SUNSHINE AND CLOUDINESS.

The distribution of sunshine is graphically shown on Chart VII, and the numerical values of average daylight cloudiness, both for individual stations and by geographical districts, appear in Table I.

The averages for the various districts, with departures from the normal, are shown in the table below:

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	5.9	+ 0.1	Missouri Valley	6.4	+ 1.3
Middle Atlantic	6.2	+ 0.8	Northern Slope	5.6	+ 1.0
South Atlantic	5.2	+ 0.5	Middle Slope	5.0	+ 1.0
Florida Peninsula	3.7	— 0.9	Southern Slope	4.6	+ 0.2
East Gulf	5.8	+ 0.6	Southern Plateau	3.5	+ 0.5
West Gulf	5.7	+ 0.4	Middle Plateau	4.8	— 0.3
Ohio Valley and Tennessee	7.5	+ 1.4	Northern Plateau	7.6	+ 0.5
Lower Lake	8.1	+ 0.5	North Pacific	8.4	+ 1.1
Upper Lake	7.7	+ 0.6	Middle Pacific	5.8	+ 0.4
North Dakota	4.8	— 0.4	South Pacific	4.4	0.0
Upper Mississippi Valley	6.8	+ 1.1			

ATMOSPHERIC ELECTRICITY.

Numerical statistics relative to auroras and thunderstorms are given in Table IV, which shows the number of stations from which meteorological reports were received, and the number of such stations reporting thunderstorms (T) and auroras (A) in each State and on each day of the month, respectively.

Thunderstorms.—Reports of 386 thunderstorms were received during the current month as against 336 in 1901 and 481 during the preceding month.

The dates on which the number of reports of thunderstorms for the whole country was most numerous were: 15th, 61; 12th, 58; 20th, 37.

Reports were most numerous from: Louisiana, 45; Missouri, 39; Arkansas, 31.

Auroras.—The evenings on which bright moonlight must have interfered with observations of faint auroras are assumed to be the four preceding and following the date of full moon, viz: 10th to 18th.

In Canada: No thunderstorms were reported. An aurora was observed at Minnedosa on the 23d.

DESCRIPTION OF TABLES AND CHARTS.

By W. B. STOCKMAN, Forecast Official, in charge of Divison of Records and Meteorological Data.

Table I gives, for about 145 Weather Bureau stations making two observations daily and for about 25 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 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 IV gives the total number of stations in each State from which meteorological reports of any kind have been received, and the number of such stations reporting thunderstorms (T) and auroras (A) on each day of the current month.

Table V 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 per hour (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 VI 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 VII gives the heights of rivers referred to zeros of gages; it is prepared by the Forecast Division.

NOTES EXPLANATORY OF THE CHARTS.

Chart I, tracks of centers of high areas, and Chart II, tracks of centers of low areas, are constructed in the same way. The roman numerals show number and chronological order of highs (Chart I) and lows (Chart II). The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart I) the highest barometric reading and (Chart II) the lowest barometric reading at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

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 pressure and resultant surface winds. The pressures have been reduced to sea level and standard gravity by the method fully described by Prof. Frank H. Bigelow on pages 13–16 of the REVIEW for January, 1902. The pressures have also been further reduced to the mean of the twenty-four hours by the application of a suitable correction, to the mean of the 8 a. m. and 8 p. m. readings, at stations taking two observations daily, and to the 8 a. m. or 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in Table 27, Volume II, Annual Report of the Chief of Weather Bureau, 1900–1901, pp. 140–164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of Professor Bigelow's Report on the Barometry of the United States and Canada, which can be found in the Annual Report of the Chief

of the Weather Bureau for 1900–1901, Volume II. The correction $t_0 - t$, temperature on the sea-level plane minus the station temperature, by Table 48 of the Barometry Report, is added to the observed surface temperature to obtain the adopted sea-level temperature. On account of excessive local abnormalities of temperature in the great California Valley, between the Coast Range and the Sierra Nevada Mountains, the stations in that valley have been ignored in drawing the lines of equal temperature.

The wind directions 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.

Chart V.—Hydrographs for seven principal rivers of the United States, prepared by the Forecast Division.

Chart VI.—Surface temperatures; maximum, minimum, and mean of these. Lines of equal monthly mean temperature in red; lines of equal maximum temperature 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.—West Indian monthly isobars, isotherms, and resultant winds, constructed as on Charts IV and VI.

Chart IX.—The total snowfall. This is based on the reports from regular and voluntary observers, and shows the depth of the snowfall during the month in inches. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given.

