meteorological prediction, and not nearly as definite as the railroad signboard "look out for the engine when the bell rings."

It must be acknowledged that the Weather Bureau has done wisely in abstaining from any attempt to make long-range predictions, based upon any or all of the four methods above mentioned. The method that is actually used in its daily work has nothing of the absurd profoundity of the astrological method, but is based upon the simplest common sense. The hope of the Bureau, as expressed by General Myer in 1871, still continues to be our earnest aim, namely, to so educate every citizen that he may take an intelligent view of the daily weather maps and learn to make his own local predictions.

In connection with meteorology in general, and especially weather predictions, there is a popular tendency to make a mistaken use of the word "science." Knowledge is science as distinguished from the world of imagination, which is fiction. Whatever is logical and true may be called scientific, but whatever is illogical or untrue is certainly not scientific. A map or a survey that gives us an exact picture of the true location of every spot on the earth's surface responds to scientific geography. A catalogue of all the plants and animals on the earth or of the stars in the sky constitutes a biological or an astronomical survey, and is truly scientific. A series of maps of the weather at 8 a. m. daily is a scientific meteorological work, and any predictions of the weather that can be logically deduced from these maps is a scientific prediction. But a lot of predictions that are said to be deduced in defiance of sound logic and with a very imperfect knowledge of the laws of nature are fanciful fictions and not scientific, because they are contrary to all sound knowledge. Science can not possibly go contrary to the truth. Most scientific knowledge is so simple that it is taught in the schools to the children. There is not a child of the ten millions who attend our public schools who has not been taught that the stars and planets have no influence on human affairs. On the other hand, there are some fields of study that are so difficult that only a few have time and taste to devote to them. These may, if one pleases, be called the most profound depths of science, but they are perfectly accessible to every logical student, and a century hence this profound science will have become clear to all and will be taught in our schools just as we now teach that which was unknown in the time of Gallileo and which is even yet untaught in the schools of Turkey and China.

In the preceding lines we have had in mind the average or normal American citizen, one who believes that two and two are four and that a straight line is the shortest distance between two points, and all the other axioms and principles of natural science. On the other hand, we must recognize the fact that there is quite an appreciable percentage of human beings who do not accept these principles. These are those who can demonstrate that the world is flat; that the earth does not revolve daily or annually; who believe in squaring the circle, in perpetual motion, the Keely motor, and other incongruities. The philosopher De Morgan has well styled this class of humanity as "paradoxers." They can assent to the truth of principles and facts that the rest of the world can never indorse; they belong to a different part of the universe from that world in which we live, to a place where white is black, where *yes* means *no*, where a part is greater than the whole, where time runs backward, where the material controls the spiritual. It is conceivable that the Creator may have created many distinct systems of worlds and that the laws which obtain in our part of the universe do not hold good everywhere. The science that we are studying is simply the knowledge of the principles and the facts that belong to our part of the universe, where the "paradoxers" are entirely out of place.

METEOROLOGICAL TABLES AND CHARTS.

By A. J. HENRY, Chief of Division of Records and Meteorological Data.

Table I gives, for about 130 Weather Bureau stations making two observations daily and for about 20 others making only one 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 total depth of snowfall, and the mean wet-bulb temperatures. The altitudes of the instruments above ground are also given.

Table II gives, for about 2,700 stations occupied by voluntary observers, the highest maximum and the lowest 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 the station; the total monthly precipitation, and the total depth in inches of any snow that may have fallen. When the spaces in the snow column are left blank it indicates that no snow has fallen, but when it is possible that there may have been snow of which no record has been made, that fact is indicated by leaders, thus (. . . . .).

Table III gives, for about 30 stations furnished by the Canadian Meteorological Service, Prof. R. F. Stupart, director, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

Table IV gives, for 26 stations selected out of 113 that maintain continuous records, the mean hourly temperatures deduced from thermographs of the pattern described and figured in the Report of the Chief of the Weather Bureau, 1891–92, p. 29.

Table V gives, for 26 stations selected out of 104 that maintain continuous records, the mean hourly pressures as automatically registered by Richard barographs, 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, 1891–92, pp. 26 and 30.

Table VI gives, for about 130 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.

Table VII gives, for all stations that make observations at 8 a. m. and 8 p. m., the four component directions and the resultant directions based on these two observations only and without considering the velocity of the wind. 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 any geographical division the average resultant direction for that division can be obtained.

Table VIII gives the total number of stations in each State from which meteorological reports of any kind have been re-

ceived, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table IX gives, for about 70 stations, the average hourly sunshine (in percentages) as derived from the automatic records made by two essentially different types of instruments, designated, respectively, 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.

Table X gives a record of rains whose intensity at some period of the storm's continuance equaled or exceeded the following rates:

Duration, minutes..	5	10	15	20	25	30	35	40	45	50	60	80	100	120
Rates pr. hr. (ins.)..	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.86	0.84	0.75	0.60	0.54	0.50

In the northern part of the United States, especially in the colder months of the year, rains of the intensities shown in the above table seldom occur. In all cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest rainfall of any single storm has been given, also the greatest hourly fall during that storm.

Table XI gives the record of excessive precipitation at all stations from which reports are received.

NOTES EXPLANATORY OF THE CHARTS.

Chart I.—Tracks of centers of high pressure. The roman letters show number and order of centers of high areas. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. The queries (?) on the tracks show that the centers could not be satisfactorily located. Within each circle is given the highest barometric reading reported near the center. A blank indicates that no reports were available. A wavy line indicates the axis of a ridge of high pressure.

Chart II.—Tracks of centers of low pressure. The roman letters show number and order of centers of low areas. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the 8 a. m. and 8 p. m., seventy-fifth meridian time, observations. The queries (?) on the tracks show that the centers could not be satisfactorily located. Within each circle is given the lowest barometric reading reported near the center. A blank indicates that no reports were available. A wavy line indicates the axis of a trough or long oval area of low pressure.

Chart III.—Total precipitation. The scale of shades showing the depth of rainfall is given on the chart itself. For isolated stations the rainfall is given in inches and tenths, when appreciable; otherwise, a "trace" is indicated by a capital T, and no rain at all, by 0.0.

Chart IV.—Sea-level isobars and isotherms, and resultant winds. The wind directions on this Chart are the computed resultants of observations at 8 a. m. and 8 p. m., daily; the resultant duration is shown by figures attached to each arrow. The temperatures are the means of daily maxima and minima and are reduced to sea level. The pressures are the means of 8 a. m. and 8 p. m. observations, daily, and are reduced to sea level and to standard gravity. The reduction for 30 inches of the mercurial barometer, as shown by the marginal figures for each degree of latitude, has already been applied.

Chart V.—Hydrographs for seven principal rivers of the United States.

Chart VI.—Surface temperatures; maximum, minimum, and mean. Lines of equal monthly mean temperature in red; lines of equal maximum temperatures (broken) in black; and lines of equal minimum temperature (dotted) also in black.

Chart VII.—Percentage of sunshine. The average cloudiness at each Weather Bureau station is determined by numerous personal observations during the day. The difference between the observed cloudiness and 100, it is assumed, represents the percentage of sunshine, and the values thus obtained have been used in preparing Chart VII.

Chart VIII.—The total snowfall. This is based on the reports from all available observers and shows the depth of the snowfall during the month in inches. In general, the depth is shown by lines and areas of equal snowfall, but in some cases figures are also given for special localities.

Chart IX.—Depth of snow on ground. This chart is based essentially upon reports from regular and special observers and shows the depth of snow lying on the ground at the end of the month, which is, therefore, the accumulated excess of the snowfall over its loss by melting, evaporation, and settling.

Charts X-XIII.—These charts present the conditions as shown on the daily weather maps during the progress of the severe storm of January 31.

TABLE I.—*Climatological data for Weather Bureau Stations, January*, 1898.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.										Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.									
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Mean actual, 8 a. m. and 8 p. m. ÷ 2.	Mean reduced.	Departure from normal.	Mean max. and min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
New England.							27.0	+ 0.2										76	4.57	+ 0.6										5.6	
Eastport	76	69	74	29.85	29.94	— .06	18.6	— 1.8	42	7	27	— 9	4	10	31	17	13	77	5.41	+ 1.5	15	10,842	n.	60	e.	23	9	8	14	6.4	26.9
Portland, Me	103	81	89	29.84	29.95	— .10	21.4	— 1.1	45	13	29	— 6	4	14	33	19	15	78	6.61	+ 3.0	13	5,585	nw.	36	ne.	31	10	12	9	5.1	41.6
Northfield	872	15	59	29.01	30.03	— .04	13.1	— 2.4	56	13	25	—22	30	2	50	11	8	83	3.30	+ 0.2	15	5,930	s.	36	sw.	8	6	11	14	6.3	34.5
Boston	125	115	181	29.84	29.98	— .09	28.7	+ 1.7	55	13	36	1	30	22	30	26	20	72	3.50	— 0.6	10	8,466	nw.	39	ne.	31	13	5	13	5.2	16.3
Nantucket	14	43	54	29.96	29.97	— .07	32.8	+ 1.4	52	20	38	10	30	27	28	30	26	77	2.76	— 1.0	14	9,760	nw.	71	se.	31	7	9	15	6.7	3.1
Woods Hole	22	51	57	.....	.....	.....	30.4	+ 0.1	52	20	36	5	30	25	30	....	....	....	3.94	+ 0.2	9	12,719	w.	52	sw.	3	15	9	7	4.0	6.8
Vineyard Haven	.....	20	....	.....	.....	.....	33.6	+ 0.2	54	20	41	6	30	27	30	....	....	....	4.83	+ 1.2	12	.....	nw.	....	.....	...	11	11	9	....	2.1
Block Island	27	39	48	29.96	29.99	— .10	32.2	+ 1.1	54	23	37	6	30	27	22	30	25	73	5.42	+ 1.2	11	12,468	nw.	60	ne.	31	7	18	6	5.4	2.1
Narragansett Pier	.....	10	....	.....	.....	.....	29.8	+ 1.0	52	*	38	0	30	22	30	....	....	....	4.93	— 0.4	9	.....	nw.	....	.....	...	16	4	11	....	4.0
New Haven	107	118	140	29.88	30.00	— .12	29.4	+ 1.9	55	13	36	0	30	22	27	26	21	74	4.96	+ 0.6	15	7,497	n.	44	w.	23	10	9	12	5.7	10.1
Mid. Atlan. States.							35.6	+ 3.1										75	2.94	— 0.7										6.2	
Albany	97	84	113	29.92	30.03	— .07	24.5	+ 1.3	54	13	32	—12	30	17	36	22	18	79	2.96	+ 0.1	15	5,622	s.	32	w.	8	3	12	16	7.4	19.8
Binghamton	875	79	90	.....	.....	.....	26.3	+ 3.9	58	13	34	— 3	4	19	32	....	....	....	2.86	.....	15	5,619	nw.	38	w.	23	4	12	15	6.8	14.0
New York	314	298	326	29.67	30.02	— .10	32.2	+ 1.7	55	23	38	5	30	26	19	29	24	74	3.95	— 0.1	15	10,090	nw.	61	w.	23	7	14	10	6.0	8.7
Harrisburg	377	94	102	29.64	30.07	— .05	32.8	+ 2.5	54	8	38	12	30	28	22	29	23	70	3.23	— 0.4	13	6,945	w.	52	w.	23	5	9	17	7.1	7.5
Philadelphia	117	168	184	29.92	30.05	— .11	35.4	+ 3.4	58	23	41	12	2	30	27	32	27	72	4.10	+ 0.7	15	7,837	nw.	41	w.	23	5	13	13	6.6	10.6
Atlantic City	52	68	76	29.99	30.05	— .08	36.0	+ 3.5	60	13	42	12	2	30	24	33	30	83	3.39	— 0.4	13	9,159	nw.	50	nw.	26	6	13	12	6.0	2.6
Cape May	24	52	70	30.04	30.06	.....	37.6	+ 3.2	58	13	43	15	30	32	19	....	....	....	3.06	.....	14	10,296	nw.	....	.....	...	9	10	12	....	0.8
Baltimore	123	68	82	29.92	30.05	— .11	37.0	+ 3.0	60	8	43	17	2	31	25	33	28	73	2.99	— 0.3	12	4,097	w.	32	sw.	23	6	14	11	5.7	5.4
Washington	112	59	76	29.95	30.08	— .10	36.6	+ 3.4	63	13	44	17	4	30	29	32	27	72	3.54	0.0	15	5,631	nw.	38	nw.	26	14	5	12	5.1	6.0
Cape Henry	.....	5	34	.....	.....	.....	44.7	+ 4.5	79	22	54	22	3	36	42	....	....	....	1.67	— 2.6	8	.....	nw.	....	.....	...	5	10	16	....	0.0
Lynchburg	685	83	88	29.34	30.11	— .06	39.2	+ 2.4	63	13	47	15	2	31	32	34	29	71	2.16	— 1.8	13	3,838	nw.	35	nw.	29	13	7	11	5.5	3.0
Norfolk	57	88	93	30.03	30.10	— .06	44.4	+ 4.0	75	15	53	20	2	36	31	40	37	81	1.44	— 2.4	12	7,251	ne.	38	nw.	31	11	6	14	5.4	T.
Richmond	144	98	105	.....	.....	.....	41.4	.....	70	12	50	17	2	33	29	....	....	....	1.05	.....	11	4,144	sw.	30	sw.	23	8	7	16	6.6	3.0
S. Atlantic States.							50.7	+ 4.2										76	1.59	— 2.7										4.8	
Charlotte	773	68	76	29.26	30.11	— .07	45.0	+ 3.8	72	10	53	15	2	37	26	39	33	71	2.08	— 3.1	14	5,869	sw.	38	sw.	23	11	10	10	5.7	1.0
Hatteras	11	17	36	30.09	30.10	— .06	48.6	+ 2.9	70	20	54	25	2	43	25	47	44	85	2.21	— 3.7	11	11,574	n.	48	w.	31	14	9	8	4.8	T.
Kittyhawk	9	12	30	.....	.....	.....	47.2	+ 4.8	72	12	54	20	2	41	25	....	....	....	3.90	— 1.2	8	.....	.....	....	.....	...	18	4	9	....	
Raleigh	375	93	101	29.71	30.12	— .06	45.2	+ 4.4	73	12	53	16	2	37	29	39	34	71	1.81	— 1.8	11	5,294	w.	31	sw.	12	10	9	12	5.7	1.0
Wilmington	78	81	90	30.04	30.13	— .04	50.4	+ 3.5	76	12	60	18	2	41	27	45	42	81	1.40	— 2.5	6	7,121	w.	36	sw.	23	17	7	7	3.6	T.
Charleston	48	14	92	30.12	30.17	— .01	54.9	+ 4.9	77	10	62	27	2	48	21	48	42	69	0.19	— 3.8	4	7,853	sw.	30	w.	31	9	18	4	4.9	
Columbia	.....	5	....	.....	.....	.....	49.9	+ 4.2	78	15	60	17	2	40	34	....	....	....	1.78	— 2.0	9	.....	nw.	....	.....	...	9	12	10	....	0.2
Augusta	180	89	103	29.94	30.14	— .03	51.2	+ 4.6	77	11	61	18	2	42	33	45	40	72	1.72	— 2.8	10	5,151	w.	36	s.	23	12	5	14	5.6	T.
Savannah	82	63	89	30.07	30.16	— .04	55.5	+ 4.5	79	11	65	23	2	46	29	48	44	74	0.36	— 2.9	8	6,744	nw.	30	nw.	23	16	8	7	4.2	
Jacksonville	43	69	84	30.12	30.17	— .01	59.2	+ 4.0	81	25	69	24	2	50	28	52	50	81	0.43	— 2.8	7	5,216	sw.	24	se.	20	13	16	2	4.3	
Florida Peninsula.							65.7	+ 1.0										79	0.37	— 2.3										3.3	
Jupiter	28	13	30	30.14	30.17	+ .01	64.8	— 0.9	83	23	72	31	3	58	26	59	56	77	0.36	— 3.1	6	6,638	nw.	30	s.	22	15	13	3	3.8	
Key West	22	42	50	30.16	30.18	+ .04	70.0	+ 0.3	82	19	74	46	3	66	15	64	62	79	0.34	— 1.8	5	7,103	ne.	40	n.	1	21	7	3	3.1	
Tampa	36	60	67	30.14	30.18	.00	62.2	+ 3.5	82	21	72	27	3	53	28	55	52	80	0.42	— 2.1	5	4,426	nw.	24	nw.	1	14	16	1	3.2	
East Gulf States.							54.7	+ 4.5										82	2.67	— 2.5										5.7	
Atlanta	1,131	92	126	28.93	30.16	— .05	46.9	+ 4.4	73	11	54	17	2	40	27	43	41	84	2.99	— 3.2	11	8,645	nw.	43	sw.	22	8	7	16	6.3	0.8
Pensacola	56	78	90	30.11	30.17	— .02	56.4	+ 3.9	72	11	63	20	2	50	24	52	49	80	1.75	— 2.9	14	6,680	n.	34	w.	19	13	8	10	5.0	
Mobile	57	88	96	30.11	30.17	— .02	54.9	+ 4.4	73	25	63	20	2	47	27	51	49	85	2.15	— 3.0	15	5,942	nw.	34	se.	19	8	6	17	6.4	
Montgomery	221	100	107	29.91	30.15	— .05	52.7	+ 4.4	79	12	61	18	2	44	31	49	46	83	1.52	— 3.8	13	5,667	w.	35	w.	19	11	5	15	5.8	
Vicksburg	254	65	73	29.83	30.10	— .09	52.9	+ 5.6	80	11	60	24	2	45	26	50	47	85	7.78	+ 2.2	14	6,770	s.	43	w.	22	10	10	11	5.6	
New Orleans	54	112	120	30.10	30.16	.00	58.6	+ 4.8	78	11	66	30	2	52	28	53	49	78	1.71	— 3.5	15	7,667	s.	30	ne.	19	13	7	11	5.2	
Port Eads	.....	27	....	.....	.....	.....	60.4	+ 3.7	75	10	67	31	2	54	28	....	....	....	0.80	— 3.6	9	.....	s.	....	.....	...	12	3	16	....	
West Gulf States.							52.6	+ 6.0										77	4.03	+ 0.5										5.9	
Shreveport	249	77	84	29.82	30.10	— .09	52.5	+ 6.6	80	9	61	24	2	44	29	46	41	72	5.79	+ 1.2	13	6,213	se.	36	nw.	25	10	9	12	5.8	
Fort Smith	481	63	72	29.54	30.07	— .11	44.4	+ 8.3	73	11	53	21	2	36	34	40	36	78	2.97	+ 0.6	11	5,726	e.	48	sw.	12	12	5	14	5.6	
Little Rock	302	71	79	29.78	30.11	— .09	46.0	+ 5.2	72	9	53	19	2	39	28	42	38	78	8.10	+ 3.2	12	5,680	w.	29	sw.	25	7	5	19	7.0	
Corpus Christi	20	42	50	30.08	30.10	— .07	59.5	+ 4.0	77	11	66	36	2	53	26	55	52	81	0.69	— 2.2	12	7,899	se.	39	w.	19	12	8	11	5.1	
Galveston	42	85	96	30.05	30.09	— .07	57.4	+ 4.7	70	30	62	36	1	52	21	54	52	84	4.48	+ 0.8	15	8,536	se.	37	nw.	25	8	9	14	5.9	
Palestine	510	54	61	29.54	30.10	— .10	52.2	+ 8.4	76	10	60	25	2	44	31	48	45	82	5.70	+ 1.4	12	6,007	s.	28	sw.	12	7	8	16	6.5	
San Antonio	704	95	104	29.34	30.09	— .08	56.0	+ 4.5	82	30	66	27	2	46	34	48	42	66	0.46	— 1.2	8	6,589	ne.	42	n.	25	11	8	12	5.1	
Ohio Val. & Tenn.							39.6	+ 5.3										79	7.11	+ 2.9										6.8	
Chattanooga	762	106	112	29.32	30.15	— .04	45.8	+ 4.8	75	11	53	19	2	38	26	41	37	74	5.38	— 1.2	17	6,614	sw.	58	sw.	22	4	17	10	6.1	0.6
Knoxville	1,004	10	93	29.04	30.14	— .06	43.3	+ 5.6	70	12	51	19	2	35	31	40	38	86	7.68	+ 2.2	16	6,998	sw.	54	sw.	20	13	3	15	5.7	1.3
Memphis	399	140	154	29.67	30.11	— .08	46.7	+ 6.8	70	9	54	18	2	40	22	42	38	74	10.72	+ 5.2	11	8,734	sw.	52	w.	25	9	8	14	6.1	
Nashville	545	128	134	29.51	30.10	— .07	45.1	+ 6.9	70	12	53	17	2	37	27	40	35	73	9.46	+ 4.4	12	6,449	nw.	37	sw.	22	8	9	14	6.2	1.4
Lexington	989	75	104	28.98	30.07	— .06	38.0	+ 4.7	68	12	45	11	2	31	31	34	30	75	9.56	+ 5.4	16	10,657	sw.	60	sw.	23	5	6	20	7.6	3.9
Louisville	525	114	136	29.49	30.08	— .10	39.9	+ 5.8	70	12	47	15	2	33	29	35	30	73	9.04	+ 5.0	13	8,135	w.	53	w.	25	6	8	17	7.0	0.4
Evansville	434	72	82	.....	.....	.....	39.6	.....	68	12	45	15	2	34	22	....	....	....	6.97	.....	12	6,589	sw.	45	sw.	20	9	9	13	6.0	T.
Indianapolis	823	154	164	29.15	30.07	— .09	33.8	+ 5.5	67	12	40	5	2	27	26	30	27	79	4.93	+ 2.0	15	9,396	w.	56	sw.	23	5	9	17	6.9	1.4
Cincinnati	628	152	157	29.38	30.08	— .09	37.2	+ 4.7	68	12	43	11	2	31	29	34	31	81	7.76	+ 4.3	13	7,761	w.	44	sw.	25	8	7	16	6.1	0.4
Columbus	824	87	100	29.14	30.06	— .09	33.2	+ 4.8	66	12	40	0	2	27	28	31	28	84	5.29	+ 2.0	14	7,189	nw.	36	se.	22	5	7	19	7.3	1.1
Pittsburg	842	116	123	29.11	30.05	— .10	35.3	+ 4.7	67	12	42	10	2	29	31	33	30	82	3.40	+ 0.2	18	6,176	sw.	36	sw.	23	1	9	21	8.2	3.9
Parkersburg	638	77	84	29.38	30.10	— .05	36.8	+ 4.1	70	12	44	5	2	29	32	34	31	84	5.73	+ 2.6	16	3,521	nw.	28	sw.	23	3	6	22	8.1	3.9
Lower Lake Region.							29.2	+ 3.9										80	3.88	+ 1.2										8.0	
Buffalo	768	178	206	29.13	30.00	— .09	28.3	+ 3.9	58	12	34	3	30	23	26	26	22	76	4.51	+ 1.5	20	12,195	w.	68	w.	23	1	11	19	8.1	14.0
Oswego	335	76	87	29.60	29.99	— .10	24.8	— 0.5	54	12	32	— 8	30	18	31	23	20	83	5.16	+ 2.2	21	10,000	se.	41	w.	8	5	2	24	8.0	22.6
Rochester	523	81	90	29.39	29.98	— .11	27.6	+ 3.7	57	12	34	2	2	22	26	25	21	79	5.24	+ 2.1	22	6,594	sw.	36	sw.	20	0	8	23	8.4	32.1
Erie	714	92	102	29.20	30.01	— .09	30.9	+ 4.0	63	12	36	10	30	26	20	29	25	83	3.41	— 0.1	18	9,830	w.	50	s.	20	0	7	24	8.2	6.0
Cleveland	762	190	201	29.16	30.02	— .09	31.6	+ 5.4	64	12	38	9	31	26	23	28	25	77	3.51	+ 1.0	16	13,336	w.	72	w.	23	4	7	20	7.8	6.9
Sandusky	629	62	74	29.31	30.03	— .09	31.9	+ 5.4	65	12	38	9	2	26	28	29	26	79	2.93	+ 0.7	12	7,991	w.	44	w.	23	4	3	24	8.0	1.4
Toledo	674	122	127	29.26	30.02	— .09	30.6	+ 4.5	64	12	36	7	1	25	25	27	24	80	2.96	+ 0.9	12	8,381	w.	48	sw.	23	3	9	19	7.6	3.4
Detroit	730	160	166	29.19	30.02	— .08	28.2	+ 3.7	57	12	34	2	31	22	26	26	23	84	3.32	+ 1.4	11	8,190	w.	41	sw.	23	4	6	21	7.6	11.4
Upper Lake Region.							23.6	+ 5.6										83	2.39	+ 0.3										6.8	
Alpena	609	61	65	29.29	29.99	— .07	22.7	+ 4.6	38	5	29	— 7	30	16	27	21	18	80	3.43	+ 1.0	16	7,136	nw.	36	ne.	23	3	14	14	7.0	31.9
Grand Haven	628	55	64	29.28	29.99	— .08	29.2	+ 5.0	50	12	35	8	31	23	24	27	24	84	3.85	+ 1.2	15	8,362	nw.	42	nw.	23	2	7	22	8.3	27.9
Marquette	734	67	95	29.13	29.97	— .08	22.0	+ 6.0	39	9	28	2	29	16	20	20	18	88	1.43	— 0.6	16	8,105	nw.	39	nw.	31	2	8	21	7.8	17.6
Port Huron	639	70	108	29.28	30.01	— .09	27.2	+ 5.4	52	12	33	3	30	21	26	25	21	80	2.97	+ 0.9	13	9,401	nw.	56	w.	23	2	12	17	7.0	11.5
Sault Ste. Marie	624	58	65	29.26	29.99	— .03	15.9	+ 1.6	36	9	25	—12	30	7	30	15	13	87	1.20	— 0.6	17	6,442	e.	45	nw.	8	2	7	22	7.8	11.6
Chicago	824	241	274	29.12	30.04	— .07	28.6	+ 5.2	55	12	34	6	2	23	25	27	25	86	3.54	+ 1.4	11	13,236	w.	66	ne.	22	12	9	10	5.2	15.9
Milwaukee	671	106	149	29.28	30.04	— .06	26.0	+ 6.6	43	5	32	2	31	20	24	24	21	81	3.52	+ 1.4	12	8,029	nw.	42	n.	23	9	3	19	6.6	35.4
Greenbay	617	49	57	29.32	30.03	— .08	21.4	+ 7.2	39	9	29	— 1	31	14	23	19	16	82	1.20	— 1.2	7	6,008	s.	33	n.	23	7	12	12	6.0	7.0
Duluth	702	95	106	29.20	30.01	— .10	19.0	+ 8.6	38	9	26	— 6	1	12	22	18	15	81	0.38	— 0.7	6	5,877	sw.	36	w.	23	8	17	6	5.2	3.7
North Dakota.							17.6	+15.1										78	0.12	— 0.5										4.0	
Moorhead	935	54	60	28.96	30.06	— .11	16.0	+16.9	40	5	27	—11	29	5	44	14	12	90	0.15	— 0.6	5	7,000	se.	34	se.	29	6	21	4	5.0	1.5
Bismarck	1,674	16	29	28.20	30.09	— .10	17.8	+18.3	46	3	30	—10	25	6	40	13	5	61	0.20	— 0.4	4	5,421	nw.	40	w.	27	25	2	4	3.3	2.0
Williston	1,875	15	31	27.94	30.05	— .12	19.0	+15.1	42	8	30	— 4	24	8	41	16	13	83	0.01	— 0.6	1	4,930	sw.	48	nw.	27	20	10	1	3.8	0.1
Upper Miss. Valley.							28.8	+ 7.7										79	2.83	+ 1.1										5.5	
Minneapolis	.....	99	...	.....	.....	.....	23.0	+11.1	43	5	31	— 2	1	15	26	....	....	....	0.05	— 0.8	3	.....	nw.	....	.....	...	5	18	8	....	0.6
St. Paul	837	114	124	29.09	30.05	— .10	22.6	+12.0	43	5	30	— 2	1	15	25	20	16	79	0.04	— 0.9	2	5,270	nw.	30	nw.	30	10	14	7	5.0	0.4
La Crosse	720	70	78	.....	.....	.....	22.0	+ 7.3	41	7	30	— 1	31	14	25	....	....	....	0.74	— 0.5	4	4,708	s.	30	w.	28	9	8	14	6.1	4.5
Davenport	599	71	79	29.36	30.05	— .10	26.3	+ 6.3	45	5	34	4	31	19	30	24	21	80	3.68	+ 2.0	8	5,623	nw.	29	ne.	25	10	6	15	5.9	21.8
Des Moines	867	84	88	29.12	30.11	— .07	25.6	+ 8.1	43	7	34	2	1	18	29	23	19	75	1.59	+ 0.2	9	5,238	nw.	26	nw.	28	14	4	13	4.8	17.6

TABLE I.—*Climatological data for Weather Bureau Stations, January*, 1898—Continued.

