walnut †	81	9	44.3	2.98
Warsaw †				0.73
Winnebago †	76	9	40.4	3.55
Indiana.				
Angola *[1]	76	10	41.4	2.73
Ashboro †	79	12	48.6	2.90
Bedford †	86	13	48.0	2.40
Butlerville †	82	14	48.0	3.18
Cambridge City †	79	11	45.4	2.78
Columbia City *[1]	73	12	42.3	2.28
Columbus	81	14	47.3	2.48
Connersville †	80	14	46.2	3.39
Degonia Springs *[6]	76	17	50.4	3.21
Delphi	76	10	43.1	2.79
Evansville †				3.39
Farmland †	79	15	46.2	2.17
Franklin *[1]	76	15	46.4	2.87
Hammond †	76	10	45.9	1.78
Hawpatch †	73	8	41.1	2.47
Huntingburg *†[1]	76	22	50.1	3.08
Huntington	77	14	46.5	2.46
Jasper †	77	10	48.9	2.95
Jeffersonville	80	18	50.0	2.98
Kokomo †	81	12	45.8	2.89
Laconia	77	14	48.4	3.45
Lafayette †	78	11	45.3	2.81
Logansport *a* †				3.02
Logansport *b*	76	14	45.7	2.65
Madison †	83	17	49.2	2.98
Marengo *[1]	78	18	48.4	7.50
Marion †	81	12	47.0	3.36
Markle †	74	11	43.8	2.59
Mauzy	79	11	44.8	3.21
Mount Vernon †	78	16	49.6	2.94
Muncie †	75[e]	16[e]	46.0[e]	6.45
New Albany *†[1]	80	16	51.1	3.13
Princeton *†[1]	80	15	48.8	3.15
Rockville †	78	10	46.9	3.73
Rushville †				3.75
Seymour †	80	16	47.8	2.73
Shelbyville †	80[f]	14[f]	47.7[f]	2.86
South Bend †	75	11	43.9	2.49
Terre Haute †	79	15	48.8	2.10
Union City †	85	11	46.4	0.98
Valparaiso †	74	10	40.3	2.60
Veedersburg †	77	11	44.4	3.25
Vevay	85	16	49.2	2.14
Worthington †	86	14	48.8	2.77
Indian Territory.				
Eufaula †				6.23
Gwenndale †	79			2.43
Kemp †	89	23	57.5	7.28
Lehigh †	88	19	54.4	6.54
Purcell †	93	12	57.7	4.71
South McAlester †	84	23	56.2	4.77
Tulsa †				3.00
Iowa.				
Algona *[1]	79	0	37.9	1.57
Alta †	82	— 4	37.3	0.75
Amana †	78	4	41.1	2.92
Ames *b*	81	— 1	39.6	1.51
Ames *c*				1.49
Atlantic †	84	4	42.1	1.43
Audubon	81	1	41.1	1.09
Belle Plaine	78	3	40.7	3.05
Bonaparte †	80	7	44.6	2.51
Carroll †	82	0	38.5	1.76
Cedar Falls †	80	2	39.4	0.98
Cedar Rapids †	75	6	42.5	4.52
Centerville †	75	3	45.7	2.15
Charles City †	78	— 1	36.7	1.46
Clarinda †	81	5	41.8	1.17
Clinton	80	3	42.6	2.80
College Springs	83	0	42.7	1.46
Corning †	82	4	43.2	0.84
Cresco †	76	1	35.7	2.57
Decorah †	77	3	37.4	2.93
Delaware *[3]	78	4	37.1	2.71
Elkader †	80	3	39.6	2.73
Fayette †	78	5	38.7	3.28
Fort Madison *†[1]	80	12	46.4	0.90
Galva †	82	— 2	39.6	0.57
Glenwood †	86	— 4	46.3	1.12
Grand Meadow *[1]	78	5	38.1	3.45
Greenfield †	83	1	42.8	1.45
Grinnell †	78	5	42.8	3.47
Grundy Center	78	0	38.1	2.40
Hampton	79	— 1	37.5	2.23
Hopeville †	80	4	42.2	1.82
Hopkinton *[5]	75	8	41.6	3.18
Humboldt †				1.69
Independence †	78	3	40.4	3.25
Indianola †	81	4	44.4	0.99
Iowa City †	81	5	43.8	
Iowa Falls †	78	— 3	37.5	1.65
Keosauqua †	84	9	45.7	3.05
Knoxville	80	4	42.0	2.57
Larrabee †	82	— 5	37.4	1.14
Le Claire †				2.27
Logan †	85	3	41.0	0.40
Maxon *[1]	79	2	41.5	2.24
Mechanicsville	76	4	40.3	3.51
Monticello *†[1]	76	3	38.4	3.84
Mount Pleasant *[2]	77	10	45.[illegible]	2.34

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
Iowa—Cont'd.				
Mount Vernon *1	79	3	40.4	3.65
Murray	.....	.....	.....	0.26
Newton	79	2	41.9	2.21
North McGregor †	.....	.....	.....	2.33
Osage *†3	.....	1	34.3	1.85
Oskaloosa †	80	6	43.1	2.21
Ottumwa	81	6	44.8	2.36
Ovid †	80	5	43.2	2.36
Panama †	82	2	42.1	0.62
Richland *1	84	4	41.3	2.61
Rockwell City	.....	.....	.....	1.35
Sac City †	82	— 2	37.5	1.15
Seymour †	80	5	44.5	0.72
Sibley	80	— 5	37.2	1.01
Spirit Lake †	82	— 5	38.1	1.17
Tipton †	79	5	42.2	3.38
Toledo *1	82	2	41.8	2.53
Vinton *1	71	4	40.3	2.41
Washington †	82	6	42.0	2.97
Webster City *1	80	0	37.8	1.70
West Bend *†1	80	— 4	37.1	.....
Williams *1	70	— 1	37.4	1.62
Winterset †	81	3	42.0	2.76
Kansas.				
Abilene †	86	8	48.8	0.62
Achilles *†3	84	9	35.0	0.37
Allison *†3	84	9	39.6	0.25
Altoona *†3	79	16	46.9	2.21
Atchison †	83	8	46.4	1.79
Beloit †	85	4	41.8	0.05
Bucklin	.....	.....	.....	0.05
Burlington †	86	11	47.8	1.87
Cawker City *1	74[d]	8[f]	41.8[h]	0.20
Colby †	81	7	42.2	0.30
Coldwater †	88	10	47.7	0.33
Collyer	.....	.....	.....	0.25
Columbus †	79	14	49.2	3.37
Coolidge †	81	9	44.8	0.10
Cunningham †	83	7	47.8	0.42
Downs	.....	.....	.....	0.13
Eldorado †	80	11	46.6	0.50
Elk City *1	80	17	50.8	1.92
Emporia †	80	12	48.7	1.35
Englewood †	92	5	47.9	0.07
Eureka Ranch †	84	6	43.7	0.61
Fort Riley †	80	8	47.5	0.63
Garden City †	82	8	45.8	1.20
Garfield	.....	.....	.....	0.12
Gibson *1	78	1	41.3	0.60
Gove *†1	85	14	41.2	0.37
Grainfield	.....	.....	.....	0.04
Grenola *1	82	12	48.8	1.65
Grinnell	.....	.....	.....	0.05
Halstead *	76	10	46.4	0.96
Hays City †	85	1	44.6	0.00
Horton †	82	9	45.8	1.67
Hutchinson †	84	12	48.4	0.69
Independence †	80	14	50.6	2.73
Ionia †	87	0	42.5	0.25
Jaqua †	82	6	41.2	0.73
Johnson †	82	10	44.2	0.06
Kiowa †	85	9	50.4	0.65
Lakin †	85	.....	.....	1.03
Lawrence 1	86	10	48.3	1.22
Lebo †	83	9	48.1	1.66
Leoti †	80	8	43.1	0.38
Macksville †	84	5	46.8	0.20
McPherson †	80	10	46.4	0.73
Manhattan *b*	86	8	47.3	0.67
Manhattan *c* *1	82	8	43.0	0.81
Marion †	82	9	47.1	0.87
Marmaton	.....	.....	.....	3.48
Medicine Lodge	.....	.....	.....	0.52
Minneapolis †	86	4	45.2	0.23
Monument *1	84	12	42.4	0.10
Morland †	84	*3	42.2	0.45
Morton †	84	10	46.6	0.40
Mount Hope *1	82	16	49.0	0.66
New Eng. Ranch † j	82	5	44.7	0.37
Norton †	83	8	44.3	0.45
Oberlin †	.....	.....	.....	0.68
Olathe †	80	8	47.4	2.28
Oswego †	81	9	49.4	3.43
Pauline *	80	12	48.4	0.87
Phillipsburg †	72	.....	.....	0.84
Pleasant Dale †	83	3	45.9	0.08
Quinter	.....	.....	.....	0.25
Rome *†1	82	8	48.7	1.18
Sedan †	80	13	50.5	2.81
Sharon Springs *1	84	13	43.5	0.15
Sterling †	80	10	50.6	0.30
Topeka	79[e]	10[e]	43.5[e]	1.30
Tribune †	80	9	44.8[f]	0.30
Ulysses †	85	8	46.0	0.10
Wakefield *1	85	12	47.0	0.36
Wallace *a* †	.....	.....	.....	0.28
Wamego *1	80	10	45.6	0.92
Washington †	85	7	46.1	0.68
Winfield *5	82	10	48.6	1.17
Winona *3	84	14	44.8	0.02
Yates Center †	80	.....	.....	2.15
Kentucky.				
Alpha *†1	83	18	56.7	2.20
Blandville *1	76	14	50.6	4.38
Bowling Green *a* *1	78	21	49.3	2.89
Kentucky—Cont'd.				
Bowling Green *b* †	86	16	54.3	2.72
Burnside †	.....	.....	.....	1.13
Caddo *†1	78	10	47.6	2.90
Canton *†1	80	20	52.7	5.35
Carrollton *†1	85	19	49.8	2.34
Catlettsburg *†5	79	19	50.3	1.25
Eddyville †	.....	.....	.....	4.71
Edmonton †	80	14	51.2	2.70
Elizabethtown †	81	14	49.3	3.55
Eubank †	85	10	49.9	1.84
Falmouth †	.....	.....	.....	2.50
Fords Ferry †	82	16	52.9	3.39
Franklin *†1	80	20	54.9	3.60
Georgetown	81	13	48.7	.....
Greendale *1	86	14	49.3	2.04
Greensburg *†1	77	16	51.0	3.26
Harrodsburg †	84	12	50.0	2.10
Henderson †	81	18	53.4	3.11
Hendricks †	.....	.....	.....	1.70
Louisa †	.....	.....	.....	1.26
Middlesboro †	83	14	51.7	2.19
Mount Sterling †	85	14	47.6	1.80
Munfordville *†1	82	15	51.9	1.55
Paducah *a* †	.....	.....	.....	3.86
Paducah *b* †	82	18	54.0	3.83
Pellville †	79	10	50.8	3.80
Princeton †	82	11	50.4	4.16
Richmond † [f]	84	10	50.8	1.15
Russellville †	83	14	53.0	3.73
Sandy Hook †	80	11	48.0	1.15
Shelby City *1	80	16	50.2	1.98
Shelbyville †	84	16	49.6	2.94
South Fork †2	.....	.....	45.9	1.92
Springfield †	85	15	50.8	2.39
Williamsburg †	.....	.....	.....	2.55
Louisiana.				
Abbeville	87	31	64.1	7.06
Alexandria †	.....	30	.....	6.61
Amite †	85	20	61.7	7.69
Bastrop †	88	24	59.6	9.67
Baton Rouge †	83	29	61.6	7.68
Calhoun †	84	25	59.2	8.22
Cameron *†6	.....	35	62.8	2.91
Cheneyville †	.....	32	.....	6.34
Clinton †	83	35	65.6	5.86
Coushatta *a* †	.....	.....	.....	10.68
Coushatta *b* †	84	25	61.0	10.46
Covington †	.....	.....	.....	4.26
Davis	83	22	58.8	6.33
Delhi †	.....	.....	.....	8.93
Donaldsonville †	86	32	61.6	7.98
Emilie †	81	32	62.2	5.91
Farmerville	82	26	58.5	8.54
Franklin †	84	33	64.4	5.07
Girard †	85	27	58.4	8.58
Grand Coteau	82	35	64.4	8.68
Hammond †	86	29	62.0	7.60
Jeanerette †	82	32	63.8	4.65
Lafayette †	83	32	63.3	7.49
Lake Charles †	.....	.....	.....	3.25
Lake Providence †	83	28	58.6	8.12
Lawrence †	83[d]	35[d]	59.7[d]	7.38
Liberty Hill	88	22	60.2	8.87
Maurepas	88	29	63.6	8.02
Melville †	86	.....	.....	9.46
Minden †	86	24	59.2	8.35
Monroe †	85	26	61.4	10.48
Natchitoches †	85	25	59.6	9.63
New Iberia [h]	81	45	67.6	2.98
Opelousas †	.....	30	.....	8.94
Oxford †	85	24	57.2	8.11
Paincourtville †	85	31	64.0	5.11
Plain Dealing	84	25	58.0	7.86
Plaquemine	84	30	62.[illegible]	7.07
Rayne †	.....	.....	.....	7.98
Roseland	84	28	61.8	6.03
St. Joseph †	85	30	60.8	4.44
Schriever †	84	32	65.2	6.37
Shell Beach	80	34	62.8	4.47
Sugar Ex. Station †	83	32	62.1	7.66
Sugartown †	81	22	59.0	7.55
Thibodeaux	.....	.....	.....	5.61
Wallace	84	34	63.6	5.67
West End	.....	.....	.....	6.96
Winnfield †	84	27	60.5	5.02
Winsboro	86	30	59.4	7.20
Maine.				
Bar Harbor	57	14	35.8	1.46
Belfast *6	54	19	34.8	1.58
Calais †	66	8	34.6	2.18
Cornish *1	65	12	35.9	1.93
Fairfield	58	9	33.7	0.86
Farmington †	72	2	35.2	2.20
Fort Kent †	65	—13	31.4	1.60
Gardiner	58	9	35.0	1.44
Houlton †	57	— 7	28.8	1.52
Indian Stream	62	— 2	29.4	1.31
Lewiston	68	13	34.3	1.99
Madison *1	62	10	34.2	1.70
Mattawamkeag	58	— 5	30.1	.....
North Bridgeton	61	9	33.6	2.51
Orono †	63	8	32.5	1.23
Petit Menan *1	42	19	33.3	.....
West Jonesport *1	48	13	35.2	.....

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
Maryland.				
Bachmans Val. *1	74	16	42.4	2.78
Benedict †	86	20	49.5	0.97
Boettcherville *1	78	14	45.3	1.00
Charlotte Hall †	83	15	48.7	0.91
College Park	82[e]	16[e]	46.9[e]	1.27
Cumberland *a* †	76	18	44.9	1.33
Darlington †	78	18	46.7	1.29
Denton † 5	.....	.....	48.2	2.26
Easton †	82	23	51.2	0.84
Fallston *1	80	18	45.4	1.70
Fenby *1	76	16	45.6	1.60
Great Falls *5	79	19	47.4	1.45
McDonogh [h]	75	18	48.2	.....
Mardela Springs †	80	16	47.6	1.45
Mt. St. Marys Col †	78	11	43.9	0.65
New Market *1	73	20	43.5	1.31
Oakland † 1	70[e]	4	40.8	2.24
Pocomoke City	81	18	51.2	.....
Solomons †	82	22	48.8	1.17
Sunnyside	74	2	39.4	2.51
Taneytown †	.....	.....	.....	0.93
Upper Marlboro †	82	16	48.2	0.86
Valley Lee 2	.....	.....	47.2	1.23
Woodstock	78	16	45.8	2.84
Massachusetts.				
Adams	70	14	39.6	.....
Amherst	73	16	39.9	1.45
Amherst Ex. St'n *a*	73	16	39.0	1.66
Amherst Ex. St'n *b*	73	17	39.6	1.77
Andover	64	18	39.7	0.99
Ashland	.....	.....	.....	1.46
Bedford	74	17	40.8	1.07
Beverly Farms	66	17	38.9	1.12
Blue Hill (sum't)	66	15	39.6	1.21
Blue Hill (valley)	69	17	40.4	1.02
Boston	.....	.....	.....	1.42
Brockton *a*	69	17	41.4	1.34
Brockton *b*	.....	.....	.....	1.38
Brockton *c*	.....	.....	.....	1.31
Cambridge *a*	72	19	42.0	0.37
Cambridge *b*	71	20	41.4	0.84
Chestnut Hill	70	17	41.8	1.14
Clinton	.....	.....	.....	1.08
Concord †	73	16	40.5	0.93
Dudley	67	14	39.6	1.29
East Templeton *1	68	16	37.3	0.63
Egg Rock, Nahant	63	19	38.5	.....
Fall River *1	62	20	41.0	2.45
Fiskdale	.....	.....	.....	1.30
Fitchburg *a* *1	72	17	38.8	0.81
Fitchburg *b*	74	14	39.6	1.11
Framingham	69[f]	15	40.6[f]	1.41
Gilbertville	70	14	38.4	1.11
Groton *a*	75	12	38.6	1.18
Hingham	.....	.....	.....	1.00
Hyannis	61	20	42.3	1.61
Kendall Green	70	19	41.2	0.97
Lake Cochituate	71	11	40.2	1.16
Lawrence	74	15	40.3	1.14
Leeds	73	13	38.1	1.16
Leicester	72	9	37.8	0.40
Leominster *4	71	16	37.6	1.15
Long Plain *4	60	18	35.7	1.91
Lowell *a*	70	18	40.0	1.27
Lowell *b*	76	16	40.4	.....
Lowell *c*	79	18	42.8	.....
Ludlow Center	66	4	36.6	1.12
Lynn *a*	70	19	42.3	1.11
Lynn *b*	70	20	41.2	.....
Mansfield *1	70	18	39.4	1.64
Middleboro	64	16	39.2	1.22
Milton *1	69	17	41.2	0.98
Monson	70	9	40.7	1.75
Mount Nonotuck	.....	.....	.....	1.48
Mystic Lake	.....	.....	.....	1.09
Mystic Station	.....	.....	.....	0.99
New Bedford *a*	60	20	41.2	1.84
New Bedford *b*	61	19	41.1	1.88
North Billerica	74	20	41.4	0.92
Pittsfield	64	12	36.8	1.13
Plymouth *1	68	23	42.4	1.56
Provincetown	58	21	39.6	1.28
Randolph	.....	.....	.....	1.18
Roberts Dam	.....	.....	.....	1.07
Roxbury	69	20	42.2	1.08
Royalston *	66	.....	37.0	.....
Salem	.....	.....	.....	1.07
Salisbury	.....	.....	.....	0.99
Somerset *1	64	18	42.5	1.29
South Dennis	60	19	39.6	1.59
Springfield Arm'ry	72	19	42.4	1.87
Taunton *b*	65	17	42.5	1.26
Taunton *c*	65	17	40.6	1.42
Taunton *d*	65	17	40.4	0.87
Wakefield †	73	18	41.1	1.10
Waltham	.....	.....	.....	1.20
Webster	.....	.....	.....	1.63
Wellesley	67	19	41.0	1.24
Westboro †	70	15	41.5	1.40
Williamstown	70	14	37.2	1.13
Winchendon	.....	.....	.....	1.16
Winchester	.....	.....	.....	0.96
Winthrop	68	20	41.1	0.92
Worcester *a*	69	16	39.8	1.46
Worcester *b*	71	15	40.9	1.41
Michigan.				
Adrian	76	7	41.3	2.33
Albion	72	8	39.8	1.51
Allegan	76	8	41.5	2.10
Alma	78	7	38.0	1.73
Ann Arbor	73	10	38.4	2.17
Arbela 2	.....	.....	36.0	1.11
Ball Mountain	73	7	38.2	1.10
Bear Lake	67	5	35.1	4.16
Bellaire	76	4	36.0	2.30
Benton Harbor	77	12	42.6	2.79
Berlin *1	76	6	37.7	1.24
Berrien Springs *a* *1	76	16	44.4	3.37
Berrien Springs *b*	.....	.....	.....	3.35
Birmingham	72	12	39.4	1.70
Boon	73	— 2	34.4	5.71
Bronson	77	6	40.2	2.10
Brown City	75	8	39.0	0.71
Calumet	55	— 2	27.2	3.36
Charlevoix	76	10	36.6	1.35
Cheboygan	74	— 2	32.4	3.05
Clinton	75	6	40.8	3.33
Crystal Falls	59	— 1	29.8	1.40
Evart [f]	73	— 3	36.2	3.26
Fairview	73	5	39.5	2.09
Fitchburg	75	8	39.2	1.52
Flint	77	7	38.4	1.04
Frankfort *10	62	18	39.0	.....
Grande Pointe au Sable *10	60	12	34.3	.....
Grand Rapids	75	10	41.0	2.60
Grape	76	7	41.8	1.34
Grayling *	65	0	31.9	1.10
Hammonds Bay *10	70	10	33.5	.....
Hanover	72	6	41.1	2.06
Harbor Springs	74	0	34.4	3.07
Harrison	75	2	36.4	2.73
Harrisville	74	5	34.2	3.01
Hart	65	6	42.2	4.10
Hastings	72	9	39.6	1.44
Hayes	76	10	40.0	1.70
Highland Station	75	10	39.4	1.57
Holland *10	72	13	40.7	.....
Howell	73	9	39.7	1.95
Jeddo	73	11	38.0	0.60
Kalamazoo	74	11	41.3	1.30
Lansing	74	10	39.2	1.26
Lathrop *11	56	1	30.0	1.80
Lewiston	76	2	35.4	1.94
Lodi	73	0	35.3	3.10
Ludington *9	55	18	38.0	.....
Madison	74	7	40.4	1.81
Manistee *b* *10	58	14	34.3	.....
Mayville	77	8	38.4	1.62
Mottville	77	7	41.8	1.66
N. Manitou Isl'd *10	63	12	35.1	.....
North Marshall	72	4	37.7	1.09
Northport	77	12	36.6	2.59
Old Mission	75	9	35.4	2.22
Olivet	73	5	44.2	0.40
Ottawa Point *9	50	10	35.0	.....
Ovid	74	9	39.0	1.27
Paris	72	0	36.2	4.42
Point Betsey *9	62	12	38.6	.....
Rawsonville *1	78	14	41.3	1.73
Rockland	65	0	31.2	2.60
Saint Ignace	59	0	31.5	3.41
Sand Beach	75[e]	11[e]	39.1[e]	1.95
Stanton	75	4	37.4	1.47
Thornville	76	9	40.8	0.57
Thunder Bay I'd *10	52	5	32.8	.....
Vandalia	72	12	41.6	2.78
Williamston *1	75	14	43.4	1.12
Ypsilanti	76	9	39.8	1.91
Minnesota.				
Ada †	58	— 8	32.0	1.13
Airlie †	78	— 7	36.0	0.92
Albert Lea †	76	— 2	34.3	2.09
Alexandria *a* †	.....	.....	.....	2.18
Alexandria *b*	64	—10	26.0	.....
Barrett *1	55	— 5	27.8	.....
Beardsley †	70	— 9	32.4	2.29
Belle Plaine *1	70	0	33.4	3.30
Bingham Lake † j	80	— 6	37.2	0.70
Bird Island	77	— 4	33.7	1.43
Blooming Prairie *1	74	— 3	34.0	1.47
Bonniwells Mills †	72	— 3	35.0	1.67
Caledonia †	76	3	36.4	2.70
Cambridge †	72	— 5	31.5	2.67
Camden †	80	— 1	34.0	1.61
Campbell	66	—15	30.1	1.89
Carver † 2	.....	.....	27.5	2.88
Clear Lake †	73	— 6	31.5	1.95
Clearwater *1	72	—12	30.9	1.47
Collegeville	76	— 6	34.6	1.38
Cromwell *1	50	— 6	25.2	4.67
Crookston *a* †	48	— 8	26.4	2.10
Dassel *1	72	0	32.6	.....
Dawson *1	76	— 4	32.8	.....
Excel *1	48	—12	22.6	0.95
Farmington †	76	— 1	34.3	2.80
Fergus Falls †	59	— 7	29.1	1.70
Fort Ripley †	.....	.....	.....	2.77
Grand Meadow †	75	— 1	33.7	1.62
Granite Falls	81	— 6	33.6	1.31
Hutchinson *1	66	— 2	31.1	1.40