Chart X.—Snow on ground at end of month.

TABLE 1.—*Climatological data for Weather Bureau Stations, December, 1902.*

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.												Precipitation, in inches.			Wind.									
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	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.							26.5	− 3.5										77	5.77	+ 2.2										5.9	
Eastport	76	69	74	29.92	30.01	+ .03	22.4	− 3.1	52	22	30	−15	9	14	40	21	17	82	5.77	+ 1.8	18	11,281	nw.	54	e.	26	10	6	15	5.9	24.3
Portland, Me.	103	81	117	29.91	30.05	+ .02	23.4	− 4.0	51	22	31	−14	9	16	38	20	15	74	6.54	+ 3.0	18	8,255	nw.	40	se.	22	11	9	11	5.5	23.8
Concord	298	70	79	29.72	30.06	.00	22.0	.....	48	22	31	−12	9	13	45	....	....	....	5.87	+ 2.6	18	4,456	nw.	28	nw.	8	12	9	10	5.4	26.6
Northfield	876	16	60	29.08	30.08	+ .03	15.6	− 5.8	44	22	26	−19	9	5	54	14	10	79	3.45	+ 0.7	17	5,940	s.	40	nw.	8	8	3	20	7.1	19.5
Boston	125	115	181	29.92	30.07	+ .02	28.6	− 2.5	58	22	37	− 8	9	20	37	26	22	79	4.48	+ 1.0	16	9,258	w.	38	sw.	22	13	5	13	5.6	22.8
Nantucket	12	43	85	30.03	30.04	− .01	33.6	− 2.8	51	22	39	− 1	9	28	36	32	28	79	5.90	+ 1.7	18	13,507	w.	62	n.	5	3	8	20	7.3	20.1
Block Island	31	11	60	30.02	30.05	− .01	33.3	− 2.9	54	22	40	− 1	9	27	29	31	27	76	7.64	+ 4.0	17	17,374	nw.	73	ne.	5	8	11	12	6.1	14.5
New Haven	106	117	140	29.95	30.07	.00	28.8	− 3.4	53	22	37	− 5	9	21	35	26	21	72	6.49	+ 3.1	17	8,016	n.	38	n.	13	16	4	11	4.4	17.3
Mid. Atlantic States.							34.2	− 2.0										77	4.86	+ 1.6										6.2	
Albany	97	102	115	30.00	30.11	+ .03	23.4	− 5.2	50	22	32	−11	9	14	44	21	18	84	5.13	+ 2.4	16	5,908	nw.	34	se.	29	9	6	16	6.3	33.5
Binghamton	875	79	90	29.10	30.07	− .02	24.6	− 3.9	50	3	33	− 9	15	16	39	....	....	....	2.92	+ 0.1	16	5,332	w.	32	w.	3	4	7	20	7.5	26.6
New York	314	108	350	29.73	30.09	.00	32.2	− 2.2	54	16	38	8	9	26	22	29	24	73	6.19	+ 2.9	16	11,898	w.	56	n.	5	11	6	14	5.7	9.6
Harrisburg	374	94	104	29.70	30.12	.00	30.0	− 4.4	54	3	36	13	10	24	20	27	23	77	4.57	+ 1.5	17	5,934	nw.	33	nw.	18	6	11	14	6.6	14.0
Philadelphia	117	168	184	29.98	30.12	+ .01	33.7	− 1.8	60	22	40	17	9	27	23	31	27	77	6.63	+ 3.9	16	8,896	nw.	52	n.	5	11	7	13	5.4	6.0
Scranton	805	111	119	29.21	30.11	+ .01	27.2	.....	53	3	34	3	9	20	29	25	20	71	4.36	.....	13	6,159	sw.	32	w.	3	5	6	20	7.8	15.8
Atlantic City	52	39	48	30.04	30.11	+ .01	35.8	− 0.6	58	3	43	16	9	29	27	32	29	78	7.15	+ 3.3	16	7,480	nw.	34	nw.	5	11	10	10	5.3	1.4
Cape May	17	47	51	30.10	30.13	+ .02	36.8	− 1.1	58	3	43	16	9	31	25	34	....	....	5.81	+ 2.0	16	7,700	nw.	38	ne.	5	5	16	10	6.0	T.