Stations.	Elevation of instruments: Barometer above sea level, feet.	Elevation of instruments: Thermometers above ground.	Elevation of instruments: Anemometers above ground.	Pressure, in inches: Mean actual, 8 a. m. and 8 p. m. ÷ 2.	Pressure: Mean reduced.	Pressure: Departure from normal.	Temperature of the air, in degrees Fahrenheit: Mean max. and min. ÷ 2.	Temperature: Departure from normal.	Temperature: Maximum.	Temperature: Date.	Temperature: Mean maximum.	Temperature: Minimum.	Temperature: Date.	Temperature: Mean minimum.	Temperature: Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches: Total.	Precipitation: Departure from normal.	Precipitation: Days with .01, or more.	Wind: Total movement, miles.	Wind: Prevailing direction.	Wind: Maximum velocity: Miles per hour.	Wind: Maximum velocity: Direction.	Wind: Maximum velocity: Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
Up. Miss. Val.—Con																															
Dubuque	698	101	110	29.26	30.06	— .07	24.1	+ 6.8	44	7	32	4	2	16	27	21	18	80	2.19	+ 0.5	9	5,159	nw.	30	nw.	31	13	6	12	5.0	15.1
Keokuk	614	64	78	29.38	30.07	— .08	30.0	+ 6.8	52	7	37	4	1	23	33	27	24	83	3.13	+ 1.4	11	5,909	sw.	30	sw.	2	13	4	14	5.1	14.3
Cairo	359	87	93	29.68	30.08	— .09	41.6	+ 6.9	70	9	49	12	2	34	24	38	35	83	6.26	+ 2.4	12	7,493	sw.	56	sw.	22	5	15	11	6.3	0.4
Springfield, Ill	644	82	92	29.34	30.06	— .11	32.2	+ 6.7	58	12	38	7	2	27	25	29	25	78	5.81	+ 3.8	12	7,732	nw.	34	sw.	25	9	10	12	6.1	4.7
Hannibal	534	75	107	.....	.....	.....	32.2	+ 6.3	56	7	40	6	1	24	35	....	....	...	3.64	+ 2.1	11	7,014	sw.	39	ne.	22	14	5	12	5.2	11.5
St. Louis	567	111	210	29.45	30.08	— .08	37.3	+ 6.8	63	12	44	10	2	31	29	34	29	75	4.53	+ 2.4	11	8,344	w.	66	sw.	25	11	7	13	5.8	0.9
Missouri Valley.							29.3	+ 9.2										78	1.48	+ 0.4										5.0	
Columbia	.....	4	84	.....	.....	.....	34.2	+ 4.2	63	7	44	8	1	25	39	....	....	....	3.37	+ 1.5	10	7,310	e.	38	sw.	25	8	6	17	6.5	6.9
Kansas City	963	78	95	29.04	30.11	— .09	32.4	+ 7.0	58	7	39	12	26	26	28	29	25	77	4.12	+ 2.9	10	5,195	nw.	33	s.	7	9	7	15	6.2	21.9
Springfield, Mo	1,324	100	103	28.61	30.06	— .10	37.7	+ 5.4	62	9	44	12	1	31	30	34	30	77	3.06	+ 0.7	11	8,889	se.	48	w.	25	4	13	14	6.5	1.5
Topeka	.....	81	....	.....	.....	.....	31.7	+ 4.9	59	7	39	10	23	24	31	....	....	....	2.18	+ 1.0	9	.....	n.	....	.....	...	9	10	12	....	11.9
Lincoln	1,199	74	84	28.75	30.09	.....	29.3	+11.6	49	9	37	8	23	22	25	25	21	73	0.83	+ 0.1	7	6,405	se.	34	nw.	30	14	7	10	5.0	8.3
Omaha	1,103	92	97	28.86	30.10	— .10	28.3	+ 9.1	45	9	35	8	26	22	21	26	22	80	0.62	— 0.1	7	4,844	nw.	24	n.	25	14	4	13	5.0	6.1
Sioux City	1,139	96	164	.....	.....	.....	24.0	+ 7.7	40	5	32	1	29	16	30	...	...	....	0.27	— 0.6	5	7,529	nw.	43	nw.	28	15	4	12	4.8	4.3
Pierre	1,460	50	61	28.42	30.06	— .14	26.0	+13.3	53	3	38	4	31	14	37	22	18	80	0.01	— 0.5	1	4,827	se.	36	nw.	28	16	11	4	3.5	0.1
Huron	1,306	56	67	28.61	30.09	— .12	23.3	+16.3	47	5	34	— 2	29	12	38	20	17	83	0.01	— 0.5	1	7,215	se.	38	nw.	30	17	10	4	4.1	0.1
Yankton	1,234	52	58	.....	.....	.....	26.3	+12.1	48	3	36	— 1	29	17	32	....	....	....	0.34	— 0.2	4	5,334	nw.	28	nw.	28	20	6	5	3.3	4.6
Northern Slope.							22.1	+ 5.0										72	0.33	— 0.3										4.3	
Havre	2,494	46	47	27.25	30.01	— .04	21.6	+11.9	41	2	32	—14	24	12	42	19	16	81	0.17	— 0.7	5	7,972	sw.	39	sw.	8	12	13	6	4.6	1.7
Miles City	2,372	41	49	27.44	30.07	— .11	22.0	+11.4	44	8	32	—10	25	12	32	18	15	83	0.17	— 0.4	6	3,976	s.	30	w.	30	14	10	7	4.5	1.7
Helena	4,108	88	93	25.80	30.19	+ .07	23.2	+ 6.1	41	5	30	— 1	24	16	27	21	15	68	0.20	— 1.2	5	4,862	sw.	34	sw.	27	9	12	10	5.4	2.6
Rapid City	3,251	46	50	26.55	30.08	— .10	25.4	+ 5.2	57	2	36	4	25	14	36	21	15	72	0.56	+ 0.2	5	4,679	w.	36	nw.	3	15	10	6	4.1	5.8
Cheyenne	6,105	58	60	23.89	30.21	+ .02	24.9	— 0.1	58	2	36	— 9	26	14	42	19	5	48	0.48	+ 0.1	3	8,539	nw.	49	nw.	29	14	10	7	4.5	4.8
Lander	5,372	28	36	24.59	30.33	+ .11	10.6	— 6.2	46	6	24	—22	26	— 3	39	6	3	82	0.33	— 0.5	2	1,826	sw.	12	se.	30	18	9	4	3.2	3.3
North Platte	2,826	43	52	27.06	30.16	— .05	26.8	+ 6.8	59	3	38	— 6	26	15	37	21	15	69	0.77	+ 0.3	4	5,304	w.	27	nw.	25	21	6	4	3.6	9.6
Middle Slope.							31.7	+ 3.6										70	1.69	+ 0.8										4.9	
Denver	5,290	79	151	24.64	30.19	.00	29.2	+ 1.0	63	3	41	— 3	25	17	44	23	12	53	0.20	— 0.4	2	5,334	s.	36	nw.	5	10	17	4	4.5	3.0
Pueblo	4,713	74	81	25.25	30.20	.00	26.5	— 2.2	67	2	43	—11	26	11	54	20	12	59	0.69	+ 0.3	4	4,510	nw.	33	n.	14	13	13	5	4.4	7.6
Concordia	1,398	42	44	28.55	30.11	— .11	30.8	+ 7.6	64	3	40	5	26	22	35	27	24	82	1.15	+ 0.4	6	3,569	sw.	24	sw.	7	10	8	13	5.5	11.5
Dodge City	2,504	44	52	27.39	30.13	— .05	29.1	+ 2.5	66	2	40	0	26	18	50	24	19	74	1.74	+ 1.3	7	5,647	nw.	34	nw.	25	14	10	7	4.5	19.7
Wichita	1,351	78	85	28.60	30.09	— .07	34.3	+ 3.7	63	7	42	11	23	26	30	30	25	74	1.97	+ 0.9	8	5,750	nw.	28	nw.	25	10	8	13	5.7	10.8
Oklahoma	1,218	54	62	28.75	30.09	— .09	40.4	+ 9.3	74	11	49	17	1	32	34	36	32	77	4.38	+ 2.5	10	7,974	n.	38	nw.	11	13	7	11	5.0	6.0
Southern Slope.							40.9	+ 4.2										64	0.80	0.0										4.6	
Abilene	1,749	47	54	28.24	30.13	— .07	46.8	+ 4.0	75	24	57	21	1	36	33	39	32	64	0.75	— 0.2	6	7,427	sw.	60	w.	25	11	13	7	4.6	3.0
Amarillo	3,691	54	61	26.22	30.13	— .05	35.0	+ 4.4	71	7	46	9	16	24	45	28	19	63	0.86	+ 0.3	7	10,637	s.	56	sw.	11	14	6	11	4.5	5.8
Southern Plateau.							40.9	— 3.1										52	0.82	+ 0.3										3.8	
El Paso	3,767	10	110	26.20	30.13	.00	42.0	— 2.5	71	7	55	17	25	28	46	32	18	47	0.25	— 0.3	6	7,880	nw.	62	sw.	24	16	9	6	3.8	0.1
Santa Fe	6,998	47	50	23.17	30.17	.00	24.6	— 3.3	48	6	34	— 6	25	15	27	20	10	56	0.97	+ 0.4	11	4,280	ne.	27	sw.	10	15	9	7	4.5	8.9
Phœnix	1,076	47	57	28.89	30.05	.....	47.2	— 2.2	73	1	58	23	25	36	31	39	30	56	1.63	+ 1.1	7	3,046	e.	23	e.	1	15	6	10	4.8	
Yuma	139	16	50	29.92	30.07	+ .01	49.8	— 4.3	76	1	61	26	22	39	35	41	29	48	0.42	0.0	5	5,724	n.	36	n.	18	22	4	5	2.8	
Middle Plateau.							21.0	— 8.0										73	0.58	— 1.1										4.9	
Carson City	4,720	82	92	25.29	30.26	.....	24.3	— 7.6	57	5	38	— 5	8	11	46	20	13	65	0.52	— 2.0	8	3,315	ne.	34	w.	16	12	17	2	4.4	7.3
Winnemucca	4,340	59	70	25.70	30.29	+ .09	18.0	— 9.0	47	4	31	—16	24	5	40	....	15	77	0.64	— 0.5	7	.....	.....	...	.....	...	8	15	8	5.1	7.7
Salt Lake City	4,344	83	90	25.71	30.36	+ .11	20.6	— 7.3	48	6	29	— 3	26	12	29	18	14	76	0.58	— 0.9	9	3,169	se.	22	nw.	20	12	6	13	5.1	5.8
Northern Plateau.							21.6	+ 1.8										34	1.48	— 0.8										6.8	
Baker City	3,470	49	55	26.52	30.29	+ .05	20.0	— 2.8	39	5	28	— 4	24	12	26	18	14	76	0.82	— 0.8	13	4,086	s.	22	se.	18	2	14	15	7.1	8.2
Idaho Falls	4,742	10	56	25.29	30.42	+ .18	8.4	— 7.7	36	6	20	—33	24	— 3	39	7	4	86	1.76	— 0.6	15	4,846	n.	37	sw.	22	12	3	16	5.8	20.5
Spokane	1,943	99	107	28.05	30.19	+ .08	26.0	+ 1.5	40	31	32	2	24	20	20	26	23	85	1.45	— 1.1	11	2,991	s.	24	s.	8	3	5	23	8.2	13.2
Walla Walla	1,018	65	73	29.06	30.20	+ .04	32.2	+ 1.7	50	29	37	16	25	27	25	31	29	89	1.88	— 0.6	13	3,636	s.	24	s.	18	3	15	13	6.3	4.9
N. Pac. Coast Reg.							39.8	+ 0.9										83	4.98	— 3.1										7.5	
Fort Canby	179	10	34	29.90	30.10	+ .08	41.1	+ 0.2	52	1	44	30	*	38	10	39	37	84	6.17	— 2.3	26	10,145	e.	69	se.	18	6	7	18	7.5	2.1
Port Angeles	29	47	62	.....	.....	.....	38.6	+ 3.1	49	17	44	26	24	34	15	....	....	....	2.39	— 3.1	15	3,927	w.	30	w.	23	0	18	13	7.3	2.8
Pysht	.....	5	....	.....	.....	.....	38.6	+ 2.2	48	14	43	26	10	34	15	....	....	....	5.10	— 5.7	21	.....	e.	....	.....	...	2	1	28	....	2.0
Seattle	119	100	108	29.98	30.11	.....	39.9	+ 0.9	51	31	44	27	24	36	18	38	35	82	1.99	— 3.3	19	4,513	se.	26	s.	21	4	9	18	7.2	1.7
Tacoma	213	113	120	.....	.....	.....	38.4	+ 0.4	49	14	43	24	10	34	16	....	....	....	3.01	— 3.4	22	4,325	sw.	30	sw.	21	2	6	23	8.0	2.3
Tatoosh Island	86	7	21	29.98	30.08	+ .06	41.6	+ 1.0	50	1	44	31	24	39	10	40	36	80	10.86	— 1.9	26	10,789	e.	53	w.	21	2	5	24	8.3	4.3
Astoria	.....	18	....	.....	.....	.....	41.4	+ 0.9	51	16	46	27	25	37	17	....	....	....	7.51	— 3.1	21	.....	e.	....	.....	...	4	6	21	....	2.0
Portland, Oreg	153	203	213	29.98	30.15	+ .06	39.0	+ 0.6	50	30	43	25	25	35	12	37	34	82	3.91	— 3.2	20	6,230	se.	36	s.	13	4	10	17	7.1	1.8
Roseburg	521	56	67	29.60	30.18	+ .05	39.4	— 0.9	55	30	44	22	24	34	20	38	35	87	3.90	— 2.3	17	2,070	e.	16	sw.	18	3	13	15	7.1	11.3
Mid. Pac. C'st Reg.							44.3	— 2.8										72	1.50	— 4.0										4.8	
Eureka	64	60	69	30.14	30.20	+ .10	44.1	— 2.2	60	1	50	30	26	38	22	41	38	82	3.23	— 5.2	18	3,985	se.	36	ne.	23	7	11	13	6.0	
Redbluff	334	54	58	29.81	30.18	+ .04	42.4	— 2.5	65	2	52	24	12	33	31	37	29	64	0.59	— 4.1	5	3,986	n.	25	n.	25	17	8	6	3.5	0.5
Sacramento	71	106	117	30.08	30.16	+ .02	42.0	— 3.6	59	3	52	26	11	33	26	38	33	70	0.98	— 2.8	6	6,280	n.	30	n.	7	16	8	7	4.2	T.
San Francisco	153	161	167	30.00	30.17	+ .04	46.7	— 3.4	59	2	52	36	25	42	17	43	38	72	1.12	— 3.6	8	5,559	n.	32	nw.	22	9	11	11	5.6	
Point Reyes Light	.....	12	....	.....	.....	.....	46.2	— 2.4	66	2	51	33	12	42	21	....	....	....	1.60	— 4.4	9	.....	nw.	....	.....	...	15	7	9	....	
S. Pac. Coast Reg.							47.9	— 2.7										67	1.19	— 1.6										4.6	
Fresno	332	67	70	29.76	30.12	— .03	41.7	— 2.8	64	5	52	24	24	32	33	38	32	73	0.42	— 0.9	7	3,248	nw.	32	nw.	23	11	7	13	5.4	
Los Angeles	330	74	82	29.73	30.09	.00	51.5	— 1.6	84	1	61	31	26	42	32	44	37	65	1.26	— 1.7	6	3,620	ne.	24	e.	12	12	10	9	4.4	
San Diego	87	94	102	29.99	30.09	— .01	50.8	— 2.8	78	1	58	36	24	43	28	45	40	70	1.71	— 0.3	12	4,262	e.	26	se.	12	19	3	9	3.7	
San Luis Obispo	201	10	46	29.92	30.14	.....	47.6	— 3.5	80	1	60	25	11	35	50	41	33	60	1.37	— 3.3	8	3,353	n.	23	nw.	23	13	11	7	4.7	

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 dates. † Received too late to be considered in departures, etc.

TABLE II.—*Meteorological record of voluntary and other cooperating observers, January, 1898.*

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Alabama.	°	°	°	*Ins.*	*Ins.*
Alco†	81	16	54.4	1.89	
Ashville †	75	17	47.7	5.48	T.
Bermuda†	79[c]	16[c]	53.2[c]	2.44	
Birmingham†	76	17	51.0	5.18	.....
Bridgeport†	.....	.....	.....	6.90	T.
Citronelle†	77	20	55.6	2.86	
Clanton †	74	16	48.7	0.82	
Daphne†	80	19	53.2	2.33	
Decatur†	77	14	45.8	6.46	
Elba†	78	16	52.5	3.32	
Eufaula *a*†	81	17	52.1	1.26	
Eufaula *b*	.....	.....	.....	1.31	
Evergreen	77	20	51.1	1.68	
Florence *a*†	.....	.....	.....	6.99	
Florence *b*†	76	19	47.8	7.29	
Fort Deposit	77	16	52.6	1.88	
Gadsden	74[f]	18[f]	47.4[f]	4.88	
Goodwater	84	15	49.6	1.45	
Greensboro†	78	15	49.5	2.37	
Hamilton	75	11	46.6	8.04	
Healing Springs†	80	15	52.4	2.75	
Highland Home †	76	17	53.6	2.06	
Jasper	78	15	46.0	7.65	
Livingston	77	16	52.4	2.50	
Lock No. 4	74	16	45.6	4.67	T.
Madison Station †	75	15	44.0	6.14	
Maple Grove [g]	79	17	50.5	4.37	
Marion†	75	14	50.6	2.95	
Mount Willing†	88	14	56.2	2.20	
Newbern†	85	15	51.4	2.42	
Newburg	.....	.....	.....	7.36	
Newton†	80	15	51.2	2.73	
Oneonta	73[g]	16[g]	44.4[g]	4.67	T.
Opelika†	74	11	50.4	4.89	
Oxanna†	71	13	46.0	3.00	
Pineapple	81	18	49.6	3.65	
Pushmataha†	78	17	52.4	3.55	
Riverton†	76	18	44.8	8.28	
Rockmills†	74	13	50.3	3.18	
Scottsboro†	78	18	45.2	4.61	1.8
Selma †	80	17	50.8	2.04	
Sturdevant	.....	.....	.....	2.67	
Talladega *[1]	74	16	49.4	3.62	
Tallassee	.....	.....	.....	2.12	
Thomasville	85[f]	15[f]	47.2[f]	3.13	
Tuscaloosa†	76	18	49.8	6.65	
Tuscumbia	76	18	46.6	6.47	
Union†	80	13	52.4	5.46	
Union Springs†	77	15	50.4	2.30	
Uniontown†	.....	.....	.....	2.50	
Valleyhead	74	11	44.9	6.08	1.0
Warrior	.....	.....	.....	6.97	
Wetumpka	78	16	50.4	2.12	
Wilsonville†	.....	.....	.....	3.72	
Arizona.					
Arizona Canal Co. Dam	76	26	48.6	2.13	
Benson *[8]	67	17	45.8	.....	5.0
Bisbee†	62	14	40.4	2.57	12.0
Buckeye†	83	18	48.3	1.70	
Calabasas	70	14	41.9	1.81	3.5
Camp Creek	70	20	43.7	2.81	1.2
Casa Grande *[8]	63	33	49.1	.....	.....
Cedar Springs	64	4	37.2	2.89	27.9
Congress	72	23	43.8	1.94	4.0
Dragoon	.....	.....	.....	3.22	
Dragoon Summit *[5]	64	13	40.8	0.81	3.0
Dudleyville	68	21	41.9	2.80	6.0
Empire Ranch	62	4	37.6	2.94	21.0
Farleys Camp†	77	19	44.1	3.30	3.0
Flagstaff †	65	—22	25.8	5.40	54.0
Fort Apache	60	—15	27.6	.....	.....
Fort Defiance	46	—23	19.4	2.00	15.0
Fort Grant †	65	12	39.8	2.23	9.0
Fort Huachuca †	66	10	39.4	2.48	.....
Fort Mohave	74	22	45.8	0.00	
Gilabend *a* *[8]	76	28	48.8	1.65	
Gisela	66	14	38.0	3.03	1.5
Holbrook†	53	— 7	24.3	1.00	7.0
Jerome	61	9	35.2	1.82	10.2
Lochiel *[1]	65	8	38.3	.....	.....
Maricopa *[8]	76	26	51.7	0.93	
Mesa †	72	24	46.6	2.05	
Mount Huachuca	69	7	39.1	5.05	33.2
Music Mountain	65	10	36.7	0.63	1.0
Natural Bridge	.....	.....	.....	3.60	16.0
Oracle	65	11	37.9	3.72	15.0
Oro Blanco	73	12	41.0	4.01	12.5
Pantano *[8]	72	12	44.7	1.55	13.0
Parker	79	16	46.8	0.49	
Payson	.....	.....	.....	4.65	37.0
Peoria†	73	24	46.8	2.00	
Phœnix	80	18	45.9	1.52	
Pinal Ranch	.....	.....	.....	5.70	20.3
St. Helena Ranch	.....	.....	.....	3.83	30.0
San Carlos†	70	15	40.3	1.88	1.0
San Simon *[8]	72	12	37.0	.....	7.5
Arizona—Cont'd.	°	°	°	*Ins.*	*Ins.*
Signal†	74	21	44.2	1.37	
Snowflake	51	—16	23.0	1.47	14.8
Strawberry	60	—15	26.6	5.10	22.3
Sulphur Spring Valley	.....	.....	.....	1.27	8.0
Texas Hill *[8]	71	28	47.0	.....	.....
Tombstone	65	12	41.0	0.99	7.5
Tuba	50	— 7	23.2	0.78	7.8
Tucson *c*†	73	17	46.2	1.10	6.0
Walnut Grove	.....	.....	.....	2.00	T.
Whipple Barracks†	63	—10	26.8	1.97	11.4
White Hills	67	15	36.8	0.87	1.0
Willcox *[8]	60	15	35.9	1.25	4.0
Williams	55	—16	26.4	3.00	30.0
Arkansas.					
Amity	78	15	46.8	7.14	
Arkansas City†	.....	.....	.....	8.65	
Beebranch	81[f]	23[f]	45.4[f]	6.50	
Blanchard Springs†	77	15	49.2	8.80	
Camden *a*†	.....	.....	.....	10.85	
Camden *b*†	78	20	48.5	10.55	
Canton *[1]	67	12	41.2	.....	
Conway	73	14	46.2	6.96	
Dallas	70	17	45.0	4.45	
Dardanelle	.....	.....	.....	4.81	
Elon†	78	.....	.....	8.43	
Fayetteville†	73	15	41.5	4.62	T.
Forrest	71	15	46.2	9.10	
Fulton†	.....	.....	.....	8.99	
Hardy	73	12	41.0	5.19	
Helena *a*†	.....	.....	.....	14.22	
Helena *b*	74	18	49.6	12.81	
Hot Springs *a*	75	14	47.4	6.97	
Hot Springs *b*	.....	.....	.....	7.87	
Jonesboro	66	12	42.8	9.25	
Keesees Ferry†	72	10	42.8	3.57	
Lacrosse†	63	10	40.2	4.63	
Lonoke *[1]	72	20	47.2	12.00	
Luna Landing *[6]	76	17	51.0	8.13	
Lutherville *[1]	74	17	45.9	.....	
Magnolia	79	19	51.3	8.37	
Malvern†	74	16	44.2	9.37	
Marianna *[1]	70	20	48.4	.....	
Marvell	72	17	48.2	12.18	
Monticello	77	19	49.2	9.34	
Moore	.....	.....	.....	9.48	
Mossville	67	11	41.3	6.02	
Mount Nebo†	64	17	41.8	4.52	
New Gascony *[1]	75	16	46.9	12.67	
Newport *a*†	.....	.....	.....	8.96	
Newport *b*†	75	10	41.9	8.68	
Newport *c*†	73	13	44.0	9.00	
Oregon *[1]	68	12	39.0	.....	
Osceola	71	15	44.0	12.38	
Ozark†	73	18	45.6	4.50	
Picayune†	78	20	47.2	6.70	
Pinebluff†	76	18	48.8	14.50	
Pocahontas†	72	12	41.6	6.07	
Powell *†[1]	73	12	41.2	3.75	
Prescott	.....	.....	.....	10.20	
Rison	76	16	48.2	11.30	
Russellville	71	16	43.1	4.65	
Silver Springs †	69	13	40.2	5.29	T.
Spielerville	71	17	44.0	3.80	
Stamps	80	16	50.4	8.82	
Stuttgart†	74	16	46.4	13.10	
Texarkana†	78	17	47.2	7.00	
Warren†	77	16	50.2	10.97	
Washington *†[1]	76	22	48.6	8.75	
Wiggs *[1]	70	14	47.3	8.29	
Winslow	67	13	39.9	3.66	
Witts Springs †	70	13	41.9	2.11	
California.					
Agnew	62	25	43.4	1.47	
Arlington Heights	83	30	48.2	1.74	
Athlone *[8]	64	21	41.2	0.79	
Ballast Point L. H	.....	.....	.....	1.93	
Bear Valley	.....	.....	.....	3.00	23.0
Berkeley	59	33	44.8	1.54	
Bishop†	63	6	32.6	0.05	0.5
Boca *[8]	52	1	18.4	1.55	15.0
Bodie†	43	—24	13.9	0.90	6.0
Bowmans Dam *†[1]	68	9	31.6	3.01	26.0
Caliente *[8]	65	28	45.5	1.67	
Campbell	61	25	42.4	1.43	
Cape Mendocino L. H	.....	.....	.....	4.55	
Castle Pinckney *[1]	76	36	50.6	0.85	
Cedarville†	48	— 5	23.4	0.75	12.0
Centerville *[1]	66	32	48.5	1.71	
Chico *[8]	66	25	42.4	0.85	0.2
Chino *[6]	81	26	46.5	2.31	
Cisco *[8]	45	4	24.1	3.80	38.0
Claremont†	78	26	45.6	2.29	
Corning *[8]	60	24	38.0	0.20	0.5
Craftonville	70	28	44.7	2.17	
Crescent City†	60	28	43.6	3.43	T.
Crescent City L. H	.....	.....	.....	3.40	
California—Cont'd.	°	°	°	*Ins.*	*Ins.*
Daunt	.....	.....	.....	1.25	
Delano *[8]	63	26	43.0	0.78	
Delta *[8]	64	18	39.7	0.75	
Descanso *[5]	68	16	39.6	5.28	17.0
Drytown	68	21	41.1	1.40	
Dunnigan *[8]	60	23	42.4	2.03	.....
Durham *[1]	60	22	40.8	0.70	0.2
East Brother L. H	.....	.....	.....	0.95	
Edmanton *[1]	53	6	28.9	1.73	12.0
Elsinore	86	24	49.0	2.29	.....
Escondido	75	21	43.8	2.48	T.
Fallbrook *[1]	82	29	46.8	2.65	
Fordyce Dam	.....	.....	.....	2.75	33.0
Fort Bragg†	.....	.....	.....	1.46	T.
Fort Ross	66	32	47.0	2.01	
Fort Tejon	.....	.....	.....	1.89	24.0
Georgetown	69	20	39.5	2.13	2.5
Glendora	.....	.....	.....	2.22	
Goshen *[8]	68	18	40.5	0.31	
Grand Island *[5]	60	22	42.4	0.27	
Grass Valley	.....	.....	.....	1.82	2.0
Greenville†	54	— 3	27.6	0.82	7.0
Healdsburg *[1]	55	24	39.2	1.61	.....
Hill Ranch	80	25	50.6	0.63	1.0
Hollister	67	21	42.8	0.82	
Humboldt L. H	.....	.....	.....	3.83	
Indio *[8]	80	24	48.2	0.10	
Iowa Hill *[1]	65	20	36.3	2.04	2.0
Jackson	.....	.....	.....	1.47	0.5
Jolon	.....	.....	.....	0.85	.....
Keeler *[8]	57	22	36.4	.....	1.0
Keene *[8]	71	12	38.6	.....	9.0
Kennedy Gold Mine	64	22	40.2	1.71	
Kernville	.....	.....	.....	0.47	2.0
King City *[8]	72	19	44.2	0.54	
Kingsburg *[8]	65	20	41.0	0.60	
Kono Tayee	56	27	41.8	0.71	3.0
Lagrange *[5]	63	25	42.1	0.99	
Laporte *†[1]	55	10	27.9	2.53	25.5
Las Fuentes Ranch	.....	.....	.....	0.75	
Lemoore *a* *[8]	62	16	40.0	0.28	
Lick Observatory	62	17	35.7	2.30	8.0
Limekiln	68	26	44.2	.....	
Lime Point L. H	.....	.....	.....	1.49	
Lodi	60	25	41.5	1.05	T.
Los Alamos	.....	.....	.....	1.50	
Los Gatos *b*	59	31	43.2	1.57	
Lytton Springs	65	26	44.1	1.77	.....
McMullin *[1]	62	18	45.6	.....	
Malakoff Mine *[1]	70	18	37.5	2.28	8.0
Mammoth Tank *[8]	78	30	50.4	T.	
Mare Island L. H	.....	.....	.....	1.58	
Merced *[8]	64	28	41.4	0.86	
Mills College	.....	.....	.....	1.42	
Milton (near) *[1]	65	27	44.2	1.22	
Modesto *[8]	74	25	45.9	0.49	
Mohave *[8]	70	16	37.8	0.60	6.0
Mokelumne Hill *[3]	.....	26	38.5	1.62	.....
Monterey *[8]	68	29	48.8	0.89	
Mount Frazier	.....	.....	.....	0.95	4.0
Napa *b*	64	24	43.2	1.22	
Needles	73	26	47.8	0.35	
Nevada City	62	15	36.5	1.92	4.0
Newhall *[8]	75	19	41.6	0.45	2.0
North Ontario	80	26	46.2	2.30	
North San Juan *[1]	60	11	37.2	3.11	0.5
Oakland *a*	57	31	44.2	1.30	
Ogilby *[8]	85	35	52.2	0.00	
Oleta *[1]	62	22	37.8	1.64	T.
Orangevale†	58	24	43.1	0.88	
Orland *[8]	62	26	43.8	0.36	
Oroville *b*	59	26	43.0	1.01	
Palermo†	59	23	40.7	1.24	
Paso Robles *b*	65	23	42.6	0.82	
Peachland *[5]	62	26	44.0	2.15	1.0
Piedras Blancas L. H	.....	.....	.....	1.58	
Pigeon Point	.....	.....	.....	0.83	
Pine Crest	76	34	51.0	0.77	
Placerville	62	17	35.7	.....	.....
Point Ano Nuevo L. H	.....	.....	.....	1.46	
Point Arena L. H	.....	.....	.....	1.47	
Point Bonita L. H	.....	.....	.....	2.20	
Point Conception L. H	.....	.....	.....	1.35	
Point Fermin L. H	.....	.....	.....	3.60	
Point Hueneme L. H	.....	.....	.....	0.41	
Point Lobos	61	35	46.2	1.78	
Point Loma L. H	.....	.....	.....	0.87	
Point Montara L. H	.....	.....	.....	2.50	
Point Pinos L. H	.....	.....	.....	0.68	
Point Reyes L. H	.....	.....	.....	1.60	
Point Sur L. H	.....	.....	.....	1.56	
Pomona (near)	83	26	48.0	2.13	
Poway *[3]	78	27	42.8	2.78	
Quincy†	45	4	28.0	1.21	5.8
Redding *b*†	66	23	42.2	0.54	0.2
Represa	58	22	40.2	0.79	

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
California—Cont'd.	°	°	°	*Ins.*	*Ins.*
Rio Vista	61	24	42.0	1.26	
Roe Island L. H	.....	.....	.....	1.25	
Rosewood	66	10	37.0	0.91	1.5
Sacramento *a*	59	26	41.9	0.88	T.
Salinas *[8]	68	27	45.4	0.73	
Salton *[8]	78	30	49.1	0.45	
San Bernardino †	83	24	46.7	2.10	
San Jacinto	80	22	43.4	2.25	1.0
San Leandro *[1]	70	34	48.7	1.33	
San Luis L. H	.....	.....	.....	1.36	
San Mateo *[8]	58	30	45.9	1.46	
San Miguel *[8]	63	17	42.4	0.25	
San Miguel Island	75	36	49.7	1.84	
Santa Barbara *a*	78	34	50.7	0.63	
Santa Barbara L. H	.....	.....	.....	0.78	
Santa Clara *a*	.....	.....	.....	1.28	
Santa Cruz *b* †	70	26	46.0	2.17	
Santa Cruz L. H	.....	.....	.....	1.71	
Santa Maria	78	27	48.6	1.44	
Santa Monica *[8]	72	30	54.0	1.79	
Santa Paula	77	24	47.4	0.92	
Santa Rosa *[8]	65	24	47.3	1.81	
Saticoy	.....	.....	.....	1.20	
Shasta	.....	.....	.....	0.34	0.2
Sierra Madre	79	30	48.9	1.63	
Sneddens Ranch *[1]	60	−16	24.6	0.85	8.0
S. E. Farallone L. H	.....	.....	.....	1.90	
Stanford University	62	27	43.6	1.08	
Stockton *a*	57	25	40.5	0.61	
Summerdale †	62	7	31.6	2.60	18.0
Susanville †	44	0	24.6	0.45	6.5
Sutter Creek *[5]	60	16	35.8	0.92	
Tehama *[8]	62	25	41.2	0.55	
Templeton *[8]	60	21	37.6	0.90	0.5
Trinidad L. H	.....	.....	.....	3.24	
Truckee *[8]	46	−12	16.4	1.05	10.5
Tulare *b*	.....	.....	.....	0.55	
Tulare *c*	70	20	43.9	0.63	
Turlock	75	40	56.6	0.56	
Ukiah †	62	12	40.0	1.23	3.0
Upper Mattole *[1]	68	30	44.4	3.84	
Vacaville *a* *[1]	60	26	43.3	1.59	0.7
Ventura †	79	25	47.6	1.54	
Volcano Springs *[8]	80	30	52.0	T.	
West Palmdale *[1]	62	18	34.6	2.34	13.0
Westpoint	.....	.....	.....	1.38	3.0
Wheatland †	56	24	39.9	0.85	
Williams *[8]	61	27	43.1	0.35	2.0
Wilmington *[5]	85	37	58.6	.....	.....
Wire Bridge *[5]	68	22	40.4	1.17	
Yerba Buena L. H	.....	.....	.....	0.70	
Yreka †	49	10	31.6	0.83	.....
Yuba City *[5]	46	28	38.2	0.66	
Colorado.					
Altman	48	−10	18.0	.....	.....
Antlers †	41	−10	20.0	0.43	7.5
Arkins	.....	.....	.....	0.24	4.5
Boulder	67	5	30.7	0.43	7.0
Boxelder	.....	.....	.....	0.70	7.5
Breckenridge †	56	−26	7.8	0.29	4.4
Canyon †	71	−14	31.8	0.56	7.2
Cedaredge	48	−19	20.2	0.57	8.1
Cheyenne Wells	69	0	28.9	0.25	2.5
Collbran	.....	.....	.....	0.87	13.0
Colorado Springs †	65	− 6	26.3	0.18	3.1
Cope	61	− 2	29.6	0.04	0.5
Crook	56	− 7	23.8	0.42	4.2
Delta	44	−20	18.0	0.28	2.5
Dumont †	.....	.....	.....	0.10	1.0
Durango	49	−16	24.2	2.21	24.5
Fleming	.....	.....	.....	0.70	3.0
Fort Collins †	62	−12	25.6	0.14	1.4
Fort Morgan	52	− 5	24.9	0.00	
Garnett	39	−26	10.6	0.01	0.3
Georgetown	55	− 2	25.4	.....	.....
Gleneyrie †	63	− 5	26.7	0.28	4.0
Grand Junction †	48	−16	19.8	0.55	7.0
Greeley †	52	−13	23.2	0.20	3.0
Gulch †	40	−13	18.4	0.90	9.0
Gunnison	43	−35	8.8	0.28	3.8
Hamps	61	− 4	25.0	0.04	0.2
Hoehne	61	−15	26.5	0.52	7.5
Holly	.....	.....	.....	0.35	3.5
Holyoke	.....	.....	.....	0.12	1.2
Holyoke (near)	67	6	32.0	0.10	1.0
Hugo	.....	.....	.....	T.	T.
Husted †	65	−13	26.2	0.28	3.5
Lake Moraine †	.....	.....	.....	1.00	12.0
Lamar †	63	− 8	28.3	0.92	10.0
Laporte	.....	.....	.....	0.45	4.5
Las Animas †	61	− 4	27.5	0.40	6.0
Leadville (near) * † [1]	50	−24	11.3	0.40	2.8
Leroy †	57	− 4	27.1	0.38	3.9
Longs Peak	56	−21	20.0	0.24	5.0
Manitou Park	56	−16	23.0	0.10	1.0
Meeker †	40	−31	10.8	0.67	10.2

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Colorado—Cont'd.	°	°	°	*Ins.*	*Ins.*
Millbrook	52	−27	15.2	0.95	12.5
Minneapolis †	80	− 2	31.5	0.60	6.0
Moraine †	51	−17	21.8	0.50	7.5
Pagoda †	45	−31	11.5	1.75	17.5
Paonia †	.....	.....	.....	0.48	7.0
Parachute †	47	.....	.....	0.26	3.0
Rangely †	40	−36	4.0	0.60	6.0
Redcliff	.....	.....	.....	1.13	14.7
Rico	44	−19	17.1	3.10	31.0
Rockyford	61	−10	27.4	0.40	3.4
Ruby	.....	.....	.....	3.50	35.0
Saguache †	40	−16	13.9	0.28	4.1
Salida	59	−21	22.9	0.50	7.5
San Luis †	46	−30	11.2	1.20	12.0
Santa Clara *[1]	55	−12	23.4	2.97	33.0
Seibert †	.....	.....	.....	T.	T.
Smoky Hill Mine	70	−14	26.8	0.90	9.0
Springfield	.....	.....	.....	0.90	9.0
Stamford *[1]	56	−12	17.9	0.91	12.0
Steamboat Springs	41	−36	8.2	0.36	5.0
Strickler Tunnel	.....	.....	.....	0.28	5.0
T. S. Ranch †	46	− 9	18.8	0.51	5.4
Wagon Wheel	42	−34	5.0	1.02	15.0
Walden	40	−34	11.1	0.20	3.0
Wallet	.....	.....	.....	0.00	
Wray †	65	− 2	28.9	0.06	0.5
Yuma	.....	.....	.....	0.30	3.0
Connecticut.					
Canton †	50	−15	25.0	4.97	26.5
Colchester	52	− 3	27.8	4.83	25.0
Falls Village	.....	.....	.....	4.58	22.2
Greenfield Hill	.....	.....	.....	5.20	13.5
Hartford *a*	50	− 2	26.1	5.23	12.2
Hartford *b*	.....	.....	.....	5.25	17.0
Lake Konomoc	.....	.....	.....	4.79	.....
Middletown	56	− 6	28.3	4.22	14.0
New London †	55	2	28.4	4.45	12.5
North Grosvenor Dale	49	− 8	23.1	7.43	.....
Norwalk	55	− 7	29.0	4.52	14.0
Southington	50	−10	26.7	3.95	12.5
South Manchester	.....	.....	.....	4.03	18.0
Storrs	51	− 7	25.2	4.70	16.2
Voluntown †	55	− 4	28.5	4.66	14.0
Waterbury	50	− 4	28.6	5.09	23.5
West Cornwall †	46	− 7	24.4	3.52	20.5
West Simsbury	.....	.....	.....	4.47	17.0
Windsor	50	− 5	24.8	5.46	22.1
Delaware.					
Dover	60	15	35.9	3.83	.....
Milford	66	18	39.5	2.85	.....
Millsboro	65	15	37.4	2.65	.....
Newark	56	13	33.1	3.57	8.5
Seaford	65	16	37.8	3.37	1.5
District of Columbia.					
Distributing Reservoir *[5]	57	18	36.7	3.31	.....
Receiving Reservoir *[5]	57	18	36.6	3.70	.....
West Washington	64	16	35.6	3.87	4.3
Florida.					
Archer †	82	17	59.1	1.42	
Bartow	86	18	61.4	0.48	
Boca Raton †	84	33	67.3	0.34	
Brooksville †	82	23	61.0	0.61	
Carrabelle †	75	22	56.4	1.90	
Clermont †	.....	.....	.....	0.30	
De Funiak Springs	77	18	55.6	2.00	
Earnestville	85	24	62.5	0.48	
Estero	.....	.....	.....	T.	
Eustis †	85	25	62.6	1.08	
Federal Point †	82	24	58.1	0.83	
Fort Meade † [1]	87	26*	59.0	0.42	
Frostproof	88	28	63.9	0.16	
Gainesville	80[e]	20[e]	55.1[e]	1.07	
Grasmere †	84	19	60.2	0.96	
Haywood	79	20	56.0	1.16	
Huntington	82	25	60.0	0.91	
Jasper	85	16	56.4	0.51	
Kissimmee	90	22	64.4	0.23	
Lake Butler	85	22	58.8	0.95	
Lake City †	84	23	60.5	0.54	
Lemon City	85	35	65.7	0.00	
Maccleuny †	83	22	58.6	0.46	
Manatee	83	20	61.0	0.15	
Merritts Island	82	28	63.7	0.30	
Myers †	89	28	65.4	0.05	
New Smyrna	82	22	60.3	0.77	
Ocala †	83	19	61.2	1.44	
Orange City	84	19	60.8	0.98	
Orange Park	80	23	57.2	0.38	
Orlando †	82	23	59.8	0.64	
Oxford * † [1]	84	20	59.0	1.00	
Plant City	86	20	62.8	0.58	
Quincy	78	.....	.....	2.06	
St. Francis †	84	18	60.1	0.71	
St. Francis Barracks	81	25	58.4	0.55	
Sebastian	83	24	64.2	0.02	
Switzerland	82	25	55.7	0.48	