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
Minnesota—Cont'd.	°	°	°	*Ins.*
Jadis †[e]	46	—14	25.2	1.95
Lake Vermillion †	59	—13	28.6	2.29
L Winnibigoshish*[2]	60	—14	27.0	3.07
Leech Lake *[1]	57	—19	27.1	3.07
Long Prairie †	66	— 9	28.4	1.82
Luverne †	77	— 5	35.5	0.81
Maple Plain	75	— 4	34.0	2.96
Marfield †	55	—15	26.2	3.83
Mazeppa [1]	60[d]	2	32.2	0.74
Medford †	78	— 2	35.8	2.00
Milan †	79	— 6	32.2	1.80
Minneapolis *a* †	75	— 3	34.5	3.05
Minneapolis *b* [1]	74*	— 3	33.6	2.93
Minnesota City *† [2]	77	6	37.1	1.23
Montevideo †	80	— 5	34.0	1.28
Morris	71	— 6	30.4	1.69
New London	74	— 6	30.9	1.37
New Richland *† [d]	72	4	32.4	.....
New Ulm	76	0	36.8	2.03
Ortonville †	.....	.....	.....	1.99
Park Rapids †	54	—15	26.9	1.73
Perham †	56	—12	27.0	.....
Pine River *[1]	55	—12	27.9	2.33
Pokegama Falls [1]	60*	—24	25.7	3.80
Red Lake †	51	—14	25.8	1.00
Red Wing †	.....	.....	.....	1.10
Redwood Falls †	.....	.....	.....	0.24
Rolling Green †	73	— 3	35.9	1.75
Rush City †	73	— 5	30.7	2.97
Saint Charles †	74	1	35.4	1.05
Saint Cloud	68	— 3	32.8	2.55
Saint Oloff	57	— 8	29.5	1.74
Saint Peter †	77	1	37.0	3.10
Sandy Lake Dam *[1]	50	—22	27.3	2.33
Sauk Center	70	—10	28.5	2.41
Starbuck	69[k]	2[k]	33.5[k]	1.72
Sunrise City *[3]	74	0	30.1	.....
Two Harbors †	51	— 6	29.4	.....
Wabasha *[1]	76	0	35.8	1.29
Willmar †	75	— 5	31.4	2.03
Winona	75	6	37.2	2.11
Worthington	78	— 5	34.8	1.49
Mississippi.				
Aberdeen †	.....	.....	.....	4.27
Agricult'ral Col'ge	83	24	57.2	6.79
Batesville †	82	22	57.0	7.79
Biloxi †	82	30	60.8	6.00
Briers	83	30	60.8	5.48
Brookhaven †	82	22	59.4	5.46
Canton †	82	28	59.7	5.08
Clarksdale †	83	24	59.4	7.51
Columbus *a* †	.....	.....	.....	5.98
Crystal Springs †	84	24	60.5	3.77
Duck Hill †	84	21	58.2	5.72
Edwards	84	26	60.2	10.11
Enterprise †	85	22	60.3	4.25
French Camps †	79	18	54.3	7.13
Greenville *a*	79	24	57.6	8.98
Greenville *b* †	85	23	59.2	9.48
Hattiesburg †	88	27	60.8	5.07
Hernando †	80	23	56.8	6.42
Itta Bena *† [d]	84[l]	28	57.8	8.26
Jackson †	85	27	60.9	3.56
Kosciusko †	85	23	57.2	5.55
Lake †	82	23	56.6	3.69
Leakesville †	86	28	61.1	5.71
Logtown †	82	32	62.6	6.85
Louisville †	84	18	57.0	7.16
McComb †	84	28	62.3	2.77
Macon †	86	21	56.8	4.60
Mayersville	86	25	61.7	8.32
Moss Point †	82	30	62.7	.....
Natchez †	85	28	62.2	6.25
Okolona †	.....	.....	.....	5.94
Palo Alto †	83	24	57.5	7.26
Pontotoc †	82	24	57.7	6.35
Stonington *[1]	84	34	63.4	.....
Thornton *† [4]	84	30	60.0	7.46
Topton *[3]	84	28	58.0	4.00
University †	81	23	56.7	.....
Water Valley *[1]	88	22	56.7	8.06
Waynesboro †	85	25	57.6	6.85
Woodville †	85	26	62.8	7.94
Yazoo City †	87	25	65.0	5.55
Missouri.				
Appleton City †	82[c]	12[c]	48.8[d]	2.80
Arlington †	.....	.....	.....	4.08
Arthur *[3]	.....	5	36.6	2.20
Bagnell †	.....	.....	.....	2.89
Bethany	82	7	44.7	2.78
Big Piney	.....	.....	.....	3.10
Birch Tree	82	14	51.0	5.14
Bluffton *[1]	82	13	51.5	2.83
Boonville †	.....	.....	.....	2.22
Brunswick	84	11	47.3	0.39
Carrollton †	81	13	47.6	2.59
Conception	79	8	38.6	.....
Cowgill	.....	.....	.....	4.25
Downing	.....	.....	.....	2.78
East Lynne *[3]	.....	12	45.2	2.52
Edge Hill *[5]	74	18	49.9	3.37
Eight Mile *[1]	79	10	47.2	2.70
Eldon *[1]	82	14	49.0	3.10
Emma *[3]	.....	12	46.8	2.15
Fairport	.....	.....	.....	3.00

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
Missouri—Cont'd.	°	°	°	*Ins.*
Farmersville	.....	.....	.....	2.92
Fayette	85	11	49.8	2.20
Fox Creek *[1]	82	12	50.8	2.73
Fulton [g]	.....	.....	.....	0.93
Gallatin *[1]	80	7	46.6	2.80
Gayoso *[3]	.....	20	50.8	7.97
Glasgow	83	11	48.9	1.97
Gordonville *† [3]	.....	19	49.2	4.20
Gorin *[3]	72	13	43.0	2.28
Grove Dale	82	7	50.8	3.74
Half Way	.....	.....	.....	3.87
Harrisonville †	89	10	49.3	2.16
Hastain	81	12	47.8	2.71
Hermann †	.....	.....	.....	3.11
Houston	75	10	48.0	5.57
Ironton *[1]	80	13	49.6	4.73
Kidder	81	8	45.3	2.86
Lamar †	80	15	49.5	3.88
Lamonte †	.....	.....	.....	2.30
La Plata *[1]	76	16	45.4	2.43
Lebanon	80	14	50.9	5.63
Lexington †	83	12	49.6	2.43
Liberty	86	13	49.2	2.69
Louisiana Bridge †	.....	.....	.....	2.30
McCune *[1]	82	13	47.4	3.76
Marceline	.....	.....	.....	3.46
Marshall †	83	11	47.0	2.46
Mexico †	85	12	46.7	2.85
Mine La Motte †	82	15	51.0	4.10
Mount Vernon	82	13	49.0	4.22
Neosho	84	11	50.3	3.31
Nevada	.....	.....	.....	2.80
New Boston	78	8	45.0	1.40
New Hartford *[1]	82	12	49.2	3.54
New Haven *[1]	82	16	50.2	3.31
New Madrid	79	20	54.4	7.44
New Palestine	.....	.....	.....	1.21
Oakfield †	83	13	51.0	3.05
Oak Ridge *[4]	80	10	51.2	3.44
Olden †	80	14	51.5	5.51
Oregon *a*	84	8	46.0	2.00
Oregon *b* †	83	9	45.2	1.89
Oto	.....	.....	.....	3.05
Palmyra	.....	.....	.....	2.00
Panacea	82	12	49.2	5.08
Paris	81	14	47.9	1.10
Phillipsburg *† [5]	79[c]	13	48.3[c]	4.10
Pickering *[3]	84	6	42.9	1.52
Platte River *[3]	80	12	42.5	2.16
Poplar Bluff	80	17	52.8	5.64
Potosi	77	5	46.4	3.16
Princeton *[1]	80	6	46.0	1.60
Round Spring	.....	.....	.....	4.91
Saint Charles	82	14	49.6	2.94
Saint Joseph †	.....	.....	.....	2.18
Saint Louis	82	14	49.4	2.78
Sarcoxie *[3]	86	18	49.2	2.70
Sedalia	82	9	48.8	2.33
Shelbina	.....	.....	.....	1.80
Steffenville	.....	.....	.....	2.34
Stellada †	83	13	49.8	2.44
Sublett	78	8	45.4	3.70
Unionville	.....	.....	.....	1.04
Vermont *† [1]	81	11	47.5	1.83
Vilas	.....	.....	.....	2.14
Virgil City	.....	.....	.....	3.21
Warrensburg *[1]	80	14	48.6	1.74
Warrenton	80	12	49.3	3.08
Wheatland	.....	.....	.....	3.00
Whiteside	80	13	47.8	2.56
Montana.				
Boulder †	57	— 1	28.0	0.71
Choteau †	60	0	30.0	0.80
Deer Lodge City †	64	0	31.7	0.56
Fort Custer †	62	— 7	28.4	1.80
Fort Keogh	64	— 9	25.5	1.75
Fort Logan †	50	4	27.3	1.26
Fort Missoula	57	12	32.0	1.33
Glasgow †	69	— 7	27.6	.....
Glendive †	62	— 8	28.9	2.60
Great Falls †	58	— 9	29.2	1.05
Hogan †	54	— 6[h]	29.6[h]	0.91
Martinsdale †	56	— 1	29.6	1.71
Mingusville †	71	—20	32.6	1.70
Musselshell †	62	— 5	29.2	0.74
Powder River †	64	—17	27.8	2.83
Red Lodge †	.....	.....	.....	3.48
Virginia City †	57	3	29.8	1.13
Nebraska.				
Agee *[1]	80	— 4	34.4	1.67
Arborville *[1]	80	— 2	40.7	0.44
Ashland †	84	5	44.3	0.62
Ashton *[1]	80	— 4	36.5	0.43
Bassett [1]	76*	— 9	34.6	0.78
Beatrice †	84	8	42.6	0.90
Beaver City	84	4	43.6	0.26
Bratton *[1]	84	6	44.6	.....
Burwell *[1]	66	6	40.8	0.33
Callaway †	77	1	39.9	0.80
Cornlea	.....	.....	.....	1.01
Creighton *† [1]	80	— 1	35.8	1.46
Crete	84	6	44.6	3.19
Culbertson	.....	.....	.....	0.28
David City *† [3]	78	3	36.8	0.30
Ericson *† [1]	84	— 2	39.4	0.80

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
Nebraska—Cont'd.	°	°	°	*Ins.*
Ewing †	.....	.....	.....	0.57
Fairbury *[5]	82	8	44.6	2.15
Fort Robinson	71	— 5	36.9	1.31
Fort Sidney	73	— 1	38.0	0.80
Franklin †	85	1	44.5	0.50
Geneva †	85	3	40.5	1.27
Genoa †	82	3	40.5	0.60
Gering †	73	1	37.4	0.70
Glenwood *[3]	87	— 5	30.6	0.20
Haigler *[1]	82	12	38.8	0.20
Hartington †	82	— 3	38.0	0.58
Harvard *[1]	84	2	39.8	0.28
Hay Springs †	69[c]	— 3[c]	33.7[c]	1.73
Hebron †	88	5	44.3	0.97
Holdrege *[3]	.....	4	37.2	0.60
Indianola *[5]	81	9	40.8	0.70
Kennedy *† [1]	78	— 5	36.8	2.55
Kimball †	74	— 2	37.2	1.15
Lexington †	82	— 6	38.3	1.63
Lincoln	84	5	43.1	1.13
Lynch *† [1]	80	— 2	35.8	0.67
Madrid *† [5]	74	5	38.0	1.01
Marquette *	83	7	.....	0.47
Minden [1]	84	0	39.2	0.50
Mullen *† [1]	70	4	35.7	1.19
Nebraska City *† [1]	80	5	43.1	0.54
Norfolk †	78	— 1	40.0	0.49
North Loup *† [1]	82	0	41.1	0.92
Oakdale †	80	— 1	38.3	0.58
Ogallala †	76[c]	9[g]	39.6[g]	.....
O'Neill *[1]	78	— 2	37.0	1.00
Ough †	.....	.....	.....	0.53
Plattsmouth †	.....	.....	.....	1.00
Ravenna	82	— 1	41.4	0.81
Red Cloud	.....	.....	.....	0.33
Santee Agency †	82	— 3	39.1	0.81
Seward *[3]	87	3	43.2	0.25
Springview	78	— 0	38.2	0.75
Stanton *[1]	79	2	37.5	0.48
State Farm	86	5	44.3	1.24
Superior *[5]	81	2	44.0	0.76
Sutton	75	3	41.1	0.64
Table Rock *† [1]	86	6	44.0	0.94
Tecumseh †	83	6	44.1	0.70
Wallace *[1]	78	10	38.6	1.70
Weeping Water *[1]	82	3	39.6	0.39
West Point †	87	0	40.6	1.00
Whitman *[1]	64	2	27.0	2.30
Wilcox	.....	.....	.....	0.47
York *[1]	70	6	39.8	1.00
Nevada.				
Austin	60	4	34.0	1.63
Battle Mountain *[1]	72	25	42.8	0.28
Belleville *[3]	78	20	40.5	T.
Belmont	62	0	33.2	0.51
Beowawe *[8]	70	20	39.8	0.15
Candelaria	73	15	42.4	T.
Carlin *[8]	62	8	32.5	0.00
Carson City	72	10	40.8	0.97
Cranes Ranch	.....	.....	.....	0.99
Downeyville	88	15	45.2	0.50
Edgewood	57	— 8	31.1	1.00
Elko *[8]	60	12	33.1	0.30
Ely	62	—11	34.6	4.30
Eureka	75	.....	.....	1.62
Fenelon *[8]	53	10	32.1	2.00
Genoa	70	9	41.8	0.70
Golconda *[1]	72	26	41.9	0.15
Gold Hill	74	13	41.2	0.55
Halleck *[1]	60	8	31.5	1.07
Hawthorne *a* *[8]	69	22	44.6	0.12
Hawthorne *b*	71	17	43.4	0.02
Hot Springs *[1]	75	20	41.5	0.00
Humboldt *[8]	70	20	40.3	0.00
Lewers Ranch	70	9	38.9	1.80
Lovelock *[8]	70	30	44.6	0.00
McGill *	66	—10	32.9	2.40
Mill City *[1]	72	24	47.1	.....
Osceola	.....	.....	.....	2.12
Palisade *[1]	68	12	35.8	1.25
Palmetto	70	5	36.6	0.60
Paradise	71	16	39.2	0.16
Reno *[8]	72	19	44.3	T.
Reno State Univ'ty	71	12	39.1	0.22
Saint Clair	73	16	40.6	0.06
Stofiel	60	—13	24.9	5.28
Sunnyside	72	0	41.2	1.20
Tecoma *[8]	66	12	34.6	T.
Toano *[1]	52	0	31.2	1.27
Tybo	68	0	38.3	0.80
Verdi *[8]	68	5	39.3	1.50
Virginia City	66	12	38.0	1.40
Wadsworth *[8]	84	16	40.1	0.00
Wells *[8]	62	— 5	33.0	2.32
Winnemucca *[8]	66	21	39.2	0.37
New Hampshire.				
Alstead *[4]	65	9	34.1	1.33
Antrim	.....	.....	.....	1.18
Belmont	.....	.....	.....	0.81
Berlin	63	3	32.9	.....
Berlin Mills	65	2	32.2	2.28
Bethlehem	62	3	33.0	1.50
Brookline *[1]	74	18	40.1	1.22
Concord	70	11	36.2	1.16
Dublin	67	10	36.4	0.91

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
N. Hampshire—Con.	°	°	°	*Ins.*
Durham	75	18	40.3	0.99
East Canterbury	62	11	35.4	1.95
Grafton	67	10	35.7	1.17
Hanover	63	11	35.9	1.10
Keene	73	10	37.4	1.21
Lakeport	.....	.....	.....	1.63
Lancaster	64	2	35.4	1.46
Littleton	61	4	32.9	2.03
Mine Falls	.....	.....	.....	1.13
Nashua	76	16	40.4	0.93
Newton	75	14	38.6	0.96
North Conway	66	6	34.5	2.43
Pennichuck St'n	.....	.....	.....	0.97
Peterboro	70	14	38.0	0.64
Plymouth	64	2	31.8	1.84
Sanbornton †	68	9	35.2	1.17
Stratford	64	— 3	33.7	1.44
Wiers Bridge	.....	.....	.....	2.11
West Milan	72	— 3	32.0	2.30
Wolfboro	.....	.....	.....	1.33
New Jersey.				
Allaire	78	12	44.6	.....
Asbury Park	75	18	43.6	2.26
Barnegat	70	15	45.5	2.26
Bayonne	73	20	44.2	1.80
Belvidere	72	15	42.2	1.17
Beverly †	81	19	46.6	1.92
Billingsport *[1]	74	22	44.6	1.34
Blairstown	69	15	41.8	.....
Boonton	70	16	42.2	1.17
Bridgeton	80	22	48.6	1.55
Camden	78	21	46.0	1.82
Cape May	79	24	46.0	1.36
Cape May C. H †	81	22	46.9	1.19
Charlotteburg	72	14	39.9	1.69
Chester	75	15	40.7	1.61
Deckertown	66	14	40.2	1.71
Dover	70	16	41.8	1.09
Egg Harbor City	81	18	45.3	1.76
Elizabeth †	73	20	44.0	1.80
Franklin Furnace	67	13	40.2	1.59
Franklinville	78	16	45.0	1.99
Freehold	74	16	44.2	2.15
Friesburg	.....	.....	.....	1.75
Gillette	69	14	41.4	2.39
Hammonton	.....	.....	.....	2.41
Hanover	65	16	42.5	1.61
Highland Park †	71	18	42.9	1.74
Hightstown	74	20	45.6	2.21
Imlaystown	75	19	46.2	2.05
Junction	.....	.....	.....	1.23
Lambertville	72	20	45.4	1.57
Millville	83	19	47.8	1.69
Moorestown	77	20	46.0	2.14
Newark *a*	69	19	43.1	1.89
Newark *b* †	70	19	43.7	1.94
New Brunswick *a*	76	18	45.0	1.59
New Brunswick *b*	74	19	42.9	1.59
Newton	68	15	40.9	1.37
Ocean City	70	20	44.4	1.42
Oceanic	70	24	46.3	2.21
Paterson	74	20	45.0	1.65
Pensauken	.....	.....	.....	2.11
Plainfield	71	19	43.0	2.54
Rancocas *	76	20	.....	1.60
Readington *[6]	72	20	47.4	.....
River Vale	69	14	41.4	1.67
Salem	80	20	46.5	1.70
Somerville	75	14	43.7	2.08
South Orange	68	20	42.9	1.73
Tenafly	71	15	42.8	1.59
Toms River	80	17	45.0	2.65
Trenton	76	20	47.4	1.56
Vineland	83	19	47.9	1.81
Whiting	82	18	46.8	2.53
Woodbine	80	14	45.0	1.22
New Mexico.				
Albert †	80	18	48.0	0.00
Albuquerque †	74	18	45.2	0.18
Alma †	76	18	46.0	0.77
Chama †	71	— 2	35.4	2.60
Coolidge †	.....	.....	.....	0.20
Deming *[3]	84	31	53.3	0.45
East Las Vegas †	71	12	41.6	0.04
Folsom †	73[d]	5[d]	39.8[d]	0.10
Fort Bayard	77	14	44.2	0.05
Fort Stanton †	77	14	43.2	0.27
Fort Wingate	73	8	39.0	1.30
Galisteo †	69	18	42.2	T.
Gallinas Spring †	77	12	46.0	T.
Halls Peak †	68	2	36.6	0.12
La Luz †	75	23	48.3	0.77
Las Cruces †	85	15	48.8	0.26
Lordsburg *[8]	85	32	50.1	0.20
Los Lunas †	78	18	46.5	0.25
Monero † [2]	60	4	32.1	0.74
Olio †	75	17	45.3	0.47
Pojuaque	.....	.....	.....	0.41
Raton †	78	8	40.0	0.27
Rincon †	86	18	51.4	0.20
San Marcial †	79	25	49.0	0.29
Socorro †	78	22	49.4	0.55
Springer †	83	11	44.1	0.05
Sulphur Hot Sp'gs †	60	—10	30.8	0.78
Taos †	72	4	39.4	0.91