Baltimore	123	69	117	29.97	30.11	− .02	34.8	− 2.7	59	21	40	18	28	29	23	31	26	73	5.66	+ 2.5	15	5,940	nw.	31	nw.	5	11	8	12	5.7	7.0
Washington	112	59	76	30.00	30.13	.00	34.4	− 1.8	60	21	41	16	28	28	23	31	27	76	5.29	+ 2.3	14	5,464	nw.	30	nw.	5	10	8	13	6.0	3.0
Cape Henry	.....	5	58	30.08	30.10	− .02	43.6	− 0.3	70	3	50	24	28	37	32	....	....	....	2.50	− 1.4	12	12,084	nw.	48	n.	1	9	10	12	6.2	T.
Lynchburg	681	83	88	29.35	30.11	− .03	38.4	− 0.9	67	3	46	19	27	30	30	34	29	76	4.03	+ 1.0	11	3,709	nw.	23	nw.	8	10	11	10	5.3	T.
Norfolk	91	102	111	30.03	30.13	.00	43.3	+ 0.5	70	3	51	20	28	36	28	39	35	76	2.42	− 1.2	12	7,575	n.	52	sw.	5	10	10	11	6.0	0.1
Richmond	144	82	90	29.97	30.13	− .01	40.1	.....	68	11	48	20	27	32	31	....	....	....	4.12	.....	14	4,149	n.	24	sw.	10	10	7	14	6.2	1.1
Wytheville	2,293	40	47	27.66	30.11	− .04	35.0	.....	58	16	43	10	27	28	27	31	29	83	2.34	.....	12	5,184	w.	25	w.	3	10	3	18	6.4	4.8
S. Atlantic States.							49.0	+ 0.2										78	3.67	+ 0.2										5.2	
Asheville	2,255	73	100	27.74	30.12	− .04	38.4	.....	67	11	47	11	27	30	37	34	31	80	2.30	.....	9	8,867	n.	38	n.	25	10	8	13	5.9	T.
Charlotte	773	68	76	29.28	30.13	− .03	42.4	− 1.2	64	11	50	16	27	35	25	37	33	74	3.42	− 0.7	11	5,032	ne.	36	sw.	5	12	7	12	5.3	T.
Hatteras	11	12	47	30.10	30.11	− .02	48.8	+ 0.6	71	3	55	27	27	43	28	46	44	85	2.92	− 2.6	11	11,428	n.	60	sw.	5	10	6	15	6.1	
Raleigh	376	93	101	29.72	30.14	− .01	42.4	− 1.5	69	3	51	17	27	34	35	37	32	73	3.15	0.0	13	5,077	ne.	30	sw.	5	11	7	13	5.8	T.
Wilmington	78	82	90	30.02	30.11	− .04	49.0	+ 0.7	73	3	59	19	27	40	33	43	38	75	3.26	+ 0.3	9	6,297	ne.	40	sw.	4	11	11	9	4.9	
Charleston	48	14	92	30.09	30.14	− .01	52.4	+ 0.9	73	13	60	23	27	45	26	48	45	81	4.23	+ 1.0	7	7,581	n.	45	sw.	4	9	15	7	5.0	
Columbia	351	114	122	29.75	30.15	− .01	47.3	− 0.6	71	16	56	18	27	39	32	41	37	74	3.60	+ 0.7	8	5,984	ne.	48	sw.	4	9	9	13	5.9	T.
Augusta	180	89	97	29.94	30.13	− .03	48.0	+ 0.3	71	13	57	19	27	39	31	42	39	78	3.43	0.0	5	4,180	nw.	30	sw.	4	15	6	10	4.6	
Savannah	65	79	89	30.06	30.13	− .02	53.6	+ 1.2	76	13	62	24	27	45	33	47	44	77	3.23	0.0	6	5,575	n.	40	sw.	4	15	7	9	4.4	
Jacksonville	43	101	129	30.06	30.11	− .03	57.1	+ 1.1	79	2	66	24	27	49	32	51	48	78	5.82	+ 3.0	5	6,787	nw.	45	sw.	4	14	9	8	4.3	
Florida Peninsula.							67.1	+ 0.9										79	1.41	− 0.7										3.7	
Jupiter	28	10	30	30.05	30.09	− .01	69.0	+ 2.3	86	1	75	39	27	63	28	62	59	77	0.71	− 2.1	3	8,019	nw.	30	s.	4	16	14	1	3.6	
Key West	22	43	50	30.05	30.07	− .01	70.4	+ 0.4	83	4	74	52	28	67	13	65	63	80	2.12	+ 0.5	7	8,504	ne.	33	nw.	4	16	8	7	4.4	