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Florida—Cont'd.	°	°	°	*Ins.*	*Ins.*
Tallahassee †	81	22	57.2	1.13	
Tarpon Springs †	83	22	59.2	0.18	
Wausau	78	17	55.1	1.15	
Georgia.					
Adairsville †	73	18	44.0	4.95	0.3
Alapaha	81	19	52.8	0.98	T.
Albany †	80	19	52.0	1.58	
Allentown †	77	18	52.4	1.48	
Americus †	78	16	52.4	1.25	
Athens †	73	16	46.0	2.93	
Belleville	88	19	54.7	0.33	
Blakely †	77	19	54.4	1.84	
Brag	84	18	54.3	0.23	
Canton †	.....	.....	.....	3.87	T.
Cedartown	73	16	47.6	3.34	
Clayton †	70	14	43.0	5.95	1.5
Columbus	75	20	51.0	2.54	
Covington	70	12	44.7	3.86	T.
Crescent	80	21	55.8	0.35	
Dahlonega †	71	12	44.0	5.54	1.0
Elberton †	73	15	47.2	2.90	T.
Fleming †	80	20	53.2	0.40	
Fort Gaines	78	19	52.7	1.56	
Franklin	73	20	50.1	3.42	T.
Gainesville	71	20	44.9	3.24	0.5
Gillsville †	73	15	46.2	1.26	
Greenbush	73	17	44.8	7.13	1.0
Hawkinsville	81	9	51.2	1.30	
Hephzibah * † [6]	70	22	52.3	2.90	T.
Jesup	80	21	54.4	0.25	
Lagrange †	75	16	50.2	2.74	T.
Lawrenceville [d]	68	19	47.0	2.44	0.5
Louisville	79	17	52.4	1.63	
Lumpkin	75	17	52.5	1.40	
Marietta	72	16	46.2	3.33	5.0
Marshallville †	73	18	52.4	1.35	T.
Morgan †	80	13	51.3	2.98	
Mount Vernon	78	22	54.8	0.80	
Newnan †	71	18	46.8	1.88	
Piscola	79	20	55.8	1.05	
Point Peter	72	14	44.7	3.10	T.
Poulan †	83	15	53.5	1.31	
Quitman †	82	19	54.8	1.14	
Ramsey	74	16	46.9	5.19	T.
Resaca	.....	.....	.....	6.02	1.4
Reynolds	.....	.....	.....	1.26	
Rome †	73	18	45.7	5.05	T.
Talbotton †	71	19	50.8	2.42	T.
Tallapoosa	73	15	46.4	3.42	T.
Thomasville †	81	20	55.1	1.73	
Toccoa †	71	15	44.6	4.68	1.0
Washington †	.....	.....	.....	2.95	0.8
Waycross	81	22	53.8	0.35	
Whitesburg †	.....	.....	.....	3.72	
Idaho.					
American Falls	44	−25	13.9	0.75	7.5
Blackfoot †	50	−30	12.2	0.65	6.7
Boise Barracks †	44	− 6	22.2	1.40	12.5
Burnside †	48	−22	15.0	0.64	16.0
Challis	60	−11	18.6	0.90	9.0
Cœur d'Alene	46	8	27.4	.....	.....
Corral *[1]	40	−25	9.1	1.80	18.0
Downey	40	−30	14.1	1.10	9.3
Fort Sherman †	41	5	26.2	1.46	13.6
Gimlet †	41	−16	15.2	0.86	9.5
Gray	45	−34	15.4	1.10	11.0
Idaho City †	49[f]	−17[f]	19.1[f]	1.05	10.5
Kootenai †	42	1	24.6	1.80	18.0
Lake	30	−28	2.8	2.00	20.0
Lakeview	37	13	28.8	1.75	12.0
Lewiston	45	13	33.6	0.93	1.9
Lost River	.....	.....	.....	0.38	5.0
Marysville	35	−34	9.6	3.40	34.0
Minidoka	50	−28	16.9	1.20	12.0
Moscow	39	− 4	23.4	2.20	17.5
Murray †	38	− 8	23.7	3.23	55.0
Nampa	41	−17	20.2	1.25	14.7
New Plymouth [d]	55	−14	21.8	0.85	8.5
Oakley	50	− 7	21.8	0.70	7.0
Ola †	49	−19	18.4	1.99	22.6
Paris	40	−33	9.2	0.74	13.1
Payette †	44	−11	22.4	1.52	15.2
Pollock †	49	11	31.4	0.22	.....
Rexburg	35	−40	8.0	1.94	.....
Roseberry	32	−27	8.6	1.20	12.0
St. Maries	39	9	28.2	2.99	24.8
Salubria	45	−18	16.6	1.82	18.2
Soldier †	43	−33	7.0	1.11	11.6
Swan Valley †	44	−85	11.7	0.66	9.4
Warren †	50	−22	21.1	2.01	.....
Illinois.					
Albion †	67	7	37.2	6.00	0.8
Alexander †	55	1	31.6	4.21	9.5
Ashton * † [1]	44	0	25.0	2.69	18.3
Atwood *a* * † [2]	60	4	29.2	5.72	2.5
Aurora *a*	50	2	26.6	4.26	18.6

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Illinois—Cont'd.	°	°	°	*Ins.*	*Ins.*
Aurora *b*	49	— 1	25.8	5.17	27.4
Bloomington †	55	6	29.6	4.00	12.0
Bushnell †	50	5	30.1	3.58	13.5
Cambridge	43	5	27.4	3.34	23.6
Carlinville †	58	5	33.4	4.98	8.0
Carlyle	.....	.....	.....	3.98	.....
Carrollton	53	4	32.2	5.10	3.5
Charleston	61	3	32.8	4.44	1.2
Chemung	41	0	22.4	2.89	33.0
Chester	.....	.....	.....	3.93	0.1
Cisne †	70	8	36.4	5.06	1.0
Clearcreek †	55	0	27.0	4.00	18.0
Coatsburg	50	3	29.6	3.71	11.8
Cobden †	68	7	39.6	4.20	0.1
Cordova	45	0	23.4	3.62	28.0
Danville	64	6	32.0	3.66	0.2
Decatur †	60	4	32.0	5.18	7.0
Dixon †	42	1	24.8	3.27	23.5
Dwight †	55	4	27.8	3.80	8.5
East Peoria †	51	4	28.7	4.61	9.5
Effingham †	67	2	34.6	4.57	3.5
Elgin	46	2	25.5	.....	20.7
Fort Sheridan †	48	2	25.8	2.59	18.6
Friendgrove †	.....	.....	.....	6.35	1.1
Galva †	47	1	26.5	3.38	18.6
Glenwood *†[1]	60	2	28.7	3.16	20.0
Golconda †	69	8	40.8	7.03	.....
Grafton †	.....	.....	.....	5.90	1.0
Grayville	64	12	41.1	7.11	1.0
Greenville †	57	3	32.6	3.97	2.0
Griggsville †	54	6	31.8	4.46	.....
Halliday *[5]	64[d]	11[d]	39.0[d]	4.03	T.
Havana †	55	7	32.6	4.64	12.0
Hillsboro †	61	4	33.6	5.51	3.0
Iron	68	12	36.5	4.62	T.
Joliet †	60	4	29.1	4.05	18.0
Jordans Grove †	64	6	37.8	3.83	0.2
Kishwaukee	42	— 1	23.1	2.00	.....
Knoxville *a*	48	0	27.2	5.30	19.0
Lagrange †	55	5	26.7	4.30	21.0
Laharpe	47	4	27.4	2.94	18.5
Lanark †	44	— 2	22.8	1.85	.....
Lexington	57	2	29.1	4.62	7.0
Loami †	.....	.....	.....	5.25	6.5
Louisville †	68	3	35.8	4.86	0.8
McLeansboro †	67	10	37.9	4.98	T.
Martinsville †	69	5	34.0	3.86	.....
Martinton †	62	6	29.6	3.44	3.5
Mascoutah	64	3	35.1	4.03	0.5
Mattoon	63	2	31.7	3.34	.....
Minonk †	54	— 2	27.1	4.21	14.5
Monmouth †	47	1	27.0	3.20	23.2
Morrisonville †	59	6	32.6	5.02	2.8
Mount Carmel †	.....	.....	.....	6.53	0.4
Mount Pulaski	57	6	32.5	4.78	8.5
Mount Vernon	70	9	35.8	5.86	1.0
New Burnside †	68	8	40.4	4.67	T.
Olney *a*	65	7	36.1	5.22	1.0
Oswego *[1]	46	1	24.8	3.86	16.2
Ottawa †	55	3	27.0	5.24	22.5
Palestine †	67	8	36.1	5.33	1.0
Paris	66	5	34.5	4.29	0.3
Peoria *a* †	.....	...	.....	4.39	13.9
Peoria *b* †	56	7	30.6	4.08	9.5
Philo †	64	5	31.8	3.62	5.0
Plumhill †	65	5	37.0	4.79	0.4
Rantoul †	61	4	30.2	3.46	5.3
Reynolds	43	1	25.9	2.70	16.8
Riley †	44	2	24.1	3.89	24.7
Robinson †	69	6	34.8	5.30	0.5
Rockford	40	3	22.2	2.97	26.0
Roundgrove †	44	1	24.6	3.01	20.9
St. Charles *†[1]	48	4	26.3	3.73	18.5
St. John †	.....	6	.....	4.07	.....
Scales Mound	42	— 8	22.0	2.17	17.5
Streator †	56	6	29.6	3.43	15.2
Sycamore †	43	1	24.2	3.28	19.2
Tiskilwa †	47	1	26.2	3.76	20.0
Tuscola †	65	4	31.8	4.49	0.5
Walnut †	50	3	27.6	3.96	27.1
Wheaton *[3]	.....	8	24.6	3.67	24.2
Winchester *[1]	50	6	31.4	5.75	8.5
Winnebago †	42	3	24.0	2.95	22.0
Zion †	42	— 1	24.9	3.95	29.5
Indiana.					
Anderson †	65	3	32.8	4.11	2.8
Angola *[1]	61	6	28.7	3.73	11.1
Auburn	64	5	29.6	3.28	.....
Bloomington †	66	5	33.9	6.42	T.
Bluffton †	64	5	30.2	3.21	3.8
Boonville	69	14	40.0	7.91	0.3
Bright †	67	5	35.0	7.38	1.0
Butlerville †	66	7	35.0	9.28	1.7
Cambridge City †	65	2	32.2	5.95	1.9
Columbia City *[1]	62	4	29.0	3.89	4.0
Columbus †	66	1	33.5	6.20	.....

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Indiana—Cont'd.	°	°	°	*Ins.*	*Ins.*
Connersville †	65	0	31.5	5.47	0.5
Crawfordsville	62	7	36.4	3.40	1.1
Delphi †	67	4	30.6	3.26	0.8
Edwardsville *†[1]	69	14	38.9	8.84	0.2
Farmland †	64	5	32.7	5.16	3.0
Fort Wayne	64	7	31.1	3.92	6.0
Franklin *[1]	66	10	34.4	5.45	0.5
Greencastle †	65	9	32.8	7.98	2.0
Hammond †	58	7	28.1	2.41	16.0
Hector	63	13	30.8	5.07	0.5
Huntington	65	4	30.7	4.18	9.0
Jasper †	67	13	38.9	9.25	.....
Jeffersonville	67	17	39.3	9.04	T.
Knightstown †	64	2	31.7	4.94	1.5
Knox	54	0	29.2	2.70	16.0
Kokomo †	65	7	33.0	4.99	1.6
Lafayette †	66	6	32.1	3.57	0.2
Laporte	56	1	26.8	3.53	11.3
Logansport *b* †	65	5	29.4	.....	.....
Madison	68	9	37.1	9.30	4.5
Marengo †	67	14	37.9	8.91	0.4
Marion †	65	4	32.2	3.89	3.0
Markle	64	.....	.....	3.50	6.0
Mauzy †	63	0	31.8	5.70	2.8
Michigan City *[10]	60	11	28.5	.....	.....
Mount Vernon †	66	13	38.5	5.84	.....
Northfield †	65	0	31.4	4.30	1.0
Princeton *[1]	67	12	38.7	1.36	1.0
Richmond	65	— 2	32.0	4.83	.....
Rockport	70	14	41.8	7.30	0.6
Rockville †	66	4	33.2	4.18	T.
Salem	66	0	36.2	6.95	.....
Scottsburg	68	10	37.2	8.23	1.0
Seymour	67	15	35.4	8.47	T.
Shelbyville	65[g]	6[g]	32.2[g]	5.97	1.5
South Bend †	60	0	29.1	3.52	18.5
Syracuse †	.....	.....	.....	3.48	7.0
Terre Haute †	67	7	33.9	4.48	T.
Topeka †	61	5	28.9	2.45	7.0
Valparaiso †	60	4	27.0	1.92	8.7
Vevay	68	11	38.8	11.60	.....
Vincennes	67	10	35.6	6.13	.....
Warsaw †	65	3	28.5	1.90	.....
Washington †	66	14	38.2	6.13	.....
Winamac	65	10	31.9	3.45	1.5
Worthington †	67	10	35.7	5.24	0.6
Indian Territory.					
Healdton †	75	14	44.9	2.29	T.
Kemp	76	19	48.4	2.90	
Lehigh †	74	11	43.8	3.64	
South McAlester †	.....	.....	.....	3.96	
Tahlequah	70	13	41.8	5.86	
Tulsa †	.....	.....	.....	4.62	
Wagoner	72	13	41.7	4.62	
Iowa.					
Adair	.....	.....	.....	0.90	9.0
Afton	42	1	26.1	1.75	12.0
Albia	50	— 3	29.2	2.93	12.0
Algona *[1]	37	— 3	21.1	0.25	2.5
Alta *a* †	38	— 1	21.6	0.25	2.5
Amana †	41	— 1	23.0	2.99	17.2
Ames *b*	42	0	22.8	0.46	4.7
Ames (near)	.....	.....	.....	0.80	7.0
Atlantic †	43	— 8	23.2	1.48	14.5
Audubon	43	— 5	22.8	1.10	11.0
Belknap	47	1	26.4	5.00	38.0
Belleplaine	42	— 7	20.5	3.32	26.5
Bonaparte †	47	— 2	26.2	3.33	22.0
Britt	39	— 8	19.2	0.25	1.8
Burlington	43	4	28.3	1.86	11.5
Carroll	42	— 4	22.4	1.20	12.0
Cedarfalls	40	— 5	22.3	1.90	.....
Cedar Rapids †	43	—11	22.4	1.02	19.9
Chariton	45	3	27.2	3.49	22.4
Charles City	40	— 9	21.5	1.20	4.0
Clarinda †	46	7	28.2	1.42	12.2
Clinton	45	1	25.0	3.60	21.8
College Springs	43	1	27.0	1.01	9.5
Corning †	48	3	27.4	1.50	14.0
Council Bluffs	45	1	27.0	0.18	.....
Cresco †	38	—10	19.8	0.55	1.5
Decorah †	41	— 7	20.0	0.82	.....
Delaware *[3]	43	— 1	19.7	1.42	9.0
Denison †	50	— 4	25.2	0.60	6.0
Desoto	43	1	25.2	1.81	15.0
Dows	36	—10	19.0	0.85	5.0
Eldora	40	—11	23.0	2.30	23.0
Elkader †	47	— 4	22.6	0.88	6.8
Estherville	43	— 6	21.7	0.15	1.5
Fairfield †	46	— 2	26.4	3.52	23.5
Fayette †	43	— 6	20.7	1.63	4.6
Forest City	39	— 4	20.0	0.30	3.0
Fort Madison *†[1]	44	7	30.2	3.78	20.5
Fredericksburg	.....	.....	.....	0.78	.....
Galva	39	— 3	22.0	0.18	.....
Glenwood †	47	— 1	26.4	1.40	14.0

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Iowa—Cont'd.	°	°	°	*Ins.*	*Ins.*
Grand Meadow *[1]	38	— 4	21.4	0.90	6.0
Greene	40	— 9	21.0	0.47	10.0
Greenfield	50	0	26.3	1.53	15.0
Grinnell	44	— 5	24.5	3.19	.....
Grundy Center	40	— 6	20.7	1.80	18.0
Guthrie Center	43	0	24.2	1.06	6.8
Hampton	39	— 6	20.3	1.03	4.5
Hawkeye	.....	.....	.....	1.10	.....
Hedrick *[1]	43[f]	— 6	24.6[f]	3.30	33.0
Hopeville †	43	1	25.4	2.32	.....
Humboldt †	40	— 5	21.2	0.23	2.0
Independence †	38	— 7	19.8	1.76	12.4
Indianola †	.....	.....	.....	3.38	20.7
Iowa City *a*	44	— 3	24.7	4.62	26.0
Iowa Falls †	39	.....	.....	1.05	9.5
Keosauqua	48	— 2	27.9	3.37	20.0
Knoxville	47	0	26.5	3.55	21.0
Lamoni	46[c]	1[c]	26.3[c]	2.88	25.5
Lansing	44	1	23.4	0.85	2.4
Larchwood	.....	.....	.....	0.55	5.5
Larrabee †	38	— 5	20.6	0.17	1.7
Lemars	36	— 3	22.2	0.25	3.0
Lenox *[1]	43	4	26.8	1.07	7.9
Logan †	49	4	25.4	1.30	13.0
Malvern	.....	.....	.....	1.12	12.3
Maquoketa	42	— 2	23.0	2.01	17.8
Marshall †	42	— 1	23.1	1.02	.....
Mason City	38	—10	19.2	T.	T.
Millman	.....	.....	.....	1.85	17.5
Monticello	41	— 2	23.6	2.59	18.0
Mooar	50	— 1	27.1	3.12	.....
Mountayr †	48	0	26.0	2.80	22.0
Mount Pleasant *[1]	45	4	28.2	3.65	.....
Mount Vernon *a* *[1]	42	— 4	24.0	.....	.....
Mount Vernon *b*	41	— 1	23.2	2.57	23.0
New Hampton	50	— 2	25.3	0.53	.....
Newton †	42	— 4	23.4	2.22	13.5
Northwood	40	— 6	20.0	0.20	2.0
Odebolt	39	— 2	22.6	0.44	4.6
Ogden	40	— 6	22.6	0.92	9.5
Osage *[3]	.....	— 5	19.3	0.37	1.2
Osceola	45	1	25.6	3.30	25.3
Oskaloosa †	45	— 3	24.6	2.01	17.5
Ottumwa	49	— 1	26.0	4.14	27.0
Ovid †	45	— 1	25.1	5.32	30.5
Plover [j]	40	0	20.4	.....	.....
Primghar	36	— 3	21.4	0.19	1.9
Red Oak	43	0	26.5	1.49	22.0
Rock Rapids	45	— 7	22.4	0.45	4.5
Rockwell City	40	— 4	19.1	0.46	8.5
Ruthven	42	— 3	22.1	0.10	1.0
Sac City †	36	— 4	22.2	0.41	4.1
Sibley	42	— 4	20.8	0.20	2.0
Sidney	43	4	27.0	1.92	22.6
Sigourney	40	— 2	25.0	2.86	24.0
Spencer	38	— 2	20.2	0.04	0.5
Spirit Lake †	47	— 5	21.6	0.80	3.0
Stuart	43	— 6	23.2	0.90	9.0
Tara	40	— 5	20.4	0.17	1.7
Thurman	43	— 2	25.4	1.36	19.7
Toledo	41	— 5	21.8	1.57	8.0
Villisca †	43	— 1	25.8	1.21	.....
Vinton *[1]	40	— 4	22.6	2.27	14.0
Washington	45	— 2	24.2	3.17	25.5
Washta	.....	.....	.....	0.10	1.0
Waterloo	43	— 1	21.2	1.45	6.0
Waverly	40	— 6	21.6	1.00	6.0
Webster City	42	— 4	21.6	1.12	10.8
Westbend *†[1]	38	— 5	20.2	0.25	2.5
West Branch	48	— 3	23.6	2.29	18.2
Whitten *[1]	39	— 7	20.2	0.82	8.2
Wilton Junction †	45	0	24.0	3.07	20.0
Winterset †	42	0	25.4	2.24	22.0
Kansas.					
Abilene †	59	5	31.0	1.66	9.0
Achilles	.....	.....	.....	0.05	0.5
Altoona *†[3]	67	13	33.7	3.72	9.0
Anthony	.....	.....	.....	1.87	5.0
Assaria *[5]	66	8	32.6	1.40	11.0
Atchison †	59	6	31.2	3.40	24.0
Augusta	.....	.....	.....	1.85	2.7
Beloit †	63	0	28.8	0.82	7.5
Burlington †	63	6	34.0	3.01	10.0
Campbell	48	2	28.8	1.40	17.5
Colby †	64	— 1	28.9	0.04	0.5
Columbus	72	14	37.2	4.63	8.5
Coolidge †	65	0	28.5	0.40	4.0
Cunningham †	64	1	30.4	1.08	10.0
Dresden	61	2	29.4	0.05	0.5
Eldorado [e]	61	9	33.7	1.80	14.0
Ellinwood †	63	2	30.6	1.40	12.5
Emporia	60	12	33.6	2.05	11.0
Englewood †	.....	.....	.....	1.00	8.2
Eskridge	65	10	31.0	1.46	14.6
Eureka	.....	.....	.....	1.51	7.5
Eureka Ranch †	70	1	27.7	1.28	11.3

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Kansas—Cont'd.	°	°	°	*Ins.*	*Ins.*
Fallriver	75	12	36.6	3.66	5.5
Fanning	54	— 2	29.0	2.22	22.0
Fort Riley †	59	4	30.6	0.83	8.3
Fort Scott†	70[f]	13	36.4[d]	4.18	.....
Frankfort	55	2	30.0	1.65	15.5
Garden City†	65	3	29.4	1.55	8.0
Garfield	.....	.....	.....	0.57	7.2
Gibson	71	0	29.6	0.70	7.0
Gove*†[1]	67	3	30.8	0.40	4.0
Grainfield*[6]	60	11	35.6	0.45	4.5
Grenola	73	8	35.1	3.34	3.0
Halstead	58	2	30.0	1.40	12.0
Horton	55	6	30.2	1.85	18.5
Hoxie	66	0	28.2	0.08	0.8
Hutchinson	70	5	35.0	1.47	13.8
Independence	71	15	37.3	4.56	3.5
Lakin †	.....	3	.....	0.40	4.0
Lawrence[1]	62	8*	32.0	4.01	17.0
Lebo †	61	6	32.2	3.01	11.5
Macksville	58	5	29.2	0.70	7.0
McPherson	59	8	31.2	1.77	.....
Manhattan *b*	58	10	31.4	0.91	6.0
Manhattan *c*	60	10	31.8	1.03	9.7
Marion†	57	9	33.0	1.50	9.0
Meade†	.....	2	.....	2.00	20.0
Medicine Lodge †	65	9	34.6	0.78	6.5
Minneapolis †	59	— 3	30.0	1.26	12.6
Morantown†	70	5	34.4	3.76	10.0
Morland	68	2	30.4	0.41	4.1
Mounthope*[1]	64	8	33.3	1.90	9.0
Ness City	61	9	33.2	0.56	9.0
Newton	61	6	33.4	1.79	.....
Norton	59	2	29.5	0.19	1.9
Norwich[c]	65	14	35.6	1.73	8.0
Olathe†	57	5	32.2	4.75	16.0
Osage City†	61	3	32.6	2.35	12.0
Osborne	.....	.....	.....	0.16	1.6
Oswego	75	14	40.0	4.95	5.0
Ottawa	62	9	32.6	3.76	11.4
Paola	.....	.....	.....	3.36	10.0
Phillipsburg	64	4	30.6	1.20	12.0
Pleasant Dale	69	1	28.6	1.41	14.0
Pratt	62	2	34.1	0.65	6.5
Rome*†[1]	63	10	36.3	2.02	4.0
Russell	68	.....	.....	1.61	13.8
Salina†	61	1	29.8	1.71	12.0
Sedan†	71	12	36.6	4.97	3.5
Seneca	57	0	30.0	1.86	15.5
Sharon Springs*[1]	85	10	34.0	0.20	2.0
Toronto	74	4	34.6	3.15	7.0
Ulysses†	.....	.....	.....	0.60	6.0
Viroqua†	68	1	31.9	0.80	8.0
Wallace	.....	.....	.....	0.30	3.0
Wamego*[1]	60	10	29.7	1.55	15.4
Wellington*[1]	64	18	38.8	2.31	4.0
Winona*[1]	66	10	34.7	0.10	1.0
Kentucky.					
Alpha*[3]	.....	14	42.3	10.60	3.0
Ashland	72	11	38.4	7.55	T.
Bardstown†	70	12	38.8	9.46	
Blandville†	68	8	40.4	8.37	0.5
Bowling Green *b*†	69	15	41.3	11.99	1.5
Burnside†	.....	.....	.....	7.30	T.
Caddo	66	7	35.6	8.98	2.0
Canton*†[1]	68	15	43.6	7.46	0.5
Carlisle	.....	.....	.....	8.75	.....
Carrollton†	70	16	38.5	8.88	
Catlettsburg	.....	.....	.....	8.05	3.0
Earlington	68	16	40.6	9.79	
Edmonton†	67	13	42.0	10.53	1.0
Ensor	69	14	40.7	7.55	T.
Eubank	67	12	40.8	8.56	3.2
Falmouth†	.....	.....	.....	10.20	.....
Fords Ferry	68	13	40.4	7.17	T.
Frankfort†	72	14	41.0	8.82	T.
Georgetown	69	9	38.4	.....	.....
Greensburg †	71	14	39.9	9.30	0.2
Henderson †	69	16	41.4	8.19	T.
Hopkinsville †	69	16	44.6	11.73	1.5
Irvington	69	14	39.4	8.24	0.5
Leitchfield †	69	14	38.3	10.73	0.5
Loretto	70	11	39.6	9.92	T.
Marrowbone†	69	11	39.8	7.87	2.0
Middlesboro†	67	14	39.8	7.17	2.2
Mount Hermon	68	10	41.8	9.61	1.0
Mount Sterling†	67	12	38.4	8.58	4.0
Owensboro†	69	12	40.0	7.48	T.
Owenton†	66	8	36.6	11.70	1.5
Paducah *a*†	.....	.....	.....	9.30	0.5
Paducah *b*†	70	12	42.9	9.06	T.
Pleasure Ridge Park †	69	15	39.0	9.67	0.4
Princeton	68	13[d]	41.6	7.02	1.0
Richmond †	70	12	40.1	8.37	1.0
Russellville †	68	15	43.5	8.91	1.0
St. John†	68	13	38.6	9.72	T.
Sandyhook	.....	.....	.....	7.50	2.5

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Kentucky—Cont'd.	°	°	°	*Ins.*	*Ins.*
Scott	66	9	36.6	8.75	0.5
Sergent	.....	.....	.....	5.85	1.3
Shelby City	68	13	38.2	9.55	1.0
Shelbyville†	68	9	38.2	8.80	7.0
Southfork[2]	.....	.....	40.7	6.80	.....
Vanceburg	68	6	36.8	6.65	
Williamsburg†	69	16	42.4	8.97	3.0
Louisiana.					
Abbeville	82	24	57.4	8.10	
Alexandria†	80	19	53.2	6.62	
Amite†	82	19	56.0	6.94	
Bastrop †	81	19	53.4	7.67	
Baton Rouge†	84	22	56.5	6.06	
Cheneyville †	83	26	54.6	7.26	
Clinton †	79	19	56.2	10.32	
Emilie†	75	22	55.8	3.54	
Farmerville	78	18	50.6	9.00	
Franklin†	78	22	56.6	5.73	
Grand Coteau	78	26	56.8	7.11	
Hammond	82	19	56.2	5.67	
Houma	80	23	59.6	4.78	
Jeanerette	81	18	57.0	7.47	
Jennings	83	28	57.2	8.01	
Lafayette †[8]	78	21	58.2	.....	
Lake Charles†	79	24	56.6	6.83	
Lawrence	79	25	60.8	1.50	
Liberty Hill	81	17	52.9	8.40	
Melville	80	19	55.5	8.25	
Minden	81	17	51.0	7.79	
Monroe†	79	19	52.2	6.93	
Montgomery	80	18	51.2	6.31	
New Iberia	74	24	55.2	8.70	
Oakridge†	81	21	52.0	12.25	
Opelousas	81	19	57.9	6.17	
Paincourtville †	83	21	58.4	4.91	
Plain Dealing †	76	17	50.6	8.10	
Plaquemine	84	22	57.8	6.75	
Rayne	79	20	56.6	8.71	
Robeline	78	13	52.4	4.98	
Ruston	77	23	52.2	8.16	
Schriever	84	21	56.6	4.38	
Shellbeach	76	28	59.2	5.55	
Southern University†	80	23	56.0	2.82	
Sugar Ex. Station †	78	25	56.2	3.51	
Sugartown †	75	24	54.8	7.03	
Venice†	78	28	58.2	0.85	
Wallace	81	26	57.6	4.60	
Whitehall	84[c]	22[c]	57.4[c]	4.60	
White Sulphur Springs.	87	16	56.9	9.17	
Maine.					
Bar Harbor	48	—13	19.6	6.45	30.5
Belfast*[6]	38	—17	17.5	5.81	36.0
Calais	37	—27	15.6	5.42	35.0
Cumberland Mills	42	—17	20.6	5.34	36.3
Fairfield	40	—31	14.6	5.07	31.5
Flagstaff	35	—39	9.6	4.80	43.0
Gardiner	41	—30	16.2	5.54	38.0
Kineo†	35	—30	9.6	4.24	45.0
Lewiston	40	—24	17.5	5.93	41.0
North Bridgton	40	—21	17.0	5.76	42.0
Orono	41	—30	13.4	6.32	42.0
Petit Menan*[1]	38	0	21.4	.....	.....
Winslow	40	—30	14.0	4.67	29.5
Maryland.					
Annapolis	61	19	38.4	2.37	4.0
Bachmans Valley	53	12	32.0	3.74	6.5
Boettcherville	64	14	33.8	3.77	2.0
Charlotte Hall †	66	19	38.3	3.30	4.0
Cherryfields †[2]	.....	.....	37.6	1.62	2.0
Collegepark	61	16	37.8	3.87	.....
Cumberland *b*	.....	.....	.....	4.57	1.5
Darlington †	58	13	34.4	3.54	5.0
Deerpark	61	— 2	30.4	7.69	25.0
Easton†	63	17	36.0	2.83	1.0
Ellicott City	57	10	35.2	3.29	4.0
Fallston	56	13	33.9	3.40	7.2
Flintstone	56	11	33.2	3.99	5.5
Frederick	60	17	35.5	4.05	4.5
Grantsville	72	1	30.8	6.53	19.5
Greenspring Furnace	59	13	33.8	3.44	2.4
Hagerstown †	.....	.....	.....	3.99	3.0
Jewell†	60	15	37.0	2.47	2.5
Johns Hopkins Hospital	60	14	35.7	3.13	4.5
Laurel	60	14	35.8	3.30	4.0
Mardela Springs†	68	16	36.9	2.76	1.5
Mount St. Marys Coll. †.	61	9	33.2	3.78	4.0
New Market	57	13	33.2	3.14	5.0
Pocomoke City	69	17	43.0	1.24	T.
Port Deposit	58	12	34.0	3.45	12.0
Princess Anne	68	17	37.8	2.09	1.0
Sharpsburg	57	15	33.3	3.40	2.0
Smithsburg	54	13	33.7	3.52	3.5
Solomons†	60	19	38.3	2.54	1.0
Sunnyside	61	3	31.0	8.95	29.0
Taneytown †	57	14	34.0	4.29	6.6
Van Bibber	56	13	34.0	2.90	.....