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
New York.				
Addison	70	8	39.9	1.06
Akron	.....	.....	.....	1.64
Alfred Center	70	7	37.2	1.35
Angelica †	72	7	38.0	1.78
Arcade	72	10	37.2	1.83
Arkwright	70	14	37.8	.....
Atlanta	.....	.....	.....	1.14
Baldwinsville	72	12	36.9	2.18
Bedford	.....	.....	.....	1.27
Big Sandy *[10]	62	10	37.2	.....
Binghamton †	68	14	39.8	1.51
Bolivar	.....	.....	.....	1.78
Boonville	.....	.....	.....	1.70
Bovina Center	.....	.....	.....	4.48
Brentwood	66	20	40.6	2.75
Brookfield	68	5	34.7	2.65
Charlotte *[10]	74	19	39.2	.....
Cherry Creek	.....	.....	.....	2.47
Cooperstown †	68	9	35.5	1.92
Cortland	64	9	36.5	1.59
De Kalb Junction	.....	.....	.....	2.39
Demster	.....	.....	.....	1.93
Eden Center	80	9	38.3	2.53
Ellis	.....	.....	.....	1.12
Elmira †	76	16	41.7	1.05
Factoryville †	72	13	40.4	1.35
Fleming	72	15	38.2	1.15
Fort Niagara †	74	21	40.6	0.88
Friendship	73	6	38.5	1.73
Glens Falls	67	10	37.0	1.60
Gloversville	64	9	34.6	2.38
Hess Road St'n †	74	17	39.1	1.43
Honeymead Brook[1]	67[g]	16	39.1	1.59
Humphrey †	75	9	38.5	2.27
Ithaca	70	14	40.3	1.28
Jamestown *[6]	67	15	41.3	.....
Kings Station	.....	.....	.....	2.17
Lebanon Springs	73	12	37.4	0.96
Le Roy	74	14	38.1	2.32
Lockport	74	15	39.2	2.41
Lowville	65	7	35.0	1.72
Lyons	72	17	39.7	2.03
Madison Barracks †	70	13	38.2	2.17
Malone	66	5	34.5	2.98
Middletown	68	16	39.6	1.58
Minnewaska	65	10	36.5	1.65
Mount Morris	75	12	38.9	0.97
Newark Valley	.....	.....	.....	1.52
New Lisbon	68	8	35.9	1.40
North Hammond †	70	10	37.4	2.68
Number Four †	60	1	32.9	3.40
Ogdensburg	67	8	36.5	.....
Oxford	66	3	36.8	1.86
Palermo †	70	13	37.2	1.80
Perry City	68	12	37.3	0.99
Phœnix	.....	.....	.....	1.89
Pine City	.....	.....	.....	1.03
Plattsburg B'ks	56	5	34.2	1.91
Port Jervis	67	15	39.1	1.57
Potsdam	64	7	34.5	1.72
Poughkeepsie	64	5	35.9	1.21
Romulus	72	16	40.0	0.58
Rondout †	69	20	39.2	1.70
Saranac Lake	66	3	32.9	2.04
Setauket †	66	21	41.8	1.34
South Canisteo	72	8	38.4	1.64
South Kortright †	67	4	35.7	1.25
Stillwater	71	15	38.0	1.30
Turin	57[c]	4[e]	32.3[c]	2.76
Varysburg	79	7	38.8	2.12
Wappingers Falls	66	18	39.4	1.57
Warwick	.....	.....	.....	0.87
Wedgwood	73	9	38.6	1.00
West Chazy	.....	.....	.....	1.27
West Point †	72	11	38.2	1.33
Willets Point	65	25	42.8	2.03
North Carolina.				
Asheville †	84	11	50.5	1.56
Auburn *[1]	90	23	56.5	1.82
Bailey *[1]	90	18	55.8	0.86
Bakersville †	80	11	48.2	1.95
Blowing Rock †	68	5	45.2	1.19
Bryson City †	.....	.....	.....	2.41
Chapel Hill †	88	19	55.7	1.78
Columbus	78	18	51.6	1.39
Currituck Inlet †	.....	.....	.....	2.99
Experiment'l Farm	86	20	55.8	1.79
Fair Bluff †	.....	.....	.....	2.77
Falkland *[1]	90	27	57.1	4.77
Fayetteville †	.....	.....	.....	2.10
Forest Hill *[1]	75	17	49.8	2.42
Greenville †	.....	.....	.....	2.73
Henderson †	88	19	55.4	1.90
Highlands	74	4	45.8	2.99
Horse Cove †	77	9	50.4	3.15
Lenoir *†[1]	83	18	52.0	1.16
Lewiston	.....	.....	.....	2.81
Lillington †	.....	.....	.....	1.95
Littleton †	89	20	53.8	2.03
Louisburg †	82	22	53.6	1.95
Lynn *†[2]	86	.....	50.3	2.01
Marion	81	16	52.4	0.67
May *[1]	88	22	58.5	1.97
Mocksville †	86	19	56.0	1.26
Morganton *†[1]	87	16	54.0	0.85
N. Carolina—Cont'd.				
Mount Airy †	84	16	50.6	0.86
Mount Pleasant	86	19	56.2	1.63
Murphy †	.....	.....	.....	3.03
Newbern †	76	22	54.2	3.15
Oak Ridge †	85	17	53.6	0.78
Pittsboro	84	19	52.4	1.19
Raleigh *†[1]	86	25	57.8	2.30
Rockingham †	88	20	57.9	1.25
Roxboro †	86	22	54.0	2.07
Rutherford Col *[1]	88	10	49.5	1.18
Salisbury *a*	85	22	56.2	1.32
Salisbury *b* †	.....	.....	.....	1.19
Saxon †	89	14	52.4	0.97
Selma	88	23	56.2	2.95
Shelby †	79	18	52.8	.....
Sloan	88	24	58.5	4.33
Soapstone M't †	84	17	53.4	1.76
Southern Pines †	91	20	58.7	1.44
Tarboro	91	21	57.2	2.64
Washington †	93	24	57.8	3.01
Weldon †	87	23	54.3	2.13
Willeyton	88	20	55.0	1.76
North Dakota.				
Ashley	69	−21	25.7	1.55
Berlin †	65	−18	26.5	1.95
Churchs Ferry	52	−12	22.6	1.82
Devils Lake	48	−12	21.2	0.95
Dickinson †	62	−19	22.5	0.94
Fargo †	52	−16	26.4	1.29
Forman †	64	−14	30.5	1.88
Fort Berthold	61	− 9	30.2	3.05
Fort Stevenson †	59	−13	24.4	1.98
Fort Yates †	69	− 9	28.2	2.13
Gallatin †	56	−12	25.3	1.00
Grafton †	47	−11	24.0	1.05
Grand Forks †	51	− 9	26.1	0.84
Jamestown †	59	− 9	27.2	0.81
Kelso †	57	− 9	27.9	1.20
Larimore	50[1]	−13[1]	25.7[1]	0.80
Lemert †	64	−16	24.5	0.72
McKinney	46	−19	21.3	1.42
Milton †	52[e]	−19[d]	19.8[b]	1.50
Minto †	57	−12	25.0	0.77
Napoleon †	62	−15	25.4	1.25
New Salem	65	−16	27.5	0.45
Oakdale †	56	−16	26.0	2.55
Portal †	57[1]	−11	24.8[1]	0.50
Power †	60	−13	28.2	1.47
Saint Johns †	47	−13	19.8	2.59
Sheyenne *	54	−14	25.5	.....
Valley City †	60	−10	27.6	0.90
Wahpeton †	60	−12	30.0	1.87
Washburn	66	−15	26.2	3.52
Wild Rice † [2]	.....	.....	25.6	1.84
Woodbridge †	43	−22	17.9	0.60
Ohio.				
Akron	73	14	44.3	2.23
Annapolis	79	12	44.8	1.76
Arcanum	.....	.....	.....	2.85
Ashland	72	14	43.4	1.84
Athens	84	13	47.1	2.49
Auburn	74	10	41.7	2.19
Bangorville	74	8	43.1	3.54
Batavia	.....	.....	.....	2.53
Bellefontaine	84	12[c]	47.6[c]	3.03
Benton Ridge	77	6	45.0	2.02
Bethany	81	15	46.0	1.94
Big Prairie	78	12	44.5	2.10
Binola	76	12	45.2	3.27
Bissells	75	11	42.4	2.81
Bladensburg	77	12	43.5	2.39
Bloomingburg	84	12	48.0	2.46
Bloomington	.....	.....	.....	2.22
Bowling Green	78	3	43.1	1.73
Bucyrus	74	10	43.0	0.60
Caledonia †	.....	.....	.....	2.65
Cambridge	81	15	43.9	2.49
Canal Dover	78	16	46.1	2.20
Canton †	74	15	43.7	2.23
Cardington	75	10	43.3	1.94
Carrollton	80	12	45.0	2.29
Cedarville	.....	.....	.....	2.30
Celina	80	14	47.3	1.95
Cherry Fork	86	12	46.3	2.74
Circleville †	.....	.....	.....	2.09
Clarksville	81	15	46.2	2.71
Cleveland	76	14	44.0	2.00
Coalton	85	8	46.5	2.02
Colebrook	.....	6	.....	1.31
Cynthiana	.....	.....	.....	3.29
Dayton *a*	80	14	47.4	2.15
Dayton *b* †	.....	.....	.....	2.57
Defiance	79	10	44.7	1.63
Demos	79	12	46.3	2.28
Dupont	76	14	44.5	1.24
Ellsworth	75	9	43.0	1.68
Elyria	75	11	44.1	3.24
Fairport Harbor *[10]	72	20	42.2	.....
Findlay	76	9	43.7	2.09
Fostoria	76	8	43.9	1.31
Frankfort †	81	15	46.2	1.92
Garrettsville	74	11	40.7	2.52
Georgetown	84	15	48.4	2.86
Gratiot	81	14	45.7	1.80
Greenfield	80	15	46.6	1.28

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
Ohio—Cont'd.				
Green Hill	77	12	42.6	1.64
Greenville	77	13	44.8	2.34
Guysville	85	12	41.4	1.45
Hackney	81	12	46.3	2.36
Hanging Rock	85	13	47.9	1.42
Harbor	74	18	41.1	1.77
Hedges	75	10	44.2	1.53
Hillhouse	75	10	41.4	2.96
Hillsboro	85	14	47.4	2.50
Hiram	73	7	41.3	2.62
Jacksonboro	83	12	46.0	1.70
Kenton †	81	10	47.0	3.11
Kilbourne	74	14	43.9	2.52
Killbuck	78	12	44.0	2.00
Leipsic	76	14	43.5	2.30
Levering	73	9	42.0	2.78
Logan	87	12	46.6	2.29
Lordstown	75	10	42.2	2.32
Lowell	86	15	47.5	2.21
McArthur	84	10	46.2	2.30
McConnelsville	83	13	46.4	2.10
Mansfield †	.....	.....	.....	2.59
Marietta *a* †	.....	.....	.....	2.18
Marietta *b*	85	18	50.1	2.00
Marion	78	10	45.0	2.24
Milfordton	75	9	42.3	2.91
Milligan	85	10	45.0	2.07
Millport	74	12	48.4	1.98
Montpelier	74	8	41.1	2.63
Napoleon	76	9	43.0	2.21
Nelsonville	81	12	48.0	1.92
New Alexandria	76	13	45.9	2.73
New Berlin	73	12	43.3	1.08
New Bremen	78	13	45.2	1.57
New Comerstown	81	15	44.4	1.97
New Holland	83	10	45.9	2.50
New Paris	78	12	44.5	1.67
North Lewisburg	76	12	45.7	2.55
North Royalton	72	9	43.0	1.76
Northwood	84	11	46.8	2.88
Norwalk	80	11	44.0	1.72
Oberlin	76	9	44.0	1.41
O. S. University	79	14	45.1	2.02
Orangeville	74	10	41.8	2.05
Pataskala	81	13	44.6	2.54
Plattsburg	79	12	45.2	2.31
Pt. Marblehead *[10]	76	19	44.0	.....
Pomeroy	75[c]	17[e]	46.2[e]	0.83
Portsmouth *a* †	.....	.....	.....	1.60
Portsmouth *b*	91	17	50.9	1.81
Ridge	.....	.....	.....	2.42
Ridg'v'le Corners	78	7	43.6	1.49
Ripley	82	15	47.6	2.59
Rittman	73	9	42.2	2.32
Rush Creek	.....	.....	.....	1.83
Sharon Center	74	16	48.3	2.15
Shenandoah	75	10	43.0	2.07
Sidney †	.....	.....	.....	2.28
Springboro	.....	.....	.....	2.44
Spring Valley	82	8	47.8	2.04
Stoutsville	.....	.....	.....	2.28
Sylvania	79	7	40.6	1.91
Thurman	87	13	48.1	0.83
Tiffin †	74	12	44.8	1.77
Vanceburg	84	16	48.1	1.97
Van Wert	76	11	44.4	2.30
Vermillion	76	13	42.5	1.33
Vickery	75	9	43.1	1.87
Walnut	.....	.....	.....	2.26
Warren	77	12	43.0	2.53
Wauseon	78	6	43.0	3.17
Waverly	84	13	48.2	2.09
Waynesville	.....	.....	.....	2.30
Wellington	76	11	43.9	1.91
Westerville	76	15	45.2	2.07
Weymouth	78	9	42.8	2.50
Wheeler † [2]	.....	.....	39.8	3.17
Wooster *a*	75	14	43.5	2.36
Wooster *b* †	.....	.....	.....	2.31
Youngstown	75	10	43.4	2.48
Zanesville †	.....	.....	.....	1.92
Oklahoma.				
Anadarko †	94	17	54.5	3.30
Arapaho †	84	13	51.4	0.88
Buffalo †	88	12	52.2	0.10
Burnett †	84	17	53.9	4.42
Clifton †	88	15	53.8	3.12
Enid †	84	17	50.7	0.33
Fort Reno †	88	15	49.6	1.90
Fort Sill	88	19	53.9	2.82
Fort Supply †	86	9	47.4	0.12
Guthrie †	84	19	54.0	3.32
Keokuk Falls †	86	18	54.6	1.94
Mangum †	86	19	56.3	0.62
Ponca †	84	15	51.7	2.56
Pond Creek †	84	9	49.8	0.22
Sac & Fox Agency †	88	19	54.7	3.20
Stillwater †	84	20	52.6	3.83
Wiunview †	86	16	52.4	1.68
Oregon.				
Albany *a* †	69	29	44.4	10.45
Albany *b* *[8]	72	30	45.1	9.36
Arlington †	70	27	44.2	2.75
Ashland *a* *[8]	73	27	43.4	5.20
Ashland *b*	76	22	44.4	2.65
Oregon—Cont'd.				
Aurora *[8]	70	32	46.8	9.33
Aurora (near)	69	27	44.0	11.51
Bandon	57	32	45.5	18.52
Beulah †	67	10	36.6	1.37
Brownsville *[8]	74	29	44.9	9.94
Burns †	54	−12	26.9	0.70
Canyon City †	77	10	40.4	2.31
Cascade Locks	68	29	43.4	16.52
Comstock *[8]	78	30	44.7	11.90
Cornelius	68	24	42.8	10.84
Corvallis *a*	67	29	43.6	8.12
Corvallis *b* *[8]	62	26	41.5	9.64
Corvallis (near)	69	26	43.9	11.00
East Portland *	68	28	.....	6.78
Eugene †	.....	.....	.....	9.45
Fife †	64	− 8	33.8	0.70
Forest Grove	68	27	41.6	9.72
Gardiner	62	31	45.4	13.63
Glenora	64	24	39.1	25.63
Grants Pass *a* †	74	21	45.0	4.94
Grants Pass *b* *[8]	71	28	46.8	5.03
Happy Valley †	68	11	35.8	1.48
Heppner †	66	22	41.8	2.76
Hood River	68	25	42.4	17.21
Hood River (near)	63	25	39.3	12.67
Hubbard	68	29	44.4	9.30
Jacksonville	74	22	44.2	4.56
Joseph †	53	6	30.7	2.20
Junction City *[8]	66	30	44.4	8.70
Klamath Falls	67	7	42.4	1.90
Lafayette *[8]	66	30	43.8	11.55
La Grande †	64	14	38.4	1.72
Langlois	70	32	48.0	20.65
Lone Rock	69	8	35.8	2.87
McMinnville *a* †	68	27	43.3	10.25
McMinnville *b* *[8]	68	26	42.0	10.26
Merlin *[8]	74	24	42.2	5.02
Monmouth *[8]	71	30	45.9	9.80
Mount Angel †	68	28	44.8	9.52
Newbridge	75	19	42.6	.....
Newport	83	27	39.7	13.12
Pendleton	70	25	43.8	2.58
Portland *[8]	67	30	44.3	9.47
Riddles *[8]	70	26	44.1	6.17
Roseburg *[8]	73	32	47.0	7.69
Salem *a* *[8]	61	34	44.6	10.37
Salem *b* †	68	28	45.0	10.13
Sheridan *[8]	60	30	44.2	9.17
Silverton *[8]	70	30	42.8	9.60
Siskiyou *[8]	68	18	38.4	7.55
Sparta	55	7	32.5	4.33
Springbrook	67	30	43.4	10.27
Springfield *[8]	65	28	42.4	10.18
The Dalles †	70	28	44.2	3.73
Tillamook R'k L.H.	.....	.....	.....	8.71
Toledo	71	26	43.6	19.12
Umatilla †	.....	.....	.....	1.49
Vale	67	18	39.8	0.85
West Fork *[8]	70	28	44.7	11.16
Weston	67	23	39.7	4.26
Williams	72	21	44.0	6.94
Pennsylvania.				
Altoona	73	23	49.4	0.80
Aqueduct	84	15	46.0	1.09
Beaver Dam †	.....	.....	.....	2.16
Blooming Grove *[1]	67	17	39.6	1.11
Bloomsburg [d]	67	17	42.7	0.31
Blue Knob	65	11	40.8	2.49
Brookville †	.....	.....	.....	1.34
Browers Lock	.....	.....	.....	1.93
Carlisle *a*	78	16	43.2	1.14
Carlisle *b*	76	15	43.6	0.48
Chambersburg †	74	15	43.2	1.17
Clarion †	.....	.....	.....	2.10
Coatesville	80	17	44.8	2.08
Confluence †	.....	.....	.....	2.36
Coopersburg	72	18	43.8	1.60
Davis Island Dam †	.....	.....	.....	2.64
Doylestown	.....	.....	.....	1.38
Drifton [d]	66	4	33.5	0.35
Du Bois †	.....	.....	.....	1.96
Dyberry †	66	11	37.7	1.55
East Mauch Chunk	69	14	41.6	1.67
Easton	69	16	42.4	1.25
Edinboro *[1]	68	13	39.2	.....
Elwood Junction †	.....	.....	.....	1.89
Emporium	73	11	40.8	1.24
F'ks of Neshami'y [1]	.....	.....	44.2[d]	1.70[d]
Frederick	.....	.....	.....	1.49
Freeport †	.....	.....	.....	2.28
Gettysburg †	.....	.....	.....	1.21
Grampian *[1]	70	10	39.8	2.27
Greensboro †	.....	.....	.....	2.36
Greenville	77	12	43.0	1.94
Hamburg	75	15	43.4	1.53
Hollidaysburg	75	13	43.5	1.44
Honesdale	64	12	37.5	1.59
Huntingdon †	75	14	44.0	1.07
Johnstown †	74	*5	44.4	1.95
Kane	72	9	39.6	2.24
Kennett Square	80	17	45.4	1.45
Kilmer *	70	20	45.4	1.03
Lancaster	78	17	44.6	1.49
Lansdale	.....	.....	.....	1.74
Lebanon	76	17	43.6	1.48

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
Pennsylvania—Con.				
Le Roy †	64	10	38.0	1.00
Lewisburg	68	16	42.5	1.13
Ligonier	78	4	42.8	2.29
Lock Haven †	74	13	42.5	0.84
Lock No. 4 †	.....	.....	.....	1.95
Lycippus	77	11	45.0	2.31
Mahoning †	.....	.....	.....	2.55
Newcastle †	75	13	42.8	1.47
Oil City †	.....	.....	.....	1.90
Ottsville	.....	.....	.....	1.56
Parker †	.....	.....	.....	2.09
Philadelphia *a*	.....	.....	.....	1.68
Philadelphia *b*	80	20	47.3	1.64
Philadelphia *c*	76	21	45.9	1.70
Phœnixville	78	16	45.3	1.76
Point Pleasant	.....	.....	.....	1.39
Pottstown	80	20	45.4	1.74
Quakertown	73	16	42.4	1.68
Reading [2]	.....	.....	42.0	1.32
Ridgway †	.....	.....	.....	1.53
Saegerstown	75	— 2	41.0	1.74
Salem Corners	66	14	39.6	1.73
Saltsburg †	.....	.....	.....	2.10
Seisholtzville	.....	.....	.....	1.40
Selins Grove	74	16	42.6	1.09
Shinglehouse	72	11	38.8	1.84
Smethport	75	7	39.0	1.86
Smiths Corners	.....	.....	.....	1.71
Somerset	74	8	43.6	1.85
South Eaton	67	14	41.2	0.80
State College	69	13	42.7	1.14
Stoyestown †	.....	.....	.....	1.48
Swarthmore	78	18	46.1	1.34
Uniontown	76	16	45.8	2.90
Warren †	.....	.....	.....	1.87
Wellsboro *† [1]	72	10	38.3	0.24
West Chester	77	18	45.1	1.67
West Newton †	.....	.....	.....	2.16
Westtown	77	18	43.7	1.60
Wilkesbarre †	70	16	43.8	1.68
York †	80	16	45.1	1.58
Rhode Island.				
Bristol	58	20	40.2	1.10
Kingston	60	14	40.0	1.93
Lonsdale	.....	.....	.....	1.25
Newport	64	20	43.8	.....
Pawtucket	66	22	41.6	1.19
Providence *a*	66	22	43.7	1.33
Providence *c*	66	18	40.8	1.43
South Carolina.				
Aiken	88	25	61.4	2.25
Anderson †	.....	.....	.....	2.17
Blacksburg	83	20	55.9	1.15
Blenheim *[3]	.....	23	55.0	.....
Camden †	.....	.....	.....	1.71
Central [2]	.....	.....	52.8	1.73
Cheraw *a* †	90	23	58.6	1.31
Cheraw *b* †	.....	.....	.....	1.87
Clemson College †	.....	.....	.....	2.80
Conway †	.....	.....	.....	2.81
Coronaco †	.....	.....	.....	1.58
Cross Hill *[1]	84	22	57.8	2.02
Darlington *[1c]	88	27	60.4	.....
Edisto †	.....	.....	.....	2.49
Effingham †	.....	.....	.....	2.86
Flint Hill †	86	23	57.2	1.37
Gaffney †	.....	.....	.....	1.59
Georgetown †	86	29	61.3	1.15
Greenville †	.....	.....	.....	2.30
Greenwood †	.....	.....	.....	0.93
Hollands Store †	86	18	56.0	1.60
Kingstree † *b*	.....	.....	.....	2.51
Little Mountain *[1]	88	23	59.5	0.71
Longshore †	86	20	56.7	1.93
McCormick *† [1]	84	26	57.8	1.71
Martins	.....	.....	.....	3.01
Mount Carmel †	.....	.....	.....	1.52
Pinopolis *[1]	82	29	59.3	3.49
Port Royal †	82	30	62.7	2.11
Reidville	88	22	58.1	.....
Saint Stephens † [4]	.....	.....	.....	2.78
Santuck *[1]	82	24	56.6	1.86
Simpsonville †	86	19	56.8	3.27
Society Hill †	88	25	59.7	3.09
Statesburg †	87	26	60.4	2.52
Tatum Station *[2]	.....	26	55.9	1.73
Timmonsville *[1c]	85	40	63.6	.....
Trenton	87	26	61.4	2.32
Trial †	89	26	61.7	2.63
Watts *[5]	84	22	57.7	1.76
Yorkville	86	20	58.4	1.18
South Dakota.				
Aberdeen †	69	—10	33.0	3.97
Alexandria †	86	— 5	37.0	1.69
Ashcroft †	66	—23	27.0	2.60
Brookings †	78	— 7	34.2	1.23
Castlewood †	76	— 8	31.0	0.89
Cross †	63	—10	31.8	1.88
De Smet †	85	— 8	35.1	0.90
Faulkton †	68	—14	29.0	5.37
Flandreau †	80	— 6	34.6	1.02
Forestburg †	79	— 4	35.6	0.98
Fort Meade	68	— 8	32.7	3.08
Fort Sully	74	— 4	34.8	2.60
Frankfort †	74	—13	32.4	3.20
S. Dakota—Cont'd.				
Gale †	70	—14	29.4	2.01
Gary †	76	— 8	32.0	2.10
Greenwood	79	— 1	37.0	0.77
Highmore *† [1]	72	—12	30.6	2.20
Hotch City †	69	—17	34.2	1.47
Howard †	79	— 6	35.2	1.27
Kimball †	80	— 7	35.0	1.30
Midland †	76	— 8	35.2	2.40
Millbank †	77	— 7	33.2	2.51
Northville *[6]	64	—14	29.8	1.53
Oelrichs †	72	—14	33.2	4.31
Parker †	80	— 4	35.6	1.77
Piedmont	.....	.....	.....	5.59
Rosebud †	70	— 4	35.8	2.46
Shiloh †	68	—18	30.8	1.75
Sioux Falls †	80	— 4	36.0	0.57
Spearfish †	70	— 9	31.6	7.40
Tyndall †	81	— 3	41.6	0.50
Vermillion †	84	— 2	40.9	0.52
Watertown †	78	— 8	33.5	1.32
Webster †	77	—13	31.4	3.52
Wentworth †	79	—10	31.3	1.04
Wessington Sp'gs †	82	— 8	35.0	1.49
Tennessee.				
Andersonville *[1]	80	15	51.6	2.21
Ashwood *† [1]	79	20	53.6	3.61
Bolivar *† [3]	.....	24	51.0[j]	7.83
Bristol †	81	12	48.5	1.77
Byrdstown *† [3]	84	11	50.6	2.15
Carthage †	.....	.....	.....	3.71
Charleston †	.....	.....	.....	3.85
Clarksville	82	17	53.3	3.87
Clinton †	.....	.....	.....	3.14
Columbia †	.....	.....	.....	3.66
Covington *a* †	78	22	54.6	9.49
Florence Station *[1]	79	21	53.5	3.94
Franklin †	82	15	52.3	4.29
Greeneville †	82	12	52.6	1.73
Harriman †	83	15	51.0	2.86
Harrogate †	79	17	51.7	2.29
Hohenwald	82	12	53.0	4.12
Jacksboro *[4]	83	15	49.5	2.42
Jackson *[1]	78	20	52.7	5.70
Johnson City †	81	16	51.1	.....
Kingston †	.....	.....	.....	2.33
Loudon †	.....	.....	.....	2.61
Lynnville *[1]	81	19	52.1	4.59
Missionary Ridge *[3]	.....	19	53.1	.....
Newport *[3]	84	14	49.6	2.18
Nunnelly *[1]	80	20	54.6	4.15
Palmetto †	.....	.....	.....	4.33
Parksville *[1]	80	19	54.5	2.98
Riddleton †	78	20	49.8	3.72
Rockwood †	.....	.....	.....	2.90
Rogersville *[1]	81	20	50.3	2.01
Rugby *[1]	80	12	48.6	2.43
Savannah *[1]	81	22	56.2	5.19
Springdale *[1]	84	17	54.6	2.55
Strawberry Plains †	.....	.....	.....	1.21
Trenton	80	19	52.8	6.57
Tullahoma *† [1]	76	15	48.3	4.90
Waynesboro *[1]	78	16	51.4	4.70
Wier *† [1]	82	12	51.2	4.10
Texas.				
Albany *† [1]	85	30	57.0	1.88
Arlington †	91	27	58.0	5.26
Arthur City †	.....	.....	.....	9.53
Aurora *[1]	100	26	59.0	4.89
Austin *b* *[5]	89	32	63.5	.....
Belton †	96	30	62.2	4.84
Boerne *† [3]	86	27	59.2	1.10
Brady †	94	24	59.9	1.16
Brazoria †	86	35	65.6	3.77
Brenham †	85	30	63.8	3.95
Burnet *† [1]	86	29	61.2	2.57
Childress †	91	17	54.8	T.
Coldwater † [k]	84	8	44.0	0.10
Coleman	.....	.....	.....	2.65
Columbia †	84	34	65.4	4.03
Corsicana *a* †	86	25	59.6	4.47
Corsicana *b* †	85	24	57.6	3.47
Cuero †	87[e]	33[e]	65.5[e]	0.65
Dallas †	90	25	59.8	6.51
Devine	92	30	63.5	0.46
Durham †	.....	.....	.....	0.00
Duval *[1]	91	30	64.0	3.45
Estelle †	90	23	59.0	5.75
Forestburg †	92	24	57.4	5.93
Fort Brown †	88	39	70.5	0.89
Fort Clark	91	38	66.7	0.00
Fort Hancock	86	8	49.0	0.20
Fort McIntosh	96	36	70.2	0.00
Fort Ringgold †	100	38	70.8	0.00
Fredericksburg *† [1]	91	26	60.2	0.97
Gainesville †	91	25	58.0	7.40
Graham †	94[e]	20[f]	57.7[f]	3.51
Grape Vine †	92	25	59.6	5.64
Hale Center †	92	21	53.7	0.00
Hallettsville †	85	33	64.2	1.64
Hartley †	82	11	43.8	0.52
Highland	96	22	58.7	2.35
Houston †	85	32	62.4	5.01
Huntsville †	84	30	62.0	4.35
Kent	.....	.....	.....	0.00
Kyle *† [6]	.....	34	65.4	2.12