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Maryland—Cont'd.	°	°	°	*Ins.*	*Ins.*
Westernport	65	8	33.8	4.73	4.8
Westminster	58	8	34.2	4.06	8.5
Woodstock	60	14	34.9	2.28	4.8
Massachusetts.					
Adams	51	—11	22.8	.....	26.0
Amherst	50	—14	23.4	5.85	25.2
Attleboro	.....	.....	.....	3.21	.....
Bedford	47	— 6	23.4	5.32	26.0
Bluehill (summit)	51	— 5	25.5	4.24	27.0
Cambridge *a*	57	— 8	26.7	4.07	.....
Chestnut Hill	53	— 9	26.8	5.60	23.0
Clinton	52	—11	25.1	.....	.....
Cohasset	.....	.....	.....	3.26	.....
Concord	53	—15	23.4	4.50	23.6
Dudley[1]	45*	— 5	24.9	2.62	22.2
East Templeton*[1]	42	— 8	22.4	4.31	23.0
Fallriver	52	0	28.4	4.67	11.8
Fiskdale	.....	.....	.....	3.49	13.5
Fitchburg *a*	45	— 6	23.5	5.18	27.5
Fitchburg *b*	49	—11	23.0	5.52	27.5
Framingham	53	—14	25.9	6.54	.....
Groton	50	—14	22.2	5.67	32.0
Hadley	49	—20	20.6	.....	.....
Hyannis*†[1]	52	5	29.9	4.81	7.0
Jefferson	.....	.....	.....	6.74	37.5
Lawrence	51	—13	24.8	4.71	20.2
Leicester Hill	48	— 8	22.5	5.75	29.8
Leominster	.....	.....	.....	5.63	29.0
Long Plain	.....	.....	.....	5.09	8.0
Lowell *a*	50	—14	24.0	4.52	.....
Lowell *b*	51	—16	24.1	.....	.....
Lowell *c*	54	— 9	26.3	.....	.....
Ludlow	45	—19	19.2	6.12	24.0
Mansfield*[1]	54	—15	25.9	4.55	19.0
Middleboro	56	— 7	27.3	4.78	7.5
Monson	52	—14	25.2	5.26	28.0
Mount Nonotuck	.....	.....	.....	6.84	30.8
New Bedford *a*	55	0	30.3	5.78	6.5
New Bedford *b*	55	— 1	29.3	5.50	4.4
New Salem	46	— 8	22.0	5.66	34.0
Pittsfield	47	— 8	22.2	5.80	32.5
Plymouth	.....	.....	.....	4.10	.....
Princeton	.....	.....	.....	5.54	35.0
Provincetown	54	6	30.6	3.60	16.0
Salem	.....	.....	.....	5.02	23.0
Somerset*[1]	58	0	29.9	3.38	5.5
South Clinton	.....	.....	.....	7.38	44.8
Springfield Armory	52	— 8	25.8	4.42	19.5
Sterling	.....	.....	.....	6.96	40.2
Taunton *b*	52	— 5	26.2	4.34	8.0
Taunton *c*	54	—10	26.8	6.14	.....
Turners Falls	49	—12	21.4	5.79	.....
Webster	.....	.....	.....	4.71	14.2
Westboro†	48	—15	25.1	4.20	22.0
Weston	52	—12	25.8	5.19	27.7
Winchendon	.....	.....	.....	4.88	27.5
Worcester *a*	52	— 5	25.6	3.77	.....
Worcester *b*	51	— 5	25.8	4.28	21.0
Michigan.					
Adrian	61	2	27.0	3.14	8.5
Agricultural College	54	— 6	24.9	3.07	12.2
Allegan	56	9	27.1	2.40	16.0
Alma	40	—10	24.0	3.80	24.5
Ann Arbor	58	3	26.7	4.00	10.1
Arbela	48	—11	25.6	2.55	13.0
Baldwin	43	—18	21.8	3.03	24.3
Ball Mountain	44	— 4	24.4	2.43	10.9
Battlecreek	45	8	27.2	4.04	13.5
Bay City *b*	40	— 2	25.0	2.57	17.0
Benton Harbor	56	5	29.2	2.34	14.0
Benzonia	44	9	26.3	2.17	18.5
Berlin	48[d]	—12	23.4	3.31	17.3
Berrien Springs	60	4	28.4	.....	.....
Big Rapids	42	—10	22.8	4.02	37.0
Birmingham	52	— 5	25.6	3.14	5.0
Boon	40	— 7	20.1	3.50	27.2
Calumet	38	— 3	20.2	1.56	19.5
Camden	60	2	27.6	3.26	21.0
Carsonville	48	— 2[b]	28.4[d]	2.28	11.0
Charlevoix	39	0	22.6	2.32	23.2
Cheboygan	38	—13	19.5	2.79	26.0
Clinton	60	3	27.0	3.33	.....
Coldwater	63	1	27.6	3.51	.....
Crisps*[10]	37	— 3	21.8	.....	.....
East Tawas	38	— 5	22.6	0.93	.....
Eloise	60	4	28.2	3.80	7.4
Escanaba†	38	2	20.8	0.52	5.0
Ewen	37	— 8	21.6	1.66	16.6
Fairview	56	1	25.2	2.82	6.5
Fitchburg	39	— 2	24.2	3.27	13.5
Flint	52	—14	24.8	2.65	11.5
Frankfort*[10]	45	12	30.3	.....	.....
Gladwin	39	—12	21.8	2.25	21.0
Grand Point au Sable*[10]	38	10	26.6	.....	.....
Grand Rapids *b*	48	2	27.6	4.04	15.5
Grape	63[c]	6[b]	28.7[c]	2.90	7.5

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Michigan—Cont'd.	°	°	°	*Ins.*	*Ins.*
Grayling	38	−12	19.7	3.49	35.5
Hanover	60	0	26.6	2.65	13.8
Harrisville	40	− 8	22.2	3.45	34.5
Hart	45	8	26.5	4.89	45.0
Hastings	57	− 1	26.8	3.62	17.5
Hayes	38	−13	25.0	1.84	.....
Highland Station	.....	.....	.....	3.35	9.0
Hillsdale	60	6	26.8	3.98	11.5
Howell	58	0	29.8	2.84	4.0
Humboldt	34	−19	13.2	0.73	2.5
Iron River	42	− 7	14.9	0.47	4.0
Ivan	40	− 1	22.8	5.00	41.5
Jackson	59	4	27.6	2.73	5.0
Jeddo	48	− 3	24.6	2.83	17.2
Kalamazoo	58	7	28.4	3.09	9.5
Lake City	36	− 1	21.5	4.16	34.0
Lansing	55	− 4	26.0	3.04	16.6
Lapeer	53	−16	25.3	2.04	13.4
Lathrop	37	−14	16.7	0.50	5.0
Ludington	41	12	26.8	2.95	18.6
Luzerne	39	−24	19.0	3.82	32.8
Mackinaw City	42	−14	19.6	1.40	14.0
Madison	60	4	27.4	3.90	13.8
Mancelona	39	−10	22.4	3.07	30.0
Manistee	40	5	26.6	5.30	40.0
Manistique	36	− 6	21.3	1.09	10.5
Middle Island *[10]	38	7	27.3	.....	.....
Midland	41	0	23.6	2.80	20.0
Mottville	62	2	26.8	3.53	13.2
Mount Clemens	55	2	25.4	2.99	5.8
Mount Pleasant *b*	38	−13	22.0	3.71	35.4
Muskegon	41	10	27.0	2.60	22.0
Newberry	38	−10	15.8	1.25	12.2
North Marshall	57	4	25.6	4.11	10.7
Northport	47	1	26.2	2.35	24.0
Old Mission	41	3	25.8	3.41	34.1
Olivet	57	7	27.0	3.07	13.8
Omer	39	−19	20.2	3.23	18.5
Ovid	48	0	25.4	2.77	18.0
Owosso	50	− 3	25.4	3.91	21.0
Parkville	.....	.....	.....	3.55	18.0
Pentwater *[10]	42	0	28.5	.....	.....
Petoskey	40	− 4	22.5	3.22	34.0
Plymouth	55	− 2	26.0	3.10	6.0
Port Austin [d]	39	− 9	24.4	2.83	20.0
Reed City	40	−14	17.6	2.85	23.0
Rockland	45	− 5	18.2	1.65	16.6
Rogers City *	42	− 5	22.2	4.88	38.0
Romeo	47	2	24.7	1.90	.....
Saginaw	41	− 4	25.0	4.50	19.5
St. Ignace	39	− 7	19.5	1.72	11.0
St. Johns	51	0	26.9	2.95	14.5
Sandbeach *a*	45	0	24.0	1.30	3.8
Sidnaw	40	−12	17.2	1.05	10.5
Somerset	59	− 4	26.0	3.29	15.0
Stanton	44[g]	3[h]	25.8[g]	.....	.....
Thomaston	42	−10	21.6	2.15	22.0
Thornville	48	−10	26.2	2.99	19.0
Thunder Bay Island *[10]	40	8	25.6	.....	.....
Traverse City	39	2	24.4	5.26	42.9
Valley Center	49	−18	22.9	1.89	7.5
Vandalia	59	4	28.4	3.93	19.9
Vassar	47	−18	24.4	2.42	9.0
Vermillion Point *[10]	34	− 6	16.7	.....	.....
Wasepi	61	5	26.9	3.30	.....
Waverly	49	5	26.7	3.54	16.8
West Harrisville	39	−16	21.2	4.13	39.0
Wetmore	40	− 8	17.4	1.70	17.0
White Cloud	36	− 8	20.1	3.18	27.5
Ypsilanti	58	4	27.6	3.27	8.8
Minnesota.					
Ada†	36	−17	13.6	0.09	0.8
Albert Lea	39	− 7	19.6	0.35	3.5
Alexandria†	42	−10	18.3	0.10	1.0
Beardsley	43	−10	19.2	0.10	1.0
Bingham Lake	41	− 5	20.8	0.03	0.3
Bird Island	42	− 4	21.1	T.	T.
Blooming Prairie†	40	−12	19.8	0.25	2.5
Caledonia†	39	− 5	20.0	0.61	3.0
Camden	45	− 5	22.2	0.03	0.5
Collegeville	49	− 4	22.1	T.	0.2
Crookston†	36	−15	14.3	0.17	2.1
Detroit City	36	−23	9.8	0.10	1.0
Faribault	42	− 5	22.2	0.10	1.0
Farmington†	42	− 7	19.9	0.25	2.5
Fergus Falls†	38	−10	17.8	0.13	1.3
Glencoe	42	0	21.5	.....	.....
Glenwood	40	− 6	18.6	0.02	T.
Grand Meadow†	38	−11	18.2	0.25	5.0
Koochicking	39	−28	8.8	0.33	.....
Lake City	42	− 5	20.4	0.04	1.0
Lake Jennie	46	− 4	20.0	T.	T.
Lakeside†	41	− 5	20.4	0.05	0.5
Lake Winnibigoshish	36	−20	11.3	0.09	1.8
Lambert†	36	−20	8.2	0.10	1.0
Leech Lake	42	−27	13.1	0.24	2.3

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Minnesota—Cont'd.	°	°	°	*Ins.*	*Ins.*
Long Prairie	38	−11	16.6	0.02	0.2
Lutsen	37	− 9	16.9	0.19	1.9
Luverne†	49	− 6	22.4	0.25	2.0
Lynd	42	− 9	20.3	T.	T.
Mapleplain	42	.....	.....	0.05	0.4
Maplewood *[1]	41	0	23.4	.....	.....
Milaca	44	− 7	18.8	0.00	0.0
Milan†	44	−10	19.5	T.	T.
Minneapolis *a*	42	− 5	21.5	0.08	0.8
Minneapolis *b*[1]	41*	− 6	20.5	0.05	0.5
Minnesota City *†[1]	42	− 6	21.5	0.67	6.5
Montevideo†	44	− 6	21.5	T.	T.
Morris	41	− 8	20.0	0.01	0.2
Mount Iron	35	−26	10.5	1.05	10.5
Newfolden	36	−28	6.0	0.25	2.5
New London	45	− 6	19.3	0.00	0.0
New Richland *[1f]	38	− 8	18.1	.....	.....
New Ulm†	43	− 6	22.3	0.08	1.5
Park Rapids†	37	−21	14.0	0.12	1.2
Pine River	38	−21	14.0	0.04	0.4
Pleasant Mounds	45	− 3	22.5	0.07	1.0
Pokegama Falls	40	−32	9.5	0.27	5.1
Redwing	.....	.....	.....	0.32	3.2
Rolling Green	45	− 5	21.2	0.30	3.0
Roseau	28	−31	4.9	0.22	2.9
St. Charles†	45	− 7	19.0	0.87	8.5
St. Cloud	38	−15	17.6	T.	T.
St. Olaf	38	− 9	17.2	0.04	0.8
St. Peter	45	− 2	23.8	0.10	1.0
Sandy Lake Dam	36	−25	13.3	0.12	2.0
Sauk Center	39	− 9	17.1	.....	.....
Shakopee[6]	40*	− 4	22.8	T.	T.
Spring Park	.....	.....	.....	0.05	0.5
Tower†	40	−36	8.8	0.80	8.0
Wabasha *[1]	40	− 3	20.8	0.26	3.0
Willmar†	41	− 5	20.4	T.	T.
Worthington	40	−21	20.4	0.15	1.8
Zumbrota[1]	42*	− 8	21.2	.....	.....
Mississippi.					
Agricultural College	76	16	48.4	7.87	T.
Austin†	71	13	48.5	13.58	
Batesville†	76	14	47.0	6.32	
Bay St. Louis	72	19	53.8	3.72	
Biloxi†	71	23	54.2	4.18	
Booneville	75	12	45.9	7.51	
Briers	78	22	54.3	8.58	
Brookhaven†	80	15	53.3	9.05	
Canton†	78	21	53.1	6.88	
Columbus *a*	.....	.....	.....	7.75	
Columbus *b*†	79	15	49.2	.....	
Corinth	75	13	46.4	8.44	
Crystal Springs†.	80	18	52.6	8.76	
Edwards	78	19	52.8	8.18	
Fayette	.....	.....	.....	9.17	
French Camps	78	10	48.5	7.57	
Greenville *a*	74	20	48.6	8.38	
Greenville *b*†	78	16	50.3	8.19	
Greenwood	78	16	49.2	11.39	
Hattiesburg†	77	19	53.8	1.82	
Holly Springs†	71	14	45.2	11.22	
Jackson†	79	18	51.1	7.33	
Kosciusko	76	15	49.8	.....	
Lake†	76	13	48.9	7.79	
Leakesville†	80	19	56.8	2.11	
Logtown†	77	23	56.3	2.85	
Louisville†	77	11	50.0	8.61	
Macon†	74	16	51.4	5.69	
Magnolia†.	79	17	54.2	8.32	
Mayersville[1]	89	34	52.8	4.40	
Meridian†	78	15	53.5	4.29	
Mosspoint	.....	.....	.....	2.80	
Natchez†	83	19	54.7	8.50	
Okolona†	71	11	45.6	8.64	
Palo Alto	79	14	51.2	5.33	
Pontotoc	84	11	49.0	7.67	
Poplarville	80	22	55.4	1.68	
Port Gibson†	82	17	52.4	8.96	
Ripley	77	10	47.0	9.63	
Rosedale *	77	13	48.2	8.46	
Stonington *[1]	80	20	54.0	.....	
Thornton	.....	.....	.....	6.16	
Tupelo†	.....	.....	.....	8.12	
University	77[b]	16[b]	48.8[b]	8.95	
Walnut Grove[6]	70	15	46.5	5.38	
Water Valley *†[1]	77	11	48.0	10.12	
Waynesboro *b*	.....	.....	.....	4.00	
Woodville†	79	21	54.4	9.03	
Yazoo City†	80	10	51.2	7.92	
Missouri.					
Appleton City	.....	.....	.....	4.57	.....
Arthur *[3]	.....	12	33.8	5.53	2.0
Avalon	.....	.....	.....	3.07	19.8
Bethany	49	1	28.2	6.00	46.0
Birchtree	61	5	36.0	3.39	0.0
Bolckow	.....	.....	.....	2.86	23.0
Boonville†	.....	.....	.....	4.52	2.5

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Missouri—Cont'd.	°	°	°	*Ins.*	*Ins.*
Brunswick	58	8	30.8	4.05	13.0
Carrollton†	58	11	32.8	3.41	19.0
Conception	51	9	30.0	3.47	29.0
Cowgill *[6]	54	2	31.3	5.00	21.5
Darksville†	58	6	30.7	4.82	11.0
Downing	.....	.....	.....	4.13	26.5
East Lynne *[3]	.....	10	33.8	4.62	9.0
Edgehill *[5]	58	6	36.4	3.69	0.0
Eightmile *[1]	62	8	33.7	4.76	9.8
Eldon	62	7	36.6	3.72	1.0
Elmira	60	1	29.2	4.80	15.5
Fairport	.....	.....	.....	3.94	28.0
Farmersville	.....	.....	.....	4.05	23.0
Fayette	63	8	34.9	4.41	10.0
Fulton	.....	.....	.....	4.14	2.0
Gallatin *[1]	55	6	30.0	5.13	28.0
Glasgow	62	7	32.8	4.66	16.0
Gordonville *[3]	.....	11	36.8	5.53	0.8
Gorin	.....	.....	.....	4.37	20.8
Halfway	66	12	37.1	2.80	0.5
Harrisonville†	63	6	32.2	3.87	8.2
Hermann†	.....	.....	.....	3.49	0.2
Houston	67	5	39.3	1.98	0.0
Houstonia	.....	.....	.....	4.59	13.6
Humansville	66	12	37.8	3.93	T.
Irena	.....	.....	.....	3.24	24.2
Ironton†	67	2	38.0	4.29	T.
Jefferson City†	61	10	36.6	4.61	0.0
Kidder	55	0	28.2	4.73	27.1
Lamar†	75	16	37.8	3.76	5.5
Lamonte	.....	.....	.....	3.96	14.0
Lebanon	63	9	38.0	3.33	0.5
Lexington	59	11	32.0	4.28	15.0
Liberty	59	5	31.3	5.92	21.0
Louisiana	56	5	33.2	3.85	5.0
McCune *†[1]	56	3	33.2	4.74	8.0
Mansfield	.....	.....	.....	3.70	0.1
Marblehill	68	2	38.8	4.64	0.5
Marshall†	60	8	32.1	4.02	13.0
Maryville	48	.....	.....	2.98	17.5
Mexico†	57	5	33.5	3.70	6.5
Mineralspring	66	12	38.3	3.16	T.
Montreal	62	2	37.3	3.87	1.0
Mount Vernon	70	15	40.1	4.45	T.
Neosho	70	14	39.4	3.44	T.
Nevada *[1]	70	13	36.3	4.78	5.5
New Haven *[1]	58	9	38.1	3.26	0.1
New Palestine	67	10	37.6	3.08	3.0
Oakfield	60	4	36.2	3.95	2.0
Oakmound	.....	.....	.....	3.49	0.0
Oakridge *[4]	.....	10	36.3	.....	.....
Olden†	68	7	37.6	3.48	T.
Oregon *a*	52	6	29.8	3.62	27.4
Oregon *b*	56	6	31.0	3.28	23.1
Osceola†	.....	.....	.....	2.25	2.0
Oto	.....	.....	.....	4.60	T.
Palmyra *[5]	52	2	31.8	4.30	14.0
Phillipsburg *†[1]	61	10	36.6	2.84	T.
Pickering *[3]	52	2	29.1	2.72	16.2
Platte River *[3]	54	3	27.3	3.58	19.0
Poplar Bluff	73	7	42.4	7.31	0.0
Potosi	59	−10	30.4	3.96	.....
Rhineland	59	8	36.6	3.62	0.2
Richmond	58	10	30.2	4.73	17.0
Rolla	.....	.....	.....	3.05	1.2
St. Charles	58	6	35.2	3.65	0.5
St. Louis	62	4	35.0	4.18	T.
Sarcoxie *[3]	.....	14	34.5	3.37	2.8
Sedalia	60	7	33.0	2.88	7.5
Seymour	62	9	37.8	3.17	T.
Shelbina	.....	.....	.....	3.00	9.0
Sikeston	70	11	40.1	6.46	0.4
Steffenville	52	9	33.4	4.59	15.0
Stellada†	62	10	33.3	3.39	8.5
Sublett	54	− 1	28.4	2.66	17.1
Trenton	52	6	30.0	3.30	23.0
Vichy	60	4	36.4	3.08	2.0
Virgil City	.....	.....	.....	4.33	3.5
Warrenton	58	5	33.1	3.91	2.0
Wheatland	.....	.....	.....	4.08	T.
Willow Springs	66	2	36.4	3.43	0.0
Zeitonia	70	5	39.3	3.06	0.0
Montana.					
Augusta	55	−22	26.6	0.36	6.3
Bigtimber	54	−10	24.6	0.35	5.5
Billings	48	− 1	24.6	0.22	2.2
Bozeman†	44	− 7	19.2	0.60	6.0
Castle	39	−12	19.8	0.31	3.1
Chinook†	42	− 8	22.3	0.25	2.5
Columbia Falls	42	− 1	24.4	1.51	15.0
Deer Lodge	43	− 7	18.0	0.10	1.0
Dupuyer	50	− 2	28.4	.....	.....
Fort Benton	58	− 5	29.6	0.10	1.0
Fort Keogh†	45	−15	19.7	0.21	2.0
Fort Logan	55	−12	19.0	0.09	.....
Fort Missoula	41	− 4	18.8	0.51	4.3

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Montana—Cont'd.	°	°	°	*Ins.*	*Ins.*
Glasgow	40	—15	15.8	0.20	1.0
Glendive †	43	— 7	22.1	0.20	2.0
Glenwood	41	— 7	20.9	0.94	9.3
Greatfalls †	64	0	30.7	0.28	2.8
Kalispell	40	— 8	20.1	0.60	6.0
Kipp †	47	—18	23.8	0.27	2.7
Lewistown	49	— 9	24.4	0.55	5.0
Livingston †	45	— 4	24.5	T.	T.
Manhattan †	44	—18	15.6	0.25	2.5
Martinsdale †	45	—10	23.6	0.40	4.0
Marysville †	42	— 4	20.4	0.46	4.6
Parrot	49	— 5	21.8	1.00	10.0
Poplar	40	— 9	18.6	T.	T.
Radersburg	49	—10	23.4	0.25	2.5
St Ignatius Mission	43	— 2	26.2	0.81	10.2
St. Pauls †	48	—10	24.5	0.60	6.0
Troy	42	5	24.6	0.70	7.0
Utica	45	— 4	23.2	0.70	7.0
Virginia City †	41	— 8	18.8	0.74	7.5
Wibaux	44	—10	21.9	T.	T.
Yale	71	— 8	24.2	0.30	3.0
Nebraska.					
Agee *[1]	48	4	26.0	0.65	6.5
Albion	49	— 2	26.5	0.60	6.0
Alliance *[1]	50	—12	19.9	1.14	15.5
Alma *[1]	70	0	31.5	0.19	2.0
Ansley †	56	— 6	26.4	0.35	3.5
Arapaho *[1]	58	0	26.1	0.30	3.0
Arborville *[1]	50	6	29.0	0.55	5.5
Ashland *a* †	46	2	27.8	0.31	3.5
Ashland *b* *[1]	44	8	29.8	0.54	4.2
Ashton	51	— 1	27.2	0.28	4.5
Auburn *†	51	— 2	28.9	1.45	14.6
Aurora *[1]	56	9	29.7	0.30	2.5
Beatrice †	63	2	26.9	1.70	17.0
Beaver City †	61	1	30.7	0.18	2.0
Benedict	.....	.....	.....	0.92	6.0
Benkelman	.....	.....	.....	0.20	2.0
Blair	43	4	25.6	0.61	6.5
Bluehill *[1]	56	6	30.1	0.30	2.5
Brokenbow	.....	.....	.....	0.70	7.0
Burwell	.....	.....	.....	1.00	10.0
Callaway †	57	— 6	25.5	0.45	5.0
Camp Clarke	.....	—20	.....	1.20	12.0
Central City	.....	.....	.....	0.50	5.0
Cody	.....	.....	.....	0.60	6.0
Columbus †	47	3	28.7	0.40	3.2
Cornlea	.....	.....	.....	0.46	.....
Creighton †	44	— 3	24.2	0.21	2.1
Crete	49	1	29.1	0.29	2.9
Culbertson	.....	.....	.....	0.40	4.0
Curtis *a*	62	— 2	30.4	0.60	6.0
Dannebrog	50	4	34.0	0.40	4.0
David City *†	46	6	27.3	0.75	7.0
Dawson	57	2	30.2	1.29	12.5
Divide	.....	.....	.....	0.60	6.0
Dunning *[1]	45	10	29.7	1.30	13.0
Eden	.....	.....	.....	1.70	17.0
Edgar *[1]	47	7	28.9	0.50	5.0
Elba	.....	.....	.....	0.80	8.0
Ericson *† [1]	38	— 8	24.7	0.70	7.0
Ewing †	.....	.....	.....	0.70	7.0
Fairbury †	59	5	29.4	1.02	10.2
Fairmont †	52	9	28.9	0.65	6.5
Fort Robinson	60	—12	23.4	1.70	17.0
Franklin	61	4	30.2	0.30	3.0
Fremont †	43	0	27.4	0.50	5.0
Geneva †	50	9	29.8	0.86	8.6
Genoa	49	4	27.8	0.58	7.0
Gordon	.....	.....	.....	0.20	.....
Gothenburg	58	— 3	26.9	1.20	12.0
Grand Island *a* *[1]	60	10	33.0	0.20	2.0
Grand Island *b*	53	4	29.2	0.35	3.4
Greeley *[1]	40	—10	25.5	0.55	5.5
Haigler	.....	.....	.....	0.00	0.0
Hartington †	43	— 4	23.6	1.10	11.0
Harvard	51	8	29.4	0.30	3.0
Hastings *[1]	52	9	29.5	0.30	3.5
Hayes Center	.....	.....	.....	0.45	4.5
Hay Springs	50	0	22.6	0.40	5.5
Hebron †	58	3	28.8	1.16	10.8
Hickman	.....	.....	.....	0.87	8.8
Holdrege *b* *[1]	55	3	30.8	0.80	8.0
Imperial †	60	— 4	28.4	0.50	4.5
Indianola (near) *[1]	60	5	27.8	0.60	6.0
Johnstown	.....	.....	.....	0.35	4.0
Kearney *[5]	48	0	29.8	.....	.....
Kennedy	54	— 1	25.2	1.52	15.0
Kimball †	58	—11	25.2	0.65	6.5
Kirkwood *[1]	51	5	25.8	0.60	6.0
Lexington †	54	— 1	28.2	0.30	3.0
Lincoln *b* †	48	6	29.2	0.47	4.9
Lodgepole †	58	— 6	25.2	0.40	4.0
Loup *b* *[1]	60	— 8	28.8	0.50	5.5
Lynch *† [1]	50	— 6	26.0	0.36	4.4
Lyons	.....	.....	.....	0.42	4.2
Nebraska—Cont'd.	°	°	°	*Ins.*	*Ins.*
McCook	.....	.....	.....	0.20	2.0
McCool	.....	.....	.....	0.40	4.0
Madison	.....	.....	.....	0.60	6.0
Madrid *[5]	60	— 3	26.6	0.75	7.5
Marquette	.....	.....	.....	0.47	4.8
Merriman	.....	.....	.....	0.40	4.0
Minden *a*	55	2	28.5	0.31	1.9
Minden *b*	.....	.....	.....	0.25	.....
Monroe	.....	.....	.....	0.31	.....
Nebraska City *b*	.....	.....	.....	1.67	16.5
Nebraska City *c*	47	0	24.6	1.30	13.0
Nemaha *[1]	44	— 2	26.7	1.95	17.0
Nesbit	54	— 5	25.6	1.55	15.0
Norfolk *a* †	44	2	25.6	0.30	3.0
Norfolk *b*	45	— 2	25.2	0.69	6.8
Norman	.....	.....	.....	0.95	9.5
North Loup	52	— 6	26.4	0.55	5.5
Oakdale †	46	— 6	24.8	0.55	6.0
Odell *[5]	52	2	29.6	1.50	15.0
O'Neill †	45	— 1	24.5	0.38	4.0
Ord	50	— 5	26.7	0.60	7.0
Osceola	.....	.....	.....	0.05	0.5
Ough †	.....	.....	.....	0.20	2.0
Palmer *b*	.....	.....	.....	0.40	4.0
Plattsmouth *[1]	44	10	30.1	0.85	8.5
Ravenna *a*	54	— 2	29.2	0.33	3.2
Redcloud *a*	.....	.....	.....	0.52	7.0
Redcloud *b* *[1]	54	— 9	29.7	0.45	4.5
Republican *[1]	52	2	28.5	0.10	1.0
Rulo *[1]	54	9	32.2	2.75	17.0
St. Libory	51	0	29.6	0.38	3.8
St. Paul	48	6	30.6	6.56	5.5
Salem *[1]	50	6	28.8	0.85	8.5
Santee Agency †	47	— 1	27.2	0.66	6.8
Sargent	.....	.....	.....	0.59	6.0
Schuyler	.....	.....	.....	0.40	4.0
Seneca *[1]	54	0	26.6	0.52	5.0
Seward *[1]	48	10	29.7	0.50	5.0
Springview	54	— 1	26.5	0.15	1.5
Stanton *[1]	42	— 1	25.4	0.45	4.5
Stockham	.....	.....	.....	0.80	6.0
Strang *[1]	52	8	30.8	0.90	9.0
Stratton	.....	.....	.....	0.17	.....
Superior *[5]	50	2	28.2	1.00	10.0
Sutton	48	7	27.3	0.66	4.2
Syracuse	.....	.....	.....	1.75	17.5
Tecumseh *b* †	57	— 2	31.0	1.15	11.5
Tekamah	44	3	26.4	0.75	7.5
Thedford *[1]	50	—10	24.6	1.20	12.0
Turlington †	.....	.....	.....	1.82	18.7
Valentine †	54	— 8	25.4	0.44	.....
Valparaiso	.....	.....	.....	0.70	7.0
Wakefield	39	— 5	22.6	0.36	3.5
Wallace	.....	.....	.....	1.05	10.5
Weeping Water *[1]	42	— 5	23.5	1.21	14.2
Westpoint †	41	3	26.0	0.32	3.2
Whitman	.....	.....	.....	0.25	2.5
Wilber *[1]	52	10	33.5	0.47	4.8
Willard	.....	.....	.....	1.60	16.0
Wilsonville *[1]	56	2	30.1	0.15	1.5
Wisner	.....	.....	.....	0.74	6.2
Wymore *[1]	51	3	30.0	1.15	11.5
York *[1]	50	12	29.2	0.50	5.0
Nevada.					
Austin	48	— 6	22.8	1.60	19.5
Battle Mountain *[1]	43	—15	16.6	0.47	5.2
Beowawe *[1]	48	—22	16.8	0.56	6.0
Blaine	43	—19	17.5	1.53	17.0
Bunkerville	.....	.....	.....	1.08	2.0
Candelaria	63	2	30.0	0.12	2.5
Carlin *[1]	45	—20	11.9	T.	T.
Carson City	56	— 6	23.6	0.58	7.6
Cranes Ranch	.....	.....	.....	0.56	6.1
Elko *[8]	45	—20	15.2	0.80	8.0
Elko (near)	46	—28	12.9	0.78	8.5
Ely	48	—15	16.9	1.40	14.0
Empire Ranch	50	—20	17.3	1.09	12.0
Fenelon *[1]	45	—21	12.5	0.69	7.5
Golconda *[1]	46	—10	18.6	0.27	3.0
Halleck *[1]	44	—25	8.5	0.74	8.0
Hawthorne *a* *[8]	54	4	26.4	0.47	4.7
Hawthorne *b*	56	— 4	26.3	0.30	4.5
Hot Springs *[1]	45	0	27.8	T.	T.
Humboldt *[1]	50	—10	24.3	0.93	10.0
Keysers Springs	.....	.....	.....	0.45	5.0
Lewers Ranch	54	— 2	25.8	0.86	6.8
Los Vegas	56	11	33.2	0.51	1.5
Lovelock *[1]	45	— 9	20.5	0.37	3.4
McGill	49	—20	15.6	0.23	2.5
Martins	49	— 9	22.5	0.81	5.0
Midas	50	— 5	22.8	1.32	17.5
Mill City *[1]	58	—12	20.9	0.30	3.5
Monitor Mill	48	—18	19.2	0.54	7.5
Osceola	55	— 2	23.9	1.08	11.5
Palisade *[1]	49	—10	25.2	0.28	1.5
Palmetto	61	—11	23.1	0.40	4.0
Nevada—Cont'd.	°	°	°	*Ins.*	*Ins.*
Reno *[8]	46	— 4	23.4	.....	5.5
Reno State University	53	— 6	22.2	0.99	10.4
Ruby Valley	.....	.....	.....	0.41	7.2
St. Clair	51	1	21.0	0.49	8.7
St. Thomas	66	10	34.3	1.00	.....
San Antonio	56	— 5	22.2	0.11	1.0
Silverpeak	55	— 4	25.0	0.24	5.0
Sodaville	59	— 3	25.2	0.23	2.5
Tecoma *[1]	43	—10	13.4	0.31	3.5
Toano *[1]	46	—16	13.3	1.39	15.0
Tybo	44	— 5[k]	20.2[e]	0.78	12.0
Verdi *[1]	48	— 4	28.4	.....	.....
Wadsworth *[1]	44	— 8	19.3	0.83	9.0
Wells	35	—28	13.5	.....	11.5
New Hampshire.					
Alstead	38	—14	17.8	5.19	28.9
Berlin Mills	44	—35	13.4	2.62	27.5
Bethlehem	48	—19	15.2	2.85	26.5
Brookline *[1]	48	—15	23.2	3.82	55.5
Claremont	42	—15	17.8	5.25	51.0
Concord	50	—24	19.6	4.94	33.7
Durham	50	—14	21.4	3.59	32.0
Grafton †	46	—25	16.8	4.34	35.5
Hanover	42	—19	15.5	4.89	43.3
Keene	48	—23	19.4	4.68	25.0
Lancaster	40	—32	12.8	3.69	32.0
Littleton	46	—17	18.1	4.42	22.5
Nashua	50	—18	22.0	5.84	37.0
Newton	50	—14	22.0	6.12	43.0
North Conway	44	—23	16.0	6.00	51.0
Peterboro	46	—22	18.4	6.82	43.6
Plymouth	47	—28	15.6	5.38	48.9
Sanbornton †	45	—16	17.2	4.74	36.0
Stratford	39	—27	15.9	3.12	23.0
Warner	.....	.....	.....	5.28	33.0
West Milan	45	—37	12.5	4.25	37.5
New Jersey.					
Asbury Park	58	6	34.2	3.97	7.0
Barnegat	.....	.....	.....	3.47	8.0
Bayonne	59	6	33.0	4.30	12.2
Belvidere	53	2	30.2	4.33	12.3
Beverly †	59	7	33.5	4.75	10.2
Billingsport *[1]	52	9	33.3	3.50	10.0
Boonton	53	3	29.8	4.89	12.2
Bridgeton	59	16	37.4	3.98	0.3
Camden	58	11	33.4	4.17	10.5
Cape May C. H. †	60	14	37.2	3.71	0.8
Charlotteburg	51	2	29.2	4.79	9.0
Chester	50	2	29.1	4.74	12.0
Clayton	59	12	34.2	2.79	5.2
College Farm †	63	4	33.0	4.13	8.0
Deckertown	50	— 4	28.7	4.43	12.5
Dover	52	0	29.2	4.96	17.0
Egg Harbor City	59	8	34.0	3.37	4.0
Elizabeth †	56	7	32.8	4.70	21.0
Englewood	52	—10	29.8	5.90	18.5
Franklin Furnace	50	— 4	28.6	3.71	10.0
Freehold	59	5	33.1	5.32	11.1
Friesburg	60	13	34.6	3.50	4.2
Gillette	55	4	31.0	4.42	14.0
Hammonton	.....	.....	.....	3.33	6.0
Hanover	53	5	31.7	3.84	8.0
Hightstown	59	6	33.2	4.71	9.5
Imlaystown	60	8	34.2	4.20	9.0
Junction	.....	.....	.....	4.61	9.8
Lambertville	56	10	32.4	4.44	11.7
Moorestown	64	9	33.8	4.76	11.2
Newark *b* †	55	6	32.8	4.99	12.5
New Brunswick *a*	57	7	33.4	4.47	10.4
Newton	51	3	28.8	4.62	11.0
Ocean City	60	12	36.6	3.35	0.5
Oceanic	60	8	34.2	5.04	10.0
Paterson	57	7	33.2	4.81	17.8
Perth Amboy	60	5	32.3	4.39	8.3
Plainfield	56	6	30.9	4.90	12.8
Port Norris	55	14	36.2	.....	.....
Rancocas	.....	.....	.....	4.56	9.4
Rivervale	59	—10	30.2	4.69	14.0
Roseland	52	— 1	29.4	4.84	13.3
Sergeantsville	53	4	31.2	4.35	10.0
Somerville	57	4	31.6	4.35	10.4
South Orange	55	6	31.6	4.32	15.0
Staffordville	.....	.....	.....	3.48	4.0
Toms River	58	— 3	33.2	4.02	8.0
Trenton	60	8	36.5	4.50	11.0
Vineland	59	11	35.4	3.65	4.5
Woodbine	62	10	35.4	3.26	.....
New Mexico.					
Albert	67	5	36.2	0.22	0.7
Albuquerque †	52	0	30.8	0.58	5.4
Aztec †	52[f]	—16[f]	18.2[f]	0.67	6.8
Bernalillo †	54	5	32.5	0.52	5.2
Bluewater	55	— 8	27.0	0.20	2.0
Buckmans	47	—24	14.0	1.28	16.5
Clayton	73	7	36.6	0.40	4.0
Deming *[8]	60	17	36.0	.....	4.0

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
New Mexico—Cont'd.	°	°	°	*Ins.*	*Ins.*
East Lasvegas †	59	− 6	31.2	0.51	6.7
Eddy	78	12	40.8	0.15	0.5
Engle †	65	6	35.7	T.	T.
Espanola	51	−15	23.3	0.45	4.5
Folsom	62	− 8	29.6	.....	.....
Fort Bayard	65	− 1	32.6	1.25	8.0
Fort Union	76	0	36.2	0.39	2.5
Fort Wingate	65	−10	26.3	0.66	6.6
Galisteo †	52	2	28.5	0.75	7.5
Gallinas Spring †	62	0	31.8	0.29	5.0
Gila	63	4	37.3	1.83	5.5
Hillsboro	71	9	37.5	0.67	1.0
Laluz	64	16	39.3	0.63	1.5
Las Cruces †	68	7	37.3	0.38	.....
Lordsburg *[8]	65	6	37.2	0.50	4.0
Los Lunas	58	−10	27.5	1.30	9.5
Lower Penasco	70	10	37.0	0.60	3.5
Raton	73	− 7	28.6	0.20	2.0
Rincon †	72	14	38.9	0.62	.....
Roswell †	70	2	36.0	0.26	6.0
Shattucks Ranch	67	9	39.0	0.35	3.5
Socorro	60	4	32.0	0.78	2.0
White Oaks †	55	− 3	30.0	2.21	19.5
Winsors Ranch	54	−14	23.3	2.43	25.0
New York.					
Adams	.....	.....	.....	3.63	.....
Addison	52	− 9	27.7	3.91	7.5
Akron	.....	.....	.....	4.65	.....
Alden	58	−10	27.2	3.80	7.0
Alfred [d]	57	−15	23.2	.....	.....
Angelica †	56	−17	26.4	3.16	15.0
Appleton	55	5	27.4	3.23	13.7
Arcade	56	−14	24.8	4.29	17.5
Arkwright	56	− 1	27.4	.....	.....
Atlanta	.....	.....	.....	3.35	.....
Auburn	54	− 6	27.2	3.89	13.0
Avon	55	− 5	27.1	1.98	.....
Baldwinsville	54	− 8	24.4	4.50	14.0
Bedford	57	− 6	29.6	4.46	15.9
Big Sandy *[10]	46	−20	20.6	.....	.....
Binghamton †	57	− 9	26.0	3.93	12.5
Bolivar	58[e]	−16[e]	25.6[e]	3.91	12.0
Bouckville	42	−16	20.6	5.30	24.0
Boyds Corners	.....	.....	.....	4.68	.....
Brentwood	57	−10	30.7	6.10	16.5
Brooklyn	54	7	32.6	5.10	12.0
Canajoharie	42	−10	23.8	3.14	23.5
Canton	40	−37	13.8	6.76	29.0
Carmel	50	−10	26.2	4.97	12.5
Catskill	50	− 9	25.6	4.46	13.0
Cedar Hill	50	−13	23.8	3.35	17.5
Charlotte *[10]	52	3	28.8	.....	.....
Cherry Creek	.....	.....	.....	6.19	.....
Cooperstown †	50	−15	21.8	4.90	23.5
Cortland	52	− 9	25.4	4.74	33.0
Dekalb Junction	.....	.....	.....	4.76	.....
Dryden	54	− 7	25.0	.....	.....
Eagle Mills	.....	.....	.....	2.84	.....
Easton	.....	.....	.....	4.02	.....
Elizabethtown	42	−26	15.6	4.40	15.0
Elmira	56	0	28.6	2.45	11.5
Fayetteville	.....	.....	.....	2.76	.....
Fleming	53	− 4	26.4	1.33	10.0
Fort Niagara †	57	5	28.3	2.49	.....
Franklinville	57	−26	24.8	4.78	16.8
Fulton	.....	.....	.....	3.71	.....
Garrattsville	48	−11	24.2	5.34	59.0
Glens Falls	45	−14	18.1	5.03	23.0
Gloversville	49	−22	19.8	6.90	38.0
Greenwich	45	−22	19.2	5.22	24.8
Haskinsville	.....	.....	.....	2.29	.....
Honeymead Brook	47	− 9	25.4	4.92	13.0
Humphrey †	56	− 4	26.4	4.57	21.3
Ithaca	53	− 4	26.1	2.21	9.4
Jamestown	58	− 3	28.5	5.55	31.0
Keene Valley	42	−19	14.8	7.20	29.0
Kings Station	.....	.....	.....	5.25	.....
Lake George	49	−21	18.2	5.36	38.8
Lake Placid	51	−20	17.6	3.23	24.0
Little Falls	52	−16	20.0	4.42	21.0
Lockport	52	7	28.5	3.50	13.0
Lowville	53	−29	18.3	4.32	33.0
Lyndonville	.....	.....	.....	2.28	.....
Lyons	54	− 2	28.4	4.62	25.5
Madison Barracks †	45	−25	19.6	2.64	27.6
Middletown	48	− 4	26.0	.....	.....
Mohonk Lake	45	− 5	25.2	5.07	19.0
Mount Morris	.....	.....	.....	2.85	14.5
Napoli	.....	.....	.....	4.99	.....
Newark Valley	.....	.....	.....	4.04	.....
New Lisbon	50	−20	21.4	4.37	28.5
Niagara Falls	.....	.....	.....	3.63	.....
North Hammond †	44	−22	18.0	2.57	17.0
North Lake	42	−30	13.0	7.13	49.0
Number Four †	46	−25	17.4	5.55	34.0
Ogdensburg	43	−21	16.2	2.82	8.0

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
New York—Cont'd.	°	°	°	*Ins.*	*Ins.*
Oneonta	55	−10	26.7	3.61	.....
Oxford	45	−15	23.8	4.76	19.2
Palermo	42	−22	21.8	2.91	15.2
Penn Yan	54	0	27.3	2.57	9.8
Perry City	47	− 6	23.5	2.47	12.4
Phœnix	.....	.....	.....	4.50	.....
Pine City	.....	.....	.....	3.47	.....
Plattsburg Barracks †	40	−22	15.0	.....	.....
Port Jervis	50	− 6	26.6	4.21	16.0
Poughkeepsie	51	−18	25.0	5.27	13.0
Primrose	57	− 4	30.6	3.83	13.5
Ridgeway	57	2	27.0	3.69	12.4
Rome	44	−13	19.8	5.44	.....
Romulus	53	− 4	27.0	4.05	11.0
Rose	.....	.....	.....	5.90	.....
St. Johnsville	49	−17	22.6	5.19	24.3
Saranac Lake	48	−32	14.5	3.39	24.8
Setauket †	54	6	32.7	4.00	6.0
Sherwood	.....	.....	.....	2.67	.....
Skaneateles	.....	.....	.....	3.69	.....
South Canisteo	58	− 8	26.8	3.90	19.5
Southeast Reservoir	.....	.....	.....	4.60	.....
South Kortright †	49	−14	22.7	2.84	.....
Straits Corners	50[c]	− 8[c]	24.4[c]	3.14	13.6
Ticonderoga	45	−19	18.6	6.66	32.8
Victor	55	− 3	25.3	3.15	23.5
Wappingers Falls	52	−15	26.2	5.17	25.5
Warwick	.....	.....	.....	2.74	.....
Watertown	49	−26	20.3	5.65	.....
Watkins	55	− 1	27.3	.....	11.4
Waverly †	55	−13	27.3	2.65	11.2
Wedgwood	51	− 1	25.6	2.73	18.0
Westfield	62	13	32.0	2.56	6.0
Westpoint †	47	− 9	23.2	1.10	4.8
Willetspoint	55	7	32.2	5.13	5.0
North Carolina.					
Asheville †	70	9	40.6	3.60	1.5
Beaufort †	71	21	50.2	2.28	T.
Biltmore †	73	11	40.9	3.28	1.4
Bryson City †	.....	.....	.....	6.40	4.0
Chapelhill †	73	14	42.6	1.85	
Edenton	72	19	45.9	2.79	T.
Experimental Farm	71	24	45.2	1.92	1.5
Fairbluff †	.....	.....	.....	1.40	0.4
Fayetteville †	78	14	47.4	2.19	0.5
Flatrock	68	9	38.9	5.35	0.8
Greensboro †	71	13	42.1	1.96	.....
Greenville	.....	.....	.....	1.86	T.
Henderson †	74	14	42.8	2.14	1.0
Highlands	63	0	36.8	6.09	2.8
Lenoir * † [1]	69	16	39.9	3.21	1.5
Linville †	61	4	35.6	4.38	5.5
Littleton †	73	13	41.8	1.94	0.2
Louisburg †	73	17	44.5	2.29	.....
Lumberton †	76	20	48.4	1.92	T.
Lynn †	74	19	46.0	3.67	1.0
Mana	.....	.....	.....	2.18	1.0
Marion	75	12	42.6	4.52	1.5
Mocksville	73[1]	27[1]	47.6[1]	2.52	2.0
Moncure †	75	17	46.0	1.75	T.
Monroe †	72	15	44.0	2.34	1.0
Morganton	74	12	39.7	3.25	1.0
Mountairy	70	11	39.6	3.47	1.5
Mount Pleasant	73	14	44.4	2.34	1.5
Murphy †	.....	.....	.....	5.85	1.6
Newbern †	80	24	52.8	1.95	T.
Oakridge †	70	18	41.6	2.42	3.0
Pantego	.....	.....	.....	1.95	T.
Pittsboro †	73	17	43.5	1.77	2.0
Rockingham †	76	16	46.7	2.44	1.0
Roxboro †	73	10	40.3	2.15	4.0
Salem †	71	15	41.0	2.20	1.5
Salisbury †	73	15	44.4	1.86	1.5
Saxon †	72	7	42.0	2.35	2.0
Selma	75	18	44.8	1.68	3.8
Settle	72	10	41.0	2.60	1.5
Sloan †	77	18	49.8	2.40	0.7
Soapstone Mount †	71	8	42.0	2.15	2.0
Southern Pines *a* †	76	15	49.1	1.89	0.5
Southern Pines *b*	74	19	48.0	1.98	0.5
Southport †	72	18	49.6	1.54	
Springhope *[1]	70	20	42.5	1.75	1.0
Tarboro	77	12	44.1	2.05	0.3
Wash Woods	.....	.....	.....	1.88	
Waynesville †	69	4	39.8	4.36	1.0
Weldon †	75	16	44.9	2.40	T.
North Dakota.					
Amenia	39	−15	14.5	0.02	0.2
Aneta	36	−20	14.1	0.06	0.6
Ashley †	43	−15	15.8	T.	T.
Buxton	36	−15	12.6	T.	T.
Churchs Ferry	38	−18	11.9	0.24	2.4
Devils Lake	50	−11	14.2	0.20	2.0
Dickinson	42	− 9	17.0	T.	T.
Dunseith	32	−18	7.8	T.	T.
Ellendale	46	− 8	19.5	T.	T.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
North Dakota—Cont'd.	°	°	°	*Ins.*	*Ins.*
Falconer	45	−15	15.6	0.10	1.0
Fargo †	40	−16	14.0	0.06	0.6
Forman †	40	−10	15.8	0.00	0.0
Fort Berthold	69	−14	21.1	0.04	0.5
Fort Yates †	51	− 5	20.4	0.20	2.0
Gallatin †	40	−22	10.4	0.16	1.6
Glenullin	45	−11	17.6	T.	T.
Goetz	39	−15	16.4	T.	T.
Grafton †	37	−24	8.8	0.05	0.5
Grand Rapids †	45	−10	17.2	0.45	4.5
Hamilton	36	−20	7.8	0.39	4.2
Jamestown †	41	−11	16.1	0.02	0.2
Kelso	38	−15	13.0	0.00	0.0
Larimore †	38	−17	11.2	T.	T.
McKinney	35	−32	11.2	0.05	0.5
Mayville	40	−11	17.4	0.05	0.5
Medora †	42	−10[d]	15.6	0.00	0.0
Melville	39	−13	15.8	T.	T.
Milton †	32	−20	7.4	0.30	3.0
Minnewaukon	38	−16	12.4	T.	T.
Minot	52	− 6	17.4	0.06	0.6
Minto †	39	−22	10.6	0.10	1.0
Napoleon †	41	−14	15.8	0.65	6.5
New England City	42	−12	19.2	0.20	2.0
Oakdale †	41	− 5	22.0	0.06	0.6
Portal	35	−19	12.5	0.00	0.0
Power †	41	−14	15.5	.....	.....
St. John †	34	−15	13.2	0.10	1.0
Sheyenne	38	−16	12.8	0.05	0.5
Steele †	45	−14	16.2	0.23	2.3
Towner †	38	−10	11.8	.....	.....
University	38	−15	12.4	0.10	1.0
Valley City †	.....	.....	.....	0.20	2.0
Wahpeton †	47	− 9	19.8	T.	T.
White Earth	39	1	19.6	0.10	1.0
Wildrice † [2]	.....	.....	13.6	0.22	2.2
Willow City [d]	36	− 8	10.4	.....	.....
Woodbridge †	32	−23	6.8	0.09	0.9
Ohio.					
Akron	63	5	32.0	4.51	9.2
Annapolis	65	0	31.0	3.26	6.5
Ashland	62	− 2	28.8	4.99	5.0
Ashtabula	62	10	31.1	4.41	12.0
Atwater	.....	.....	.....	4.37	6.5
Bangorville	62	− 3	30.7	5.08	4.0
Basil	.....	.....	.....	4.79	2.0
Bellefontaine	61	6	32.2	3.26	1.5
Bement	.....	.....	.....	4.11	5.2
Benton Ridge	63	6	31.4	5.46	7.2
Bethany	65	8	36.0	5.84	.....
Bigprairie	64	0	31.6	5.04	2.0
Binola	.....	.....	.....	3.64	10.0
Bissells	60	1	30.5	4.10	14.9
Bladensburg	64	−12	30.9	5.11	3.0
Bloomingburg	64	− 3	34.1	6.05	5.0
Bowling Green	65	4	30.0	3.75	2.0
Bucyrus	60	− 4	31.1	3.80	.....
Cambridge	65	− 3	32.0	5.59	4.0
Camp Dennison	66	4	35.4	7.95	1.1
Canal Dover	64	− 5	32.0	4.65	3.0
Canton †	71	3	32.9	4.64	6.9
Cardington	63	−10	28.8	3.84	1.0
Carrollton	63	− 1	32.8	5.09	7.0
Cedarville	.....	.....	.....	9.45	3.0
Celina	65	5	31.4	5.19	1.0
Cherryfork	68	− 2	35.3	11.69	1.0
Chillicothe	68	− 3	36.0	3.40	3.0
Circleville	67	− 6	35.2	6.26	6.0
Clarksville	65	− 2	34.1	6.98	2.0
Cleveland *a*	64	10	32.3	3.41	3.4
Cleveland *b*	65	7	30.6	2.76	5.5
Clifton	64	− 9	32.5	5.68	2.3
Coalton	67	−12	35.8	7.09	3.0
Colebrook	61	4	31.0	2.98	8.0
Dayton *a*	67	− 5	34.0	5.95	2.0
Dayton *b* †	.....	.....	.....	5.02	0.7
Defiance	65	5	29.9	3.87	2.6
Delaware	64	− 5	32.6	4.96	3.0
Demos	63	0	31.7	3.79	3.0
Dupont	58	2	29.5	2.20	4.0
Elyria	63	4	30.4	6.63	13.5
Fairport Harbor *[10]	60	12	31.3	.....	.....
Fayetteville	65	− 4	34.2	7.87	3.5
Findlay	65	6	31.4	4.26	4.0
Frankfort	67	−11	34.6	5.55	T.
Garrettsville †	62	− 9	29.8	4.82	10.8
Granville	65	−12	31.1	5.99	3.1
Gratiot	63	− 6	32.4	5.15	4.7
Greenfield	65	− 1	35.9	6.30	1.0
Greenhill	62	− 5	30.6	4.26	4.7
Greenville	63	2	31.4	4.52	2.0
Hackney	57	− 4	34.5	7.42	6.0
Hanging Rock	70	1	38.4	8.32	T.
Hedges	64	7	30.2	5.68	8.0
Hillhouse	63	6	29.2	3.71	15.0
Hillsboro †	66	−11	35.0	8.15	1.0

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Ohio—Cont'd.	°	°	°	*Ins.*	*Ins.*
Hiram	61	4	28.6	4.41	10.5
Hudson	61	— 4	29.6	5.49	9.5
Jacksonboro	65	4	33.8	6.70	2.0
Kenton †	64	4	31.8	4.54	1.3
Killbuck	63	— 1	31.6	2.63	2.5
Lancaster	67	—10	33.6	5.80	2.5
Leipsic	62	3	29.6	4.34	5.0
Levering	62	—18	28.8	5.29	3.0
Logan	68	—12	35.2	7.20	3.5
Lordstown	63	0	29.6	4.15	5.2
McArthur	67	—17	33.7	7.81	8.0
McConnelsville †	70	— 3	34.4	6.87	4.0
Mansfield †	.....	.....	.....	5.47	5.0
Marietta *b*	66	6	38.0	5.74	1.5
Marion	63	— 7	31.1	4.04	1.0
Medina	64	— 3	30.8	4.27	6.0
Milfordton	60	—10	28.6	5.21	5.5
Milligan	68	—15	33.6	5.78	11.0
Millport	63	— 1	30.6	4.47	4.8
Montpelier	61	6	28.4	3.72	14.5
Napoleon	62[e]	5	29.7[e]	3.84	3.0
Neapolis	.....	.....	.....	3.16	.....
New Alexandria	65	3	32.2	5.28	3.0
New Berlin	60	— 3	30.1	3.82	5.0
New Bremen	52	8	33.3	3.28	1.0
New Holland	65	— 7	32.9	6.36	2.5
New Moscow	.....	.....	.....	4.79	2.2
New Paris	53	2	31.5	5.72	0.7
New Waterford	62	4	33.0	6.43	11.0
North Lewisburg	63	— 2	30.0	5.71	3.2
North Royalton	62	0	30.1	4.33	10.0
Norwalk	65	1	31.8	4.14	2.8
Oberlin	64	7	31.6	3.60	4.0
Ohio State University	66	—11	32.8	5.34	1.0
Orangeville	62	— 6	30.2	4.06	6.0
Ottawa	65	9	33.2	4.23	5.0
Pataskala †	64	—13	31.9	6.28	2.0
Perry	.....	.....	.....	2.76	4.8
Philo	64	1	32.8	6.84	3.0
Plattsburg	63	— 2	32.1	5.30	3.0
Pomeroy	68	— 3	36.4	.....	3.5
Portsmouth *a* †	.....	.....	.....	10.03	1.0
Portsmouth *b*	70	4	38.9	9.23	1.0
Richwood	62	— 1	30.8	4.57	1.8
Ridgeville Corners	63	4	29.2	3.48	3.5
Ripley	65	8	37.0	9.44	1.6
Rittman	63	— 8	30.0	4.16	4.0
Rockyridge	63	5	30.1	4.14	3.0
Rosewood	63	1	30.4	4.49	2.0
Shenandoah	62	— 3	29.9	3.66	1.9
Sidney *b*	63	5	31.5	4.39	1.7
Sinking Spring †	66	— 1	35.8	7.07	6.5
Somerset †	63	0	33.8	5.38	3.7
Springboro	.....	.....	.....	5.10	1.0
Spring Valley	63	— 5	32.6	6.02	1.5
Strongsville	.....	.....	.....	4.55	11.2
Sylvania	62	— 3	27.4	4.61	12.0
Thurman	70	— 5	37.2	7.58	1.0
Tiffin †	64	8	32.0	4.75	3.2
Upper Sandusky	64	7	32.8	4.14	3.0
Urbana	61	— 1	31.6	3.97	2.5
Vanceburg	70	4	36.7	8.40	1.0
Van Wert	65	6	30.2	4.15	2.5
Vermilion	64	6	30.9	4.37	11.0
Vickery	64	6	31.4	2.57	1.3
Walnut	.....	.....	.....	5.27	3.3
Warsaw	65	—12	32.2	4.42	2.1
Wauseon	64	7	29.0	4.28	6.0
Waverly	68	— 3	36.0	7.61	1.0
Waynesville	64	4	32.6	6.24	1.8
Wellington	64	2	31.0	3.62	3.3
Westerville	63	— 9	33.4	5.54	2.0
Willoughby	.....	.....	.....	3.47	5.2
Wooster *b* †	64	— 1	31.6	4.10	2.0
Youngstown	64	3	30.8	3.38	6.5
Zanesville †	.....	.....	.....	5.51	.....
Oklahoma.					
Anadarko †	77	11	42.6	1.20	
Arapaho †	64	9	38.0	0.94	0.6
Burnett †	71	13	41.4	3.58	6.0
Clifton †	75	7	39.0	4.17	3.0
Edmond	.....	.....	.....	3.21	.....
Fort Reno †	74	12	40.4	3.66	.....
Fort Sill	75	15	40.8	1.69	
Guthrie	71	7	36.8	3.49	3.0
Hennessey	58	10	34.2	2.68	
Hopeton	.....	.....	.....	1.65	0.5
Jefferson	72	8	38.7	2.32	1.0
Kingfisher	75	13	40.8	2.59	
Mangum †	70	7	40.6	1.36	T.
Newkirk	72	18[e]	36.9[e]	3.90	1.9
Norman †	76	13	42.0	3.74	.....
Pawhuska	72	16	39.2	4.89	6.0
Prudence †	58	17	37.0	2.10	0.5
Stillwater †	71	12	38.0	3.53	T.
Waukomis	70	12	38.8	2.46	T.
Oklahoma—Cont'd.					
Winnview [c]	70	12	38.2	2.01	2.0
Oregon.					
Albany *a*	54	27	41.0	4.07	3.0
Arlington	49	18	34.0	0.87	0.8
Ashland *b*	64	13	35.3	1.38	4.0
Aurora *[8]	50	25	38.5	3.97	1.0
Aurora (near)	52	23	38.4	3.81	1.5
Bandon	60	28	44.3	5.78	
Bay City †	55	24	40.3	14.26	3.1
Beulah	43	—19	16.6	0.48	6.0
Brownsville *[8]	55	28	42.0	2.47	1.0
Burns	66	—21	17.5	1.45	14.5
Burns (near)	55	— 8	27.0	0.79	5.1
Cascade Locks	48	26	37.8	10.63	3.0
Comstock *[8]	55	28	41.5	3.36	4.0
Corvallis	56	23	39.4	3.82	3.5
Dayville †	57	— 5	30.0	1.25	6.2
Eugene	52	26	38.8	2.43	1.3
Fairview	56	26	41.7	7.87	5.2
Falls City	50	22	37.6	6.53	4.4
Fife †	49	— 9	24.6	0.90	9.0
Forest Grove	56	14	36.4	3.85	4.0
Fort Klamath	38	—10	19.0	2.01	17.2
Gardiner	57	28	43.8	7.03	
Glenora	49	18	36.8	11.71	6.5
Government Camp	51	2	28.2	11.46	81.0
Grants Pass *a* †	52	19	36.3	1.78	3.0
Happy Valley	50	—13	20.3	1.17	12.0
Heppner	47	7	31.8	1.26	2.2
Hood River (near)	46	21	35.2	3.72	7.5
Irvington	.....	.....	.....	3.60	.....
Jacksonville	47	15	33.4	1.54	5.2
Joseph	36	— 8	18.2	1.80	18.0
Junction City *[8]	70	28	42.7	2.54	1.0
Klamath Falls	46	0	26.8	0.66	6.6
Lafayette *[8]	54	24	39.5	1.92	2.5
Lagrande	54	— 6	26.8	2.22	35.2
Lakeview †	50	—10	23.4	1.40	14.0
Langlois	64	28	46.1	7.09	
Lorella	50	— 7	18.9	0.42	5.0
McMinnville	51	12	37.8	4.17	2.2
Merlin *[8]	44	18	31.6	2.03	5.0
Monmouth *[8]	54	27	41.6	1.95	2.0
Monroe	53	23	39.0	2.94	3.0
Moro [g]	44	11	31.4	0.50	4.0
Mount Angel †	53	26	39.2	4.86	0.2
Nehalen	.....	.....	.....	11.52	4.5
Newberg	53	14	38.5	3.98	2.0
Newbridge	55	—10	21.8	0.62	8.0
Newport	56	28	43.4	7.80	1.0
Pendleton	56	10	34.0	1.43	3.0
Riddles *[8]	55	26	38.5	2.29	3.0
Riverside	42	—19	19.8	0.66	6.8
Salem *b* †	52	25	39.6	.....	.....
Sheridan *[8]	55	17	40.8	3.82	5.0
Silver Lake	48	— 9	23.4	0.27	2.8
Silverton *[8]	54	28	40.5	2.58	0.2
Siskiyou *[8]	48	18	32.7	2.90	29.0
Sparta	40	— 3	19.7	4.20	42.0
Springfield *[8]	50	27	38.7	3.07	2.0
Stafford	48	21	37.6	3.89	1.0
The Dalles †	52	21	36.2	0.82	1.8
Umatilla	.....	.....	.....	0.31	4.0
Vale	38	—17	17.6	1.11	11.0
Vernonia	49	14	35.9	4.32	6.5
West Fork *[8]	48	26	38.2	4.87	7.0
Weston	56	13	31.2	2.51	7.2
Williams	52	18	36.0	1.72	1.5
Pennsylvania.					
Altoona	65	4	30.1	4.05	.....
Aqueduct	56	10	35.4	2.79	7.8
Beaver Dam	.....	.....	.....	4.47	.....
Bethlehem	.....	.....	.....	4.35	7.5
Brookville †	.....	.....	.....	5.22	9.9
Browers Lock	.....	.....	.....	4.39	.....
Cameron	.....	.....	.....	4.39	17.0
Carlisle	58	12	32.0	4.23	11.0
Cassandra	61	10	30.3	3.79	13.5
Cedarrun	.....	.....	.....	6.25	2.0
Centerhall †	50	1	29.1	3.89	10.0
Chambersburg †	57	12	31.8	2.61	.....
Coatesville	60	10	33.2	4.54	13.4
Confluence †	63	1	31.4	6.79	19.0
Coopersburg	56	8	34.4	4.41	9.7
Davis Island Dam †	.....	.....	.....	4.31	2.5
Derry Station	65	4	32.6	5.69	8.9
Doylestown	.....	.....	.....	4.13	.....
Driftwood	.....	.....	.....	3.26	.....
Duncannon	.....	.....	.....	3.62	.....
Dushore	51	—14	26.4	2.57	8.1
Dyberry	51	—11	24.0	4.99	22.0
East Bloomsburg	.....	.....	.....	3.16	7.9
East Mauch Chunk	52	4	30.0	4.98	14.8
Easton	52	6	31.6	4.71	10.8
Ellwood Junction †	.....	.....	.....	4.77	7.0
Emporium	53	— 3	29.2	4.54	16.6
Pennsylvania—Cont'd.					
Everett	52[c]	4[c]	32.4[c]	3.35	7.8
Farrandsville	.....	.....	.....	3.56	5.0
Forks of Neshaminy *[1]	54	13	34.6	8.88	.....
Franklin	65	— 4	31.0	4.51	10.0
Frederick	.....	.....	.....	3.76	.....
Freeport †	.....	.....	.....	5.68	23.0
Girardville	.....	.....	.....	5.43	21.5
Grampian	54	0	27.6	3.81	13.0
Greensboro †	67	.....	.....	4.95	6.2
Greenville	61	— 3	32.6	6.84	11.4
Hallstead †	50	— 2	26.1	.....	.....
Hamburg	53	8	33.5	6.06	6.5
Hawley	56	— 4	27.3	4.25	14.4
Hollidaysburg	61	7	31.8	4.64	8.5
Huntingdon *a* †	54	6	31.6	4.68	11.0
Huntingdon *b*	.....	.....	.....	4.60	8.0
Indiana	66	— 1	33.4	2.68	7.0
Irwin	.....	.....	.....	3.96	3.0
Johnstown †	66	8	33.0	7.57	13.2
Karthaus	.....	.....	.....	2.00	12.0
Keating	.....	.....	.....	3.26	6.7
Kennett Square	59	11	34.2	4.31	10.5
Lansdale	.....	.....	.....	3.86	.....
Lawrenceville	51	—16	27.6	2.10	5.2
Lebanon	53	8	32.0	4.27	13.2
Leroy †	43	— 3	26.1	3.30	12.5
Lewisburg	48	— 1	29.8	3.62	7.0
Lock Haven *a* †	50	1	31.4	3.99	7.0
Lock Haven *b*	.....	.....	.....	4.11	18.0
Lock No. 4 †	.....	.....	.....	5.02	8.7
Lycippus	66	7	33.2	5.33	11.4
Mifflin	.....	.....	.....	3.01	4.0
Oil City †	.....	.....	.....	5.32	12.5
Ottsville	.....	.....	.....	4.32	.....
Parker †	.....	.....	.....	5.50	12.0
Philadelphia *b*	59	12	35.6	4.45	8.0
Point Pleasant	.....	.....	.....	4.15	.....
Pottstown	53	11	33.4	5.95	12.5
Quakertown	55	4	30.6	4.20	13.5
Reading [2]	.....	.....	32.4	4.03	.....
Reedsville	48	1	30.8	1.32	14.0
Renovo *a*	.....	.....	.....	3.22	6.5
Renovo *b*	48	0	30.4	3.80	7.2
Ridgway †	.....	.....	.....	5.04	19.5
Saegerstown	61	—10	28.0	4.87	14.1
Salem Corners	48	0	25.6	4.14	21.6
Scranton	48	— 2	28.6	3.59	12.5
Seisholtzville	.....	.....	.....	4.33	.....
Selinsgrove	50	2	31.5	4.08	8.0
Shawmont	.....	.....	.....	3.97	14.8
Shinglehouse	60	—12	26.6	3.27	17.0
Sinnamahoning	.....	.....	.....	2.14	.....
Smethport	57	— 9	26.9	3.42	9.5
Smiths Corners	.....	.....	.....	4.09	.....
Somerset	61	2	30.9	6.87	18.4
South Bethlehem	49	6	31.8	.....	.....
South Eaton	54	— 3	28.4	3.93	13.0
State College	55	0	29.2	4.40	18.4
Sunbury	.....	.....	.....	1.73	14.0
Swarthmore	55	13	33.1	4.08	4.5
Swiftwater	60	— 1	26.4	4.35	.....
Towanda	54	—10	28.0	2.52	5.5
Uniontown	61	10	34.9	5.62	7.0
Warren †	57	— 3	28.3	2.75	14.0
Wellsboro †	46	— 7	28.0	1.72	6.5
West Chester	58	9	32.8	4.21	12.2
West Newton †	.....	.....	.....	5.60	12.0
Westtown	58	9	32.0	3.91	13.0
White Haven	50	— 4	26.8	3.07	12.5
Wilkesbarre †	49	0	30.1	2.47	5.0
Williamsport	49	5	31.3	3.76	6.8
York †	55	11	32.6	3.67	9.1
Rhode Island.					
Bristol	53	2	29.4	5.13	8.0
Kingston	54	0	28.0	6.83	15.0
Lonsdale	.....	.....	.....	4.54	19.8
Pawtucket	56	4	32.2	3.89	9.0
Providence *a*	55	1	30.0	6.01	20.0
Providence *b*	54	— 1	27.8	5.92	21.5
South Carolina.					
Anderson †	.....	.....	.....	3.83	.....
Batesburg †	71	17	49.4	2.20	
Blackville †	80	17	51.4	1.37	T.
Camden †	.....	.....	.....	1.83	0.4
Central	73	8	44.8	4.06	0.9
Cheraw *a* †	77	17	47.6	1.77	1.0
Cheraw *b* †	.....	.....	.....	2.00	0.8
Clemson College	72	10	45.8	3.45	0.5
Conway †	.....	.....	.....	0.95	
Darlington (near)	.....	.....	.....	1.47	0.6
Edisto †	.....	.....	.....	1.13	
Effingham †	.....	.....	.....	1.05	0.5
Florence †	68	13	46.2	1.08	0.2
Gaffney †	.....	.....	.....	2.68	0.3
Georgetown †	77	21	52.7	2.50	
Gillisonville	81	15	53.6	0.25	T.