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
	°	°	°	Ins.
Texas—Cont'd.				
Llano *† [3]	94	29	60.6	0.90
Longview †	85	28	60.2	7.07
Luling †	89	32	65.1	0.72
McGregor †	78	25	48.4	5.24
Menardville *† [1]	92	27	59.2	0.78
Mountain Spring †	91	25	59.0	9.35
New Braunfels †	89	32	63.5	1.14
Orange †	80	34	64.4	3.09
Paris †	85	26	58.0	7.64
Rockport *[1]	80	38	64.4	.....
Rock Springs †	.....	.....	.....	0.97
Round Rock †	94	26	63.8	3.32
San Marcos †	.....	.....	.....	1.84
Sierra Blanca † [d]	81	18	52.6	0.00
Silver Falls †	87	16	53.3	T.
Temple †	87	26	59.7	4.63
Victoria *† [1]	80[d]	38[d]	65.6[e]	2.12
Waco †	87	22	60.4	7.05
Weatherford †	91	25	57.6	4.20
Wichita Falls †	86	23	60.0	2.29
Utah.				
Blue Creek *[8]	69	24	36.4	0.95
Castle Gate †	63	8	36.0	1.78
Cisco †	76	19	45.1	1.02
Coalville †	67	— 7	30.4	1.85
Corinne *[8]	76	20	36.6	1.85
Deseret †	75	9	42.0	0.53
Fillmore †	75	3	41.0	1.04
Fort Du Chesne †	68	10	39.4	0.56
Glendale *† [1]	69	9	39.6	1.33
Grouse Creek *† [1]	60	— 4	30.0	1.93
Heber †	68	— 7	33.3	1.65
Kelton *[8]	72	4	41.8	1.30
Koosharem	63	— 5	32.7	0.97
Levan † [2]	.....	.....	37.7	1.20
Loa †	66	— 7	34.5	1.41
Logan †	58	10	32.8	1.81
Losee †	69	6	38.8	1.40
Manti †	72	10	37.2	.....
Moab †	79	17	48.0	0.74
Mount Pleasant *† [1]	65	10	39.4	1.70
Ogden *a* *[8]	70	20	39.1	2.45
Ogden *b* *† [1]	68	23	41.8	1.43
Parowan †	69	6	38.5	2.05
Promontory *[8]	62	10	32.9	0.70
Provo City † [2]	.....	.....	36.8	1.30
Randolph †	56	— 14	26.2	1.85
Richfield †	84	12	41.6	1.25
Saint George †	85	14	50.0	0.18
Scofield †	64	—22	27.7	1.96
Silver Lake *[1]	50	— 9	25.0	7.60
Singletree †	62	— 3	32.7	0.82
Snowville †	63	3	33.4	2.08
Soldier Summit †	61	10	32.2	3.40
Terrace *[8]	65	20	41.9	1.10
Thistle †	70	— 3	37.0	1.50
Vermont.				
Brattleboro	76	14	39.5	1.06
Burlington †	61	10	37.7	1.31
Cornwall	59	7	36.4	0.45
Enosburg Falls †	64	7	35.9	2.40
Hartland †	68	10	34.9	1.31
Irasburg †	59	3	31.8	2.20
Jacksonville	65	6	32.6	2.19
Norwich *[6]	63	7	34.8	1.18
St. Johnsbury	60	5	33.1	2.30
Simonsville	64	5	32.6	.....
Strafford *† [1]	58	4	33.3	1.10
Vernon *[6]	72	16	37.7	1.28
Wells	62	6	35.1	1.54
Woodstock	67	6	35.6	1.50
Virginia.				
Abingdon †	.....	.....	.....	2.19
Alexandria	84	20	49.8	0.89
Ashland †	90	18	53.0	1.52
Avon †	87	11	49.4	0.77
Bedford City †	82	18	51.2	0.68
Big Stone Gap †	82	12	46.8	2.34
Birdsnest *† [1]	85	26	50.8	3.15
Blacksburg	79	13	46.2	1.00
Buchanan †	.....	.....	.....	0.50
Cape Charles † [1]	80*	17	49.1	2.31
Charlottesville	85	17	51.6	0.86
Christiansburg †	.....	.....	.....	0.33
Clarksville †	.....	.....	.....	1.75
Dale Enterprise †	82	10	47.2	0.50
Danville †	.....	.....	.....	1.29
Falls Church †	.....	.....	.....	1.02
Fredericksburg †	86	16	50.0	1.38
Hampton	83	23	51.6	2.97
Hot Springs	76	9	45.2	1.01
Irwin †	82	16	50.4	1.38
Lexington †	84	11	46.9	0.61
Marion †	78	12	48.2	2.83
Nottoway	88	16	52.5	1.83
Petersburg †	86	20	53.4	2.02
Richmond *a* †	92	15	53.6	1.39
Richmond *b* †	.....	.....	.....	1.32
Riverton †	.....	.....	.....	1.24
Salem †	82	18	51.1	0.95
Saluda †	87	21	51.4	1.90
Spottsville †	83	21	51.0	2.89
Stanardsville †	84	18	50.3	0.69
Staunton †	84	14	48.4	0.42
Stephens City †	80	16	47.6	0.87
Virginia—Cont'd.				
Warsaw †	84	17	49.6	1.01
Woodstock †	.....	.....	.....	0.76
Wytheville †	76	12	47.5	1.82
Washington.				
Aberdeen †	72	30	43.4	12.53
Anacortes	.....	.....	.....	2.56
Blaine †	64	24	40.8	5.33
Bridgeport †	66	18	43.2	0.96
Chehalis †	68	27	42.0	6.86
Colfax †	60	24	39.0	4.99
Connell †	69	23	43.7	0.68
Davenport †	60	9	37.2	1.21
Dayton †	66	21	42.3	5.60
East Sound †	60	31	42.6	3.12
Elbe	.....	.....	.....	9.75
Ellensburg †	57	18	35.2	1.03
Ferry †	65	30	42.8	8.91
Fort Simcoe	67	20	42.7	2.18
Fort Spokane	65	19	39.4	2.12
Fort Townsend	61	26	41.4	1.92
Hunters †	51	7	30.6	2.06
Kennewick †	66	27*	.....	0.54
Lakeside †	58	23	38.9	1.19
Lapush †	60	29	41.0	13.14
Madrone *† [1]	66	28	43.1	7.81
Moxee Valley †	70	16	41.6	1.61
Olga †	57	30	41.8	3.78
Pine Hill *[1]	67	28	41.5	8.10
Pomeroy †	68	23	42.5	4.27
Pullman †	58	18	35.8	3.17
Rosalia †	60	12	36.4	3.17
Silver Creek *[1]	70	28	41.0	7.53
Snohomish †	68	27	43.2	5.75
Stillaquamish †	67	25	39.8	4.05
Tacoma †	65	27	42.2	6.76
Union City *† [1]	58	28	38.1	12.93
Vashon †	65	18	36.8	5.78
Waterville † [3]	55[e]	16*	30.6	1.40
Wenatchee Lake †	53	8	30.7	4.00
West Ferndale	63	23	41.0	3.13
West Virginia.				
Beverly †	82	6	46.1	2.38
Bloomery †	78	10	40.7	0.74
Bluefield †	78	9	47.3	1.80
Buckhannon *a* †	.....	.....	.....	2.63
Buckhannon *b* †	82	13	45.6	.....
Burlington †	78	11	45.7	T.
Charleston †	.....	.....	.....	1.94
Cloverdale †	.....	.....	.....	1.14
Davis †	79	1	40.9	2.82
Elkhorn †	80	13	49.6	1.92
Ella †	79	13	45.8	2.83
Fairmont †	.....	.....	.....	1.81
Glenville †	82	14	45.6	1.93
Grafton †	83	15	46.5	1.82
Harpers Ferry †	.....	.....	.....	1.11
Hinton †	.....	.....	.....	1.34
Marlinton †	78	5	41.1	1.84
Martinsburg †	81	18	45.2	1.26
Monarch *† [1]	83	18	48.8	.....
Morgantown *a* †	.....	.....	.....	1.57
Morgantown *b* †	85	15	44.8	.....
New Martinsv'le †	88	17	49.6	2.77
Parkersburg †	84	17	47.3	2.31
Philippi †	.....	.....	.....	1.75
Pleasant Hill *[3]	74	5	39.6	3.05
Point Pleasant †	83	17	50.0	2.36
Raleigh †	80	8	43.6	0.82
Rowlesburg †	.....	.....	.....	2.71
Sandyville *† [1]	84	14	43.8	1.25
Spencer †	78	10	45.6	1.22
Tannery *[1]	78	12	46.5	.....
Weston *a* †	.....	.....	.....	1.98
Weston *b* *[1]	79	16	47.5	.....
Wheeling *a* †	.....	.....	.....	1.92
Wheeling *b* †	81	19	49.5	2.35
Wisconsin.				
Amherst	75	5	35.6	2.08
Baraboo †	75	3	39.2	1.70
Barron †	65	— 3	31.1	2.44
Bayfield	51	3	36.1	5.09
Beaver Dam	70	4	39.1	3.39
Belleville	75	— 2	37.3	2.53
Beloit	73	8	40.6	2.94
Black River Falls †	79	0	36.3	1.60
Butternut †	62	—11	28.1	3.23
Cadiz *[3]	.....	8	36.0	2.55
Centralia	73	5	35.2	1.08
Chilton	70	6	37.8	2.48
Chippewa Falls †	.....	.....	.....	1.38
City Point	76	2	36.8	1.39
Crandon †	63	0	30.4	2.12
Delavan †	75	2	39.8	2.70
Eau Claire	75	3	35.2	2.03
Estella †	72	— 1	32.2	1.93
Florence †	62	— 2	31.2	1.37
Fond du Lac †	71	8	38.7	1.87
Grantsburg †	73	— 4	33.2	2.40
Hartford *† [3]	.....	4	35.4	2.22
Harvey †	73	6	37.8	1.56
Hayward †	8	— 9	30.0	1.90
Hillsboro	78	6	37.0	1.48
Janesville	75	8	39.2	2.26
Juneau †	70	7	39.2	1.97
Koepenick *† [1]	68	0	31.8	1.80

Meteorological record of voluntary observers, &c.—Continued.

Stations.	Temperature. (Fahrenheit.) Max.	Min.	Mean	Precip'n.
Wisconsin—Cont'd.	°	°	°	*Ins.*
Lancaster † [d]	79	5	36.6	.....
Lincoln † [2]	.....	.....	36.4	2.09
Madison †	72	8	38.3	1.73
Manitowoc †	57	8	35.3	2.39
Meadow Valley †	71	5	34.1	1.16
Medford *a* †	.....	.....	.....	2.20
Medford *b* †	66	— 5	32.5	1.95
Menomonie	77	— 3	31.3	3.02
Neillsville †	72	2	34.8	1.64
New Holstein †	73	9	37.8	3.59
Oconomowoc †	72	8	40.3	1.53
Oconto	71	8	36.0	2.13
Osceola †	73	— 2	31.6	2.80
Oshkosh †	70	8	39.1	1.68
Pepin	81	1	34.6	1.57
Portage †	.....	.....	.....	1.83
Port Washington	62	8	37.5	3.65
Prairie du Chien	82	1	37.8	1.99
Racine * [10]	60	5	36.6	.....
Raymond	75	9	39.1	2.70
Reedsburg †	76	8	38.8	1.97
Sharon †	75	7	39.0	3.65
Shawano	66	4	35.4	1.31
Sheboygan * [9]	55	8	37.2	.....
Stevens Point †	66	4	36.0	0.95
Valley Junction †	77	4	37.5	1.39
Viroqua	74	3	36.4	3.13
Watertown †	75	2	37.2	1.13
Wisconsin—Cont'd.	°	°	°	*Ins.*
Waukesha †	72	6	38.9	2.49
Westfield †	73	2	37.9	1.60
Weston * † [3]	78	6	32.8	2.05
Whitehall †	74	5	37.8	1.94
Wyoming.				
Big Horn Ranch †	57	— 7	28.8	3.20
Camp Pilot Butte †	62	4	31.0	0.46
Fort McKinney	63	— 6	29.1	1.55
Fort Washakie	63	— 6	31.5	2.67
Fort Yellowstone †	48	— 5	27.2	2.30
La Barge * † [1]	54	—28	18.2	1.66
Lander	58	0	32.6	3.96
Laramie	60	— 5	29.4	0.84
Saratoga †	55	3	29.6	2.30
Sheridan	64	—14	27.5	3.15
Sundance	54	—10	26.6	1.50
Wheatland †	76	5	36.8	0.90
Canada.				
Fort Francis, Ont	53	—16	24.4	2.55
Mexico.				
Cuidad P. Diaz	95	36	68.0	0.10
Leon de Aldamas	84	40	62.8	0.12
Mazatlan	79	54	66.0	0.00
Mexico	78	40	60.3	0.20
Puebla	78	43	61.2	0.03
West Indies.				
Grand Turk Island	.....	.....	.....	0.05
Hamilton, Ber	74	54	65.4	2.49

Reports received too late to be used in general discussion of weather for March, 1894.

California.				
Cloverdale * [1]	75	34	54.3	2.35
Colorado.				
Garnett	.....	.....	.....	0.02
Glen Eyrie †	67	7	38.6	1.36
Springfield †	.....	.....	.....	0.00
Georgia.				
Griffin †	85	.....	.....	5.85
Kansas.				
Ellis * [5]	80	12	46.1	.....
Wa Keeney * [1]	80	16	42.2	0.05
Massachusetts.				
Medford	.....	.....	.....	0.95
Monroe	64	7	35.0	2.59
Oregon.				
Lakeview †	59	0	29.8	3.18
Vernonia * [1]	69	26	40.5	12.79
South Dakota.				
Bowdle * † [1]	61	—10	30.1	2.80
Parkston †	79	— 6	32.9 [d]	1.01

Received too late for publication in February, 1894.

California.				
Point George L. H	.....	.....	.....	4.57
Wenrich Ranch	.....	.....	.....	1.46
Colorado.				
La Porte	.....	.....	.....	0.60
Kansas.				
Beloit †	.....	.....	.....	0.50
Ness City †	.....	.....	.....	0.85
Mississippi.				
Logtown †	76 [g]	30 [g]	52.2 [g]	11.61
Missouri.				
Warrensburg * [1]	58	1	29.5	1.52
New York.				
Lyons	46	— 3	22.8	2.55
Ohio.				
Bement	55	— 4	23.4	2.10
Oregon.				
Burns †	44	—32	12.4	1.70
Fife †	44	25	22.4	0.80
Utah.				
Singletree * † [1]	50	— 3	21.4	.....
West Virginia.				
Ella †	59	7	30.5	3.31
Monarch * † [1]	67	15	38.0	4.03
Morgantown *b* †	70	14	32.6	.....

EXPLANATION OF SIGNS.

* Extremes of temperature from observed readings of dry thermometer.
† Weather Bureau instruments.

A numeral following the name of a station indicates the hours of observation from which the mean temperature was obtained, thus:

[1] Mean of 7 a. m. + 2 p. m. + 9 p. m. + 9 p. m. ÷ 4.
[2] Mean of 8 a. m. + 8 p. m. ÷ 2.
[3] Mean of 7 a. m. + 7 p. m. ÷ 2.
[4] Mean of 6 a. m. + 6 p. m. ÷ 2.
[5] Mean of 7 a. m. + 2 p. m. ÷ 2.
[6] Mean from readings at various hours reduced to true daily mean by special tables.
[7] Mean from hourly readings of thermograph.
[8] Mean of 7 a. m. + 2 p. m. + 9 p. m. ÷ 3.
[9] Mean of sunrise and noon.
[10] Mean of sunrise, noon, sunset, and midnight.

The absence of a numeral indicates that the mean temperature has been obtained from daily readings of the maximum and minimum thermometers.

An Italic letter following the name of a station, as "Livingston *a*," "Livingston *b*," indicates that two or more observers, as the case may be, are reporting from the same station. A small Roman letter following the name of a station, or in figure columns, indicates the number of days missing from the record; for instance, "[n]" denotes 14 days missing.

No note is made of breaks in the continuity of temperature records when the same do not exceed two days. All known breaks, of whatever duration, in the precipitation record receive appropriate notice.

TABLE III—*Data from Canadian stations for the month of March*, 1894.

Station.	Pressure. Mean not reduced.	Mean reduced.	Departure from normal.	Temperature. Mean.	Departure from normal.	Precipitation. Total.	Departure from normal.	Prevailing direction of wind.
	Inches.	*Inches.*	*Inches.*	°	°	*Inches.*	*Inches.*	
Saint Johns, N. F	29.72	29.87	+ .04	27.8	0.0	5.51	.....	n.
Sydney, N. S	29.92	29.98	+ .11	28.8	+ 2.8	5.82	+ 0.57	nw.
Grindstone, G. S. L	.....	.....	.....	.....	.....	.....	.....	.....
Sandy Point, N. F	.....	.....	.....	.....	.....	.....	.....	.....
Halifax, N. S	29.88	30.02	+ .13	32.3	+ 3.8	3.52	— 2.34	n.
Grand Manan, N. B	29.96	30.01	.....	34.1	.....	2.68	— 1.47	nw.
Yarmouth, N. S	29.95	30.03	+ .15	34.2	+ 3.2	2.25	— 2.61	n.
Saint Andrews, N. B	29.93	29.98	.....	32.5	.....	1.97	— 2.42	nw.
Charlottetown, P. E. I	29.94	29.98	.....	29.3	.....	2.14	— 1.27	s.
Chatham, N. B	29.96	29.98	+ .08	27.2	+ 6.2	2.48	— 1.76	w.
Father Point, Que	29.92	29.95	+ .05	26.8	+ 7.3	1.15	— 1.31	w.
Quebec, Que	29.65	29.99	+ .04	28.0	+ 8.0	4.04	+ 0.13	w.
Montreal, Que	29.78	30.00	+ .04	31.4	+ 9.4	2.19	— 1.50	sw.
Rockliffe, Ont	29.44	29.97	— .01	26.3	+10.3	1.90	— 0.39	nw.
Kingston, Ont	29.69	30.02	+ .02	33.5	+ 9.5	2.00	— 1.06	sw.
Toronto, Ont	29.64	30.04	+ .01	34.9	+ 9.4	1.37	— 1.23	w.
White River, Ont	28.56	29.98	.....	18.2	+ 5.2	0.59	— 0.56	n.
Port Stanley, Ont	29.39	30.06	+ .03	34.4	.....	1.62	— 1.33	w.
Saugeen, Ont	29.26	30.00	— .02	34.2	+11.2	2.52	— 0.03	s.
Parry Sound, Ont	29.27	29.99	— .03	31.0	+12.5	3.18	+ 0.56	w.
Port Arthur, Ont	29.20	29.93	— .15	23.1	+ 9.1	1.53	+ 0.36	nw.
Winnipeg, Man	29.10	29.98	— .14	17.2	+ 6.7	1.63	+ 0.61	nw.
Minnedosa, Man	28.06	29.97	— .12	13.8	+ 3.8	0.88	+ 0.22	w.
Qu'Appelle, Assiniboia	27.62	30.00	— .07	15.5	+ 0.5	1.29	+ 0.65	s.
Medicine Hat, Assiniboia	27.56	29.95	— .08	26.2	— 1.3	0.99	+ 0.38	nw.
Swift Current, Assiniboia	.....	.....	.....	.....	.....	.....	.....	.....
Calgary, Alberta	26.27	29.94	— .10	24.0	— 3.0	0.67	— 0.09	w.
Prince Albert, Sask	.....	.....	.....	.....	.....	.....	.....	.....
Edmonton, Alberta	27.50	29.95	— .03	19.4	— 6.6	0.70	+ 0.05	nw.
Battleford, Saskatchew'n	28.14	29.99	.....	10.4	.....	0.70	.....	se.
Spences Bridge, B. C	29.05	29.90	.....	38.9	.....	0.19	.....	sw.
Hamilton, Bermuda	30.00	30.16	+ .08	64.2	.....	2.39	.....	n.
January, 1894.								
Sandy Point, N. F	29.86	29.88	.....	19.4	.....	6.67	.....	nw.
February, 1894.								
Sandy Point, N. F	29.86	29.88	.....	13.8	.....	4.79	.....	nw.

TABLE IV.—*Hourly sunshine as deduced from sunshine recorders, March*, 1894.