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
South Carolina—Cont'd.	°	°	°	*Ins.*	*Ins.*
Greenville†	75	15	44.2	3.54	T.
Greenwood	72	16	47.4	2.59	T.
Holland	74	10	44.8	3.60	1.0
Kingstree *a*†	77	18	50.4	0.90	T.
Kingstree *b*	.....	.....	.....	0.90	0.5
Little Mountain	75	14	48.6	1.80	T.
Longshore†	76	15	47.6	2.57	T.
Mount Carmel†	.....	.....	.....	2.54	T.
Pinopolis*[1]	72	23	51.5	0.57	
Port Royal†	73	23	53.6	0.23	
St. Georges†	78	20	51.8	0.44	
St. Matthews†	79	18	51.4	1.05	T.
St. Stephens†	.....	.....	.....	0.64	0.5
Santuck†	72	13	46.0	2.48	T.
Shaws Fork	81	12	51.8	2.24	T.
Smiths Mills†	.....	.....	.....	1.00	0.4
Society Hill†	74	20	48.9	1.78	1.0
Spartanburg	72	15	44.0	2.78	T.
Statesburg†	76	18	50.5	1.48	0.4
Trenton	73	19	51.2	2.10	T.
Trial†	82	19	54.0	0.93	
Walhalla	74	9	43.6	4.03	1.0
Winnsboro	74	14	45.0	2.29	T.
Yemassee†	78	18	52.6	0.19	
Yorkville	75	18	47.4	2.82	1.0
South Dakota.					
Aberdeen†	45	— 8	19.2	0.00	
Alexandria†	46	— 6	23.8	0.16	2.0
Armour	47	— 4	25.8	0.21	2.0
Ashcroft†	51	—20	20.1	0.40	4.0
Bowdle	54	—11	18.7	0.00	
Brookings†	40	— 5	21.2	0.00	
Canton	38	— 7	22.4	0.27	2.5
Castlewood	40	— 9	19.4	T.	T.
Centerville	.....	.....	.....	0.23	3.5
Chamberlain†	52	0	26.7	0.08	1.0
Clark	.....	.....	.....	T.	T.
De Smet	37	— 4	18.8	T.	T.
Doland	42	—12	19.0	T.	T.
Edgemont	.....	.....	.....	0.75	7.5
Eureka	42	—22	20.0	0.00	
Farmingdale	.....	.....	.....	0.16	.....
Flandreau	44	— 5	22.0	T.	T.
Forestburg†	48	—12	22.6	0.60	6.0
Forest City	51	— 1	22.1	0.20	2.0
Fort Meade†	60	2	26.1	1.20	12.0
Gann Valley	46	0	23.6	T.	T.
Goudyville	51	— 7	20.4	T.	T.
Greenwood	47	— 2	26.4	0.64	6.5
Harney	63	— 7	24.2	0.44	8.2
Highmore	46	0	23.8	T.	T.
Hotch City†	50	— 8	24.6	T.	T.
Hot Springs	50	— 2	24.0	0.25	7.6
Howard†	43	— 1	22.4	0.00	
Interior	52	—10	21.1	0.50	5.0
Ipswich	48[f]	— 8[f]	19.9[f]	T.	T.
Kimball†	46	0	25.0	0.20	2.0
Leslie†	59	—15	18.2	T.	T.
Mellette†	48	— 7	20.8	0.00	
Menno†	46	— 2	25.2	0.16	1.5
Millbank	45	— 9	20.3	0.00	
Mitchell†	45	— 9	24.0	0.20	5.5
Nowlin	53	0	23.0	0.10	1.0
Oelrichs†	51	— 4	22.6	1.50	14.5
Parker†	38	— 3	20.7	0.11	1.1
Parkston	48	— 5	25.8	0.40	4.0
Plankinton†	45	— 3	23.2	0.15	1.5
Redfield	51	— 5	22.8	T.	T.
Rochford	59	—15	19.8	0.80	8.0
Rosebud	55	— 3	25.8	1.20	12.0
Shiloh	52	— 2	27.0	T.	T.
Silver City	.....	.....	.....	1.15	11.5
Sioux Falls†	40	— 5	21.6	0.20	2.0
Spearfish†	62	3	27.8	0.30	8.4
Tyndall†	46	0	26.4	0.40	4.0
Watertown	38	— 9	19.0	0.00	
Wentworth†	41	— 3	21.4	0.00	
Wessington Springs	44	— 1	21.2	0.30	3.0
Wolsey	.....	.....	.....	0.00	
Tennessee.					
Andersonville	69	12	41.4	7.93	2.0
Ashwood*†[1]	69	14	45.8	9.25	T.
Benton (near)†	73	15	45.3	4.98	1.2
Bluff City†	.....	.....	.....	4.12	3.0
Bolivar†	70	10	45.6	12.01	T.
Bristol†	68	10	38.3	4.02	1.8
Byrdstown	68	15	42.3	8.48	1.7
Carthage†	70	17	45.6	9.84	2.1
Charleston	.....	.....	.....	5.89	2.0
Clarksville	70	16	43.9	10.41	1.5
Clinton†	.....	.....	.....	8.00	3.0
Covington	69	16	45.7	11.71	T.
Decatur†	70	17	44.2	8.62	3.4
Dover	70	15	44.2	11.16	1.1
Dyersburg	68	12	43.6	13.93	T.
Elizabethton†	70	12	40.0	5.13	2.3
Tennessee—Cont'd.					
Elk Valley	69	16	43.0	7.67	4.0
Erasmus	68	11	40.8	8.48	1.4
Fairmount*[5]	68	14	41.4	7.52	1.5
Florence†	68	18	45.2	8.82	1.5
Franklin	69	17	45.0	7.74	1.5
Grace*[1]	68	20	44.0	9.20	2.0
Greeneville†	71	12	41.6	6.12	3.1
Harriman	69	15	42.8	8.89	1.8
Hohenwald†	68	16	44.8	10.35	1.0
Jackson†	69	15	46.6	11.10	0.0
Johnsonville	70	13	45.5	.....	.....
Jonesboro*[1]	64	16	40.2	5.60	3.8
Kingston†	.....	.....	.....	8.60	0.2
Lafayette	.....	.....	.....	11.11	T.
Liberty†	70	19	45.4	9.07	2.0
Lynnville†	72	12	45.7	9.91	T.
McKenzie†	67	12	44.2	14.47	0.3
McMinnville†	68	17	44.4	10.65	1.8
Maryville	.....	.....	.....	8.10	1.0
Newmarket*[5]	70	15	42.6	8.06	1.3
Newport†	75	13	43.8	6.22	1.5
Nunnelly	70	15	44.8	9.22	T.
Oak Hill*[1]	69	16	43.5	9.55	2.6
Palmetto†	69	18	46.8	9.03	1.5
Peryear	.....	.....	.....	12.75	T.
Pope	70	13	46.2	11.02	T.
Rogersville†	69	15	40.9	6.44	3.5
Rugby	65	12	40.3	10.87	4.0
St. Joseph†	75	17	45.3	10.85	T.
Savannah	71	13	46.8	8.07	T.
Sewanee†	69	12	42.3	7.12	2.0
Silver Lake	.....	.....	.....	5.11	3.0
Springdale	68	15	41.8	8.78	1.0
Sylvia	68	11	44.6	12.33	1.5
Tazewell	.....	.....	.....	7.10	1.7
Tellico Plains†	74	18	45.4	5.41	1.1
Tracy City	70	13	41.8	7.36	1.7
Trenton	68	9	44.2	14.86	T.
Tullahoma†	71	16	44.2	7.04	1.2
Union City†	68	12	43.4	12.07	T.
Waynesboro	72	16	46.3	8.13	.....
Wildersville	68	11	46.0	12.55	T.
Yukon	74	16	45.6	6.48	0.5
Texas.					
Arthur City†	.....	.....	.....	1.84	
Austin *a*	75	24	51.8	1.51	
Austin *b**[5]	73	20	48.6	.....	
Ballinger†	77	16	45.2	0.70	2.5
Beeville†	86	20	57.4	0.10	
Blanco†	76	24	53.8	1.13	
Boerne*[1]	75	24	51.9	1.25	
Brazoria†	78	22	56.6	2.37	
Brenham†	77	24	53.7	3.07	
Brownwood	76	18	48.4	1.55	0.5
Burnet*[1]	76	18	49.2	1.47	T.
Camp Eagle Pass†	86	23	55.2	0.06	
Childress	70	17	42.3	0.30	3.0
Coleman	76	20	48.0	0.94	1.1
College Station	78	26	52.6	3.83	
Colmesneil	.....	.....	.....	8.22	
Columbia†	79	23	56.3	3.06	
Conroe	78	24	53.9	5.12	
Corsicana *b*†	79	21	49.1	1.74	
Cuero†	77	24	51.2	1.05	
Dallas†	78	18	46.8	2.39	T.
Danevang†	80	21	55.4	3.21	
Dublin†	74	21	46.4	1.52	.....
Duval*[1]	80	27	55.6	1.79	
Emory	81	21	48.8	3.60	
Estelle†	77	15	46.4	2.44	T.
Forestburg†	76	26	47.1	3.55	.....
Fort Clark	76	26	52.2	0.00	
Fort McIntosh	88	22	60.2	0.00	
Fort Ringgold†	91	20	60.0	0.00	
Fort Stockton	.....	.....	.....	T.	T.
Fort Worth	.....	.....	.....	2.84	
Fredericksburg*†[1]	74[d]	18	50.8[d]	1.03	
Fruitland	76	17	46.8	2.01	1.5
Gainesville	76	17	45.0	3.60	0.5
Georgetown*[1]	80[d]	16	50.4	1.52	
Golindo	.....	.....	.....	1.70	
Grapevine	77	20	48.1	2.44	1.5
Hale Center†	72	16	41.6	0.30	3.0
Hallettsville†	80	20	55.7	1.57	
Haskell	89	17	48.7	0.97	1.0
Hewitt	.....	.....	.....	1.85	
Houston†	78	27	55.3	4.53	
Huntsville†	75	22	51.8	4.43	
Jacksonville	81	15	52.0	5.87	
Jasper	90	20	54.5	5.80	
Kent	.....	.....	.....	0.20	2.0
Kerrville	.....	.....	.....	1.05	
Lampasas†	81	16	50.0	1.46	
Llano*†[5]	76	23	51.0	1.10	
Longview†	80	20	49.4	9.42	
Luling†	79	22	55.0	0.59	
Texas—Cont'd.					
Mann	.....	.....	.....	1.25	
Marshall	87	29	54.6	7.88	
Menardville	77	13	49.5	0.41	
Midland	88	17	46.6	0.00	
Missouri City	82	22	56.4	4.29	
Mount Blanco†	78	11	42.5	0.08	.....
New Braunfels†	76	22	54.1	0.90	
Panter	.....	.....	.....	3.10	
Point Isabel*[1]	80	40	66.0	T.	
Rheinland†	77	15	45.4	0.78	
Roby	77	17	43.2	0.49	3.0
Rocksprings	.....	.....	.....	0.50	
Runge†	84	34	59.3	0.49	
San Antonio	81	25	56.8	0.50	
San Marcos *b*†	79	19	53.4	1.39	
Sulphur Springs†	80	21	51.1	2.56	
Temple *a*	80	24	50.0	2.36	
Tulia	70	5	37.2	0.50	5.0
Tyler	77	21	49.6	4.82	
Valentine†	.....	.....	.....	0.00	
Victoria	.....	.....	.....	1.20	
Waco†	78	22	50.4	2.05	
Waxahachie†	76	19	46.0	1.70	
Weatherford†	74	23	47.2	2.62	.....
Wichita Falls†	.....	.....	.....	1.43	
Utah.					
Alpine†	.....	.....	.....	0.91	.....
Blue Creek*[8]	45	— 2	14.0	.....	6.0
Brigham†	.....	.....	.....	2.46	.....
Cisco†	38	—26	13.4	0.95	9.5
Corinne	42	—16	15.2	1.90	19.0
Ferron	51	—12	23.6	0.45	4.5
Fillmore†	45	—23	16.0	0.15	.....
Fort Duchesne†	32	—34	—2.3	0.60	6.0
Frisco	58	— 5	24.0	0.42	3.2
Giles†	45[h]	—10[h]	19.2[h]	0.90	7.0
Heber	46	—27	11.6	1.40	14.0
Huntsville	.....	.....	.....	1.33	17.0
Kelton*[8]	35	—12	12.9	0.10	1.0
Levan†	44	—20	17.2	0.80	8.0
Loa†	48	—32	12.8	0.33	3.3
Logan†	45	—19	14.0	0.88	.....
Millville	.....	.....	.....	1.17	.....
Minersville	42	—16	17.0	1.49	14.5
Moab†	45	—14	22.4	0.77	7.2
Mount Pleasant†	48	—12	21.8	0.70	7.0
Ogden *b*	52	—12	24.2	1.05	10.5
Pahreah	48	— 9	21.3	2.65	26.5
Parowan†	51	—17	19.8	1.99	19.8
Pinto	50	—23	18.3	1.28	22.5
Promontory	48	—23	12.6	0.60	6.0
Provo	53	—17	19.8	0.82	.....
Richfield†	60	—24	21.6	0.70	7.0
St. George†	61	0	30.2	1.15	17.0
Scipio†	48	—33	14.6	1.89	21.0
Snowville	39	—18	13.7	0.80	8.0
Soldier Summit[1]	40	—16	17.7	1.25	12.5
Terrace*[8]	35	0	13.8	.....	7.0
Thistle	69	—20	17.8	1.65	16.5
Tooele†	.....	— 1	.....	0.75	.....
Vernal	42	—21	4.8	0.63	6.7
Vermont.					
Bennington	50	—21	21.8	4.35	15.0
Brattleboro	47	—15	20.4	5.99	37.4
Burlington†	43	—17	18.0	2.60	23.5
Chelsea†	46	—19	15.6	4.66	47.0
Cornwall	44	—18	18.7	4.00	26.5
Enosburg Falls	42	—30	13.6	4.56	36.5
Hartland†	45	—27	13.9	5.94	41.5
Jacksonville	40	—29	17.9	8.06	47.6
Norwich	44	—22	13.8	4.40	35.0
St. Johnsbury	42	—26	12.4	3.68	40.0
Vernon*[6]	46	—12	19.8	6.66	36.5
Wells	44	—18	18.0	4.80	29.0
Woodstock	50	—24[c]	16.4	6.30	47.8
Virginia.					
Alexandria	61	15	36.2	3.46	3.5
Ashland†	73	13	42.1	1.61	3.3
Barboursville	67	16	30.9	2.80	2.2
Bedford City	63	11	39.3	2.48	3.0
Bigstone Gap†	67	15	40.4	6.40	2.3
Birdsnest*†[1]	70	22	42.0	1.90	0.0
Blacksburg	63	6	34.9	2.96	3.0
Buckingham†	67	11	37.6	2.00	3.0
Burkes Garden	.....	.....	.....	4.87	7.8
Callaville†	71	14	41.4	1.68	1.0
Christiansburg	.....	.....	.....	2.78	2.0
Clarksville	.....	.....	.....	1.55	2.0
Clifton Forge	56	12	35.6	2.66	4.0
Dale Enterprise†	65	4	34.6	2.37	2.0
Doswell	63	10	38.0	1.60	3.3
Dwale	.....	.....	.....	1.90	2.3
Farmville	63	17	39.4	0.65	2.0
Fredericksburg†	66	17	36.9	3.17	4.5
Grahams Forge	67	8	36.2	2.79	1.8
Hampton	70	20	43.7	1.71	T.

TABLE II.—*Meteorological record of voluntary and other cooperating observers*—Continued.

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	*Ins.*	*Ins.*
Virginia—Cont'd.					
Hot Springs	63	5	36.5	1.99	2.0
Leesburg	.....	.....	.....	3.69	3.5
Lexington†	62	10	38.0	2.58	2.5
Manassas†	62	11	36.8	2.79	4.2
Marion†	65	4	37.8[d]	4.26	2.0
Monterey	58	2	33.2	4.24	5.0
Nottoway	73	12	41.9	1.43	3.0
Petersburg†	73	15	42.0	1.21	2.1
Radford	.....	.....	.....	1.20	2.0
Richmond (near)†	68	15	40.7	1.72	3.5
Rockymount†	67	12	42.6	2.70	2.5
Salem†	67	13	41.7	2.95	3.0
Speers Ferry	.....	.....	.....	6.69	3.0
Spottsville†	76	16	42.2	1.64	1.0
Stanardsville†	69	11	36.8	2.49	4.0
Staunton†	64	11	38.6	2.89	2.0
Stephens City†	65	13	36.0	4.12	1.5
Sunbeam†	73	16	43.8	1.71	T.
Warrenton	57	19	38.2	.....	.....
Warsaw†	66	16	38.4	1.47	2.0
Westbrook Farm	65	16	40.6	.....	.....
Woodstock†	64	4	35.8	3.30	1.0
Wytheville†	65	8	37.1	3.30	3.0
Washington.					
Aberdeen	57	28	38.8	5.85	5.0
Anacortes	.....	.....	.....	1.92	
Ashford†	.....	.....	.....	5.14	14.8
Blaine†	48	8	32.6	4.36	2.0
Bridgeport	37	— 3	18.0	T.	T.
Cascade Tunnel	40	5	25.2	7.34	69.0
Centerville†	53	5	31.8	0.71	2.1
Chehalis†	48	25	36.4	1.92	5.0
Clearwater	61	28	39.4	15.62	1.8
Colfax	42	0	27.3	2.51	17.0
Coupeville†	52	24	38.8	0.97	0.8
Dayton	49	12	31.1	3.40	3.0
Ellensburg	40	— 5	20.4	0.36	.....
Ellensburg (near)	34	0	20.0	0.45	4.5
Fort Simcoe†	53	8	27.6	0.40	4.0
Fort Spokane	34	— 9	21.2	1.85	18.5
Grandmound†	49	20	37.6	3.43	1.4
Hunters†	42	— 5	19.3	0.94	11.0
Kennewick†	48	12	31.4	0.73	3.2
La Center	49	19	37.4	5.25	4.5
Lakeside	40	7	22.0	0.30	3.0
Lapush	46	25	37.5	9.85	3.0
Lind	41	4	25.8	0.85	7.6
Loomis†	34	5	22.6	0.45	4.5
Madrone†	48	24	38.8	2.21	2.0
Mayfield†	57	20	39.6	5.64	2.0
Moxee Valley†	48	— 2	27.1	0.75	7.5
New Whatcom	50	18	38.2	1.69	0.5
Northbend[d]	52	21	38.2	6.80	2.0
Olga	47	25	38.3	1.38	T.
Olympia†	50	24	39.2	3.96	1.0
Orcas Island	47	24	38.9	1.41	1.0
Pinehill†	48	18	34.3	1.89	5.5
Pomeroy	.....	11	.....	2.57	18.8
Port Townsend	55	28	40.6	1.09	0.8
Pullman†	41	1	24.8	3.30	33.0
Rosalia†	38	— 4	24.8	1.60	12.8
Sedro†	50	25	38.6	.....	.....
Shoalwater Bay*[10]	50	30	41.2	.....	.....
Snohomish†	56	21	39.0	2.96	3.0
Southbend	59	26	40.6	7.40	1.2
Stillaguamish	48	17	36.8	2.41	0.5
Sunnyside†	45	11	27.9	0.40	3.2
Union City†	49	26	38.8	5.30	1.5
Vashon†	48	26	38.8	3.21	1.8
Waterville†	38	— 6	16.9	0.10	1.0
West Virginia.					
Beckley	.....	.....	.....	3.79	4.0
Beverly†	68	4	36.5	7.92	17.0
Bluefield†	67	2	38.6	2.96	3.1
Buckhannon *a*†	.....	.....	.....	6.74	10.0
Buckhannon *b*	68	7	36.7	.....	.....
Burlington†	67	9	34.7	3.87	.....
Charleston†	.....	.....	.....	6.11	5.0
Dayton†	67	8	37.6	5.55	3.5
Eastbank	72	0	40.2	6.01	3.0
Elkhorn†	67	4	40.9	3.22	6.0
Fairmont†	.....	.....	.....	4.99	5.3
Glenville†	69	4	36.2	6.61	5.4
Grafton†	64	9	34.8	5.58	4.0
Green Sulphur	65	0	39.0	2.24	5.0
Harpers Ferry†	.....	.....	.....	4.15	2.5
Hinton *a*†	.....	.....	.....	3.31	5.0
Hinton *b*†	68	4	38.8	.....	4.5
Huntington	70	2	37.9	6.52	.....
Kingwood	63	6	33.6	5.99	.....
Marlinton†	62	1	33.8	5.61	9.0
Martinsburg†	66	15	35.5	3.15	2.0
Morgantown *b*†	67	13	37.6	5.78	3.2
New Martinsville†	65	10	37.6	5.70	2.0
Oldfields†	67	10	35.2	3.91	0.5
Point Pleasant†	72	3	37.4	8.04	2.0
West Virginia—Cont'd.					
Powellton	70	— 5	37.8	4.45	.....
Romney	63	14	35.5	3.42	.....
Rowlesburg†	.....	.....	.....	6.62	7.6
Upper Tract	75	9	38.2	3.26	1.2
Weston *a*	.....	.....	.....	7.55	9.0
Weston *b**† [1]	67	10	37.0	.....	.....
Wheeling *a*†	.....	.....	.....	4.97	8.2
Wheeling *b*†	69	9	36.2	5.00	2.5
Wisconsin.					
Amherst	46	— 4	20.3	1.00	9.5
Bayfield	40	— 1	22.1	0.80	8.0
Beloit	39	2	23.8	2.51	16.7
Brodhead	44	—11	21.5	1.96	17.5
Butternut	50	—12	18.9	0.77	7.8
Chilton	46	2	23.4	0.63	3.5
Citypoint	40	0	21.2	0.55	5.5
Delavan	40	— 7	21.4	1.59	13.0
Dodgeville†	40	—11	21.4	1.64	12.5
Easton	42	— 6	19.6	0.75	4.0
Eau Claire	36	— 5	20.6	0.32	4.0
Florence†	40	— 7	17.6	0.30	3.0
Fond du Lac	38	1	21.8	1.08	5.8
Grand River Locks	.....	.....	.....	1.45	5.0
Grantsburg†	41	—13	19.1	0.39	4.0
Gratiot	44	— 4	22.8	2.00	20.0
Hartford	.....	.....	.....	2.68	17.0
Hartland	40	— 7	22.6	2.45	26.3
Harvey	39	2	22.6	1.94	16.6
Hayward	42	—12	19.4	0.47	4.8
Hillsboro	44	1	21.4	0.95	6.0
Kenosha*[10]	42	6	21.5	.....	.....
Koepenick*†[1]	40	0	17.1	0.80	8.0
Lancaster†	44	1	22.2	1.30	6.0
Lincoln†	37	3	21.6	0.65	6.5
Madison†	37	1	22.0	3.59	33.6
Manitowoc†	42	2	24.6	1.18	8.2
Meadow Valley†	42	— 8	19.0	0.40	4.0
Medford†	44	— 9	17.6	0.02	0.2
Menasha	.....	.....	.....	1.03	7.6
Neillsville†	36	— 4	18.2	0.85	.....
New Holstein	35	0	16.6	2.45	21.0
New London	40	1	20.2	0.81	7.0
North Crandon	55	—22	18.2	0.50	5.0
Oconto	42	— 1	22.2	1.10	11.0
Osceola†	42	—12	20.1	0.03	0.3
Pepin	42	—14	17.7	0.21	2.0
Pine River†	42	1	21.2	0.80	4.3
Portage†	38	— 5	19.6	1.55	7.0
Port Washington	47	— 8	24.4	4.00	45.0
Prairie du Chien	53	1	25.3	0.89	2.5
Racine	47	6	26.6	3.51	34.5
Sharon	43	—13	21.6	2.48	30.5
Shawano	.....	.....	.....	0.48	5.0
Spooner	39	—12	19.6	0.70	7.0
Stevens Point†	43	— 1	19.8	0.55	3.5
Sturgeon Bay Canal*[9]	40	1	23.2	.....	.....
Valley Junction†	43	— 6	20.4	0.69	4.8
Viroqua	41	0	22.4	1.15	3.2
Watertown†	38	— 2	21.2	1.56	15.0
Waukesha†	38	5	24.2	2.34	20.8
Waupaca†	38	— 2	20.5	0.74	2.8
Wausau†	37	— 2	18.2	0.84	8.5
Westfield†	39	0	21.1	1.20	7.0
White Mound†	47	— 4	22.0	1.10	7.0
Wyoming.					
Atlantic City	42	—19	11.8	0.75	7.5
Big Horn Ranch	46	—10	19.4	0.05	1.0
Carbon	56	—11	18.5	0.35	.....
Fort Laramie†	60	—24	24.0	1.41	19.1
Fort Washakie	46	—17	14.4	0.23	2.3
Fort Yellowstone†	39	—20	14.7	0.31	3.1
Green River	47	—40	11.6	1.55	15.5
Laramie	47	—23	17.0	0.05	.....
Lovell	44	—14	14.5	0.06	1.1
Lusk†	55	— 6	20.6	0.70	7.0
Sheridan*[3]	.....	— 7	21.0	0.50	5.0
Sundance	45	— 5	18.6	1.20	12.0
Wamsutter	34	—18	10.5	0.60	6.0
Wheatland	65	— 1	31.1	0.80	8.0
Mexico.					
Ciudad P. Diaz	80	26	55.0	0.02	
Leon de Aldamas	79	27	56.9	0.00	
Puebla	74	26	51.8	0.00	
Topolobampo*[1]	75	50	61.6	0.80	
New Brunswick.					
St. John	42	—17	16.2	7.08	26.0
West Indies.					
Grand Turk Island	.....	.....	.....	0.75	

Late reports for December, 1897.

Stations.	Maximum.	Minimum.	Mean.	Rain and melted snow.	Total depth of snow.
Alaska.					
Killisnoo	41	26	33.7	4.60	12.5
Arizona.					
Walnut Grove	.....	.....	.....	0.40	4.0
California.					
Point George, L. H	.....	.....	.....	4.94	
Indiana.					
Topeka	.....	.....	.....	1.71	5.0
Kansas.					
Mounthope	.....	.....	.....	1.00	4.0
Olathe	.....	.....	.....	1.03	9.0
Wamego	.....	.....	.....	1.01	10.1
Kentucky.					
Frankfort	.....	.....	.....	2.83	T.
Maryland.					
Hagerstown	66	13[g]	37.8[d]	.....	.....
Michigan.					
Benzonia	54	9	27.7	4.10	18.0
Missouri.					
Humansville	65	10	32.6	2.59	9.5
Nevada	.....	.....	.....	2.28	9.2
Trenton	50	— 3	23.8	1.20	12.0
Montana.					
Fort Logan	53	—24	20.4	0.21	.....
Kalispell	56	—15	22.5	0.56	2.0
Poplar	52	—34	15.8	0.20	0.0
Radersburg	50	—21	22.8	T.	T.
Troy	.....	.....	.....	3.44	8.0
Utica	50	—22	22.8	0.80	8.0
Yale	53	—19	23.5	0.07	0.5
Nebraska.					
Benkelman	.....	.....	.....	0.45	4.5
Haigler	.....	.....	.....	0.20	2.0
New Hampshire.					
Warner	.....	.....	.....	7.02	17.5
Nevada.					
Keysers Springs	.....	.....	.....	0.27	3.0
New York.					
Potsdam	58	—13	21.8	3.26	.....
Victor	60	2	29.0	.....	.....
Oklahoma.					
Fort Reno	.....	.....	.....	0.50	T.
Waukomis	.....	.....	.....	0.48	.....
Oregon.					
Forest Grove	.....	.....	.....	14.63	0.2
Moro	.....	.....	.....	2.06	2.0
Pennsylvania.					
Lock Haven *a*	.....	.....	.....	2.98	7.5
Lock Haven *b*	.....	.....	.....	2.59	3.5
Rhode Island.					
Kingston	56	8	32.4	6.25	4.5
Utah.					
Giles	.....	.....	.....	0.23	1.0
Washington.					
Colfax	49	8	31.4	3.92	3.0
Wisconsin.					
Menasha	.....	.....	.....	1.06	14.5

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 of 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.

CORRECTIONS.

Mississippi, Agricultural College, December, 1897, make total precipitation read 12.72 instead of 11.72.

NOTE.—The following changes have been made in the names of stations:

Colorado, Surface Creek changed to Cedaredge, and Hugo (near) to Hamps.

Minnesota, Bonniwell changed to Lake Jennie.

Tennessee, Molino changed to Yukon.

TABLE III.—*Data furnished by the Canadian Meteorological Service, January*, 1898.

Stations.	Pressure.			Temperature.				Precipitation.		
	Mean not reduced.	Mean reduced.	Departure from normal.	Mean.	Departure from normal.	Mean maximum.	Mean minimum.	Total.	Departure from normal.	Depth of snow.
	Ins.	*Ins.*	*Ins.*	°	°	°	°	*Ins.*	*Ins.*	
St. Johns, N. F.	29.55	29.70	—.14	18.5	—5.3	25.5	11.5	9.72	.....	57.7
Sydney, C. B. I.	29.83	29.89	—.01	17.9	—2.6	26.7	9.1	5.95	+1.14	41.5
Halifax, N. S.	29.82	29.96	.00	20.7	—1.1	30.0	11.4	4.75	—0.94	17.6
Grand Manan, N. B.	29.88	29.93	—.06	22.2	—1.2	30.9	13.4	4.92	—0.45	15.3
Yarmouth, N. S.	29.86	29.94	—.08	23.6	—2.7	31.7	15.4	4.75	—0.47	27.3
Charlottet'n, P. E. I.	29.88	29.92	—.04	14.1	—2.9	22.2	6.0	4.22	+0.81	27.4
Chatham, N. B.	29.92	29.94	—.08	4.6	—5.2	16.4	— 7.1	2.97	—1.31	27.7
Father Point, Que.	29.96	29.99	—.03	4.3	—3.7	14.4	— 5.7	1.98	—0.72	19.8
Quebec, Que.	29.63	29.99	—.07	8.6	—0.5	16.5	0.6	3.15	—0.52	21.5
Montreal, Que.	29.77	30.00	—.08	12.1	+0.4	20.0	4.2	6.18	+2.90	62.7
Rockliffe, Ont	29.46	30.02	—.04	7.0	+0.5	19.2	— 5.2	1.81	—0.20	18.1
Ottawa, Ont.	29.66	30.05	.....	10.6	+1.0	20.4	0.8	4.30	.....	36.4
Kingston, Ont	29.66	30.00	—.08	18.6	+1.5	27.6	9.6	4.26	+1.00	18.0
Toronto, Ont	29.59	30.03	—.06	25.5	+4.1	32.6	18.4	3.63	+1.12	12.5
White River, Ont.	28.57	30.04	—.06	2.9	+3.3	19.4	—13.6	1.58	+0.25	15.8
Port Stanley, Ont	29.32	30.01	—.09	26.0	+3.8	33.0	19.4	4.36	+1.68	20.3
Saugeen, Ont.	29.23	29.99	—.07	23.4	+ 3.0	30.3	16.4	2.77	—0.69	21.3
Parry Sound, Ont	29.24	29.98	—.10	16.2	+ 2.4	26.9	5.5	3.38	+0.23	29.2
Port Arthur, Ont.	29.23	29.98	—.12	10.4	+ 7.3	21.8	— 1.0	0.51	—0.30	5.1
Winnipeg, Man.	29.10	30.00	—.18	3.7	+10.5	15.4	— 7.9	0.81	+0.15	8.9
Minnedosa, Man.	28.06	30.02	—.14	4.5	+11.7	15.8	— 6.9	0.39	—0.24	3.9
Qu'Appelle, Assin.	27.56	29.98	—.18	8.5	+12.3	18.4	— 1.5	0.56	+0.18	5.6
Medicine Hat, Assin.	27.55	29.97	—.21	19.6	+14.1	31.1	8.1	0.45	+0.12	4.5
Swift Current, Assin.	27.27	29.99	—.19	17.2	+14.1	25.1	9.2	0.57	—0.04	5.7
Calgary, Alberta	26.24	29.94	—.24	20.9	+12.5	31.2	10.7	0.20	—0.37	2.0
Banff, Alberta	25.22	30.07	.....	16.4	.....	24.5	8.4	0.22	.....	2.2
Edmonton, Alberta	27.47	29.93	—.20	18.0	+16.2	27.0	9.2	0.24	—0.49	2.4
Prince Albert, Sask.	28.24	29.88	.....	3.4	+11.8	14.3	— 7.5	0.74	.....	7.4
Battleford, Sask.	28.05	29.93	.....	5.0	+10.9	15.1	— 5.1	0.53	.....	5.3
Kamloops, B. C.	28.74	30.10	.....	22.8	.....	29.4	16.1	1.00	.....	10.0
Esquimalt, B. C.	30.04	30.08	.....	39.0	+ 0.9	42.8	35.1	2.68	.....	1.0
Hamilton, Bermuda	29.93	30.09	—.04	62.7	+ 0.7	67.8	57.6	3.26	.....	

TABLE IV.—*Mean temperature for each hour of seventy-fifth meridian time, January*, 1898.

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.
Bismarck, N Dak.	15.1	14.4	13.7	13.1	12.7	12.5	11.9	11.3	10.6	10.8	12.9	16.4	19.9	22.9	25.3	26.5	27.3	25.9	23.0	20.6	18.4	17.2	16.0	15.1	17.2
Boston, Mass.	27.5	27.2	26.7	26.3	26.0	25.7	25.7	25.5	25.9	26.8	28.6	30.5	31.7	32.5	32.8	32.7	32.3	31.7	30.8	29.8	29.3	28.8	28.0	27.7	28.8
Buffalo, N. Y.	27.1	27.0	26.8	26.9	27.0	26.9	26.8	27.0	27.6	28.4	29.2	30.1	30.4	30.8	30.8	30.6	30.1	29.6	29.0	28.8	28.3	27.8	27.3	27.0	28.4
Chicago, Ill.	28.4	27.7	27.1	26.5	26.1	25.7	25.7	25.8	25.9	26.2	27.4	28.9	30.1	30.8	31.5	31.7	31.7	31.4	30.8	30.5	29.7	29.3	28.9	28.4	28.6
Cincinnati, Ohio	35.6	35.2	34.9	34.7	34.3	34.3	34.5	35.0	34.4	34.6	35.6	36.5	37.3	38.1	38.9	39.5	39.6	39.1	38.4	37.8	37.0	36.6	36.0	35.8	36.4
Cleveland, Ohio	30.5	30.0	29.8	29.6	29.5	29.4	29.2	29.3	29.1	30.1	31.2	31.9	32.3	32.7	32.8	33.0	32.9	32.6	32.3	31.8	31.5	31.0	30.5	30.3	31.0
Detroit, Mich.	27.3	27.2	27.0	26.7	26.4	26.0	25.9	26.3	26.2	27.1	28.4	29.3	29.9	30.7	31.1	30.9	30.5	29.9	29.0	29.0	27.8	27.6	27.3	27.0	28.1
Dodge City, Kans.	25.4	24.8	23.8	23.3	22.2	21.8	21.3	20.9	20.7	20.7	23.6	28.1	32.6	35.1	37.2	38.9	39.5	39.0	36.5	32.4	31.1	29.6	27.8	26.9	28.5
Eastport, Me.	17.7	17.5	17.5	17.3	16.9	16.7	16.5	16.8	17.7	18.7	19.6	20.6	21.2	21.9	21.9	21.7	20.9	20.6	20.2	20.0	19.2	18.5	18.1	17.8	19.0
Galveston, Tex.	57.1	56.8	56.9	56.9	56.7	56.5	56.1	55.5	55.0	55.3	56.2	57.0	58.1	58.3	59.2	59.3	59.3	59.0	58.2	58.1	57.9	57.9	57.7	57.5	57.4
Havre, Mont.	20.2	19.4	18.9	18.5	18.4	17.8	17.4	17.1	16.6	17.0	17.8	19.5	21.8	23.9	26.7	28.0	28.9	28.7	27.3	24.8	23.9	23.1	22.0	21.0	21.6
Kansas City, Mo.	31.4	30.8	30.1	29.6	29.3	28.7	28.4	28.6	28.3	29.0	30.4	32.2	33.8	35.3	35.9	36.9	37.0	36.4	35.2	34.0	33.1	32.8	32.2	31.8	32.1
Key West, Fla.	67.9	67.9	68.0	67.9	67.7	67.8	67.6	67.8	69.6	70.9	71.4	71.8	72.0	72.2	72.5	71.7	71.3	70.3	69.6	69.5	69.3	68.8	68.4	68.2	69.6
Memphis, Tenn.	45.4	44.8	44.3	44.0	43.6	43.3	43.1	42.9	43.0	43.7	45.0	47.0	48.4	49.8	50.6	51.4	51.5	51.0	49.8	49.2	48.1	47.3	46.7	46.0	46.7
New Orleans, La.	56.4	56.2	55.9	55.5	54.9	54.6	54.2	53.9	54.8	56.7	58.9	60.4	61.6	62.0	63.1	63.2	63.0	61.7	60.5	59.4	58.9	58.4	57.9	57.4	58.3
New York, N. Y.	30.3	29.9	29.6	29.7	29.6	29.9	29.9	30.4	31.1	31.7	32.9	33.8	34.3	34.7	35.2	35.0	33.9	33.1	32.5	32.5	31.4	31.2	30.9	30.7	31.8
Philadelphia, Pa.	33.4	33.0	32.7	32.6	32.7	32.8	33.1	33.2	33.6	34.9	36.3	37.4	38.5	39.1	39.2	39.1	38.3	37.4	36.4	35.9	35.2	34.8	34.1	33.8	35.3
Pittsburg, Pa.	33.4	33.0	32.9	32.9	32.5	32.6	32.5	33.0	33.3	34.0	35.1	36.1	37.0	37.2	37.9	38.0	37.5	36.9	36.5	35.9	35.5	34.9	34.3	33.7	34.9
Portland, Oreg.	38.3	38.0	37.9	37.7	37.4	36.9	36.7	37.0	36.6	36.5	36.6	37.2	37.7	38.4	39.4	40.3	41.1	41.6	41.7	40.9	40.7	40.1	39.4	38.8	38.6
St. Louis, Mo.	35.8	35.5	35.1	34.5	33.9	33.5	33.3	33.3	33.2	34.3	35.7	37.1	38.2	39.7	40.8	41.6	41.5	40.9	40.1	39.7	38.8	38.2	37.4	36.6	37.0
St. Paul, Minn.	20.5	19.7	19.2	18.9	18.5	18.6	18.3	18.1	17.7	17.5	19.0	21.4	23.9	25.9	27.7	28.6	28.8	28.2	26.7	25.4	24.3	23.3	22.2	21.3	22.2
Salt Lake City, Utah	18.3	17.9	17.2	16.7	16.8	16.7	16.2	16.6	15.6	15.3	16.7	19.5	21.9	23.9	25.4	26.5	26.6	27.0	25.5	23.5	21.8	20.6	19.1	18.0	20.1
San Diego, Cal.	49.3	48.8	48.0	47.5	46.9	46.3	46.0	45.2	45.0	45.2	46.4	50.8	53.5	54.9	55.6	56.0	56.6	56.5	55.5	54.3	53.0	51.7	50.9	50.0	50.6
San Francisco, Cal.	46.9	46.4	45.6	45.1	44.3	43.9	43.4	43.5	42.9	42.7	42.9	43.5	44.6	45.6	47.5	49.1	50.3	50.8	50.9	50.2	49.3	48.6	48.0	47.4	46.4
Savannah, Ga.	51.9	51.4	51.1	50.7	50.3	49.9	49.5	49.1	50.7	53.5	57.1	59.9	61.6	63.0	63.5	62.8	61.4	58.6	56.9	55.7	54.6	53.5	53.2	52.7	55.1
Washington, D. C.	33.9	33.7	33.6	33.8	33.7	33.7	33.5	33.6	34.8	36.2	37.8	39.1	40.1	40.9	41.3	41.5	40.6	39.4	37.9	37.3	36.4	35.9	35.2	34.2	36.6

TABLE V.—*Mean pressure for each hour of seventy-fifth meridian time, January*, 1898.

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.
Bismarck, N. Dak.	28.202	.197	.197	.203	.205	.203	.201	.197	.195	.198	.203	.205	.201	.183	.170	.165	.164	.176	.187	.193	.195	.196	.198	.200	.193
Boston, Mass.	29.820	.823	.819	.812	.807	.818	.830	.839	.847	.852	.839	.822	.807	.808	.812	.819	.830	.839	.844	.843	.843	.839	.831	.821	.828
Buffalo, N. Y.	29.112	.115	.126	.124	.122	.128	.134	.141	.144	.147	.143	.124	.106	.096	.100	.102	.109	.114	.117	.122	.116	.115	.116	.113	.120
Chicago, Ill.	29.094	.100	.114	.110	.105	.103	.111	.125	.130	.139	.137	.127	.105	.091	.087	.090	.092	.096	.102	.106	.101	.103	.103	.098	.107
Cincinnati, Ohio	29.356	.360	.369	.370	.370	.373	.381	.387	.402	.413	.414	.399	.370	.355	.345	.347	.349	.354	.360	.365	.365	.365	.366	.364	.371
Cleveland, Ohio	29.146	.147	.156	.158	.155	.154	.152	.160	.164	.173	.179	.165	.145	.133	.135	.139	.143	.147	.151	.158	.161	.160	.155	.152	.154
Detroit, Mich.	29.179	.178	.186	.188	.183	.183	.180	.182	.193	.200	.210	.198	.179	.160	.161	.164	.168	.178	.185	.195	.195	.195	.188	.187	.184
Dodge City, Kans.	27.400	.398	.396	.403	.404	.403	.405	.410	.415	.421	.431	.432	.415	.391	.372	.364	.364	.366	.373	.380	.388	.391	.396	.396	.396
Eastport, Me.	29.816	.820	.815	.812	.807	.811	.827	.845	.856	.857	.838	.823	.807	.804	.807	.815	.827	.835	.844	.846	.843	.839	.829	.824	.827
Galveston, Tex.	30.060	.055	.057	.054	.051	.054	.062	.069	.083	.097	.103	.092	.068	.045	.033	.027	.025	.029	.033	.041	.048	.055	.059	.059	.057
Havre, Mont.	27.263	.263	.260	.264	.267	.262	.255	.252	.251	.255	.265	.275	.271	.256	.244	.235	.238	.240	.242	.245	.250	.252	.256	.257	.255
Kansas City, Mo.	29.037	.035	.042	.043	.036	.031	.033	.036	.044	.058	.069	.064	.044	.025	.014	.017	.020	.023	.029	.035	.040	.044	.047	.045	.038
Key West, Fla.	30.147	.139	.134	.131	.133	.136	.148	.165	.181	.191	.184	.163	.138	.120	.111	.114	.117	.124	.134	.146	.154	.158	.155	.150	.145
Memphis, Tenn.	29.673	.673	.671	.675	.674	.677	.677	.685	.696	.704	.712	.703	.679	.656	.639	.639	.641	.645	.653	.657	.663	.668	.673	.672	.671
New Orleans, La.	30.091	.093	.093	.093	.093	.095	.104	.115	.128	.139	.141	.122	.093	.073	.061	.056	.057	.061	.069	.077	.087	.091	.092	.091	.092
New York, N. Y.	29.644	.643	.643	.640	.634	.639	.651	.665	.681	.687	.678	.657	.642	.635	.639	.647	.655	.660	.666	.668	.666	.666	.658	.651	.655
Philadelphia, Pa.	29.894	.899	.899	.893	.891	.895	.908	.922	.935	.943	.935	.913	.891	.884	.888	.892	.900	.906	.911	.913	.913	.910	.904	.900	.906
Pittsburg, Pa.	29.097	.100	.103	.103	.104	.108	.110	.115	.126	.133	.127	.118	.097	.083	.084	.090	.095	.101	.105	.109	.111	.113	.112	.102	.106
Portland, Oreg.	29.990	.992	.993	.992	.995	.998	.994	.991	.988	.990	.996	.004	.014	.018	.006	.994	.977	.975	.974	.976	.976	.978	.977	.980	.990
St. Louis, Mo.	29.447	.449	.451	.455	.454	.456	.459	.460	.467	.475	.482	.474	.451	.432	.423	.419	.430	.432	.435	.439	.448	.449	.452	.450	.450
St. Paul, Minn.	29.093	.092	.094	.100	.100	.092	.092	.088	.090	.098	.105	.109	.092	.070	.058	.058	.062	.067	.074	.080	.085	.088	.087	.091	.086
Salt Lake City, Utah	25.725	.727	.721	.725	.724	.719	.713	.715	.719	.723	.735	.745	.743	.728	.712	.699	.697	.700	.704	.711	.717	.717	.714	.716	.719
San Diego, Cal.	30.010	.011	.008	.008	.010	.006	.000	.996	.000	.005	.019	.039	.046	.040	.015	.996	.983	.979	.982	.984	.988	.996	.004	.009	.006
San Francisco, Cal.	30.022	.022	.025	.027	.033	.031	.024	.023	.024	.029	.037	.050	.056	.050	.017	.999	.989	.983	.983	.983	.987	.993	.000	.009	.016
Savannah, Ga.	30.058	.058	.058	.058	.061	.065	.075	.080	.097	.109	.102	.082	.051	.032	.027	.029	.037	.043	.053	.060	.065	.068	.070	.064	.063
Washington, D. C.	29.917	.925	.927	.925	.927	.937	.948	.961	.980	.988	.979	.955	.936	.925	.924	.924	.930	.937	.940	.940	.938	.938	.932	.925	.940

TABLE VI.—*Average wind movement for each hour of seventy-fifth meridian time, January*, 1898.

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	10.3	10.3	9.1	8.1	8.3	8.3	8.7	8.4	8.7	8.9	10.1	11.3	12.3	12.1	12.6	12.4	12.8	11.5	10.1	8.0	8.5	9.4	9.6	9.9	10.0
Albany, N. Y	6.8	6.6	6.9	7.0	6.7	7.1	7.5	8.0	8.0	8.0	8.8	9.1	9.7	9.4	9.1	8.4	7.5	7.5	6.9	6.4	6.0	6.4	6.7	7.0	7.6
Alpena, Mich	8.7	8.8	8.2	8.0	8.3	8.3	8.2	8.4	8.8	9.0	9.3	11.2	11.3	11.5	11.5	11.0	10.5	9.9	9.9	10.4	10.4	9.9	9.7	9.1	9.6
Amarillo, Tex	16.1	15.4	15.1	14.7	13.9	13.2	13.1	13.4	12.8	11.3	12.0	13.9	15.2	14.9	16.5	16.8	15.2	14.8	13.9	12.8	13.6	13.9	14.8	16.0	14.3
Atlanta, Ga	11.5	11.3	11.0	10.6	11.0	11.2	10.6	11.2	11.5	12.0	12.8	12.6	13.2	13.1	13.5	12.9	12.1	10.5	10.0	10.8	11.0	11.5	11.7	11.3	11.6
Atlantic City, N. J	11.4	12.1	12.0	12.6	12.5	12.5	12.1	11.8	12.3	12.9	14.0	14.3	15.5	14.8	14.7	13.5	12.0	11.0	10.7	10.6	10.3	10.4	10.8	10.6	12.3
Augusta, Ga	6.4	6.3	5.8	6.3	5.7	5.6	5.3	5.3	5.8	7.2	7.9	8.1	8.7	9.0	9.4	9.4	9.1	8.2	6.7	6.1	5.8	6.1	6.0	5.9	6.9
Baker City, Oreg	6.1	5.9	5.8	5.9	5.3	6.2	5.8	5.9	5.6	5.6	5.9	5.9	5.5	5.4	4.9	5.4	5.6	5.3	4.6	4.5	5.0	5.0	5.1	5.5	5.5
Baltimore, Md	4.6	5.0	4.7	4.8	4.3	4.5	5.0	5.4	5.5	5.9	6.6	6.7	7.3	7.2	7.3	7.1	6.1	5.2	5.0	4.8	4.9	5.0	4.7	4.6	5.5
Bismarck, N. Dak	4.8	5.5	6.1	5.6	5.5	5.6	6.7	6.7	6.1	6.3	6.4	7.5	8.7	10.0	11.1	11.9	11.9	9.8	7.8	6.6	6.4	6.7	5.9	5.1	7.3
Block Island, R. I	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Boston, Mass	9.9	9.4	9.9	10.5	11.2	11.1	11.7	11.7	11.7	12.9	12.9	13.5	13.3	13.6	13.1	12.2	10.8	10.1	10.6	10.5	10.9	10.8	10.2	10.6	11.4
Buffalo, N. Y	16.1	15.8	15.2	15.1	15.7	15.3	15.1	15.0	14.6	13.8	15.6	16.1	17.5	17.7	18.2	16.4	16.8	17.4	18.0	18.1	17.7	17.5	17.7	16.8	16.4
Cairo, Ill	9.3	9.7	9.3	9.6	9.8	9.4	9.7	9.7	9.7	10.1	11.0	11.2	11.4	11.3	11.5	11.2	10.7	10.4	9.4	9.3	9.8	9.6	9.3	9.3	10.1
Cape Henry, Va	13.2	13.7	13.9	14.0	13.6	13.4	13.7	13.9	13.7	14.3	14.9	15.0	15.9	15.5	14.9	13.5	12.1	12.0	11.7	12.9	13.7	14.2	14.5	14.1	13.8
Carson City, Nev	3.9	3.2	3.2	2.9	2.7	3.0	3.1	2.7	2.6	2.7	2.9	3.2	4.4	4.4	5.7	5.8	6.4	6.9	7.1	7.4	6.3	6.2	5.5	4.8	4.5
Charleston, S. C	9.5	9.6	9.5	9.7	10.3	10.0	9.5	9.5	9.7	11.2	11.5	11.8	12.5	13.3	13.3	13.4	12.2	10.8	9.8	9.4	9.2	9.2	9.3	9.1	10.6
Charlotte, N. C	7.5	7.5	7.4	7.3	6.1	6.3	6.2	6.0	6.7	8.3	8.5	8.8	9.0	9.2	10.2	9.9	9.1	8.0	7.4	7.8	8.4	7.9	7.8	8.1	7.9
Chattanooga, Tenn	8.0	8.4	7.9	8.1	8.3	8.1	8.6	8.5	8.8	9.4	8.5	8.8	10.0	10.2	10.2	9.7	10.3	9.9	9.1	8.9	8.8	9.0	8.2	7.6	8.9
Cheyenne, Wyo	9.2	9.5	9.5	10.6	11.5	11.1	11.0	11.4	11.8	10.9	11.0	11.7	14.0	14.3	14.3	15.4	15.5	14.7	12.8	10.2	8.7	8.0	8.9	9.4	11.5
Chicago, Ill	16.4	15.4	15.9	16.8	16.5	17.0	16.9	16.0	16.2	17.0	17.8	18.3	19.2	18.7	19.3	19.2	20.1	20.1	20.9	19.9	18.4	17.6	16.5	16.7	17.8
Cincinnati, Ohio	9.6	9.5	9.4	8.7	8.6	8.5	9.6	10.1	10.3	10.3	11.4	11.3	12.1	12.1	11.8	11.8	11.9	11.1	10.3	10.3	10.4	10.3	10.5	10.3	10.4
Cleveland, Ohio	17.1	16.7	16.7	17.0	16.8	17.3	17.6	18.2	18.3	17.5	17.5	17.6	18.9	18.7	18.8	17.9	16.8	17.1	18.9	19.4	19.7	18.9	18.8	17.9	17.9
Columbia, Mo	9.1	9.1	9.1	8.6	8.5	8.8	8.9	9.0	8.9	10.0	10.6	10.7	11.3	11.8	11.5	11.6	11.1	10.3	9.3	9.0	8.9	9.9	10.5	9.3	9.8
Columbus, Ohio	9.0	8.9	9.2	8.7	8.2	8.2	8.3	9.0	9.4	10.1	10.8	10.4	11.1	10.9	11.2	10.5	10.5	9.8	9.9	9.9	9.9	9.4	9.1	9.6	9.7
Concordia, Kans	4.0	4.4	4.3	4.1	4.1	4.2	4.2	4.6	4.8	4.9	4.9	5.5	6.2	6.2	6.2	6.4	6.2	5.2	4.4	4.0	4.1	4.3	4.3	4.0	4.8
Corpus Christi, Tex	10.1	9.3	8.5	7.7	8.5	9.0	9.8	9.1	8.1	8.3	9.8	11.3	12.9	13.2	14.3	15.0	14.8	13.8	12.2	10.9	9.6	9.7	9.4	9.4	10.6
Davenport, Iowa	6.6	6.5	6.9	6.7	6.2	6.5	6.3	7.1	7.3	7.5	7.9	8.2	9.4	9.6	9.9	9.3	8.9	8.2	7.5	6.7	7.5	7.5	6.7	6.2	7.6
Denver, Colo	6.9	6.8	7.1	7.6	7.0	6.5	6.9	7.5	7.5	6.7	6.4	6.0	6.4	7.7	9.0	8.8	8.7	9.4	8.4	6.8	6.1	5.6	5.9	6.5	7.2
Des Moines, Iowa	6.6	6.0	6.0	6.1	6.3	6.1	6.4	6.5	6.7	6.7	7.4	7.6	8.6	8.4	8.3	8.9	8.5	7.9	7.2	7.0	6.6	6.4	6.4	6.1	7.0
Detroit, Mich	9.8	9.6	9.6	9.3	10.1	9.7	9.6	9.6	10.0	10.5	11.2	12.0	12.9	13.2	13.5	13.4	12.7	11.7	11.5	10.8	11.3	10.8	10.7	10.8	11.0
Dodge City, Kans	7.4	8.1	8.8	9.1	8.6	8.4	8.0	7.3	6.9	7.2	7.3	7.0	7.6	8.4	9.3	8.9	8.2	7.5	6.0	5.6	6.5	7.0	6.7	6.6	7.6
Dubuque, Iowa	6.5	5.9	5.8	6.4	6.1	5.8	6.3	6.2	6.4	7.2	7.9	8.2	8.7	8.5	8.4	8.3	7.8	7.2	6.5	6.7	6.7	6.5	6.3	6.1	6.9
Duluth, Minn	8.2	8.4	8.0	8.1	7.2	7.8	6.9	7.6	8.3	9.3	8.2	8.2	8.9	8.3	7.6	7.6	7.6	6.8	6.8	7.8	8.5	8.2	7.8	7.5	7.9
Eastport, Me	13.7	13.2	13.9	13.9	13.8	14.3	13.5	14.1	14.8	14.8	15.1	14.6	14.3	15.0	15.7	15.8	15.5	16.0	15.2	15.1	14.2	14.1	14.8	14.3	14.6
El Paso, Tex	8.8	7.9	8.0	8.1	9.5	9.1	9.2	8.5	8.5	7.8	8.1	9.6	10.4	11.7	12.5	14.5	14.9	15.0	14.6	13.5	12.2	11.6	10.7	9.5	10.6
Erie, Pa	14.1	13.3	13.4	13.0	12.8	13.0	13.9	13.5	13.5	13.1	13.4	12.7	13.6	13.4	12.9	12.6	12.3	11.5	12.2	12.7	12.9	13.7	14.8	14.6	13.2
Eureka, Cal	3.3	3.6	3.4	3.1	3.3	3.4	3.5	3.3	4.0	4.1	4.5	3.9	4.1	4.5	6.2	8.3	9.2	10.2	10.3	9.3	7.6	5.6	5.4	4.5	5.4
Fort Canby, Wash	14.0	14.0	12.6	12.2	12.6	13.1	13.2	13.7	13.2	13.2	14.9	14.8	16.4	16.0	14.4	12.8	12.8	12.6	13.0	14.0	13.7	12.8	13.8	13.3	13.6
Fort Smith, Ark	7.0	7.0	7.5	7.0	7.0	7.5	7.5	7.8	7.8	8.1	7.9	8.9	8.4	8.9	9.1	9.1	9.3	8.2	7.0	6.5	6.5	6.6	7.0	7.1	7.7
Fresno, Cal	4.0	4.2	4.1	4.6	4.6	4.1	4.0	4.3	3.9	3.5	4.0	4.0	4.9	5.1	5.2	5.4	5.4	5.2	5.1	4.2	4.0	3.9	3.7	3.6	4.4
Galveston, Tex	11.8	12.0	11.5	11.0	10.5	10.1	11.4	12.0	12.1	12.1	12.1	12.8	12.8	11.8	11.4	11.7	11.8	11.5	11.1	10.3	10.4	11.2	11.0	10.8	11.5
Grand Haven, Mich	10.4	10.0	10.1	10.1	10.8	11.1	10.9	10.9	10.9	11.0	11.6	12.2	13.2	13.1	13.1	12.8	11.9	11.1	10.9	10.5	10.3	10.9	11.1	10.9	11.2
Greenbay, Wis	7.2	7.9	7.3	7.4	7.6	7.5	7.5	7.7	7.9	7.9	8.8	9.2	9.4	9.5	9.5	9.6	8.6	7.9	7.6	7.4	7.3	7.5	7.8	7.7	8.1
Hannibal, Mo	8.9	7.9	7.8	8.2	8.5	8.3	8.4	8.2	8.2	8.4	9.6	10.5	11.9	11.8	12.0	12.7	11.3	9.9	9.4	8.8	8.7	8.6	9.0	9.0	9.4
Harrisburg, Pa	8.3	8.3	8.4	8.7	9.0	8.8	8.7	8.6	8.9	9.4	10.1	11.0	10.8	10.8	10.7	11.1	10.0	9.4	9.0	8.5	9.0	8.9	8.8	8.8	9.3
Hatteras, N. C	15.5	15.7	16.1	16.1	15.8	15.9	16.2	16.1	16.3	16.1	15.8	15.0	14.6	14.4	15.0	15.4	15.2	15.1	15.2	15.5	15.2	15.3	15.7	16.2	15.6
Havre, Mont	9.5	9.4	9.7	10.2	9.8	9.3	10.3	9.9	9.6	10.8	11.0	11.4	11.4	12.8	13.6	13.5	13.5	12.5	11.0	10.3	9.6	9.4	9.6	9.3	10.7
Helena, Mont	6.1	5.8	5.5	4.8	4.7	5.7	5.2	5.3	6.4	7.2	7.2	6.8	7.2	7.9	8.3	8.0	8.0	6.9	6.7	6.4	6.6	6.8	7.0	6.5	6.5
Huron, S. Dak	10.0	9.6	9.5	8.9	8.4	8.0	7.7	7.7	8.4	8.6	9.5	10.8	11.6	11.6	12.0	11.8	11.9	10.1	8.7	9.1	9.4	9.5	10.1	9.9	9.7
Idaho Falls, Idaho	7.0	7.2	7.1	6.6	7.6	6.8	6.9	5.8	6.1	6.1	6.5	6.4	5.9	5.5	5.3	5.5	6.5	6.5	6.4	6.7	7.0	6.9	6.7	7.3	6.5
Indianapolis, Ind	12.0	11.7	12.0	11.5	11.5	12.1	12.1	11.2	11.2	11.5	12.4	13.5	14.4	14.3	14.2	14.6	14.0	13.0	13.1	12.5	13.0	13.1	12.2	12.1	12.6
Jacksonville, Fla	6.2	6.3	5.9	5.4	6.1	6.1	6.1	5.6	6.7	7.4	7.7	8.3	9.5	9.5	10.2	9.6	8.6	7.1	6.3	6.1	5.8	6.0	5.7	6.0	7.0
Jupiter, Fla	7.3	7.3	7.5	8.1	8.3	7.9	8.4	8.6	8.7	10.2	10.9	11.3	11.6	12.1	12.4	12.1	10.7	8.5	7.6	7.0	6.5	7.2	6.8	7.1	8.9
Kansas City, Mo	6.4	6.4	6.0	6.0	6.2	6.2	6.1	6.8	6.7	6.6	7.4	8.6	8.9	8.6	8.2	8.3	8.2	6.8	6.2	7.0	7.5	6.4	6.4	6.0	7.0
Keokuk, Iowa	8.0	7.6	7.3	7.3	6.9	6.6	6.9	7.0	6.9	7.5	8.1	8.7	9.1	9.8	10.2	10.2	9.1	7.9	7.8	7.8	7.7	7.4	7.5	7.2	7.9
Key West, Fla	7.9	8.0	8.4	8.3	8.9	8.8	8.6	9.0	9.4	9.8	10.7	10.6	11.3	11.8	11.6	11.3	10.7	9.9	9.3	8.9	9.3	9.6	8.9	8.2	9.5
Kittyhawk, N. C	15.4	15.5	15.9	16.0	15.9	16.0	16.1	15.9	16.6	16.9	17.7	16.4	16.5	17.2	16.3	15.1	15.1	15.1	15.0	16.0	16.7	16.4	15.9	15.2	16.0
Knoxville, Tenn	7.8	8.8	8.9	9.1	8.3	8.7	8.3	8.8	9.1	9.9	10.9	10.8	11.2	11.1	11.5	11.0	10.4	9.8	10.4	8.8	8.3	8.3	8.0	7.5	9.4
La Crosse, Wis	6.4	7.0	6.2	6.7	6.7	6.0	5.6	5.7	5.7	6.4	6.2	6.9	7.2	7.0	7.1	6.8	6.6	6.5	6.3	5.5	5.5	5.9	6.2	5.9	6.3
Lander, Wyo	2.1	2.8	2.3	2.2	2.4	2.0	2.2	2.3	2.5	2.3	1.8	1.8	2.2	2.4	2.8	3.3	3.6	3.2	2.3	2.5	2.8	2.4	2.4	2.2	2.5
Lexington, Ky	14.2	13.7	13.8	13.0	12.9	12.6	13.9	13.5	13.7	14.8	14.9	16.0	16.0	16.0	16.2	16.0	15.2	13.9	13.3	13.4	13.9	14.1	13.9	14.6	14.3
Little Rock, Ark	7.5	7.4	6.4	6.5	6.6	6.4	6.3	6.5	6.9	8.2	9.6	9.2	9.2	8.6	8.8	9.1	9.1	8.6	7.2	6.7	6.9	7.1	7.3	7.0	7.6
Los Angeles, Cal	3.8	3.3	3.5	4.4	4.7	4.5	4.3	4.8	5.1	4.9	5.0	5.5	5.9	5.9	5.5	5.9	5.9	6.4	6.6	5.9	4.8	3.5	3.1	3.5	4.9
Louisville, Ky	10.1	10.3	9.6	9.4	10.4	10.3	9.5	10.0	10.4	10.9	11.1	11.5	12.8	12.6	12.8	13.0	12.3	11.2	10.5	10.2	10.7	11.0	10.8	11.0	10.9
Lynchburg, Va	4.3	4.5	3.9	4.4	5.0	5.0	4.7	4.8	4.8	5.9	6.5	7.1	7.6	7.0	6.6	6.1	5.6	5.2	5.2	4.3	3.6	4.1	3.7	3.8	5.2
Marquette, Mich	10.9	11.6	11.6	11.6	11.6	11.3	11.0	11.0	10.9	11.3	10.5	10.9	11.9	11.9	11.8	11.1	10.5	9.7	9.5	9.7	9.3	10.0	10.9	10.9	10.9
Memphis, Tenn	13.2	13.0	13.5	12.8	11.6	11.5	11.9	12.0	11.1	11.8	13.0	12.4	11.8	12.2	11.6	11.2	11.2	10.1	9.8	10.0	10.8	11.5	11.7	12.0	11.7
Milwaukee, Wis	10.3	10.0	9.9	9.8	10.5	10.4	10.8	10.6	10.5	11.0	11.3	11.4	12.2	12.2	11.9	12.3	11.5	10.5	10.4	10.1	10.4	10.2	10.5	10.4	10.8
Mobile, Ala	7.1	6.6	7.1	7.1	6.8	6.7	6.6	7.2	6.8	8.7	9.3	9.7	9.7	10.1	9.9	10.2	9.6	9.4	8.1	7.3	7.4	7.1	6.5	6.7	8.0
Montgomery, Ala	6.8	6.0	6.5	6.6	6.6	6.6	6.6	6.7	6.5	7.6	8.5	9.3	9.6	9.7	9.6	10.0	9.0	7.9	6.9	6.9	6.8	6.8	7.7	7.4	7.6
Moorhead, Minn	8.5	8.3	7.9	8.3	8.2	8.1	7.9	8.1	8.5	9.1	9.5	10.3	11.9	11.9	11.7	11.4	10.8	9.8	8.9	8.5	9.6	9.9	9.6	9.0	9.4
Nantucket, Mass	11.8	12.1	12.2	12.9	12.5	12.1	11.8	12.7	13.5	13.9	14.3	15.0	14.4	13.9	14.1	13.6	12.5	12.5	12.7	13.5	13.3	13.2	13.4	13.1	13.1
Nashville, Tenn	7.9	8.3	7.9	8.1	7.9	7.8	8.3	8.4	8.5	8.9	9.7	9.3	9.5	9.4	9.9	9.8	9.5	9.0	8.5	8.2	7.9	8.2	8.8	8.2	8.7
New Haven, Conn	9.2	9.4	9.6	9.5	9.9	8.8	9.3	9.1	9.4	11.3	12.0	12.3	12.5	12.8	11.7	11.4	10.5	9.2	9.0	8.8	8.2	8.5	9.6	9.5	10.1
New Orleans, La	10.1	9.8	9.8	10.0	10.1	9.8	9.8	9.5	9.8	11.0	11.7	11.9	11.8	12.1	12.3	11.7	11.3	10.4	9.1	8.9	9.1	8.9	9.1	9.5	10.3
New York, N. Y	12.5	12.4	12.8	12.8	12.9	13.8	13.9	14.1	13.7	13.6	14.1	14.5	13.7	15.0	14.5	13.1	13.8	14.2	14.2	13.7	14.5	13.0	12.4	12.2	13.6
Norfolk, Va	8.9	8.8	8.9	8.7	8.6	8.3	9.1	8.4	9.3	10.6	11.6	12.3	13.0	12.2	11.7	11.3	10.1	9.1	9.0	8.4	8.9	8.9	9.1	8.7	9.7
Northfield, Vt	8.2	8.1	7.9	7.7	7.9	8.0	8.3	8.4	7.7	7.5	7.5	8.7	9.1	9.5	9.4	8.5	8.6	7.6	8.0	8.0	7.5	6.8	6.4	7.5	8.0
North Platte, Nebr	6.1	5.9	5.8	6.1	6.1	5.9	6.4	6.5	6.9	6.2	6.8	7.9	8.7	9.3	10.0	10.3	10.2	7.8	6.5	6.6	6.1	6.3	6.6	6.2	7.1
Oklahoma, Okla	9.0	9.1	9.5	9.4	8.9	9.8	10.4	10.3	10.7	10.5	11.9	12.8	13.0	13.4	13.4	13.8	13.5	12.0	10.2	9.3	9.3	9.2	8.9	8.8	10.7
Omaha, Nebr	6.2	5.9	5.9	5.9	5.7	5.8	5.6	5.7	5.9	6.1	6.9	7.4	7.9	7.9	7.6	7.8	7.8	7.4	6.5	6.2	5.8	5.6	6.5	6.3	6.5
Oswego, N. Y	14.5	14.4	14.3	14.6	14.5	14.3	14.1	15.0	14.4	13.7	13.5	13.6	13.4	12.6	12.4	12.2	11.4	11.0	12.0	12.6	12.5	13.4	14.2	14.0	13.4
Palestine, Tex	7.3	7.3	6.7	7.0	7.6	7.4	7.4	7.2	6.8	7.1	9.1	9.6	10.3	10.3	10.5	10.0	9.9	9.3	7.4	6.6	6.7	7.4	7.4	7.6	8.1
Parkersburg, W. Va	4.4	4.4	4.5	4.1	3.9	4.2	4.6	4.1	4.1	4.4	5.4	5.3	5.9	5.7	5.5	5.3	5.3	4.9	4.5	4.8	4.5	4.5	4.6	4.5	4.7

TABLE VI.—*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.
Pensacola, Fla	8.9	8.9	8.0	8.0	8.1	8.7	8.6	8.3	8.2	9.7	10.0	9.7	9.6	9.5	9.9	10.4	9.7	9.6	9.2	8.6	8.1	8.4	8.2	9.2	9.0
Philadelphia, Pa	9.4	10.3	10.7	10.7	10.7	10.3	10.4	10.6	11.0	11.0	11.8	11.8	11.8	12.1	11.9	11.1	10.5	9.5	9.5	9.5	9.8	9.7	9.7	9.1	10.5
Phœnix, Ariz	3.4	3.1	3.5	3.6	3.4	3.1	3.4	3.3	3.2	3.0	3.1	4.5	5.3	6.0	6.0	5.8	5.9	5.6	5.2	4.4	3.5	3.6	3.5	2.9	4.1
Pierre, S. Dak	5.5	5.5	4.5	5.3	4.6	4.6	5.2	5.1	5.7	5.4	5.8	7.0	7.8	8.6	9.7	10.3	10.0	9.4	8.3	6.5	5.5	5.2	5.1	5.3	6.5
Pittsburg, Pa	7.8	7.4	7.1	7.5	7.7	7.3	7.5	7.4	7.9	8.5	9.7	10.0	9.5	8.9	9.2	8.8	8.6	8.0	7.8	8.0	8.4	8.9	8.7	8.5	8.3
Port Angeles, Wash.	6.1	6.8	6.8	6.3	6.2	6.4	6.4	6.2	6.4	6.0	5.5	5.2	5.2	3.6	3.6	4.0	4.3	4.5	4.1	3.5	4.0	4.8	5.0	5.7	5.3
Port Huron, Mich	11.9	11.4	10.8	10.8	11.5	11.6	11.7	11.9	11.6	11.7	12.6	13.8	14.7	14.3	14.2	14.2	13.2	12.2	12.8	13.0	14.0	13.8	13.0	12.4	12.6
Portland, Me	7.6	7.2	7.1	7.2	7.4	7.4	7.5	7.4	7.6	8.0	8.4	8.4	8.6	8.8	7.9	7.5	6.6	6.5	6.3	6.8	7.2	7.7	7.7	7.6	7.5
Portland, Oreg	9.0	8.5	7.8	7.4	7.3	7.6	7.9	8.6	8.3	8.5	8.3	7.5	8.2	9.0	8.7	8.6	9.5	9.1	7.8	8.6	8.5	8.2	9.0	9.0	8.4
Pueblo, Colo	6.1	5.8	5.5	5.6	4.5	4.9	5.3	5.2	5.1	5.6	5.3	5.1	5.6	6.5	7.1	7.8	8.4	8.4	8.0	7.1	5.7	5.1	5.7	6.0	6.1
Raleigh, N. C	6.3	6.6	6.1	5.9	5.8	5.6	6.0	5.8	6.1	7.8	9.0	9.3	9.6	9.5	9.1	8.6	8.2	6.2	6.0	6.5	6.4	7.1	6.7	6.4	7.1
Rapid City, S. Dak	5.6	6.0	6.6	7.3	7.2	7.3	7.3	7.1	6.7	7.5	7.2	5.9	5.5	5.8	7.1	7.6	7.1	6.5	5.9	4.6	4.8	4.6	4.7	5.2	6.3
Redbluff, Cal	4.8	4.9	4.8	5.0	4.5	5.2	4.8	4.7	4.7	4.7	4.9	4.8	5.0	5.9	6.1	6.5	6.4	6.5	6.6	6.2	5.8	5.7	5.3	4.8	5.4
Rochester, N. Y	8.6	8.5	8.3	9.0	9.0	8.6	8.6	9.2	8.6	9.0	9.1	9.0	9.2	9.5	9.2	9.0	8.7	7.9	8.3	8.6	8.7	9.4	9.3	9.2	8.9
Roseburg, Oreg	2.2	2.3	2.7	2.9	2.7	2.9	2.9	2.8	2.6	2.5	2.5	2.1	2.4	2.7	3.0	3.4	4.0	3.9	3.7	3.3	2.4	2.4	2.1	2.4	2.8
Sacramento, Cal	9.3	8.9	8.6	8.9	8.7	7.9	7.6	7.3	7.5	7.2	7.3	7.4	7.9	8.5	9.1	9.7	9.4	9.5	9.1	8.3	8.8	8.6	8.8	8.5	8.4
St. Louis, Mo	10.3	10.2	10.5	9.9	9.5	9.6	10.0	10.1	10.6	10.7	11.7	12.7	13.3	12.8	13.3	13.1	12.5	11.9	11.0	11.4	11.2	11.5	10.7	10.5	11.2
St. Paul, Minn	6.7	6.4	6.3	6.1	6.1	6.2	6.2	6.5	6.6	6.8	6.7	7.0	7.8	7.7	8.5	8.5	8.8	7.9	7.4	7.4	7.2	7.4	6.9	6.7	7.1
Salt Lake City, Utah	3.3	3.3	3.4	3.5	3.2	3.7	3.5	3.6	3.6	4.0	3.7	4.0	5.2	5.5	6.0	6.6	6.3	5.7	5.3	3.7	3.5	3.5	4.0	4.0	4.3
San Antonio, Tex	7.1	8.3	8.9	8.8	8.5	8.0	7.9	7.5	7.7	7.7	9.5	10.4	10.3	10.9	11.3	10.5	10.8	10.4	9.4	7.3	8.5	8.3	7.5	7.1	8.9
San Diego, Cal	4.7	4.5	5.1	5.0	5.1	5.5	5.2	5.4	5.6	6.0	4.7	4.5	4.7	5.5	6.9	7.8	7.9	8.8	8.4	7.2	5.3	4.4	4.3	4.9	5.7
Sandusky, Ohio	10.0	10.1	10.2	10.1	10.7	10.3	10.6	10.8	9.8	10.9	11.1	12.3	12.3	12.0	11.6	11.0	11.0	10.8	10.5	10.6	10.9	10.8	10.3	9.2	10.7
San Francisco, Cal	7.8	7.2	6.6	6.7	6.5	5.8	6.4	6.8	6.5	6.5	7.0	6.9	8.3	8.2	8.0	8.0	8.5	8.2	8.0	7.7	8.0	8.2	8.7	8.7	7.5
San Luis Obispo, Cal	3.1	3.1	2.6	2.6	2.7	2.8	2.7	3.4	3.8	3.2	2.8	3.1	4.4	5.7	7.3	7.5	7.8	8.0	7.5	6.6	5.2	4.3	4.1	3.8	4.5
Santa Fe, N. Mex	3.6	3.5	4.1	4.5	4.8	4.6	4.8	5.5	6.0	5.9	6.4	7.9	8.4	9.0	8.9	9.1	8.3	8.0	5.5	3.7	3.8	3.8	4.1	3.9	5.8
Sault Ste Marie, Mich.	7.5	7.6	7.8	7.7	8.0	8.0	8.5	8.8	8.7	9.0	9.7	9.6	10.3	10.1	10.2	10.6	10.6	9.8	8.5	8.3	7.1	7.1	7.1	7.3	8.7
Savannah, Ga	8.2	8.1	8.0	8.5	8.3	8.3	8.5	8.9	8.7	9.7	9.6	10.7	11.2	10.9	11.1	11.5	10.0	8.2	7.6	7.7	8.0	8.4	8.7	8.5	9.1
Seattle, Wash	6.3	5.8	5.7	5.6	5.2	5.0	5.0	5.0	5.4	5.5	6.1	5.8	6.1	6.5	6.3	7.0	6.9	6.7	6.6	6.7	6.7	6.8	6.5	6.4	6.1
Shreveport, La	8.6	7.5	7.5	7.4	6.8	6.8	7.0	7.8	7.9	7.9	8.7	9.8	9.6	9.4	9.9	10.0	9.5	8.5	8.2	8.3	8.2	8.4	8.4	8.4	8.4
Sioux City, Iowa	8.9	9.0	9.3	9.5	9.8	9.1	9.5	9.8	9.9	9.5	9.2	10.1	11.8	12.2	12.9	12.4	11.8	11.3	10.1	9.4	9.3	9.4	9.5	9.2	10.1
Spokane, Wash	4.1	4.5	3.8	4.6	3.9	4.3	3.7	3.5	3.5	3.7	3.4	3.6	3.8	4.3	4.7	4.7	4.8	4.7	4.2	3.7	3.6	3.6	3.9	3.9	4.1
Springfield, Ill	9.6	9.5	9.6	9.4	9.6	9.3	9.7	9.6	10.4	10.4	10.0	10.5	11.4	12.5	12.5	12.7	11.9	10.9	10.2	10.1	10.3	10.1	10.0	9.2	10.4
Springfield, Mo	11.5	11.7	11.9	11.9	11.6	11.2	11.3	12.0	12.0	12.6	13.0	13.9	13.7	12.6	12.9	13.0	12.5	11.7	11.1	10.7	10.8	11.1	11.2	10.7	11.9
Tacoma, Wash	5.1	5.3	5.5	6.1	5.5	4.7	4.9	5.4	4.7	4.3	4.6	4.5	4.5	5.9	6.8	6.9	7.5	7.3	7.3	7.1	6.8	6.3	6.4	6.1	5.8
Tampa, Fla	5.0	4.7	5.1	5.4	5.7	5.0	5.7	5.6	5.6	6.5	7.3	7.4	8.2	8.0	8.0	8.1	7.9	6.4	5.7	4.7	4.1	3.9	4.4	4.2	5.9
Tatoosh Island, Wash.	14.6	15.8	16.5	14.6	15.2	15.1	14.1	14.8	14.3	14.4	14.6	15.1	13.8	14.6	13.5	14.0	14.0	14.4	14.1	14.2	13.3	14.4	14.2	14.4	14.5
Toledo, Ohio	10.1	10.1	10.0	10.3	10.2	10.1	10.2	10.1	10.0	10.5	11.7	12.6	13.3	13.7	13.3	13.4	12.6	11.8	12.0	11.1	11.2	11.0	10.6	10.4	11.3
Vicksburg, Miss	10.0	9.6	8.7	9.1	9.6	9.1	8.6	8.5	8.7	9.0	9.5	9.2	9.3	9.5	9.5	9.6	9.3	8.6	7.9	8.4	8.6	9.3	9.5	9.4	9.1
Vineyard Haven, Mass	8.9	9.4	9.7	9.4	9.0	9.8	9.5	9.7	10.3	10.5	11.4	11.5	11.2	11.1	10.4	9.7	8.8	9.1	9.5	9.1	9.5	10.1	10.4	10.2	9.9
Walla Walla, Wash	4.9	4.3	4.4	4.4	4.8	4.9	4.8	4.7	4.4	4.4	4.5	4.5	4.9	5.8	6.0	5.8	5.7	5.5	4.9	4.4	4.5	4.6	5.0	5.0	4.9
Washington, D. C	6.2	6.1	6.5	6.6	6.5	6.6	6.5	6.0	6.3	8.4	9.9	10.6	10.6	11.0	10.5	9.2	8.4	7.2	6.6	6.4	6.5	6.8	6.4	6.3	7.6
Wichita, Kans	6.7	6.5	6.1	6.1	6.6	7.0	7.6	7.9	8.1	8.1	8.7	8.9	10.0	9.8	9.6	9.5	8.7	8.1	7.0	6.6	6.9	7.4	7.0	6.5	7.7
Williston, N. Dak	6.3	5.6	5.6	5.2	5.0	5.2	5.4	4.7	5.2	5.3	5.3	5.9	8.3	9.2	10.3	11.0	10.5	8.9	7.2	6.2	5.6	5.5	5.7	5.8	6.6
Wilmington, N. C	8.6	8.7	8.6	8.4	8.9	8.8	8.5	8.3	9.1	10.4	11.2	11.4	11.5	12.2	12.0	11.8	11.1	9.2	8.6	8.5	8.6	8.3	8.5	8.5	9.6
Woods Hole, Mass	16.5	15.5	17.5	16.6	16.6	16.7	16.9	17.7	18.5	18.1	18.0	17.5	17.5	17.5	17.2	16.2	15.9	15.4	15.8	16.1	17.3	16.9	18.5	18.1	17.1
Yankton, S. Dak	7.0	7.2	6.6	6.0	6.2	6.7	6.5	6.9	7.2	7.1	7.0	7.2	7.9	8.9	9.0	8.9	8.3	7.5	6.4	6.7	6.4	6.8	7.1	6.5	7.2

TABLE VII.—*Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of January*, 1898.