Stations.	Instrument.	Percentage for each hour of local mean time ending with the respective hour.																Monthly summary.			
		A. M.								P. M.								Instrumental record.			Personal estimate.
		5	6	7	8	9	10	11	Noon.	1	2	3	4	5	6	7	8	Actual.	Possible.	Per cent of possible.	
																		Hours.	*Hours.*		
Baltimore, Md	T.	.....	25	37	46	66	73	73	75	79	80	76	78	62	46	39	.....	245.1	371.5	66	57
Boston, Mass	T.	.....	33	45	47	52	66	75	76	77	73	62	59	54	36	21	.....	222.0	369.7	60	41
Buffalo, N. Y	T.	.....	50	24	26	40	48	57	71	79	79	71	61	47	34	13	.....	197.0	370.4	53	39
Chicago, Ill	T.	.....	25	18	35	50	61	60	65	64	65	61	54	50	34	19	.....	190.6	371.4	52	51
Cincinnati, Ohio	P.	.....	50	58	53	55	51	55	55	61	59	59	62	58	47	24	.....	206.7	370.3	56	51
Cleveland, Ohio	P.	.....	50	41	54	58	51	56	52	65	65	73	74	63	57	46	.....	219.6	371.2	59	45
Colorado Springs, Colo.	T.	.....	25	37	50	68	83	87	85	80	81	73	63	57	50	39	.....	251.5	370.7	68	50
Columbus, Ohio	T.	.....	33	43	48	59	68	71	72	74	75	73	69	60	55	30	.....	236.8	372.2	64	45
Denver, Colo	P.	.....	33	57	74	73	77	80	85	79	74	75	78	69	55	48	.....	270.0	370.0	74	49
Des Moines, Iowa	T.	.....	83	55	45	56	60	71	71	72	74	73	72	56	40	32	.....	229.2	370.9	62	51
Detroit, Mich	T.	.....	25	29	45	59	70	80	83	80	82	75	65	61	53	23	.....	241.7	369.2	66	45
Dodge City, Kans	P.	.....	35	46	66	82	88	83	79	70	85	82	76	72	55	40	.....	273.6	371.6	74	62
Eastport, Me	P.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	35
Galveston, Tex.	P.	.....	43	20	40	51	57	67	68	69	69	63	58	54	35	35	.....	203.2	373.3	54	54
Kansas City, Mo	P.	.....	33	60	60	74	77	77	81	77	77	75	68	66	51	35	.....	259.5	370.5	70	65
Key West, Fla	T.	.....	.....	79	71	74	78	85	88	85	80	78	84	86	90	83	.....	304.2	373.6	82	62
Little Rock, Ark	T.	.....	50	45	48	61	67	69	69	69	67	63	64	55	49	46	.....	225.0	372.2	60	45
Louisville, Ky	T.	.....	25	42	63	64	69	74	75	68	68	68	61	45	26	11	.....	222.5	371.7	60	47
Memphis, Tenn	P.	.....	40	48	53	59	67	69	67	64	65	55	59	65	61	46	.....	226.6	371.7	61	58
New Haven, Conn	T.	.....	50	27	42	63	70	75	78	80	72	70	65	50	33	17	.....	224.2	370.8	61	40
New Orleans, La	T.	.....	67	29	29	49	59	64	58	65	64	66	63	55	53	40	.....	204.0	372.8	55	54
New York, N. Y.	T.	.....	8	23	44	65	75	75	75	78	75	72	67	47	20	15	.....	221.0	371.0	60	46
Philadelphia, Pa	T.	.....	75	52	64	71	69	73	81	77	72	67	65	62	55	30	.....	250.0	370.5	68	47
Portland, Me	T.	.....	62	20	46	59	68	73	78	81	83	74	69	54	35	12	.....	228.5	369.8	62	45
Portland, Oreg	P.	.....	27	24	24	21	23	25	21	22	26	28	27	24	22	33	.....	89.2	371.0	24	25
Rochester, N. Y	T.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	41
Saint Louis, Mo	T.	.....	.....	45	43	69	82	87	86	83	86	87	86	77	63	41	.....	276.1	371.6	75	64
Salt Lake City, Utah	T.	.....	50	30	33	42	57	69	80	78	68	65	57	39	22	20	.....	197.9	370.7	53	40
San Diego, Cal	P.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	62
San Francisco, Cal	P.	.....	0	24	34	47	60	70	63	75	79	67	62	64	39	49	.....	212.4	370.5	57	53
Santa Fe, N. Mex	P.	.....	30	67	79	85	86	82	81	75	78	80	83	77	56	41	.....	286.6	371.7	77	63
Savannah, Ga	P.	.....	67	61	62	68	76	77	74	67	76	74	75	69	52	54	.....	258.1	372.5	69	60
Tucson, Ariz	P.	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	59
Vicksburg, Miss	T.	.....	67	42	39	58	76	90	82	81	74	77	69	58	47	39	.....	246.0	373.4	66	65
Washington, D. C	P.	.....	33	48	58	65	67	61	69	70	72	67	65	52	58	57	.....	232.9	370.5	63	60
Wilmington, N. C	T.	.....	42	43	43	52	64	74	77	76	74	69	68	59	47	39	.....	230.8	371.5	62	64

TABLE V.—*Mean temperature for each hour of seventy-fifth meridian time, March*, 1894.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex	53.2	52.4	51.7	50.8	49.6	48.9	48.0	48.1	49.6	52.6	55.9	58.9	61.8	63.6	66.0	67.5	68.3	68.0	66.0	63.2	60.0	57.5	55.7	54.5	57.1
Albany, N. Y	36.5	35.9	35.8	35.3	35.4	35.2	35.2	36.3	37.5	39.3	41.1	42.9	43.8	44.7	44.7	44.4	43.6	42.4	41.3	40.3	39.4	38.7	38.3	37.5	39.4
Alpena, Mich	32.8	32.2	31.6	31.0	30.7	30.3	30.5	31.2	32.6	33.8	35.1	36.3	37.7	38.5	38.2	38.5	37.9	36.7	35.7	34.7	34.4	34.2	33.5	33.3	34.2
Amarillo, Tex	43.5	42.2	40.9	39.9	38.6	37.5	36.5	35.6	35.8	39.7	44.0	47.7	50.8	53.1	54.6	56.0	57.1	57.1	56.5	54.4	50.8	48.1	46.4	45.1	40.3
Atlanta, Ga	53.5	52.7	51.6	50.9	50.1	49.7	49.6	49.8	51.4	54.7	57.4	60.2	61.4	62.8	64.0	64.8	64.7	63.6	61.6	59.8	58.1	57.2	56.2	55.0	56.7
Augusta, Ga	56.7	55.7	55.2	54.3	53.6	52.9	52.2	52.9	55.0	58.6	61.7	64.3	66.1	67.3	68.4	69.3	69.3	68.4	66.8	63.4	62.5	61.0	59.6	58.2	60.6
Baker City, Oreg	33.5	32.7	31.7	31.2	30.5	30.2	30.2	29.8	29.7	30.1	31.7	33.6	36.4	37.5	38.9	39.6	40.1	40.2	39.6	39.0	37.7	36.7	36.0	34.6	34.6
Baltimore, Md	44.7	43.8	43.1	42.3	41.7	41.2	41.2	43.1	45.2	47.8	50.0	51.4	52.6	54.4	55.0	54.7	53.5	52.5	51.1	50.0	49.0	48.1	47.2	46.2	47.9
Bismarck, N. Dak.*	24.2	23.9	23.4	22.7	21.9	21.2	20.8	19.9	20.2	21.7	24.1	26.7	28.3	30.2	31.5	32.0	31.7	31.9	30.8	28.9	26.7	25.5	24.6	23.9	25.7
Boston, Mass	39.1	38.8	38.0	38.1	38.1	37.9	38.0	39.2	41.1	42.8	44.7	46.0	47.3	47.5	47.3	46.6	44.8	44.1	43.0	41.9	41.1	40.4	39.9	39.6	41.9
Buffalo, N. Y	37.7	37.3	36.9	36.6	36.3	36.4	36.1	36.9	37.8	38.5	39.5	41.0	41.8	42.0	42.0	41.9	41.8	41.5	40.6	39.8	39.1	38.8	38.0	38.1	39.0
Charleston, S. C	57.2	56.8	56.5	56.0	55.6	54.9	56.3	59.0	61.8	64.3	66.2	66.4	67.4	67.0	66.3	64.7	62.5	60.2	58.9	58.4	58.4	58.0	57.8	57.5	60.2
Charlotte, N. C	52.5	51.5	50.6	49.6	48.8	48.2	47.8	49.0	50.8	53.8	56.5	58.7	60.0	62.2	63.3	63.9	64.0	62.9	61.0	59.4	57.8	56.8	55.5	53.8	55.8
Cheyenne, Wyo	30.3	29.5	28.6	27.8	27.8	27.5	27.2	26.7	28.1	31.4	34.6	37.0	38.5	39.7	41.1	41.6	41.5	40.6	39.2	37.2	34.6	33.4	32.2	31.3	33.6
Chicago, Ill	39.9	39.4	38.9	38.1	37.5	37.1	36.8	37.4	38.4	39.6	41.1	42.5	43.5	44.4	45.1	45.7	45.9	45.7	44.9	43.9	43.2	42.1	41.5	40.8	41.4
Cincinnati, Ohio	46.6	45.6	44.9	44.3	43.4	42.6	42.0	42.6	44.0	46.1	48.4	50.7	52.3	53.5	54.6	55.4	55.2	54.7	53.6	52.2	50.8	49.8	48.8	47.8	48.7
Cleveland, Ohio	40.3	40.0	39.6	39.0	38.7	38.3	37.4	38.2	39.2	41.5	43.4	44.8	45.9	46.9	47.0	47.2	47.3	46.6	44.8	43.9	43.5	42.7	41.5	41.0	42.4
Colorado Sp'ngs, Colo.	33.3	33.5	32.8	31.9	31.5	29.9	29.1	28.7	29.0	32.4	36.9	40.2	42.9	44.9	46.1	46.8	47.0	47.0	45.9	43.6	40.8	38.8	36.3	34.8	37.7
Columbus, Ohio	42.9	42.2	41.5	41.1	40.3	39.6	39.4	40.1	42.0	43.9	46.3	48.1	50.3	51.5	52.8	53.3	53.1	52.2	50.4	49.0	47.3	46.5	45.3	44.3	46.0
Denver, Colo	38.2	37.3	36.5	35.7	34.5	33.6	32.8	31.9	32.0	34.3	38.1	41.9	44.9	47.0	48.2	49.7	50.2	50.5	49.7	47.8	45.3	43.0	40.8	39.1	41.0
Des Moines, Iowa	40.0	39.5	38.7	37.8	37.3	36.6	35.7	34.9	35.8	38.2	40.6	43.5	46.1	47.9	49.0	49.8	49.8	49.3	48.3	46.1	44.9	43.7	42.3	41.3	42.4
Detroit, Mich	38.8	37.9	37.5	37.1	36.5	36.0	35.7	36.5	37.4	39.0	40.5	42.1	43.4	44.6	45.1	45.7	45.2	44.6	43.4	42.2	41.3	40.6	39.9	39.3	40.4
Dodge City, Kans	40.7	39.3	38.4	37.3	36.1	35.0	34.1	33.7	36.0	40.8	45.3	49.2	52.5	54.7	56.8	58.4	58.6	58.4	56.2	50.8	47.1	44.9	43.4	42.3	45.4
Duluth, Minn	28.6	27.7	26.9	26.5	26.0	25.7	25.3	25.3	25.4	26.5	28.1	29.4	30.2	31.1	31.7	32.4	32.4	32.2	31.9	31.5	31.0	30.5	29.6	28.9	29.0
Eastport, Me	31.6	31.5	31.3	30.8	30.8	30.5	31.2	31.8	32.9	34.1	34.7	35.4	35.9	36.3	36.2	36.0	35.8	35.5	34.8	34.2	33.5	32.9	32.5	32.2	33.4
El Paso, Tex	50.7	49.1	47.5	46.0	44.9	43.6	43.2	42.8	43.1	46.5	50.5	54.1	57.3	60.2	62.8	63.8	64.9	65.0	64.8	63.0	59.3	56.6	54.5	52.8	53.6
Fort Smith, Ark	52.2	51.5	50.6	49.8	49.0	48.4	48.0	48.1	49.7	52.3	55.0	57.4	59.4	61.1	62.2	63.3	64.0	63.6	61.9	60.1	58.4	57.0	55.3	54.0	55.5
Galveston, Tex	61.4	61.4	60.9	60.8	60.6	60.5	60.3	60.5	61.0	62.0	62.9	63.8	64.5	64.9	65.2	64.9	64.6	64.1	63.9	63.3	63.0	62.3	62.0	61.9	62.5
Grand Haven, Mich	36.9	35.5	36.0	35.8	35.9	36.0	35.7	35.8	37.1	38.4	39.2	39.6	40.0	40.4	40.3	41.1	41.1	40.4	39.7	39.3	38.8	38.9	38.1	37.5	38.3
Havre, Mont	25.0	24.5	23.6	22.9	22.5	22.0	21.2	21.0	20.8	22.7	26.0	28.4	30.4	32.2	34.3	35.3	35.9	36.1	35.5	33.1	30.5	28.3	27.1	25.8	27.7
Helena, Mont	29.3	29.0	28.1	27.9	27.3	27.2	26.7	25.8	25.5	26.5	28.1	29.4	30.3	32.0	34.3	34.5	34.9	35.4	34.9	33.6	32.0	31.0	30.2	29.9	30.2
Huron, S. Dak	29.0	28.2	27.2	26.8	26.0	25.9	25.3	25.5	27.2	30.0	33.0	35.7	38.3	40.1	41.4	41.9	41.9	41.1	39.2	36.7	34.1	32.3	30.5	30.2	32.8
Indianapolis, Ind	45.1	44.5	43.6	42.9	42.4	42.0	41.3	41.6	43.5	45.7	48.0	49.6	51.5	52.6	53.5	54.1	53.8	53.1	51.6	50.1	48.9	48.0	47.1	46.3	47.5
Jacksonville, Fla	61.2	60.4	59.8	59.3	58.8	58.5	58.4	59.9	62.2	65.2	67.6	69.3	71.0	71.7	72.3	71.5	70.8	69.0	66.8	65.0	63.9	63.2	62.6	61.9	64.6
Kansas City, Mo	44.9	44.3	43.6	42.6	41.6	40.7	40.2	39.7	40.8	42.9	45.6	48.3	50.4	52.5	53.6	54.4	54.9	54.5	53.4	51.9	50.1	48.9	47.3	46.3	47.2
Key West, Fla	71.6	71.5	71.4	71.3	71.3	71.0	71.3	72.7	74.1	75.1	76.1	76.5	76.6	76.7	76.4	76.0	75.5	74.5	73.2	72.5	72.3	72.0	71.8	71.7	73.5
Knoxville, Tenn	50.2	49.3	48.3	47.5	46.6	45.8	45.2	45.8	48.1	51.5	54.0	56.3	58.1	60.0	61.3	62.2	62.3	61.5	59.8	58.2	56.0	53.8	53.1	51.7	53.6
Lander, Wyo	29.0	28.7	27.6	27.0	26.2	25.8	25.1	24.0	24.9	27.6	31.2	34.5	36.7	38.8	40.2	40.7	41.0	40.9	39.2	36.6	33.7	32.2	30.8	30.0	32.2
Little Rock, Ark	54.0	53.2	52.3	51.1	50.3	49.7	48.8	48.6	49.9	52.3	54.9	57.1	58.7	60.5	60.6	61.4	61.2	61.0	60.2	58.7	57.9	56.8	55.8	54.9	55.4
Louisville, Ky	48.3	47.5	46.8	46.1	45.3	44.5	44.1	44.9	47.0	49.7	52.1	54.7	56.9	58.3	59.1	59.3	58.9	57.7	56.2	54.3	53.1	51.8	50.9	49.7	51.6
Lynchburg, Va	46.2	45.4	44.5	43.7	43.1	42.5	42.5	44.6	48.1	51.4	54.2	56.3	58.6	59.9	60.9	61.3	61.1	60.1	57.4	54.5	52.3	50.7	49.4	48.2	51.5
Marquette, Mich	29.6	30.0	29.5	29.3	29.0	28.5	28.4	28.7	29.4	30.5	31.2	32.5	33.2	34.2	34.6	33.9	33.0	32.5	31.6	31.0	30.6	30.3	30.0	29.6	30.9
Memphis, Tenn	53.5	52.6	51.9	51.6	50.9	50.2	49.9	50.0	50.9	53.0	55.4	57.7	59.0	60.1	61.1	61.6	61.7	61.5	60.0	58.4	57.3	56.3	55.8	54.7	55.6
Milwaukee, Wis	37.2	36.8	36.5	36.0	36.0	35.8	35.6	35.2	36.5	37.3	39.2	40.9	41.4	42.9	43.3	43.5	43.1	42.7	41.0	40.1	39.5	38.8	38.0	37.8	39.0
Montgomery, Ala	56.9	56.1	55.0	54.5	53.8	52.9	52.6	53.6	55.3	58.0	60.8	63.5	65.9	67.5	68.6	69.1	68.8	68.2	65.8	64.3	62.7	61.5	59.8	58.4	60.6
Moorhead, Minn	24.8	24.3	23.4	22.8	22.4	21.9	21.6	21.7	23.2	24.9	26.9	29.0	30.8	32.2	33.2	33.5	33.3	32.9	31.8	30.1	28.6	27.5	26.0	25.0	27.2
Nantucket, Mass	37.5	37.3	37.4	37.5	37.3	37.4	38.2	39.1	40.1	40.4	41.6	42.3	41.8	42.1	41.8	41.2	40.2	39.4	39.4	39.4	39.1	38.7	38.2	38.0	39.4
Nashville, Tenn	50.7	50.0	49.1	48.5	47.6	46.9	46.5	46.9	48.7	51.3	54.4	56.2	58.4	60.1	61.3	60.9	61.2	60.7	59.3	57.6	56.5	55.4	53.7	52.4	53.9
New Haven, Conn	37.0	37.2	36.3	36.0	35.6	35.4	35.7	37.8	40.1	41.0	43.5	45.1	45.8	46.7	47.6	46.8	45.4	43.5	42.0	41.1	40.3	39.6	38.8	38.4	40.7
New Orleans, La	60.5	59.8	59.4	59.2	58.6	58.4	57.7	58.2	59.1	60.9	63.1	64.7	66.0	66.8	67.7	68.3	68.2	67.6	66.2	64.8	63.2	62.3	61.5	61.1	62.6
New York, N. Y	40.8	40.5	39.9	39.5	38.8	38.5	38.6	39.6	41.5	43.2	45.5	46.9	48.5	50.0	49.9	49.6	49.1	47.9	46.4	45.6	44.6	43.6	42.8	42.1	43.9
Norfolk, Va	48.3	48.0	47.9	47.5	47.3	47.4	47.7	48.7	50.8	53.2	54.7	56.2	57.8	58.6	58.1	57.5	56.5	54.9	53.1	51.9	50.8	50.5	50.0	49.3	51.9
North Platte, Nebr	34.3	33.4	32.5	31.3	30.5	29.6	28.7	28.1	29.7	33.3	37.7	41.8	45.6	47.6	49.1	50.3	51.4	51.6	49.4	45.0	41.5	38.8	36.9	35.7	38.9
Omaha, Nebr	40.5	39.2	38.0	36.7	35.8	35.1	34.5	34.2	34.9	37.0	39.3	41.7	44.3	46.2	47.8	48.8	49.3	49.5	48.8	47.6	46.2	44.9	43.8	41.7	41.9
Philadelphia, Pa	43.1	42.5	41.4	41.1	40.5	40.1	40.2	41.5	43.1	44.8	47.2	49.2	51.0	52.3	53.0	53.1	52.5	51.0	49.4	48.2	46.8	46.1	45.2	44.4	46.1
Pikes Peak, Colo	7.4	7.1	7.0	6.7	6.3	6.3	6.3	6.1	6.2	6.8	7.4	8.5	9.6	10.6	11.3	11.8	12.0	11.0	10.1	9.2	8.5	8.1	7.9	7.4	8.3
Pittsburg, Pa	44.9	44.0	43.2	42.7	42.3	41.8	41.6	42.3	44.0	46.0	48.4	50.2	52.0	53.1	53.7	54.3	53.9	52.8	51.8	50.4	49.0	47.9	47.1	46.2	47.6
Portland, Oreg	43.4	42.5	41.7	41.2	40.7	40.2	39.9	39.8	39.5	39.4	40.2	41.4	42.9	44.6	46.4	47.4	48.0	48.6	48.3	47.9	47.1	46.1	44.9	44.3	43.6
Rapid City, S. Dak	29.0	27.9	28.2	28.0	28.4	27.5	27.7	27.5	28.6	31.5	34.4	35.9	37.8	39.1	40.3	40.7	40.9	39.8	38.0	35.1	32.2	31.0	30.0	30.1	32.9
Red Bluff, Cal	50.4	49.2	48.3	47.7	46.9	46.6	46.0	45.3	44.7	44.8	46.9	50.0	52.2	54.5	55.8	57.1	58.3	58.5	58.7	58.3	56.9	55.1	53.3	52.0	51.5
Rochester, N. Y	36.5	35.8	35.6	35.5	35.5	35.5	36.1	37.6	39.0	40.8	42.3	43.6	44.7	45.4	45.5	45.4	44.4	42.5	41.2	40.3	39.2	38.6	38.1	37.8	39.9
Roseburg, Oreg	43.4	42.5	41.9	41.4	41.0	40.4	39.9	39.5	39.6	39.5	40.3	42.2	44.1	46.6	48.1	50.1	50.8	51.5	51.2	50.6	49.4	47.1	45.6	44.0	44.6
St. Louis, Mo	48.2	47.7	46.8	46.1	45.4	44.8	44.2	43.8	45.1	47.1	49.8	52.1	54.0	55.6	57.2	57.8	57.6	57.1	55.6	54.2	53.2	52.1	50.9	50.1	50.7
St. Paul, Minn	33.6	32.4	31.6	30.6	29.8	29.5	29.3	29.6	30.0	31.4	33.7	35.5	37.0	37.9	39.0	39.8	40.2	40.1	39.1	37.6	36.5	35.9	35.1	34.5	34.6
Salt Lake City, Utah	38.5	37.8	37.3	36.6	36.3	36.4	35.7	35.5	35.5	37.2	39.5	41.8	43.8	45.3	45.8	46.8	47.0	46.8	46.1	44.5	42.5	41.0	40.3	39.3	40.7
San Diego, Cal	49.7	49.4	49.0	48.9	48.4	48.1	47.7	47.5	47.4	49.0	51.7	53.5	55.3	56.4	57.3	57.7	57.9	57.1	55.9	55.0	53.5	52.5	51.5	50.9	52.1
San Francisco, Cal	48.9	48.5	48.3	48.0	47.6	47.2	46.9	46.7	46.5	46.7	47.7	49.0	50.6	52.3	53.3	53.9	54.0	54.0	53.2	52.3	51.3	50.3	49.7	49.2	49.8
Santa Fe, N. Mex	36.4	35.6	34.0	33.2	32.6	31.7	31.3	31.0	31.8	35.5	38.6	40.6	42.2	44.1	45.3	46.6	47.5	48.1	47.1	45.8	42.8	40.3	39.2	38.0	39.1
Sault Ste. Marie, Mich.	27.9	27.5	27.1	26.9	26.6	25.8	25.6	25.5	26.4	28.0	29.8	31.1	31.8	32.2	32.5	32.2	31.9	31.5	30.7	29.8	29.3	29.1	28.7	28.3	29.0
Savannah, Ga	58.8	58.0	57.5	57.1	56.7	56.0	55.5	57.2	60.3	64.1	67.3	69.3	70.4	70.6	70.3	69.9	68.3	65.7	62.8	61.3	60.5	60.1	59.9	59.4	62.4
Seattle, Wash	41.4	40.8	40.6	39.9	39.6	39.2	38.9	38.7	38.3	38.6	39.4	40.7	42.3	43.7	44.8	45.6	46.4	46.3	46.0	45.7	44.5	43.2	42.5	41.6	42.0
Shreveport, La	58.5	57.7	57.1	56.4	55.8	55.0	54.0	53.7	54.5	56.8	58.7	61.2	62.6	63.8	64.5	64.7	65.1	65.3	64.7	63.4	62.6	61.6	60.7	59.8	59.9
Spokane, Wash	36.4	35.7	34.9	34.2	33.6	33.5	33.0	32.8	32.5	33.8	34.9	37.2	39.3	41.2	42.3	43.2	43.8	43.8	43.5	42.4	40.6	39.5	38.5	37.6	37.8
Titusville, Fla	64.5	64.0	63.3	62.5	61.9	61.4	61.5	63.8	67.8	70.1	71.8	72.7	73.7	74.1	74.3	73.5	72.5	70.9	69.6	68.6	68.2	67.4	66.4	65.8	67.9
Toledo, Ohio	40.8	40.0	39.4	38.4	37.8	37.1	37.0	37.8	39.3	41.2	43.9	45.7	46.8	47.9	48.5	48.4	48.3	47.0	45.4	44.1	43.3	42.6	42.2	41.7	42.7
Tucson, Ariz	52.1	50.3	48.7	47.6	46.3	45.1	44.5	43.4	43.7	47.9	54.5	58.7	61.8	64.1	66.0	67.1	67.8	67.8	67.3	64.6	62.2	59.8	57.3	54.8	56.0
Vicksburg, Miss	57.5	57.0	55.8	54.7	54.4	54.1	53.8	53.9	55.2	58.0	60.6	63.8	65.4	66.7	68.2	69.3	69.3	68.3	66.7	64.7	63.1	61.6	60.5	59.1	60.9
Washington, D. C	44.1	43.5	43.0	42.1	41.4	41.0	40.8	42.7	45.6	48.1	50.6	52.5	54.5	55.6	56.1	56.3	55.2	54.2	52.3	50.4	49.0	47.9	46.8	46.0	48.3
Wilmington, N. C	54.7	54.6	54.2	53.9	53.4	53.1	53.4	54.6	57.1	59.4	61.9	63.5	64.6	65.2	65.2	64.6	63.8	61.9	59.3	57.5	56.9	56.6	55.9	55.4	58.4
Winnemucca, Nev	37.9	36.6	35.7	34.8	34.1	33.3	32.5	32.6	32.0	32.9	35.8	38.5	41.4	43.8	44.8	45.9	46.9	47.7	48.1	47.3	45.4	43.2	41.2	39.2	39.6
Yuma, Ariz	59.4	58.1	56.4	54.8	53.6	52.5	51.7	50.4	50.3	53.4	59.8	65.4	69.1	71.8	73.4	75.1	76.1	76.3	75.7	74.4	70.6	67.0	63.8	61.5	63.4

* 8 days missing.

TABLE VI.—*Mean pressure for each hour of seventy-fifth meridian time, March,* 1894.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex	28.209	.214	.213	.211	.206	.209	.222	.233	.242	.248	.251	.250	.235	.214	.184	.158	.140	.129	.132	.141	.157	.175	.191	.200	.198
Albany, N. Y	29.998	.995	.989	.990	.994	.001	.011	.018	.024	.020	.010	.999	.981	.965	.956	.951	.953	.960	.968	.975	.979	.982	.982	.981	.987
Alpena, Mich	29.311	.310	.301	.293	.297	.299	.309	.314	.310	.308	.305	.297	.286	.277	.270	.265	.267	.269	.275	.282	.298	.300	.302	.299	.294
Atlanta, Ga	28.959	.959	.953	.952	.959	.968	.982	.996	.006	.013	.011	.005	.986	.968	.948	.935	.933	.937	.944	.952	.959	.961	.963	.962	.967
Augusta, Ga	29.973	.971	.963	.957	.959	.970	.983	.995	.002	.005	.005	.998	.979	.958	.938	.929	.920	.922	.931	.941	.955	.966	.972	.974	.965
Baltimore, Md	29.925	.920	.915	.917	.924	.934	.945	.951	.949	.946	.935	.921	.895	.874	.866	.859	.865	.870	.881	.893	.898	.903	.907	.914	.909
Bismarck, N. Dak	28.119	.113	.113	.107	.100	.099	.100	.107	.112	.117	.115	.109	.105	.101	.095	.092	.095	.103	.110	.119	.126	.132	.135	.134	.111
Boston, Mass	29.936	.929	.925	.924	.931	.937	.945	.949	.947	.943	.931	.922	.901	.893	.885	.884	.891	.898	.908	.915	.921	.921	.923	.920	.920
Buffalo, N. Y	29.290	.287	.280	.279	.184	.290	.300	.305	.311	.310	.306	.297	.282	.270	.264	.258	.259	.263	.272	.280	.282	.282	.281	.276	.284
Chicago, Ill	29.111	.109	.103	.100	.098	.106	.117	.125	.127	.132	.130	.121	.114	.098	.082	.075	.073	.074	.081	.087	.094	.101	.110	.111	.103
Cincinnati, Ohio	29.412	.410	.405	.402	.405	.415	.430	.447	.452	.455	.450	.443	.426	.406	.392	.384	.385	.389	.395	.403	.410	.410	.414	.412	.415
Cleveland, Ohio	29.251	.249	.244	.243	.248	.256	.265	.266	.266	.268	.267	.259	.248	.228	.223	.217	.217	.222	.231	.239	.244	.246	.245	.244	.245
Colorado Sp'gs, Colo	23.929	.929	.931	.927	.917	.915	.919	.926	.932	.933	.933	.925	.916	.908	.891	.880	.866	.866	.878	.897	.911	.922	.933	.937	.913
Columbus, Ohio	29.164	.162	.156	.151	.155	.162	.173	.185	.188	.191	.188	.185	.169	.151	.136	.128	.128	.134	.141	.152	.157	.159	.161	.158	.160
Denver, Colo	24.673	.666	.662	.660	.652	.648	.648	.652	.661	.668	.672	.674	.669	.660	.644	.631	.621	.616	.618	.628	.642	.659	.672	.677	.653
Des Moines, Iowa	29.045	.049	.053	.048	.049	.053	.061	.066	.071	.071	.067	.062	.047	.032	.017	.005	.001	.002	.008	.022	.030	.037	.046	.045	.041
Detroit, Mich	29.244	.245	.236	.232	.236	.239	.249	.254	.257	.261	.256	.249	.235	.221	.214	.212	.208	.212	.219	.228	.236	.238	.240	.238	.236
Dodge City, Kans	27.350	.351	.354	.348	.346	.346	.351	.360	.371	.383	.391	.391	.383	.369	.341	.327	.315	.309	.313	.325	.335	.346	.353	.354	.350
Duluth, Minn	29.178	.179	.178	.176	.174	.177	.181	.188	.194	.193	.187	.186	.184	.176	.170	.167	.171	.178	.186	.188	.188	.188	.188	.184	.182
Eastport, Me	29.910	.906	.907	.910	.918	.929	.939	.948	.952	.946	.935	.921	.906	.896	.884	.881	.882	.886	.898	.905	.908	.907	.900	.898	.911
El Paso, Tex	26.199	.203	.205	.201	.195	.193	.200	.211	.224	.234	.238	.240	.228	.212	.188	.162	.148	.135	.135	.142	.155	.173	.187	.196	.192
Galveston, Tex	30.064	.062	.054	.045	.039	.045	.059	.069	.083	.089	.095	.092	.078	.060	.040	.025	.015	.017	.022	.027	.039	.053	.057	.061	.054
Grand Haven, Mich	29.301	.303	.300	.295	.292	.293	.298	.306	.312	.309	.308	.302	.299	.290	.280	.272	.269	.270	.275	.280	.282	.286	.290	.293	.292
Havre, Mont	27.297	.292	.286	.284	.275	.271	.275	.277	.285	.297	.315	.321	.324	.318	.305	.294	.285	.276	.271	.269	.273	.284	.293	.300	.290
Helena, Mont	25.719	.719	.715	.716	.709	.704	.710	.716	.723	.727	.731	.731	.724	.716	.707	.694	.691	.691	.694	.696	.702	.714	.719	.720	.712
Huron, S. Dak	28.540	.541	.511	.532	.529	.528	.532	.530	.529	.524	.524	.519	.508	.499	.487	.486	.483	.487	.495	.511	.523	.529	.541	.545	.519
Indianapolis, Ind	29.235	.240	.237	.235	.238	.247	.261	.268	.278	.279	.277	.267	.256	.241	.228	.220	.213	.214	.218	.221	.227	.230	.232	.229	.241
Jacksonville, Fla	30.131	.126	.117	.115	.122	.130	.149	.159	.168	.172	.165	.153	.130	.107	.091	.084	.081	.085	.101	.115	.129	.137	.139	.138	.127
Kansas City, Mo	28.993	.991	.989	.986	.983	.987	.994	.000	.013	.019	.021	.018	.008	.992	.971	.959	.954	.955	.961	.970	.985	.994	.999	.997	.989
Key West, Fla	30.145	.132	.119	.113	.115	.125	.139	.158	.169	.175	.178	.169	.153	.135	.121	.108	.104	.109	.121	.134	.146	.157	.158	.155	.139
Knoxville, Tenn	29.095	.093	.090	.091	.098	.106	.118	.129	.139	.144	.143	.134	.122	.095	.076	.060	.051	.055	.065	.073	.083	.091	.093	.093	.097
Little Rock, Ark	29.756	.759	.759	.759	.754	.761	.771	.784	.797	.805	.810	.805	.789	.765	.739	.725	.720	.723	.726	.728	.742	.750	.754	.753	.760
Louisville, Ky	29.523	.522	.517	.515	.523	.532	.551	.566	.576	.579	.577	.565	.549	.530	.512	.503	.496	.496	.500	.505	.514	.519	.520	.521	.530
Lynchburg, Va	29.406	.406	.405	.405	.412	.424	.437	.442	.442	.437	.425	.412	.387	.366	.350	.341	.341	.345	.359	.373	.385	.391	.392	.392	.395
Marquette, Mich	29.111	.106	.098	.090	.092	.099	.103	.108	.109	.114	.117	.114	.104	.101	.095	.096	.097	.103	.112	.115	.118	.117	.118	.113	.106
Memphis, Tenn	29.755	.756	.753	.751	.757	.765	.784	.798	.810	.814	.817	.805	.789	.765	.745	.729	.720	.719	.726	.733	.745	.751	.748	.752	.762
Milwaukee, Wis	29.243	.246	.246	.247	.251	.258	.266	.267	.271	.268	.265	.263	.251	.237	.225	.219	.215	.218	.226	.229	.230	.230	.236	.235	.243
Moorhead, Minn	28.905	.905	.907	.904	.903	.907	.913	.912	.911	.909	.915	.915	.902	.890	.882	.875	.875	.879	.884	.894	.901	.901	.908	.914	.900
Nantucket, Mass	30.087	.084	.078	.075	.082	.089	.095	.094	.099	.094	.090	.081	.068	.054	.047	.045	.047	.050	.058	.062	.070	.072	.072	.074	.074
Nashville, Tenn	29.520	.520	.516	.517	.522	.537	.553	.564	.573	.577	.571	.564	.539	.512	.495	.480	.480	.479	.483	.493	.500	.507	.513	.514	.522
New Haven, Conn	29.973	.964	.960	.962	.968	.979	.987	.992	.993	.984	.972	.958	.936	.920	.911	.907	.915	.920	.932	.945	.954	.956	.956	.955	.954
New Orleans, La	30.068	.065	.062	.054	.052	.063	.076	.090	.105	.115	.118	.112	.098	.079	.060	.046	.038	.040	.045	.052	.061	.071	.075	.072	.072
New York, N. Y	29.924	.920	.912	.911	.915	.921	.930	.936	.937	.934	.924	.913	.894	.878	.866	.863	.863	.867	.878	.889	.896	.903	.907	.907	.904
Norfolk, Va	30.079	.073	.065	.065	.074	.086	.099	.107	.112	.109	.100	.086	.062	.041	.030	.023	.027	.031	.046	.059	.070	.075	.077	.074	.070
Omaha, Neb	28.798	.800	.806	.805	.806	.806	.812	.814	.818	.813	.811	.805	.794	.775	.758	.751	.746	.749	.758	.762	.775	.782	.791	.798	.789
Philadelphia, Pa	30.001	.000	.994	.994	.001	.009	.020	.026	.027	.025	.015	.998	.975	.960	.948	.941	.942	.948	.960	.969	.977	.981	.985	.985	.987
Pikes Peak, Colo	17.546	.541	.532	.520	.507	.502	.503	.510	.522	.533	.542	.555	.565	.567	.566	.567	.572	.573	.571	.571	.570	.567	.564	.561	.547
Pittsburg, Pa	29.210	.207	.205	.202	.203	.208	.214	.220	.222	.221	.215	.207	.190	.171	.143	.157	.160	.170	.178	.190	.197	.198	.201	.201	.196
Portland, Oreg	29.869	.871	.869	.866	.866	.856	.849	.848	.847	.846	.850	.853	.855	.851	.844	.835	.826	.826	.825	.824	.831	.839	.849	.861	.848
Rochester, N. Y	29.505	.505	.498	.497	.499	.503	.510	.516	.522	.521	.520	.515	.505	.490	.480	.474	.473	.476	.479	.488	.497	.499	.496	.491	.498
Roseburg, Oreg	29.480	.483	.484	.479	.480	.475	.468	.465	.466	.467	.470	.474	.477	.471	.466	.453	.444	.436	.434	.433	.439	.447	.458	.467	.463
St. Louis, Mo	29.441	.439	.439	.434	.431	.436	.445	.455	.463	.466	.464	.462	.449	.427	.409	.396	.386	.387	.395	.405	.416	.425	.434	.436	.431
St. Paul, Minn	29.004	.005	.008	.008	.006	.010	.018	.027	.034	.034	.033	.034	.025	.011	.997	.988	.981	.981	.986	.994	.998	.002	.008	.009	.001
Salt Lake City, Utah	25.633	.633	.634	.636	.627	.622	.626	.632	.638	.645	.652	.655	.654	.647	.634	.620	.612	.605	.602	.603	.611	.620	.627	.633	.629
San Diego, Cal	29.983	.980	.980	.974	.963	.953	.953	.958	.964	.972	.982	.989	.994	.991	.980	.966	.955	.951	.949	.953	.959	.968	.977	.983	.970
San Francisco, Cal	29.975	.981	.983	.984	.978	.972	.966	.969	.975	.980	.989	.998	.002	.999	.991	.977	.964	.956	.949	.946	.948	.953	.962	.971	.974
Santa Fe, N. Mex	23.200	.202	.203	.200	.191	.186	.187	.192	.198	.205	.211	.216	.214	.206	.190	.176	.164	.159	.160	.167	.172	.185	.194	.199	.191
S'lt Ste. Marie, Mich	29.230	.232	.222	.222	.222	.228	.239	.242	.243	.242	.235	.231	.221	.212	.205	.205	.202	.201	.204	.213	.218	.220	.219	.219	.221
Savannah, Ga	30.065	.061	.055	.054	.061	.075	.089	.102	.109	.111	.104	.092	.071	.048	.032	.024	.023	.031	.039	.053	.065	.068	.067	.067	.065
Seattle, Wash	29.833	.835	.834	.831	.830	.824	.817	.817	.814	.813	.812	.817	.815	.813	.811	.802	.792	.788	.790	.797	.806	.815	.824	.830	.815
Spokane, Wash	27.909	.911	.909	.912	.916	.913	.914	.917	.921	.926	.930	.930	.923	.919	.912	.905	.896	.889	.885	.884	.885	.890	.895	.905	.908
Toledo, Ohio	29.301	.298	.292	.293	.293	.298	.306	.311	.321	.321	.315	.309	.296	.280	.275	.272	.269	.275	.282	.292	.295	.297	.296	.294	.295
Vicksburg, Miss	29.844	.842	.842	.839	.834	.839	.847	.857	.871	.883	.884	.885	.873	.853	.830	.808	.798	.796	.801	.804	.813	.827	.838	.844	.840
Washington, D. C	30.021	.018	.010	.009	.015	.023	.032	.041	.043	.041	.035	.020	.996	.970	.962	.954	.957	.955	.980	.993	.000	.005	.008	.007	.004
Wilmington, N. C	30.068	.062	.053	.058	.063	.074	.092	.102	.107	.107	.098	.083	.058	.047	.034	.031	.042	.048	.056	.067	.075	.078	.075	.072	.069
Yuma, Ariz	29.824	.822	.821	.820	.814	.810	.814	.818	.831	.842	.856	.862	.859	.850	.830	.807	.786	.771	.761	.765	.771	.787	.808	.819	.814

TABLE VII.—*Average wind movement for each hour of seventy-fifth meridian time, March, 1894.*