Stations.	Component direction from— N.	S.	E.	W.	Resultant. Direction from—	Duration.
	Hours.	Hours.	Hours.	Hours.	°	Hours.
New England.						
Eastport, Me	29	8	9	27	n. 41 w.	28
Portland, Me	31	9	3	29	n. 50 w.	34
Northfield, Vt	24	32	2	8	s. 37 w.	10
Boston, Mass	23	13	8	34	n. 69 w.	28
Nantucket, Mass	29	14	10	25	n. 45 w.	21
Woods Hole, Mass.*	9	8	5	17	n. 85 w.	12
Block Island, R. I	28	10	14	28	n. 38 w.	32
New Haven, Conn	38	6	10	19	n. 16 w.	33
Middle Atlantic States.						
Albany, N. Y	27	19	5	19	n. 60 w.	16
Binghamton, N. Y.†	12	3	12	11	n. 6 e.	9
New York, N. Y	25	9	15	29	n. 41 w.	21
Harrisburg, Pa	16	12	21	26	n. 51 w.	6
Philadelphia, Pa	26	11	12	27	n. 45 w.	21
Atlantic City, N. J	26	9	13	39	n. 43 w.	23
Baltimore, Md	14	11	17	29	n. 76 w.	12
Washington, D. C	28	13	13	22	n. 31 w.	18
Lynchburg, Va	23	15	17	27	n. 51 w.	13
Norfolk, Va	25	15	23	19	n. 22 e.	11
Richmond, Va	8	9	5	13	s. 83 w.	8
South Atlantic States.						
Charlotte, N. C	16	27	18	19	s. 5 w.	11
Hatteras, N. C	27	14	10	23	n. 45 w.	18
Raleigh, N. C	18	15	11	30	n. 81 w.	19
Wilmington, N. C	13	18	13	32	s. 75 w.	20
Charleston, S. C	22	15	8	30	n. 72 w.	23
Augusta, Ga	9	21	11	35	s. 63 w.	27
Savannah, Ga	14	22	10	30	s. 68 w.	22
Jacksonville, Fla	16	23	9	28	s. 70 w.	20
Florida Peninsula.						
Jupiter, Fla	18	22	13	20	s. 60 w.	8
Key West, Fla	24	9	37	6	n. 64 e.	34
Tampa, Fla	23	16	12	25	n. 62 w.	15
Eastern Gulf States.						
Atlanta, Ga	18	20	11	31	s. 84 w.	20
Pensacola, Fla	24	23	14	16	n. 63 w.	2
Mobile, Ala	22	23	11	19	w.	8
Montgomery, Ala	19	19	13	25	w.	12
Vicksburg, Miss	18	24	20	11	s. 56 e.	11
New Orleans, La	25	22	15	11	n. 53 e.	5
Western Gulf States.						
Shreveport, La	15	23	24	20	s. 27 e.	9
Fort Smith, Ark	10	10	31	20	e.	11
Little Rock, Ark	12	18	17	25	s. 53 w.	10
Corpus Christi, Tex	21	17	26	12	n. 74 e.	15
Galveston, Tex	18	22	24	13	s. 70 e.	12
Palestine, Tex	21	22	17	13	s. 76 e.	4
San Antonio, Tex	31	16	23	9	n. 43 e.	20
Ohio Valley and Tennessee.						
Chattanooga, Tenn	21	23	13	25	s. 81 w.	12
Knoxville, Tenn	17	18	14	28	s. 86 w.	14
Memphis, Tenn	12	19	20	21	s. 8 w.	7
Nashville, Tenn	19	20	14	24	s. 84 w.	10
Lexington, Ky	8	20	20	28	s. 34 w.	14
Louisville, Ky	11	22	17	25	s. 36 w.	14
Indianapolis, Ind	13	17	14	33	s. 78 w.	19
Cincinnati, Ohio	10	16	23	25	s. 18 w.	6
Columbus, Ohio	11	17	17	31	s. 67 w.	15
Pittsburg, Pa	6	31	11	28	s. 34 w.	30
Parkersburg, W. Va	21	20	15	22	n. 82 w.	7
Lower Lake Region.						
Buffalo, N. Y	8	18	15	30	s. 56 w.	18
Oswego, N. Y	18	27	16	15	s. 6 e.	9
Rochester, N. Y	13	26	8	33	s. 63 w.	28
Erie, Pa	10	22	9	27	s. 56 w.	22
Cleveland, Ohio	11	24	17	28	s. 40 w.	17
Sandusky, Ohio	13	21	9	30	s. 69 w.	22
Toledo, Ohio	10	18	14	30	s. 63 w.	18
Detroit, Mich	12	18	16	29	s. 65 w.	14
Upper Lake Region.						
Alpena, Mich	20	16	6	32	n. 81 w.	26
Grand Haven, Mich	22	14	23	17	n. 37 e.	10
Marquette, Mich	22	17	3	33	n. 81 w.	30
Port Huron, Mich	15	26	12	23	s. 45 w.	16
Sault Ste. Marie, Mich	22	13	27	15	n. 53 e.	15
Chicago, Ill	17	20	11	26	s. 79 w.	15
Milwaukee, Wis	20	17	10	31	n. 82 w.	21
Upper Lake Region—Cont'd.						
Greenbay, Wis	18	11	3	20	n. 68 w.	18
Duluth, Minn	19	21	5	33	s. 86 w.	28
North Dakota.						
Moorhead, Minn	21	22	17	19	s. 6 w.	2
Bismarck, N. Dak	27	12	13	36	n. 41 w.	20
Williston, N. Dak	17	27	1	33	s. 73 w.	34
Upper Mississippi Valley.						
St. Paul, Minn	21	22	11	23	s. 85 w.	12
La Crosse, Wis. †	9	16	5	9	s. 30 w.	8
Davenport, Iowa	18	10	19	29	n. 51 w.	13
Des Moines, Iowa	28	12	16	20	n. 14 w.	16
Dubuque, Iowa	17	17	15	30	w.	15
Keokuk, Iowa	12	18	20	27	s. 49 w.	9
Cairo, Ill	20	23	16	19	s. 45 w.	4
Springfield, Ill	17	20	13	26	s. 77 w.	13
Hannibal, Mo. †	8	8	10	12	w.	2
St. Louis, Mo	14	17	20	25	s. 59 w.	6
Missouri Valley.						
Columbia, Mo.*	7	5	10	15	n. 68 w.	5
Kansas City, Mo	24	12	18	23	n. 23 w.	13
Springfield, Mo	20	26	17	18	s. 9 w.	6
Lincoln, Nebr	18	24	18	16	s. 18 e.	6
Omaha, Nebr	23	17	9	24	n. 68 w.	16
Sioux City, Iowa†	9	13	6	10	s. 45 w.	6
Pierre, S. Dak	17	21	18	21	s. 37 w.	5
Huron, S. Dak	20	20	17	20	w.	3
Yankton, S. Dak †	6	9	6	16	s. 73 w.	10
Northern Slope.						
Havre, Mont	9	22	9	41	s. 68 w.	34
Miles City, Mont	7	38	9	21	s. 21 w.	33
Helena, Mont	10	30	2	41	s. 63 w.	44
Rapid City, S. Dak	17	10	10	39	n. 76 w.	30
Cheyenne, Wyo	25	14	2	35	n. 72 w.	35
Lander, Wyo	9	35	14	17	s. 7 w.	26
North Platte, Nebr	17	11	9	37	n. 78 w.	29
Middle Slope.						
Denver, Colo	19	27	14	15	s. 7 w.	8
Pueblo, Colo	24	8	14	27	n. 39 w.	21
Concordia, Kans	18	19	12	23	s. 85 w.	11
Dodge City, Kans	20	14	10	29	n. 72 w.	20
Wichita, Kans	30	16	14	18	n. 16 w.	15
Oklahoma, Okla	28	18	12	18	n. 31 w.	12
Southern Slope.						
Abilene, Tex	17	24	10	24	s. 63 w.	16
Amarillo, Tex	21	26	3	16	s. 69 w.	14
Southern Plateau.						
El Paso, Tex	27	5	12	35	n. 46 w.	32
Santa Fe, N. Mex	33	13	22	10	n. 31 e.	23
Phœnix, Ariz	14	9	26	22	n. 39 e.	6
Yuma, Ariz	34	6	14	16	n. 4 w.	28
Middle Plateau.						
Carson City, Nev	22	20	22	16	n. 72 e.	6
Winnemucca, Nev	.....	.....	.....	.....	.....	.....
Salt Lake City, Utah	14	26	14	21	s. 30 w.	14
Northern Plateau.						
Baker City, Oreg	9	42	13	9	s. 7 e.	33
Idaho Falls, Idaho	40	15	2	13	n. 24 w.	27
Spokane, Wash	15	24	19	14	s. 29 e.	10
Walla Walla, Wash	4	43	6	18	s. 17 w.	41
North Pacific Coast Region.						
Fort Canby, Wash	11	14	29	13	s. 79 e.	16
Port Angeles, Wash.*	1	10	11	15	s. 24 w.	10
Seattle, Wash	9	31	22	11	s. 26 e.	25
Tacoma, Wash	11	33	12	23	s. 26 w.	25
Tatoosh Island, Wash	6	22	23	14	s. 29 e.	18
Portland, Oreg	12	27	17	21	s. 15 w.	16
Roseburg, Oreg	20	17	21	18	n. 45 e.	4
Middle Pacific Coast Region.						
Eureka, Cal	21	17	20	18	n. 27 e.	4
Redbluff, Cal	37	9	10	17	n. 14 w.	29
Sacramento, Cal	30	21	12	11	n. 6 e.	9
San Francisco, Cal	31	8	8	23	n. 33 w.	28
South Pacific Coast Region.						
Fresno, Cal	21	8	22	23	n. 4 w.	13
Los Angeles, Cal	25	10	17	24	n. 25 w.	17
San Diego, Cal	23	12	20	23	n. 15 w.	11
San Luis Obispo, Cal	38	10	4	16	n. 23 w.	30

* From observations at 8 p. m. only. † From observations at 8 a. m. only.

TABLE VIII.—*Thunderstorms and auroras, January*, 1898.

States.	No. of stations.		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	Total. No.	Total. Days.	
Alabama	52	T.										1	3		1		1				2		3	2		2	1							16	9	T.
		A.																																0	0	A.
Arizona	52	T.			1							1	1																1					4	4	T.
		A.																																0	0	A.
Arkansas	61	T.				1	2	4				3	20	11	1	6				1	5		3	12		4	2							75	14	T.
		A.																																0	0	A.
California	181	T.																	1														1	2	2	T.
		A.																																0	0	A.
Colorado	75	T.																																0	0	T.
		A.													1	1																		2	2	A.
Connecticut	20	T.																				2			5									7	2	T.
		A.																1				1												2	2	A.
Delaware	5	T.																																0	0	T.
		A.																																0	0	A.
Dist. of Columbia	4	T.																																0	0	T.
		A.																																0	0	A.
Florida	45	T.																															3	3	1	T.
		A.																																0	0	A.
Georgia	62	T.							1	1		1	7				1					2		2	1		6							22	9	T.
		A.																																0	0	A.
Idaho	30	T.																																0	0	T.
		A.																																0	0	A.
Illinois	92	T.								1	28	2	9	17							1	1		2			24							85	9	T.
		A.				1				1										1				1			2	1				1		8	7	A.
Indiana	51	T.									8	1		1								1		1		1	17							30	7	T.
		A.				2												2																4	2	A.
Indian Territory	7	T.												3																				3	1	T.
		A.																																0	0	A.
Iowa	122	T.											20																					20	1	T.
		A.																2																2	1	A.
Kansas	85	T.								1	1		12													1	6							21	5	T.
		A.																																0	0	A.
Kentucky	52	T.									12		2								3			16			12							45	5	T.
		A.																																0	0	A.
Louisiana	50	T.					1					2	1	3		2	1			3	7	4	9	9	1	2								45	13	T.
		A.																																0	0	A.
Maine	16	T.	1																						1									2	2	T.
		A.																1																1	1	A.
Maryland	35	T.																				1	1				14							16	3	T.
		A.																			1					1								2	2	A.
Massachusetts	50	T.																				3			1									4	2	T.
		A.																1																1	1	A.
Michigan	112	T.												12																				12	1	T.
		A.																		1	1				1									3	3	A.
Minnesota	69	T.																																0	0	T.
		A.						1				1						5		1							1		1					10	6	A.
Mississippi	46	T.						1				2	2	1		3	1				10	3	5	9			2		1					40	12	T.
		A.																																0	0	A.
Missouri	95	T.					1				29	9	35	13												5	17							109	7	T.
		A.																																0	0	A.
Montana	37	T.																																0	0	T.
		A.	1									1			2	2	2	5	1	1	1						1	1	1		1			20	13	A.
Nebraska	143	T.																																0	0	T.
		A.															1				1	1												3	3	A.
Nevada	48	T.																																0	0	T.
		A.					1						1	1						1						1	1							6	6	A.
New Hampshire	16	T.												1	2																			3	2	T.
		A.		1														3	1	1														6	4	A.
New Jersey	55	T.																				17		1	2									20	3	T.
		A.																																0	0	A.
New Mexico	39	T.																																0	0	T.
		A.																																0	0	A.
New York	103	T.											1	20	3	2									1								2	29	6	T.
		A.																1		4								1						6	3	A.
North Carolina	59	T.											2											2			4							8	3	T.
		A.																																0	0	A.
North Dakota	46	T.																																0	0	T.
		A.										1	1	3	1	1	1	5	5	4	1		1				2		1					27	13	A.
Ohio	135	T.												31	4									4		1	65							105	5	T.
		A.	1				1			1									1			1									1			6	6	A.
Oklahoma	23	T.											7				2									2	2							13	4	T.
		A.																																0	0	A.
Oregon	62	T.																1																1	1	T.
		A.																																0	0	A.
Pennsylvania	105	T.										1		11								2		1	3		14	2						34	7	T.
		A.																																0	0	A.
Rhode Island	1	T.																				2												2	1	T.
		A.																																0	0	A.
South Carolina	43	T.											4	1										1			3		1					10	5	T.
		A.																																0	0	A.
South Dakota	44	T.																																0	0	T.
		A.								1					1				1	1											1			5	5	A.
Tennessee	65	T.										2	12		1						7	2	2	14			12							52	8	T.
		A.																																0	0	A.
Texas	85	T.											3	2	1	2				6	2			1		1								18	8	T.
		A.																																0	0	A.
Utah	41	T.																																0	0	T.
		A.																																0	0	A.
Vermont	15	T.												1	4																			5	2	T.
		A.																													1			1	1	A.
Virginia	49	T.																									11							11	1	T.
		A.																																0	0	A.
Washington	50	T.																																0	0	T.
		A.																																0	0	A.
West Virginia	35	T.																						4			11							15	2	T.
		A.																																0	0	A.
Wisconsin	61	T.																																0	0	T.
		A.																																0	0	A.
Wyoming	14	T.																																0	0	T.
		A.																																0	0	A.
Sums	2,851	T.	1	0	1	1	4	5	1	3	78	25	141	128	17	15	6	1	1	10	37	40	23	81	15	19	223	2	3	0	0	0	6	887	....	T.
		A.	2	1	0	3	2	1	0	3	0	3	2	4	5	4	4	26	9	15	5	3	1	1	1	2	7	3	3	0	4	1	0	115	....	A.

TABLE IX.—*Average hourly sunshine (in percentages), January, 1898.*

Stations.	Instrument.	Percentages for each hour of local mean time ending with the respective hour.																Hours of sunshine.			
		A. M.								P. M.								Total.			Personal estimate.
		5	6	7	8	9	10	11	Noon	1	2	3	4	5	6	7	8	Actual.	Possible.	Percent of possible.	
																		Hours.	*Hours.*		
Albany, N. Y	T.				10	13	29	41	50	56	55	46	40	30	44			111.9	292.7	38	26
Atlanta, Ga	T.			0	23	26	28	41	44	46	45	41	38	39	37			116.9	316.2	37	37
Atlantic City, N. J	P.				35	37	47	54	52	52	51	49	48	44	43			143.2	303.8	47	40
Baltimore, Md	T.				20	37	54	66	73	75	67	65	53	45	50			171.2	303.8	56	43
Binghamton, N. Y	T.				3	9	29	46	55	55	54	50	32	12	15			106.7	295.5	36	32
Bismarck, N. Dak	P.				69	69	66	66	65	66	72	77	64	65	100			190.0	279.9	68	67
Boston, Mass	T.				33	48	53	64	64	63	62	59	55	47	31			164.5	295.5	56	48
Buffalo, N. Y	T.				3	11	22	35	45	51	44	36	20	6	0			84.1	292.7	29	19
Charleston, S. C	T.			17	28	36	52	64	66	73	60	61	54	52	42			173.2	318.5	54	51
Chattanooga, Tenn	T.			0	10	13	25	41	44	44	41	42	34	20	12			97.9	314.6	31	39
Cheyenne, Wyo	P.				59	69	76	78	73	72	71	65	68	62	71			207.8	298.4	70	55
Chicago, Ill	T.				37	39	50	59	66	63	54	45	35	30	38			142.8	295.5	48	48
Cincinnati, Ohio	T.				26	24	30	39	53	54	47	51	48	44	33			127.1	303.8	42	39
Cleveland, Ohio	T.				12	18	28	36	40	39	36	30	20	15	8			82.9	295.5	28	22
Columbus, Ohio	T.				20	20	25	34	35	28	31	26	23	25	33			81.2	301.1	27	27
Denver, Colo	P.				52	60	74	74	82	74	72	70	71	55	50			207.2	301.1	69	55
Des Moines, Iowa	T.				46	47	51	49	52	54	57	56	53	55	69			154.7	295.5	52	52
Detroit, Mich	T.				12	19	39	47	53	53	52	42	25	21	31			110.6	295.5	37	24
Dodge City, Kans	P.				48	61	60	66	71	59	61	61	52	45	44			179.3	306.5	58	55
Dubuque, Iowa	T.				34	33	40	50	56	56	57	53	45	45	46			140.2	295.5	47	50
Eastport, Me	P.				35	39	49	58	60	50	53	47	47	42	33			140.4	286.7	49	36
Erie, Pa	T.				0	6	11	25	31	31	28	22	11	9	0			53.3	295.5	18	18
Eureka, Cal	P.				33	37	46	52	49	59	57	61	55	46	41			149.4	298.4	50	40
Fresno, Cal	T.				16	35	57	65	62	66	69	69	55	46	44			168.6	309.0	55	46
Galveston, Tex	P.			27	26	35	41	45	48	52	52	47	46	42	34			139.9	326.8	43	41
Harrisburg, Pa	T.				14	24	48	63	71	68	65	58	45	29	8			148.8	301.1	49	29
Helena, Mont	P.				39	38	49	58	53	58	55	36	35	48	100			133.3	279.9	48	46
Huron, S. Dak	T.				56	55	63	70	75	82	79	77	65	51	88			197.6	289.7	68	59
Idaho Falls, Idaho	T.				47	45	64	92	97	96	85	74	54	39	56			207.4	292.7	71	42
Indianapolis, Ind	T.				23	20	24	30	38	45	41	41	35	40	46			102.2	301.1	34	31
Jacksonville, Fla																					57
Kansas City, Mo	P.				34	25	33	41	44	41	44	47	42	47	60			121.7	303.8	40	38
Key West, Fla	T.			59	65	71	77	73	78	83	82	87	77	78	83			257.4	334.2	77	69
Knoxville, Tenn	T.				23	28	45	50	51	50	48	50	43	32	36			130.8	311.8	42	43
Little Rock, Ark	T.			0	32	36	41	44	47	45	38	39	34	38	41			124.4	314.6	40	30
Los Angeles, Cal	P.			60	65	63	70	70	64	67	66	61	58	65	65			205.3	316.2	65	56
Louisville, Ky	T.																		306.5		30
Minneapolis, Minn	T.				27	28	28	35	42	46	46	37	35	38	67			105.2	286.7	37	
Nashville, Tenn	T.				30	31	42	44	50	57	53	48	44	33	27			133.9	311.8	43	38
New Orleans, La	T.			29	23	34	52	55	59	59	55	58	50	45	36			157.1	324.9	48	48
New York, N. Y	T.				21	29	40	54	56	55	57	54	47	33	41			135.6	298.4	45	40
Northfield, Vt	P.				37	40	45	42	44	53	49	50	38	29	33			125.2	289.7	43	37
Oklahoma, Okla	T.			0	45	46	56	58	64	67	65	59	49	37	36			171.0	314.6	54	50
Omaha, Nebr	P.				45	45	47	60	59	53	54	57	54	49	59			156.9	298.4	53	50
Parkersburg, W. Va	T.				10	11	13	17	25	28	28	18	15	16	10			56.2	303.8	18	19
Philadelphia, Pa	T.				19	25	44	48	48	49	45	43	41	36	33			121.5	301.1	40	34
Phœnix, Ariz	P.			30	40	50	60	63	65	71	71	73	64	61	53			196.2	318.5	62	57
Pittsburg, Pa	T.				0	2	15	35	34	34	35	32	17	11	29			66.6	298.4	22	18
Portland, Me	T.				24	32	48	57	66	68	69	65	47	32	33			152.4	289.7	53	49
Portland, Oreg	T.				9	12	21	36	45	47	41	35	25	22	0			87.2	283.1	31	29
Raleigh, N. C	T.				20	34	52	58	64	63	61	57	55	38	39			156.9	311.8	50	43
Rochester, N. Y	T.				0	1	12	19	27	23	30	24	16	11	22			50.1	292.7	17	16
St. Louis, Mo	T.				36	41	55	57	62	66	66	56	51	38	40			161.7	303.8	53	42
St. Paul, Minn	P.				36	38	49	48	50	53	57	57	54	51	67			144.0	286.7	50	50
Salt Lake City, Utah	P.				40	39	47	53	56	51	56	56	40	36	53			142.8	298.4	48	49
San Diego, Cal	P.			74	66	64	73	75	70	73	72	74	71	60	60			221.5	318.5	70	63
San Francisco, Cal	T.				28	52	75	79	83	81	84	75	58	48	46			204.9	306.5	67	44
Santa Fe, N. Mex	P.				41	57	58	60	57	57	61	58	56	45	37			170.7	311.8	55	55
Savannah, Ga	P.			50	43	58	60	63	65	65	69	62	58	52	46			189.2	320.5	59	58
Seattle, Wash	T.				4	6	11	26	35	37	30	26	14	13				60.2	276.2	22	28
Spokane, Wash	T.				8	7	9	19	23	26	22	21	22	24				51.3	276.2	19	18
Tacoma, Wash	T.				9	9	9	25	37	38	33	26	18	19	0			65.8	279.9	24	20
Tampa, Fla	T.			65	68	58	70	83	81	81	81	75	62	68	67			237.9	328.7	72	68
Vicksburg, Miss	T.			25	17	30	38	49	61	62	58	49	46	32	13			138.4	320.5	43	44
Washington, D. C	P.				35	44	45	55	45	48	54	49	47	46	53			143.3	303.8	47	49
Wilmington, N. C	T.			10	35	64	73	74	75	72	77	74	70	61	44			212.3	316.2	67	64
Yankton, S. Dak	T.				50	55	66	81	87	86	80	72	68	58	78			209.0	292.7	71	67

TABLE X.—*Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.75 in 1 hour during January, 1898, at all stations furnished with self-registering gauges.*

Stations.	Date.	Total duration.		Total am't of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time as indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
	1	2	3	4	5	6	7														
Albany, N. Y.*																					
Atlanta, Ga.	20			0.63														0.47			
Atlantic City, N. J †																					
Baltimore, Md †																					
Binghamton, N. Y.	22-23			0.62														0.13			
Bismarck, N. Dak.*																					
Boston, Mass.	22-23			0.93														0.18			
Buffalo, N. Y.	20			0.78														0.28			
Cairo, Ill.	19-20			2.26														0.41			
Charleston, S. C.	16			0.15														0.08			
Chicago, Ill.	20			1.13														0.39			
Cincinnati, Ohio	19-20			2.34														0.48			
Cleveland, Ohio	19-20			0.87														0.27			
Columbia, Mo	11-12			0.49														0.36			
Columbus, Ohio	19-20			1.22														0.27			
Denver, Colo	20-21			0.15														0.02			
Des Moines, Iowa	24-25			0.35														0.13			
Detroit, Mich	19-20			0.92														0.22			
Dodge City, Kans.*																					
Duluth, Minn.*																					
Eastport, Me.	8			0.94														0.25			
Erie, Pa.	19-20			0.74														0.18			
Fresno, Cal.	6-7			0.17														0.06			
Galveston, Tex.	17-18	11.30 p.m.	2.57 p.m.	2.63	12.23 p.m.	1.16 p.m.	1.44	0.08	0.16	0.24	0.31	0.43	0.59	0.76	0.96	1.06	1.11	1.17			
Harrisburg, Pa.	22-23			0.85														0.15			
Hatteras, N. C.	6			0.32														0.27			
Huron, S. Dak.*																					
Idaho Falls, Idaho*																					
Indianapolis, Ind.	22-23			0.93														0.22			
Jacksonville, Fla.	30-31			0.20														0.07			
Jupiter, Fla	9			0.13														0.09			
Kansas City, Mo.	11-12	6.50 p.m.	7.35 a.m.	1.50	7.40 p.m.	8.25 p.m.	0.50	0.13	0.34	0.51	0.61	0.71	0.75	0.79							
Key West, Fla	31			0.20											0.15						
Knoxville, Tenn	11			2.57														0.43			
Lincoln, Nebr.*																					
Little Rock, Ark	11			0.60						0.40											
Los Angeles, Cal.																					
Louisville, Ky.	22			2.55														0.33			
Memphis, Tenn.	21-22			2.65														0.73			
Milwaukee, Wis.	20			0.94														0.22			
Montgomery, Ala.	10			0.29														0.18			
Nantucket, Mass.	20			0.70														0.25			
Nashville, Tenn.	11	4.45 a.m.	5.10 p.m.	2.43	6.15 a.m.	7.00 a.m.	0.06	0.05	0.11	0.16	0.21	0.29	0.43	0.54	0.60	0.65					
New Orleans, La.	24			0.19														0.14			
New York, N. Y.	22-23			1.39														0.30			
Norfolk, Va.	11-12			0.43														0.23			
Northfield, Vt.*																					
Oklahoma, Okla.																					
Omaha, Nebr.	24-25			0.23														0.08			
Parkersburg, W. Va.	22-23			1.66														0.25			
Philadelphia, Pa.	22-23			1.22														0.25			
Pittsburg, Pa.*	22-23			0.67																	
Portland, Me.	20			1.26														0.34			
Portland, Oreg.	18			0.68														0.14			
Raleigh, N. C.	25			0.74														0.16			
Rochester, N. Y.	22-23			0.61														0.20			
St Louis, Mo.	11-12			0.54					0.36												
St. Paul, Minn.	18-19			0.03														0.02			
Salt Lake City, Utah*																					
San Diego, Cal.	12			0.40														0.17			
San Francisco, Cal.	11			0.33														0.12			
Savannah, Ga.	16			0.14														0.03			
Seattle, Wash.	7-8			0.25														0.11			
Spokane, Wash.*																					
Tampa, Fla.	31			0.16														0.15			
Vicksburg, Miss.	13-14			0.97														0.49			
Washington, D. C.	14-15			1.03														0.17			
Wilmington, N. C.	25			0.87														0.16			
Yankton, S. Dak.*																					

* Record incomplete on account of snow. † Self-register out of order.

TABLE XI.—*Excessive precipitation, by stations, for January*, 1898.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Arkansas.	*Inches.*	*Inches.*		*Ins.*	*h.m.*	
Arkansas City		2.80	21-22			
Blanchard Springs		2.60	13-14			
Do		3.30	18-19			
Camden	10.85					
Elon		2.61	19			
Fulton		2.73	14-15			
Helena	14.22	4.75	21-22			
Lonoke	12.00	3.00	11			
Do		2.75	14			
Luna Landing		2.95	19			
Magnolia		2.55	18			
Marvell	12.18	2.75	14			
Do		2.88	19			
Do		3.00	22			
Monticello		2.52	13-14			
Moore		2.70	14			
Do		3.00	22			
New Gascony	12.67	2.50	18-19			
Osceola	12.38	2.68	11			
Do		2.90	14-15			
Do		3.09	19-20			
Pinebluff	14.50	3.60	11			
Do		3.05	14			
Do		3.01	19			
Prescott	10.20					
Rison	11.30					
Stuttgart	13.10	3.01	19			
Warren	10.97					
Wiggs		2.56	11			
Indiana.						
Evansville		2.54	19-20			
Madison		2.90	20-21			
Marengo		2.65	19-20			
Rockport		2.71	19			
Vevay	11.60	3.50	9-10			
Do		2.60	19-20			
Kentucky.						
Alpha	10.60					
Bardstown		2.65	15			
Do		2.73	22-23			
Blandville		2.73	19			
Bowling Green	11.99	3.02	14-15			
Edmanton	10.53	3.26	22			
Ensor		2.60	19-20			
Falmouth	10.20	3.30	8-9			
Fords Ferry		2.80	19			
Henderson		3.05	19			
Hopkinsville	11.73	3.12	22			
Leitchfield	10.73	3.01	22			
Lexington		2.76	22			
Louisville		2.55	22			
Mount Hermon		3.00	22			
Owensboro		2.67	19-20			
Owenton	11.70	2.96	9-10			
Do		2.78	21-22			
Paducah		3.00	19-20			
Pleasure Ridge Park		2.79	22			
Richmond		2.60	22			
Russellville		2.70	22			
St. John		2.65	22			
Shelby City		2.80	22			
Shelbyville		2.50	22			
Louisiana.						
Abbeville		4.65	18			
Alexandria		3.21	18-19			
Bastrop		3.61	18-19			
Cheneyville		3.70	19			
Clinton	10.32	4.69	18-19			
Farmerville		3.60	18-19			
Franklin		2.67	19			
Grand Coteau		4.25	18-19			
Jeanerette		4.08	18-19			
Jennings		4.99	18-19			
Lake Charles		4.50	18-19			
Melville		4.60	18-19			
Monroe		3.93	18-19			
New Iberia		5.50	18-19			
Oakridge	12.25	4.70	18-19			
Rayne		6.14	18-19			
Shellbeach		3.40	18-19			
Massachusetts.						
Framingham		2.65	31			

TABLE XI.—*Excessive precipitation*—Continued.

Stations.	Monthly rainfall 10 inches, or more.	Rainfall 2.50 inches, or more, in 24 hours.		Rainfall of 1 inch, or more, in one hour.		
		Amt.	Day.	Amt.	Time.	Day.
Massachusetts—Continued.	*Inches.*	*Inches.*		*Ins.*	*h.m.*	
South Clinton		2.94	*			
Sterling		2.54	*			
Michigan.						
Omer		2.50	23			
Mississippi.						
Austin	13.58	3.92	19			
Edwards		3.38	19			
Fayette		2.50	15			
Do		2.60	18-19			
Greenville		2.91	19-20			
Greenwood	11.39	5.03	18-19			
Holly Springs	11.22	3.69	19-20			
Natchez		2.75	15			
Okolona		3.23	18-19			
Port Gibson		3.57	18-19			
University		3.25	19			
Do		3.10	22			
Water Valley	10.12	2.74	19	2.00	1 40	19
Missouri.						
Liberty		3.35	12			
New York.						
Keene Valley		3.00	20			
Ohio.						
Cedarville		3.05	22			
Cherryfork	11.69					
Portsmouth	10.03	2.62	9-10			
Oregon.						
Bay City	14.26					
Cascade Locks	10.63					
Glenora	11.71					
Government Camp	11.46					
Nehalem	11.52					
Tennessee.						
Ashwood		2.57	11-12			
Bolivar	12.01	3.70	22			
Carthage		3.46	10-11			
Clarksville	10.41	3.00	22			
Covington	11.72	4.00	11-12			
Do		3.00	22			
Dover	11.16	2.55	14-15			
Do		3.00	22			
Dyersburg	13.93	2.54	11			
Do		3.55	19-20			
Do		2.80	22			
Hohenwald	10.35	3.39	14-15			
Jackson	11.10	2.70	19-20			
Do		2.80	21-22			
Knoxville		2.61	11			
Lafayette	11.11					
Liberty		2.72	11-12			
McKenzie	14.47	2.50	19			
Do		3.62	22			
McMinnville	10.65	3.35	11-12			
Mayville		3.10	11-12			
Memphis	10.72	2.60	18-19			
Do		2.65	22			
Nashville		3.33	10-11			
New Market		2.60	11			
Palmetto		2.62	11-12			
Peryear	12.75	4.15	19-20			
Do		2.90	22			
Pope	11.02	2.92	11-12			
Do		2.67	14-15			
Rugby	10.87	2.63	19-20			
St. Joseph	10.85	2.83	14-15			
Sylvia	12.33	2.97	10-11			
Do		2.85	22			
Trenton	14.86	2.96	14-15			
Do		3.67	18-19			
Do		3.36	21-22			
Union City	12.07	3.20	19-20			
Wildersville	12.55	2.91	14-15			
Do		2.60	19-20			
Do		2.93	22			
Texas.						
Colmesneil		4.57	18			
Galveston		2.64	17-18	1.38	1 17	18
Jasper		2.80	13			
Longview		3.60	17-18			
Washington.						
Clearwater	15.62					

*January 31 to February 1.

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