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Abilene, Tex	10.6	11.7	12.7	11.9	11.8	12.1	11.7	11.0	10.1	12.0	14.9	14.9	15.5	14.8	14.8	14.6	14.5	13.8	13.3	11.9	10.6	10.7	10.7	10.8	12.6
Albany, N. Y	7.5	7.6	7.7	7.3	7.5	7.5	7.8	8.3	9.3	10.1	10.4	10.9	11.9	11.5	11.6	11.4	10.4	10.0	9.2	7.7	7.8	8.2	8.5	8.1	9.1
Alpena, Mich	10.0	10.1	10.2	10.4	11.0	11.3	11.2	11.4	12.7	13.0	14.6	15.3	15.0	15.6	15.4	14.6	14.1	13.3	12.2	11.2	10.8	10.5	10.4	10.3	12.3
Amarillo, Tex	18.5	18.5	17.6	17.3	17.4	16.1	15.7	15.9	16.4	18.1	21.7	22.2	21.7	22.1	22.3	22.0	21.6	22.5	22.3	20.0	17.6	18.5	19.3	18.9	19.3
Atlanta, Ga	9.8	10.4	9.8	9.5	9.3	9.2	8.9	8.7	8.6	9.4	10.4	11.1	11.9	11.7	11.3	11.3	11.7	11.7	9.4	9.6	10.0	10.0	10.0	10.5	10.2
Atlantic City, N. J	10.5	10.2	10.1	10.4	10.3	9.2	9.1	9.4	10.6	11.6	12.6	13.1	13.0	13.9	14.2	13.8	14.5	12.9	12.5	11.7	11.7	11.2	10.8	10.4	11.6
Augusta, Ga	4.4	4.2	3.8	3.6	3.8	4.0	3.7	4.0	5.3	6.2	6.8	7.8	9.8	10.1	10.0	9.6	9.4	7.9	6.7	5.5	4.6	4.3	4.2	4.5	6.0
Baker City, Oreg	6.1	6.5	6.8	6.7	6.9	6.4	6.9	7.3	6.4	6.4	6.5	6.6	6.3	6.4	6.8	6.9	7.8	7.7	8.0	8.2	6.4	5.8	6.1	5.8	6.7
Baltimore, Md	6.4	6.1	5.7	5.3	5.0	5.1	4.9	6.4	7.8	9.3	10.1	10.7	11.1	11.2	11.4	11.0	10.8	9.4	7.6	6.5	7.0	6.7	6.9	7.0	7.9
Bismarck, N. Dak	12.1	11.5	12.7	12.0	11.2	10.8	11.0	11.9	11.1	10.9	11.6	13.5	13.6	15.9	16.8	17.1	17.0	16.6	15.6	14.4	12.9	11.2	11.0	11.0	13.1
Block Island, R. I	13.3	13.6	13.7	13.2	13.4	13.5	13.3	13.0	14.0	14.1	14.4	15.1	15.6	15.0	16.2	15.1	15.0	15.0	14.6	15.0	13.9	13.3	13.6	13.6	14.2
Boston, Mass	11.1	10.9	10.7	10.2	9.8	10.1	10.2	11.0	11.6	12.0	12.5	13.4	14.2	14.5	14.5	14.8	14.5	12.6	12.4	11.7	12.3	11.5	11.1	11.5	12.0
Buffalo, N. Y	11.8	11.1	11.6	12.3	12.7	12.5	12.8	12.8	13.8	14.6	15.0	14.6	14.9	14.7	14.7	14.3	13.7	13.2	13.1	12.1	11.2	11.6	11.4	11.8	13.0
Cairo, Ill	10.5	10.8	10.5	10.4	9.8	10.0	9.8	10.1	10.4	10.6	11.9	12.0	12.9	13.3	13.8	13.5	13.2	12.6	11.5	10.3	10.1	9.9	9.8	9.9	11.1
Cape Henry, Va	11.3	11.9	10.9	10.7	10.3	10.8	11.2	10.8	11.8	12.4	13.0	12.8	12.0	12.7	12.2	11.8	11.8	10.9	9.4	10.0	11.4	12.9	12.5	12.7	11.6
Charleston, S. C	6.5	7.2	6.7	6.5	6.3	6.1	6.0	5.9	7.0	7.5	8.3	8.9	10.3	10.8	11.4	11.3	11.2	10.1	8.3	7.7	6.8	6.3	6.8	6.9	7.9
Charlotte, N. C	7.4	6.7	6.6	6.7	6.3	6.3	6.2	6.5	7.6	8.3	9.3	10.0	10.1	10.7	11.1	10.6	10.0	9.2	7.4	7.1	7.5	8.0	8.0	8.1	8.1
Chattanooga, Tenn	6.2	6.7	6.6	6.3	6.6	6.1	5.6	5.6	6.5	6.8	8.2	8.9	9.3	10.2	10.5	11.1	11.1	11.1	9.3	8.6	8.2	7.0	6.7	6.4	7.9
Cheyenne, Wyo	11.0	11.1	11.9	12.3	11.3	11.6	12.4	12.8	14.0	13.6	15.9	18.4	20.1	20.0	21.3	20.9	20.8	20.9	21.0	17.5	13.6	12.6	11.6	11.7	15.3
Chicago, Ill	21.2	21.0	21.5	21.6	21.0	20.3	19.7	20.3	21.2	21.0	21.8	22.6	24.0	23.6	24.4	24.7	25.7	24.5	22.2	21.7	21.8	22.1	21.9	22.0	22.2
Cincinnati, Ohio	6.1	6.0	6.3	6.5	6.9	6.5	6.1	7.1	8.3	8.8	9.5	9.7	10.9	11.1	11.7	10.5	11.2	10.5	9.0	7.7	7.4	7.0	7.0	6.4	8.3
Cleveland, Ohio	13.3	13.1	12.6	14.4	15.1	13.8	13.6	14.7	15.7	16.6	17.6	17.8	18.4	17.5	17.9	16.8	16.2	14.7	13.3	12.4	12.6	13.6	13.7	14.1	15.0
Colorado Spr'gs, Colo.	9.6	9.6	10.5	10.7	10.5	9.7	9.3	8.5	9.3	10.1	10.1	12.1	14.5	15.0	17.3	16.9	16.6	17.6	17.2	14.5	11.7	10.8	10.4	9.8	12.2
Columbia, Mo	9.3	8.9	8.2	7.9	8.1	7.6	7.3	8.3	9.8	11.3	12.6	13.2	12.8	13.1	13.2	13.1	12.7	11.4	9.9	8.5	8.4	8.6	9.3	9.6	10.1
Columbus, Ohio	9.4	10.0	9.8	10.2	10.1	10.0	10.2	10.5	11.2	12.5	12.7	13.2	14.2	15.3	15.2	15.5	14.8	13.4	10.9	10.8	10.7	10.2	10.8	10.3	11.7
Concordia, Kans	9.4	10.0	8.9	9.2	10.0	10.0	9.8	9.8	10.3	12.2	13.1	14.0	14.3	14.6	14.9	14.4	14.0	13.3	11.6	10.1	8.7	8.5	9.1	8.9	11.2
Corpus Christi, Tex	12.8	12.6	12.6	12.4	12.1	12.3	12.1	12.4	13.2	14.0	14.0	14.0	14.1	14.9	16.0	17.6	17.6	17.6	17.4	16.9	16.4	15.6	14.8	13.6	14.5
Davenport, Iowa	11.1	10.5	10.2	10.1	9.2	9.6	9.8	10.1	10.5	12.3	13.2	14.8	14.9	15.5	16.2	16.2	15.6	15.4	14.1	12.3	13.2	12.5	11.6	11.8	12.5
Denver, Colo	8.3	7.2	6.7	7.8	7.5	7.2	7.6	7.9	7.7	7.5	7.3	7.8	8.8	10.6	11.0	10.2	11.1	11.4	11.2	10.4	9.9	9.1	8.0	7.2	8.7
Des Moines, Iowa	9.4	8.4	8.2	7.5	8.1	8.0	8.2	7.8	9.6	11.3	13.3	13.5	14.4	14.4	15.1	15.6	16.1	15.5	13.3	10.8	9.2	9.0	9.2	9.1	11.0
Detroit, Mich	12.1	12.1	12.8	12.5	12.4	12.7	12.0	12.8	13.7	14.3	14.8	15.7	15.9	17.1	16.9	16.4	15.6	14.2	12.3	12.4	12.3	12.6	12.9	12.2	13.7
Dodge City, Kans	11.7	11.8	11.9	11.3	11.0	10.8	10.5	10.7	11.3	14.6	18.2	18.5	18.4	18.4	18.5	18.3	17.7	18.2	17.7	15.5	12.6	12.4	11.6	11.7	14.3
Dubuque, Iowa	6.3	6.1	6.1	5.7	6.0	5.4	5.2	5.4	6.4	7.3	8.3	8.7	9.4	10.3	9.9	9.9	10.2	10.0	8.1	6.9	6.4	6.1	6.6	6.6	7.4
Duluth, Minn	6.7	7.0	6.6	6.8	6.5	6.2	6.4	7.3	8.0	7.5	7.7	8.0	9.0	9.5	9.3	9.2	9.1	8.1	7.4	6.8	7.0	7.5	7.4	6.8	7.6
Eastport, Me	8.9	8.8	8.8	9.2	9.2	9.8	9.9	11.1	12.2	12.6	13.4	14.0	13.7	13.4	13.3	12.4	11.5	11.0	10.4	10.9	10.4	10.3	9.4	9.3	11.0
El Paso, Tex	11.8	11.4	11.1	10.7	10.5	10.7	10.0	9.9	10.2	9.9	10.5	11.4	13.1	14.5	14.8	15.4	15.6	17.1	17.1	15.1	12.1	11.6	11.7	11.9	12.4
Erie, Pa	12.0	12.5	12.6	12.0	12.0	12.8	12.7	13.3	13.8	13.7	14.4	14.5	14.7	15.0	14.8	13.7	12.9	11.5	10.9	10.3	10.2	10.4	10.7	11.9	12.6
Eureka, Cal	6.4	6.3	5.7	6.2	6.2	6.5	5.9	5.8	6.2	5.0	5.2	5.5	6.2	7.7	9.2	10.0	10.7	10.8	9.9	9.7	8.9	7.8	8.3	6.9	7.4
Fort Canby, Wash	17.0	16.2	15.4	15.7	16.0	18.4	17.6	17.1	17.8	16.9	15.8	16.0	16.5	16.6	16.9	17.8	16.0	17.0	16.3	15.7	15.2	15.2	15.4	16.6	16.5
Fort Smith, Ark	7.7	8.7	8.6	7.7	8.0	7.7	7.1	7.7	8.0	8.1	9.1	9.1	9.0	9.3	9.1	9.7	9.8	10.1	8.5	7.9	7.8	7.7	7.5	7.6	8.4
Fresno, Cal	7.1	7.1	7.0	6.8	6.7	6.6	6.6	6.3	5.6	5.5	5.2	6.1	6.8	7.5	7.2	7.0	7.7	8.9	8.8	9.2	8.5	7.6	7.8	7.6	7.1
Galveston, Tex	13.5	13.1	12.7	12.4	13.1	12.8	12.5	12.5	12.5	12.3	12.7	12.5	12.9	13.0	13.3	13.2	13.3	13.5	13.1	13.0	12.6	13.2	14.5	14.3	13.0
Grand Haven, Mich	13.1	13.0	13.4	13.7	13.7	13.3	12.8	13.3	13.6	14.8	15.6	15.7	15.8	15.4	15.2	14.4	13.9	13.0	12.4	11.5	12.3	13.1	13.8	13.3	13.8
Green Bay, Wis	9.9	10.3	10.3	10.3	10.5	10.3	10.5	10.3	11.3	11.2	11.5	11.6	11.5	12.9	12.8	12.4	12.8	12.5	11.3	10.1	9.5	9.5	9.7	9.6	10.9
Hannibal, Mo	11.3	11.3	10.4	10.1	9.5	10.1	10.1	10.9	12.0	13.4	14.7	15.8	16.8	16.5	16.6	16.1	15.9	14.1	12.4	10.3	11.3	12.1	11.8	11.3	12.7
Harrisburg, Pa	6.0	6.6	6.1	6.3	6.2	5.6	5.6	6.1	6.5	7.2	7.7	8.2	9.1	9.9	9.7	10.0	9.6	8.6	7.7	7.9	7.9	7.5	7.1	6.6	7.5
Hatteras, N. C	13.7	13.7	13.8	14.2	14.3	13.8	13.7	13.7	13.8	13.8	13.6	13.9	14.1	14.0	13.5	13.7	13.5	12.5	12.2	12.7	12.7	13.2	13.8	13.7	13.6
Havre, Mont	9.0	9.2	8.6	7.6	8.2	8.7	8.6	8.5	9.7	9.8	11.2	12.9	13.5	14.1	13.9	14.1	13.3	12.5	11.1	9.5	8.8	8.8	9.1	8.7	10.4
Helena, Mont	8.5	8.4	9.7	9.1	8.3	8.4	8.2	8.9	8.5	8.8	7.9	8.6	9.5	10.1	10.8	10.8	11.0	10.7	11.1	9.9	9.2	8.7	8.7	8.3	9.3
Huron, S. Dak	13.4	13.6	13.9	14.5	15.4	15.6	14.7	14.5	15.9	17.6	18.8	18.0	17.8	17.3	17.2	17.5	18.1	17.5	15.6	14.3	14.1	13.8	14.5	14.1	15.7
Idaho Falls, Idaho	13.2	11.5	11.5	11.5	11.3	11.2	10.0	9.8	11.1	10.4	10.9	11.2	11.5	11.9	12.5	13.1	13.5	13.5	13.4	13.2	12.9	11.5	12.3	13.0	11.9
Indianapolis, Ind	7.5	7.5	7.0	7.2	6.7	7.0	6.5	6.9	7.9	8.6	9.6	9.1	9.9	9.7	10.0	10.7	10.4	9.7	8.1	7.1	7.3	7.1	7.1	7.0	8.2
Jacksonville, Fla	6.1	5.7	5.8	5.7	5.9	6.0	5.6	5.9	6.8	8.4	9.4	9.9	10.2	9.6	9.5	9.5	9.7	9.4	7.7	6.5	6.3	6.5	6.1	5.7	7.4
Jupiter, Fla	9.8	9.7	9.1	9.3	9.3	9.1	8.7	8.8	9.2	10.5	11.5	12.7	13.7	14.0	14.1	14.4	13.6	12.8	10.5	9.8	9.9	10.3	10.2	10.0	10.9
Kansas City, Mo	11.0	10.6	10.2	10.1	10.4	10.5	10.6	11.0	12.4	13.5	14.3	14.5	14.9	14.8	14.9	14.8	14.8	14.0	12.8	11.2	10.6	10.8	10.8	10.8	12.3
Kearney, Nebr*	13.0	13.2	13.9	14.1	14.2	14.7	14.9	15.2	15.0	15.9	17.0	17.1	16.6	17.9	17.7	17.6	16.9	15.1	12.9	12.0	11.7	12.1	12.5	12.7	14.7
Keeler, Cal	8.5	8.6	8.2	8.2	7.7	7.8	7.1	7.3	7.2	6.6	6.2	7.3	9.1	8.4	8.6	9.5	10.1	10.9	10.4	10.7	10.1	9.3	9.1	8.6	8.6
Keokuk, Iowa	9.5	9.3	9.4	8.9	8.4	8.2	8.0	9.0	9.9	11.1	11.5	12.0	13.1	13.6	13.6	13.5	13.0	12.5	10.8	10.7	10.2	10.4	9.9	10.3	10.7
Key West, Fla	9.3	9.3	9.8	9.1	9.2	9.1	8.9	9.1	10.2	11.1	11.8	11.9	12.2	12.6	12.6	12.0	12.2	11.7	10.6	10.5	10.4	10.3	9.9	9.7	10.6
Kittyhawk, N. C	13.5	13.0	12.7	13.0	12.8	12.6	13.0	13.2	14.3	14.0	13.4	13.4	12.8	14.2	14.2	14.9	15.0	14.7	13.1	13.1	14.7	15.0	14.5	15.1	13.8
Knoxville, Tenn	3.1	3.1	3.1	3.8	3.5	3.9	4.1	3.8	4.5	5.8	7.6	8.3	8.3	8.5	8.0	8.4	8.0	6.8	5.2	4.6	4.1	4.0	3.9	3.8	5.3
La Crosse, Wis	9.6	9.9	9.3	9.1	8.7	8.0	8.0	8.4	8.5	8.4	8.8	9.7	11.2	12.1	12.6	12.5	12.8	11.5	10.9	9.8	9.3	9.5	9.7	9.8	9.9
Lander, Wyo	5.4	5.9	5.5	5.5	6.7	6.4	7.2	6.3	5.7	5.5	6.0	6.5	6.9	7.6	7.8	8.0	7.5	7.4	7.6	7.0	5.8	5.9	5.1	5.0	6.4
Lexington, Ky	14.0	13.7	13.5	13.5	13.7	14.5	14.7	14.0	15.2	15.6	15.1	14.7	15.5	16.0	16.8	14.8	14.4	13.3	11.1	11.9	13.1	13.2	13.5	13.8	14.2
Little Rock, Ark	8.2	8.5	7.8	8.5	8.4	8.4	8.1	7.3	8.0	10.0	10.2	9.9	10.5	10.5	11.3	11.9	12.3	10.5	8.9	7.5	5.9	6.1	7.1	8.2	8.9
Los Angeles, Cal	3.0	3.1	3.7	3.7	2.8	2.7	2.9	2.5	3.0	3.3	3.7	4.5	4.6	4.6	5.0	5.6	6.4	7.0	6.8	6.4	5.7	4.2	3.3	2.9	4.2
Louisville, Ky	7.7	8.3	8.4	8.8	8.8	8.1	7.8	8.2	8.8	9.8	10.1	10.8	12.5	12.1	12.3	12.8	12.5	11.5	9.4	9.0	9.5	8.6	8.3	8.3	9.7
Lynchburg, Va	3.4	3.2	3.3	2.9	2.9	3.0	2.9	3.3	4.5	5.0	6.1	6.8	7.0	7.5	7.7	8.2	6.7	6.7	5.5	4.9	4.2	3.9	3.7	3.8	4.9
Marquette, Mich	12.4	12.9	12.8	12.5	12.3	11.5	11.6	12.5	12.2	12.4	12.5	12.7	13.5	12.9	12.8	12.3	11.8	11.8	10.9	10.4	10.4	10.6	11.7	11.9	12.1
Memphis, Tenn	9.0	9.5	9.3	8.2	8.7	8.8	8.5	8.2	9.6	9.7	9.2	9.7	10.6	10.4	10.1	9.8	9.5	9.3	9.0	7.9	7.8	7.5	8.5	8.9	9.1
Meridian, Miss	6.5	6.6	6.4	7.1	6.8	6.0	6.2	6.4	6.5	7.9	8.4	8.8	9.4	9.4	10.1	10.4	10.8	9.6	7.8	7.2	7.4	7.7	8.2	7.0	7.8
Miles City, Mont	5.1	5.2	5.5	5.5	5.1	5.4	5.5	5.7	5.7	6.6	7.4	7.4	8.2	9.9	9.3	10.5	10.8	10.4	9.1	8.5	7.4	7.2	6.2	5.9	7.2
Milwaukee, Wis	12.0	11.7	11.5	10.8	10.4	10.1	10.5	12.5	12.0	12.6	13.2	13.1	14.2	15.0	15.8	15.4	15.2	14.7	13.6	12.6	11.8	11.9	11.8	11.9	12.6
Mobile, Ala	8.0	7.9	7.8	8.0	8.3	8.6	8.2	8.5	9.0	10.7	10.9	11.3	11.0	11.6	11.9	11.7	11.9	11.8	10.3	9.7	9.1	9.1	8.5	8.1	9.7
Montgomery, Ala	5.9	5.3	4.9	5.1	5.0	5.3	5.5	5.8	6.1	7.1	7.7	7.1	7.8	7.9	8.1	8.0	8.5	8.3	6.6	5.7	6.4	6.6	6.2	6.0	6.5
Moorhead, Minn	11.3	12.0	12.1	11.7	11.7	11.6	11.3	11.8	12.6	13.9	14.6	14.8	14.5	14.3	14.9	15.0	15.0	14.4	13.1	12.3	12.3	11.7	11.7	11.2	12.9
Nantucket, Mass	11.2	10.2	11.5	11.6	11.4	12.0	11.9	12.2	12.9	13.3	13.2	12.9	13.8	13.0	13.1	12.2	11.8	11.4	10.7	9.7	10.8	10.7	10.6	11.1	11.8
Nashville, Tenn	6.0	5.6	6.1	6.3	6.2	5.8	6.5	6.4	7.2	7.8	9.0	9.1	9.4	9.5	9.6	9.4	8.6	8.5	7.2	6.5	6.2	6.1	6.3	6.1	7.3
New Haven, Conn	6.8	6.4	6.5	6.3	6.6	6.5	6.7	7.2	8.1	8.4	9.3	9.5	10.5	11.4	11.4	11.3	10.5	9.6	7.9	7.7	7.7	8.2	7.9	7.9	8.3
New London, Conn	6.3	5.7	5.5	5.5	5.8	5.2	5.4	6.7	7.6	9.0	9.0	9.6	10.1	10.6	10.3	10.2	8.8	7.5	6.6	7.5	6.7	7.6	6.9	6.9	7.5
New Orleans, La	9.4	9.2	9.0	9.3	9.0	8.0	8.8	8.6	9.6	10.5	11.6	12.4	12.2	12.7	12.4	12.5	12.7	11.7	10.6	10.2	9.9	10.5	10.2	9.9	10.5
New York, N. Y	9.5	9.5	10.4	10.0	9.6	9.3	9.2	9.7	10.3	10.3	10.5	10.8	10.7	11.2	11.5	11.9	12.5	10.9	10.2	10.6	10.4	10.3	10.5	10.0	10.4
Norfolk, Va	7.7	7.0	6.7	6.4	6.2	6.1	6.6	7.1	7.9	8.5	9.6	9.8	9.9	9.8	10.1	10.0	9.5	8.9	7.6	7.2	7.0	8.5	8.5	7.9	8.1
Northfield, Vt	9.4	10.2	11.4	10.5	10.2	9.8	10.5	10.7	10.3	10.9	12.4	12.5	13.2	13.5	12.5	12.4	12.6	11.1	10.4	10.6	9.6	9.5	9.4	10.4	11.0
North Platte, Nebr	12.1	12.1	11.1	10.5	10.6	9.8	9.6	9.5	9.5	11.1	12.2	12.3	13.6	14.3	14.3	15.4	16.3	16.4	14.6	12.2	11.6	11.8	11.8	12.3	12.3

TABLE VII.—*Average wind movement, etc.*—Continued.

Stations.	1 a. m.	2 a. m.	3 a. m.	4 a. m.	5 a. m.	6 a. m.	7 a. m.	8 a. m.	9 a. m.	10 a. m.	11 a. m.	Noon.	1 p. m.	2 p. m.	3 p. m.	4 p. m.	5 p. m.	6 p. m.	7 p. m.	8 p. m.	9 p. m.	10 p. m.	11 p. m.	Midnight.	Mean.
Oklahoma, Okla	10.5	10.1	10.2	10.6	10.1	9.9	10.1	10.2	10.9	12.3	13.6	13.8	14.0	14.0	14.4	15.2	15.7	14.8	13.5	11.1	10.6	10.1	11.2	10.8	12.0
Olympia, Wash	4.7	5.0	5.2	5.4	5.1	5.4	5.1	5.4	5.5	5.7	5.9	5.9	6.9	6.9	8.1	8.2	8.6	8.9	8.3	7.7	6.8	5.4	5.2	4.7	6.3
Omaha, Nebr	8.4	8.4	8.0	7.9	8.4	9.1	9.0	9.1	10.1	10.9	12.3	13.3	13.9	13.7	14.1	14.3	13.4	12.5	10.6	9.0	8.2	7.5	7.5	7.9	10.3
Oswego, N. Y	12.4	12.4	12.6	12.8	13.2	12.4	11.9	13.5	13.7	14.0	14.9	14.8	14.3	14.6	14.1	13.8	13.5	12.5	12.0	12.9	12.7	12.8	12.8	13.5	13.3
Palestine, Tex	7.6	7.0	7.0	7.3	6.8	6.9	7.2	7.4	8.2	8.8	9.0	9.0	8.9	9.3	9.2	9.2	9.2	8.9	8.5	7.8	7.0	7.9	8.4	9.2	8.2
Parkersburg, W. Va	4.5	4.7	4.7	4.9	4.6	4.5	4.4	5.0	6.0	7.7	8.8	9.2	9.5	9.2	9.4	8.9	8.5	6.8	5.1	5.7	5.1	4.7	4.3	4.8	6.3
Pensacola, Fla	10.5	10.1	9.8	9.1	9.2	10.1	10.1	10.9	10.7	11.3	11.7	11.9	12.1	12.3	11.5	11.5	11.5	11.3	10.1	9.6	9.1	9.5	10.0	10.3	10.6
Philadelphia, Pa	9.7	9.1	8.5	8.3	8.4	8.5	8.7	8.6	9.3	10.7	11.3	11.7	12.0	12.2	12.9	13.2	12.9	11.2	10.7	10.2	9.7	9.3	9.3	9.4	10.2
Pierre, S. Dak	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Pikes Peak, Colo	37.7	37.7	38.2	40.0	40.5	40.1	38.1	38.3	40.9	39.6	37.1	34.4	31.5	27.8	26.7	26.2	25.9	26.5	29.4	30.5	32.1	35.0	37.5	38.5	34.6
Pittsburg, Pa	6.6	6.1	6.1	6.2	5.9	6.0	5.9	6.1	6.4	7.9	8.8	9.1	9.7	9.5	9.9	9.6	9.9	9.1	7.8	6.2	6.7	6.8	7.2	7.3	7.5
Port Angeles, Wash	5.4	4.8	4.4	4.4	4.5	4.3	4.2	4.7	4.2	4.7	3.9	3.2	3.8	4.4	5.3	5.5	5.6	6.1	6.2	6.2	5.7	4.9	5.9	5.2	4.9
Port Huron, Mich	12.3	13.1	13.2	12.6	12.4	12.7	13.0	13.4	14.3	15.2	15.8	16.1	16.5	16.4	17.3	16.5	15.5	14.6	13.2	12.2	12.1	12.6	12.6	12.7	14.0
Portland, Me	6.5	6.1	6.0	6.5	6.6	6.8	6.6	7.1	8.5	8.7	9.0	9.0	9.6	10.2	10.0	9.5	9.0	8.2	7.4	6.9	7.0	6.2	6.0	6.5	7.7
Portland, Oreg	9.7	8.9	8.8	9.2	10.5	9.3	9.0	9.2	8.7	9.3	9.3	9.4	9.6	10.9	11.2	11.1	10.9	11.3	11.2	10.7	10.3	9.3	8.9	9.0	9.8
Pueblo, Colo	8.2	8.6	9.0	8.3	7.5	6.9	7.7	7.7	7.1	8.4	9.6	10.5	11.0	11.3	13.1	14.4	14.3	14.0	12.8	11.4	10.7	10.1	10.1	8.5	10.0
Raleigh, N. C	5.6	5.8	5.8	5.6	5.5	5.5	5.0	5.9	7.0	7.8	8.5	8.4	8.9	8.5	8.8	9.4	9.0	6.9	4.8	5.1	5.5	5.9	6.0	6.2	6.7
Rapid City, S. Dak	10.6	10.0	9.7	10.3	11.2	10.5	10.1	10.3	10.6	11.3	11.4	12.9	13.2	14.3	15.4	17.5	16.6	16.4	14.6	14.0	12.0	11.8	12.1	12.1	12.5
Red Bluff, Cal	6.3	5.8	6.3	6.4	6.4	6.3	6.4	6.2	6.3	6.5	6.5	7.4	8.3	8.7	8.8	9.0	9.4	9.5	9.4	9.1	8.0	6.9	6.5	6.0	7.3
Rochester, N. Y	7.6	7.6	7.4	7.8	8.0	7.9	8.3	9.3	10.9	11.6	12.1	12.4	12.7	12.5	12.2	11.3	10.2	10.0	8.9	8.8	9.2	7.9	7.6	7.8	9.6
Roseburg, Oreg	3.0	3.4	3.5	3.5	3.3	2.9	2.8	2.8	3.2	3.4	3.4	3.5	4.2	4.9	5.6	5.9	6.9	7.2	7.6	7.5	6.1	4.7	3.4	3.0	4.4
Sacramento, Cal	6.2	6.1	6.2	6.5	6.6	6.4	7.0	7.3	7.1	6.8	7.0	8.3	8.9	9.1	10.3	10.5	10.4	10.2	9.9	9.3	8.1	7.2	6.3	6.3	7.8
St. Louis, Mo	12.6	12.1	11.8	12.2	12.0	11.8	11.8	12.0	13.5	14.4	15.0	14.6	14.8	15.8	16.0	16.6	17.2	16.1	14.2	13.0	12.7	12.4	12.6	12.6	13.7
St. Paul, Minn	9.7	8.7	7.6	8.3	7.8	7.9	8.5	8.7	8.9	9.0	10.5	11.9	12.3	11.9	11.7	12.5	12.6	12.6	11.9	10.9	9.5	9.6	9.6	9.9	10.1
St. Vincent, Minn	9.5	9.4	9.7	9.3	9.3	9.4	9.5	10.3	10.4	11.3	12.6	13.2	13.4	13.7	13.8	13.4	13.5	13.5	11.9	11.0	10.4	10.5	10.7	10.5	11.3
Salt Lake City, Utah	6.2	6.6	6.7	7.0	6.4	6.0	5.5	4.6	4.2	4.5	5.1	5.8	8.2	9.7	10.3	10.5	9.8	10.9	9.3	8.6	7.6	5.8	5.4	6.3	7.1
San Antonio, Tex	9.1	8.3	8.0	8.2	7.3	7.2	7.4	6.8	7.0	8.1	10.1	10.1	10.7	10.3	10.1	10.3	10.7	11.4	11.7	11.6	11.1	11.1	11.5	10.2	9.5
San Diego, Cal	4.9	4.7	4.6	4.5	4.4	4.3	4.5	4.6	4.5	4.4	4.1	4.2	5.4	6.6	8.1	8.9	9.5	9.9	9.4	8.0	6.5	5.1	4.4	4.4	5.8
Sandusky, Ohio	9.3	9.1	9.4	10.2	10.0	9.6	10.5	10.2	10.6	11.4	11.5	11.9	12.9	12.5	12.6	12.4	12.1	10.5	9.9	9.3	9.5	9.9	9.9	9.5	10.6
San Francisco, Cal	9.8	9.5	8.5	8.2	7.6	7.6	7.5	7.7	6.9	6.6	7.4	8.5	9.1	9.5	10.7	13.7	15.5	17.0	17.5	17.8	16.3	15.6	14.4	12.1	11.0
Santa Fe, N. Mex	5.9	5.5	5.4	4.5	4.3	3.9	4.5	5.1	5.5	6.1	8.0	9.9	11.2	11.9	12.2	13.0	12.8	12.1	12.0	11.1	7.7	6.7	6.7	6.6	8.0
Sault Ste. Marie, Mich.	7.5	7.5	7.5	7.9	8.4	8.4	9.0	10.0	11.1	11.4	12.3	12.2	13.5	13.6	13.2	12.9	12.8	11.2	9.6	9.1	8.4	8.3	8.5	7.8	10.1
Savannah, Ga	8.1	8.1	7.1	6.6	6.8	6.7	6.7	7.1	7.4	8.3	8.9	9.5	9.5	10.2	11.2	10.7	11.2	10.9	9.9	8.8	8.8	8.5	9.3	9.0	8.7
Seattle, Wash	6.2	6.3	7.2	7.8	7.8	7.5	7.5	7.2	7.2	7.7	7.5	7.9	8.2	8.2	8.8	8.8	8.9	9.4	10.4	9.7	9.0	7.9	7.2	6.9	8.0
Shreveport, La	9.6	8.7	7.8	8.2	8.3	8.4	8.5	8.9	8.7	9.5	9.6	9.3	9.8	10.0	10.1	10.5	9.9	9.3	8.8	7.8	7.4	8.4	10.0	10.3	9.1
Sioux City, Iowa	11.2	11.3	11.1	11.2	11.8	12.2	11.7	12.5	13.1	15.0	16.7	18.0	19.3	19.8	19.6	20.2	19.4	18.0	15.0	12.3	11.0	10.5	10.8	11.4	14.3
Southport, N. C	7.3	8.0	8.0	7.7	8.1	8.0	8.5	9.2	9.3	10.1	10.9	11.0	12.0	12.3	12.3	12.4	12.3	10.7	9.3	9.6	8.7	8.3	7.4	7.5	9.5
Spokane, Wash	7.2	7.4	7.7	7.5	7.5	7.4	6.7	6.5	6.4	5.9	6.1	6.5	7.7	8.2	9.3	9.8	9.5	8.9	8.9	8.1	7.7	7.8	7.3	7.5	7.6
Springfield, Ill	10.6	10.2	10.5	10.4	10.5	10.6	10.3	10.4	11.7	12.8	13.4	14.7	15.3	15.5	15.6	15.5	15.5	14.1	12.4	11.1	10.9	11.4	10.9	11.0	12.3
Springfield, Mo	10.4	11.0	11.0	10.6	10.7	10.5	10.3	11.3	11.3	12.3	14.4	14.8	13.8	14.8	14.5	14.3	15.0	14.3	11.9	11.5	10.8	11.2	11.1	11.7	12.2
Tampa, Fla	5.0	4.9	4.4	4.4	4.9	4.9	5.4	5.2	6.5	8.3	8.5	8.3	8.6	8.5	8.7	9.6	9.9	9.6	7.6	5.9	4.9	4.5	5.0	4.7	6.6
Tatoosh Island, Wash	16.4	17.0	16.3	17.8	16.9	15.4	15.1	15.7	16.1	16.4	17.2	18.6	18.0	18.7	17.5	18.1	17.4	17.0	16.4	16.1	15.2	15.9	16.4	16.3	16.7
Titusville, Fla	11.8	10.1	9.3	9.2	9.3	8.8	9.2	9.0	10.6	12.6	14.5	14.3	15.6	16.4	16.7	18.3	18.7	19.4	19.1	17.4	16.0	13.3	12.7	11.8	13.5
Toledo, Ohio	11.0	10.7	10.8	11.2	11.3	11.5	11.2	11.0	11.9	12.7	14.4	14.1	15.4	14.9	15.1	14.9	15.6	14.3	13.1	11.7	11.4	10.9	11.7	10.8	12.6
Tucson, Ariz	7.8	7.1	6.8	6.9	6.9	7.5	6.9	6.9	7.9	7.4	8.4	9.3	8.4	7.4	7.9	8.6	10.2	11.2	10.8	11.1	9.7	8.1	7.9	7.9	8.3
Valentine, Nebr	12.2	12.5	12.5	11.9	12.6	11.7	11.8	11.8	12.0	12.7	15.0	16.1	16.4	16.2	16.4	16.3	16.2	16.8	16.6	14.7	12.8	11.5	11.5	12.1	13.8
Vicksburg, Miss	9.3	9.5	9.0	9.1	8.1	7.8	7.3	8.1	7.8	8.4	8.9	9.3	9.9	9.9	9.6	10.2	9.9	9.5	9.2	8.7	9.4	10.6	10.1	10.1	9.2
Vineyard Haven, Mass	8.8	8.5	9.0	9.0	8.9	8.5	8.5	8.7	9.0	9.6	10.4	11.0	11.4	11.8	11.4	11.2	10.6	10.0	8.6	8.7	8.4	8.3	8.7	8.6	9.5
Walla Walla, Wash	6.7	7.2	7.1	6.9	7.0	6.5	6.5	6.4	6.9	6.5	7.3	7.7	8.0	10.3	10.6	10.3	10.5	9.6	9.2	8.9	8.2	6.8	6.9	6.6	7.9
Washington, D. C	5.9	4.9	4.4	5.0	4.6	4.7	4.6	5.3	6.8	8.1	9.2	10.5	10.0	11.3	11.9	11.4	10.8	9.1	7.5	6.7	6.3	6.4	6.2	6.0	7.4
Wichita, Kans	8.9	8.9	9.6	11.0	10.8	10.5	10.2	11.3	11.5	13.5	14.2	14.7	15.3	16.6	16.9	16.3	15.9	15.3	13.4	11.8	10.5	9.8	9.6	9.5	12.3
Williston, N. Dak	11.3	10.8	10.2	9.4	8.6	7.7	8.0	8.7	8.3	7.9	9.3	10.4	12.9	14.5	15.1	16.1	16.2	14.8	14.3	13.3	12.9	12.6	12.1	11.4	11.5
Wilmington, N. C	7.7	7.5	7.6	7.4	6.8	7.2	6.5	6.9	7.7	8.3	9.1	9.6	10.8	11.5	12.2	12.8	12.4	10.8	9.3	8.0	7.8	8.0	8.3	8.3	8.9
Winnemucca, Nev	9.8	9.9	9.0	8.8	9.0	10.1	10.0	10.5	11.3	11.0	11.8	13.0	13.7	14.0	15.3	15.1	15.3	15.5	15.4	13.8	13.1	12.5	10.9	10.6	12.1
Woods Holl, Mass	13.6	14.9	15.2	15.9	15.3	15.0	14.3	13.6	13.8	14.8	15.0	15.1	15.7	16.8	16.5	16.3	15.9	15.7	14.2	15.0	13.9	14.9	15.1	15.2	15.1
Yuma, Ariz	6.8	5.8	5.7	5.6	7.0	6.4	6.5	5.2	5.4	5.7	6.0	7.7	9.9	9.5	9.2	8.7	9.0	10.0	10.2	9.8	9.3	9.4	8.8	7.4	7.7

*3 days missing.

TABLE VIII.—*Prevailing and resultant winds from self-registers for March*, 1894.

Number.	Station.	Prevailing wind.		Total movement.		Resultant direction.			Resultant movement.		Azimuth of movement minus direction.	Ratio of resultant movement to total movement.
		Direction from.	Duration.	Monthly.	Hourly average.	Direction from.	Duration.	Average hourly velocity.	Direction from.	Amount.		
	(1)	(2)	(3) Hours.	(4) Miles.	(5) Miles.	(6)	(7) Hours.	(8) Miles.	(9)	(10) Miles.	(11) °	(12)
1	Eastport, Me	sw.	162	8,173	11.0	s. 88 w.	220	11.1	n. 83 w.	2,452	+ 9	0.300
2	Portland, Me	s.	204	5,699	7.7	s. 60 w.	238	8.2	s. 54 w.	1,958	− 6	0.344
4	Boston, Mass	w.	179	8,964	12.0	s. 66 w.	286	15.2	s. 75 w.	4,346	+ 9	0.485
5	Nantucket, Mass	n.	162	8,778	11.8	n. 55 w.	230	12.4	n. 48 w.	2,843	+ 7	0.324
8	New Haven, Conn	s.	140	6,209	8.3	n. 85 w.	101	15.6	n. 72 w.	1,577	+13	0.254
10	Albany, N. Y	s.	237	6,764	9.1	s. 56 w.	198	9.7	s. 46 w.	1,918	−10	0.284
11	New York, N. Y	nw.	193	7,745	10.4	n. 70 w.	134	18.9	n. 79 w.	2,524	− 9	0.326
13	Philadelphia, Pa	nw.	167	7,620	10.2	n. 03 w.	145	16.0	n. 62 w	2,315	+ 1	0.304
15	Baltimore, Md	nw.	157	5,872	7.9	s. 89 w.	85	23.9	n. 76 w.	2,028	+15	0.345
16	Washington, D. C	nw.	185	5,504	7.4	s. 84 w.	92	17.9	n. 77 w.	1,650	+19	0.300
17	Lynchburg, Va	nw.	198	3,657	4.9	s. 85 w.	174	8.0	n. 80 w.	1,399	+15	0.382
18	Norfolk, Va	n.	157	6,028	8.1	n. 65 e.	132	1.1	s. 68 e.	148	+47	0.024
24	Wilmington, N. C	sw.	204	6,586	8.9	s. 52 w.	129	14.7	s. 57 w.	1,877	+ 5	0.285
26	Augusta, Ga	nw.	155	4,474	6.0	s. 58 w.	149	9.1	s. 62 w.	1,361	+ 4	0.304
27	Savannah, Ga	s.	271	6,488	8.7	s. 20 w.	221	8.8	s. 28 w.	1,956	+ 8	0.301
28	Jacksonville, Fla	s.	206	5,512	7.4	s. 21 e.	170	9.2	s. 12 e.	1,557	+ 9	0.282
30	Key West, Fla	e.	280	7,857	10.6	n. 88 e.	433	10.9	n. 81 e.	4,707	− 7	0.599
33	Atlanta, Ga	nw.	191	7,574	10.2	s. 54 w.	238	11.2	s. 60 w.	2,675	+ 6	0.353
38	Vicksburg, Miss	se.	210	6,809	9.2	s. 35 e.	244	11.0	s. 29 e.	2,692	+ 6	0.395
39	New Orleans, La	se.	273	7,778	10.5	s. 57 e.	332	10.7	s. 60 e.	3,560	− 3	0.458
42	Little Rock, Ark	s.	189	6,644	8.9	s. 0 w.	167	6.5	s. 2 w.	1,090	+ 2	0.164
44	Galveston, Tex	se.	307	9,690	13.0	s. 46 e.	386	10.9	s. 56 e.	4,223	−10	0.436
48	Knoxville, Tenn	sw.	271	3,977	5.3	s. 78 w.	285	7.5	s. 67 w.	2,130	−11	0.536
49	Memphis, Tenn	se.	208	6,742	9.1	s. 17 e.	240	9.4	s. 22 e.	2,268	− 5	0.336
50	Nashville, Tenn	se.	222	5,440	7.3	s. 20 e.	177	8.0	s. 8 w.	1,415	+28	0.260
52	Louisville, Ky	s.	188	7,205	9.7	s. 8 w.	252	11.3	s. 22 w.	2,858	+14	0.397
53	Indianapolis, Ind	se.	191	6,064	8.2	s. 26 w.	245	8.6	s. 24 w.	2,112	− 2	0.348
54	Cincinnati, Ohio	se.	188	6,144	8.3	s. 20 w.	235	7.4	s. 34 w.	1,731	+14	0.282
55	Columbus, Ohio	nw.	176	8,739	11.7	s. 56 w.	262	14.5	s. 70 w.	3,803	+14	0.435
56	Pittsburg, Pa	nw.	200	5,607	7.5	s. 71 w.	247	9.8	s. 77 w.	2,427	+ 6	0.433
58	Buffalo, N. Y	sw.	199	9,685	13.0	s. 82 w.	285	19.4	s. 86 w.	5,515	+ 4	0.569
60	Rochester, N. Y	sw.	318	7,123	9.6	s. 48 w.	321	12.9	s. 57 w.	4,153	+ 9	0.583
62	Cleveland, Ohio	se.	245	11,144	15.0	s. 5 w.	222	18.8	s. 17 w.	4,169	+12	0.374
64	Toledo, Ohio	sw.	173	9,351	12.6	s. 65 w.	274	14.6	s. 68 w.	3,988	+ 3	0.426
65	Detroit, Mich	sw.	267	10,192	13.7	s. 62 w.	327	17.4	s. 65 w.	5,074	+ 3	0.556
66	Alpena, Mich	se.	168	9,130	12.3	s. 47 w.	161	12.6	s. 60 w.	2,034	+13	0.223
67	Grand Haven, Mich	sw.	160	10,236	13.8	s. 44 w.	189	19.4	s. 36 w.	3,664	− 8	0.358
68	Marquette, Mich	nw.	172	8,973	12.1	n. 76 w.	124	18.9	s. 80 w.	2,341	−24	0.261
70	Sault Ste. Marie, Mich	se.	301	7,500	10.1	s. 28 e.	90	3.3	s. 38 w.	293	+66	0.039
71	Chicago, Ill	sw.	198	16,485	22.2	s. 54 w.	255	26.6	s. 46 w.	6,772	− 8	0.411
72	Milwaukee, Wis	sw.	154	9,406	12.6	s. 47 w.	195	15.2	s. 56 w.	2,968	+ 9	0.316
74	Duluth, Minn	ne.	175	5,634	7.6	n. 11 e.	191	10.4	n. 4 e.	1,982	− 7	0.352
75	Moorhead, Minn	nw.	198	9,608	12.9	n. 64 w.	166	10.5	n. 42 w.	1,741	+22	0.181
77	Bismarck, N. Dak	nw.	311	9,716	13.1	n. 39 w.	256	11.6	n. 4 w.	2,964	+35	0.305
79	Saint Paul, Minn	se.	246	7,526	10.1	s. 13 w.	143	9.3	s. 53 w.	1,324	+40	0.176
81	Davenport, Iowa	sw.	203	9,320	12.5	s. 42 w.	284	13.3	s. 51 w.	3,788	+ 9	0.406
82	Des Moines, Iowa	sw.	196	8,209	11.0	s. 74 w.	233	13.8	s. 67 w.	3,207	− 7	0.391
88	Saint Louis, Mo	se.	190	10,158	13.7	s. 22 w.	254	15.4	s. 22 w.	3,916	0	0.385
90	Kansas City, Mo	sw.	183	9,125	12.3	s. 65 w.	132	18.9	s. 68 w.	2,505	+ 3	0.274
92	Omaha, Nebr	nw.	221	7,666	10.3	s. 69 w.	135	11.8	s. 47 w.	1,599	−22	0.209
96	Huron, S. Dak	nw.	247	11,716	15.7	n. 59 w.	149	15.8	n. 51 w.	2,353	+ 8	0.201
98	Havre, Mont	sw.	254	7,737	10.4	n. 86 w.	292	14.3	s. 81 w.	4,108	−13	0.539
100	Helena, Mont	sw.	363	6,888	9.3	s. 60 w.	453	10.1	s. 58 w.	4,574	− 2	0.664
106	Colorado Springs, Colo	n.	255	9,063	12.2	n. 10 e.	142	15.4	n. 21 w.	2,183	−31	0.241
107	Denver, Colo	sw.	154	6,491	8.7	s. 54 w.	129	6.8	n. 83 w.	880	+43	0.136
108	Pikes Peak, Colo	w.	274	25,733	34.6	n. 84 w.	426	42.5	n. 87 w.	18,102	− 3	0.704
111	Dodge City, Kans	se.	180	10,641	14.3	s. 80 e.	102	16.9	s. 27 e.	1,725	+53	0.162
114	Abilene, Tex	se.	161	9,348	12.6	s. 3 e.	147	17.9	s. 7 e.	2,631	− 4	0.281
116	El Paso, Tex	nw.	317	9,243	12.4	n. 60 w.	354	15.8	n. 62 w.	5,605	− 2	0.606
117	Santa Fe, N. Mex	sw.	199	5,961	8.0	s. 74 w.	82	19.0	s. 84 w.	1,561	+10	0.262
119	Yuma, Ariz	w.	144	5,738	7.7	n. 81 w.	154	10.9	n. 83 w.	1,676	− 2	0.292
120	Keeler, Cal	e.	142	6,367	8.6	n. 15 w.	20	76.8	n. 52 w.	1,537	−37	0.241
122	Salt Lake City, Utah	nw.	173	5,273	7.1	s. 30 w.	80	14.0	s. 38 w.	1,118	+ 8	0.212
125	Spokane, Wash	sw.	240	5,683	7.6	s. 1 w.	377	9.8	s. 11 w.	3,683	+10	0.648
130	Seattle, Wash	s.	200	5,922	8.0	s. 42 e.	298	11.3	s. 33 e.	3,376	+ 9	0.570
132	Portland, Oregon	sw.	200	7,305	9.8	s. 46 w.	255	15.7	s. 41 w.	4,008	− 5	0.549
133	Roseburg, Oregon	sw.	134	3,270	4.4	s. 29 w.	137	9.2	s. 31 w.	1,258	+ 2	0.385
137	San Francisco, Cal	sw.	425	8,215	11.0	s. 53 w.	386	15.7	s. 53 w.	6,059	0	0.738
140	San Diego, Cal	w.	180	4,335	5.8	n. 79 w.	237	8.6	n. 84 w.	2,042	− 5	0.471

TABLE IX.—*Resultant winds from observations at 8 a. m. and 8 p. m., daily, during March, 1894.*

Number.	Station.	Component direction from— N.	S.	E.	W.	Resultant. Direction from—	Duration.
	New England.	Hours.	Hours.	Hours.	Hours.	°	Hours.
1	Eastport, Me	21	19	8	25	n. 83 w.	17
2	Portland, Me	17	27	6	23	s. 60 w.	20
3	Northfield, Vt	23	32	4	9	s. 29 w.	10
4	Boston, Mass	12	19	11	34	s. 73 w.	24
5	Nantucket, Mass	26	15	11	24	n. 50 w.	17
6	Woods Holl, Mass	9	14	5	15	s. 63 w.	11
7	Block Island, R. I	19	22	11	31	s. 81 w.	20
8	New Haven, Conn	23	18	16	19	n. 31 w.	6
9	New London, Conn	17	21	12	26	s. 74 w.	15
	Middle Atlantic States.						
10	Albany, N. Y	16	28	7	23	s. 53 w.	20
11	New York, N. Y	23	21	14	24	n. 79 w.	10
12	Harrisburg, Pa	18	13	19	23	n. 39 w.	6
13	Philadelphia, Pa	19	20	16	23	s. 82 w.	7
14	Atlantic City, N. J	17	17	16	23	.. .. w.	7
15	Baltimore, Md	17	21	14	23	s. 66 w.	9
16	Washington, D. C	25	20	16	19	n. 31 w.	6
17	Lynchburg, Va	21	22	11	24	s. 86 w.	13
18	Norfolk, Va	22	19	24	11	n. 77 e.	13
	South Atlantic States.						
19	Charlotte, N. C.	9	32	16	20	s. 10 w.	23
20	Hatteras, N. C	26	16	14	20	n. 31 w.	12
21	Kittyhawk, N. C	23	20	14	17	n. 45 w.	4
22	Raleigh, N. C	18	25	13	21	s. 49 w.	11
23	Southport, N. C	17	19	10	28	s. 84 w.	18
24	Wilmington, N. C	17	28	14	18	s. 20 w.	12
25	Charleston, S. C	14	27	11	24	s. 45 w.	18
26	Augusta, Ga	10	23	15	25	s. 55 w.	12
27	Savannah, Ga	16	33	9	15	s. 19 w.	18
28	Jacksonville, Fla	17	26	20	13	s. 38 e.	11
	Florida Peninsula.						
29	Jupiter, Fla	15	24	21	16	s. 29 e.	10
30	Key West, Fla	13	11	43	3	n. 87 e.	40
31	Tampa, Fla	17	16	19	24	n. 79 w.	5
32	Titusville, Fla	13	24	23	17	s. 29 e.	12
	Eastern Gulf States.						
33	Atlanta, Ga	16	24	12	22	s. 51 w.	13
34	Pensacola, Fla	21	26	18	12	s. 50 e.	8
35	Mobile, Ala	21	29	13	9	s. 27 e.	9
36	Montgomery, Ala	15	24	16	17	s. 6 w.	9
37	Meridian, Miss	17	29	19	7	s. 45 e.	17
38	Vicksburg, Miss	13	31	27	8	s. 47 e.	26
39	New Orleans, La	18	31	26	3	s. 61 e.	26
	Western Gulf States.						
40	Shreveport, La	14	35	21	8	s. 31 e.	25
41	Fort Smith, Ark	16	14	34	8	n. 86 e.	26
42	Little Rock, Ark	17	18	16	15	s. 5 e.	11
43	Corpus Christi, Tex	17	26	34	3	s. 74 e.	32
44	Galveston, Tex	11	34	28	3	s. 47 e.	34
45	Palestine, Tex	18	28	17	12	s. 27 e.	11
46	San Antonio, Tex	18	22	29	8	s. 79 e.	21
	Ohio Valley and Tennessee.						
47	Chattanooga, Tenn	18	27	17	20	s. 18 w.	10
48	Knoxville, Tenn	21	21	12	26	.. .. w.	14
49	Memphis, Tenn	16	30	21	13	s. 30 e.	16
50	Nashville, Tenn	16	27	23	14	s. 39 e.	14
51	Lexington, Ky	18	26	12	29	s. 65 w.	19
52	Louisville, Ky	13	29	18	19	s. 3 w.	16
53	Indianapolis, Ind	8	31	15	21	s. 15 w.	24
54	Cincinnati, Ohio	11	27	19	22	s. 11 w.	16
55	Columbus, Ohio	15	26	10	26	s. 56 w.	19
56	Pittsburg, Pa	19	22	11	27	s. 79 w.	16
57	Parkersburg, W. Va	4	27	18	23	s. 12 w.	24
	Lower Lake Region.						
58	Buffalo, N. Y	13	20	13	31	s. 69 w.	19
59	Oswego, N. Y	11	31	15	18	s. 9 w.	20
60	Rochester, N. Y	7	32	13	29	s. 33 w.	30
61	Erie, Pa	12	27	8	27	s. 52 w.	24
62	Cleveland, Ohio	11	27	22	20	s. 7 e.	16
63	Sandusky, Ohio	10	26	11	22	s. 34 w.	19
64	Toledo, Ohio	11	23	12	31	s. 58 w.	22
65	Detroit, Mich	11	23	12	34	s. 61 w.	25
	Upper Lake Region.						
66	Alpena, Mich	14	26	14	21	s. 30 w.	14
67	Grand Haven, Mich	16	24	15	20	s. 32 w.	9
68	Marquette, Mich	20	20	14	23	.. .. w.	9
69	Port Huron, Mich	13	27	10	24	s. 45 w.	20
70	Sault Ste. Marie, Mich	13	21	26	19	s. 41 e.	11
71	Chicago, Ill	14	27	11	27	s. 51 w.	21
72	Milwaukee, Wis	13	23	13	26	s. 52 w.	16
	Upper Lake Region—Cont'd.	Hours.	Hours.	Hours.	Hours.	°	Hours.
73	Green Bay, Wis	18	24	9	22	s. 65 w.	14
74	Duluth, Minn	23	8	23	21	n. 8 e.	15
	North Dakota.						
75	Moorhead, Minn	26	16	10	23	n. 52 w.	16
76	Saint Vincent, Minn	27	12	11	17	n. 22 w.	16
77	Bismarck, N. Dak	28	13	13	25	n. 39 w.	19
78	Williston, N. Dak	.....	.....	.....	.....	.....	.....
	Upper Mississippi Valley.						
79	Saint Paul, Minn	12	24	21	24	s. 14 w.	12
80	La Crosse, Wis	17	26	11	15	s. 24 w.	10
81	Davenport, Iowa	10	24	16	26	s. 36 w.	17
82	Des Moines, Iowa	20	20	10	26	.. .. w.	16
83	Dubuque, Iowa	10	23	17	24	s. 28 w.	15
84	Keokuk, Iowa	10	29	11	26	s. 38 w.	24
85	Cairo, Ill	17	34	15	12	s. 10 e.	17
86	Springfield, Ill	16	30	7	22	s. 47 w.	20
87	Hannibal, Mo	14	22	14	25	s. 54 w.	14
88	Saint Louis, Mo	10	27	19	22	s. 10 w.	17
	Missouri Valley.						
89	Columbia, Mo	7	14	11	11	.. .. s.	7
90	Kansas City, Mo	20	24	9	24	s. 75 w.	16
91	Springfield, Mo	13	29	19	12	s. 24 e.	18
92	Omaha, Nebr	18	22	14	25	s. 70 w.	12
93	Valentine, Nebr	25	16	6	25	n. 65 w.	21
94	Sioux City Iowa	22	21	12	21	n. 84 w.	9
95	Pierre, S. Dak	23	15	17	23	n. 37 w.	10
96	Huron, S. Dak	25	10	13	25	n. 53 w.	15
	Northern Slope.						
98	Havre, Mont	19	17	8	33	n. 85 w.	25
99	Miles City, Mont	18	22	10	27	s. 77 w.	18
100	Helena, Mont	9	28	2	40	s. 63 w.	42
101	Rapid City, S. Dak	26	15	8	20	n. 47 w.	16
102	Cheyenne, Wyo	23	15	1	34	n. 76 w.	34
103	Lander, Wyo	13	18	5	34	s. 80 w.	29
104	Kearney, Nebr	20	18	11	21	n. 79 w.	10
105	North Platte, Nebr	18	23	9	25	s. 73 w.	17
	Middle Slope.						
106	Colorado Springs, Colo	32	16	10	10	.. .. n.	16
107	Denver, Colo	17	28	18	18	.. .. s.	11
108	Pikes Peak, Colo	17	11	2	42	n. 81 w.	40
109	Pueblo, Colo	10	12	21	28	s. 74 w.	7
110	Concordia, Kans	21	25	9	15	s. 56 w.	7
111	Dodge City, Kans	14	25	19	9	s. 84 e.	10
112	Wichita, Kans	21	29	11	9	s. 14 e.	8
113	Oklahoma, Okla	22	29	16	10	s. 41 e.	9
	Southern Slope.						
114	Abilene, Tex	20	29	15	9	s. 34 e.	11
115	Amarillo, Tex	18	30	8	18	s. 40 w.	16
	Southern Plateau.						
116	El Paso, Tex	22	7	10	39	n. 62 w.	33
117	Santa Fe, N. Mex	20	23	16	22	s. 63 w.	7
118	Tucson, Ariz	13	28	17	21	s. 15 w.	16
119	Yuma, Ariz	27	15	11	23	n. 45 w.	17
120	Keeler, Cal	19	15	22	20	n. 27 e.	4
	Middle Plateau.						
121	Winnemucca, Nev	11	25	9	35	s. 62 w.	30
122	Salt Lake City, Utah	18	20	17	23	s. 72 w.	6
	Northern Plateau.						
123	Baker City, Oreg	18	26	21	23	s. 14 w.	8
124	Idaho Falls, Idaho	9	39	13	15	s. 4 w.	30
125	Spokane, Wash	4	38	17	20	s. 5 w.	34
126	Walla Walla, Wash	9	36	8	19	s. 22 w.	29
	North Pacific Coast Region.						
127	Fort Canby, Wash	14	15	20	23	s. 72 w.	3
128	Olympia, Wash	11	35	3	19	s. 34 w.	29
129	Port Angeles, Wash	5	31	13	20	s. 15 w.	27
130	Seattle, Wash	10	28	21	9	s. 34 e.	22
131	Tatoosh Island, Wash	3	19	25	25	.. .. s.	16
132	Portland, Oreg	15	28	9	24	s. 49 w	20
133	Roseburg, Oreg	13	21	21	22	s. 7 w.	8
	Middle Pacific Coast Region.						
134	Eureka, Cal	23	26	8	17	s. 72 w.	10
135	Red Bluff, Cal	18	24	14	27	s. 65 w.	14
136	Sacramento, Cal	16	32	8	22	s. 41 w.	21
137	San Francisco, Cal	6	31	7	38	s. 51 w.	40
	South Pacific Coast Region.						
138	Fresno, Cal	33	6	11	34	n. 40 w.	36
139	Los Angeles, Cal	18	10	17	30	n. 58 w.	15
140	San Diego, Cal	20	12	9	34	n. 72 w.	26

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