Tampa	34	60	67	30.07	30.11	− .01	61.8	− 0.1	81	1	71	29	28	52	33	55	52	79	1.39	− 0.5	3	4,747	nw.	40	s.	4	18	9	4	3.0	
East Gulf States.							49.5	− 1.7										78	5.28	+ 0.7										5.8	
Atlanta	1,174	190	216	28.87	30.13	− .03	43.0	− 2.3	67	13	50	15	27	36	23	39	35	79	4.86	+ 0.7	7	10,305	nw.	48	w.	4	9	11	11	5.5	
Macon	370	93	99	29.73	30.14	− .02	47.2	.....	71	13	56	17	27	38	31	....	....	....	2.84	.....	10	4,929	nw.	30	sw.	4	10	6	15	5.8	
Pensacola	56	79	96	30.07	30.13	− .02	53.8	− 0.7	72	2	62	24	27	46	26	....	....	....	3.59	− 0.3	9	7,660	n.	45	sw.	2	11	11	9	5.0	
Mobile	57	88	96	30.08	30.14	− .01	52.2	− 0.2	72	12	60	23	27	44	25	47	43	78	7.35	+ 2.9	10	5,859	n.	31	se.	2	12	8	11	4.9	
Montgomery	223	100	112	29.90	30.13	− .03	48.1	− 1.5	72	2	57	17	27	40	29	43	39	77	5.46	+ 0.8	7	5,361	n.	44	w.	4	9	7	15	6.0	
Meridian	375	84	93	29.72	30.13	− .03	46.8	− 3.7	72	15	56	16	27	38	33	....	....	....	5.40	+ 0.1	9	4,326	se.	28	w.	4	4	12	15	6.7	T.
Vicksburg	247	62	74	29.83	30.10	− .05	48.6	− 2.0	74	15	57	22	27	40	30	44	40	77	4.18	− 0.8	9	5,222	se.	33	nw.	29	6	8	17	6.9	T.
New Orleans	51	88	121	30.07	30.14	+ .01	54.0	− 1.5	78	15	61	28	27	47	24	49	46	79	6.09	+ 1.7	10	6,962	ne.	36	s.	2	9	10	12	5.7	
West Gulf States.							49.6	− 1.8										77	2.82	− 0.5										5.7	
Shreveport	249	77	84	29.86	30.14	+ .01	47.9	− 1.6	70	3	55	25	27	40	33	43	38	74	2.77	− 1.9	7	5,536	se.	28	w.	4	10	8	13	6.0	1.8
Fort Smith	457	79	94	29.62	30.12	− .01	39.4	− 3.4	67	10	46	19	26	32	26	36	32	77	3.26	+ 0.1	11	6,974	e.	35	e.	14	5	9	17	6.9	8.0
Little Rock	357	93	100	29.75	30.14	.00	41.7	− 3.3	66	10	48	17	27	35	28	38	34	77	5.27	+ 1.0	10	5,687	nw.	31	nw.	4	12	5	14	6.1	1.0
Corpus Christi	20	48	53	30.09	30.10	− .02	59.0	− 0.3	80	12	66	36	4	53	24	55	51	80	2.34	+ 1.0	8	6,862	n.	36	nw.	3	8	12	11	6.2	
Fort Worth	670	106	114	29.38	30.11	− .01	45.7	.....	77	11	55	23	4	36	29	....	....	....	1.05	.....	10	8,057	n.	38	sw.	10	13	8	10	4.5	
Galveston	54	106	112	30.04	30.10	− .02	56.7	− 0.4	72	12	62	34	4	51	29	53	50	83	1.93	− 2.1	10	9,267	se.	46	nw.	3	12	9	10	5.1	
Palestine	510	73	79	29.59	30.12	.00	49.2	− 2.2	73	12	57	26	4	42	31	44	40	78	1.67	− 2.1	9	5,093	s.	23	sw.	2	10	6	15	6.2	0.5
San Antonio	701	80	91	29.37	30.10	− .01	53.2	− 1.7	73	12	62	33	16	44	32	47	42	72	2.51	+ 0.6	8	5,217	se.	35	nw.	3	11	6	14	5.5	
Taylor	583	55	63	29.49	30.11	.00	50.2	.....	79	12	59	31	27	41	32	....	....	....	2.03	.....	10	6,541	nw.	30	s.	19	12	9	10	5.1	
Ohio Val. and Tenn.							35.7	− 2.5										79	4.99	+ 1.5										7.5	
Chattanooga	762	106	112	29.34	30.17	+ .01	41.6	− 2.0	68	11	49	16	27	34	24	37	32	73	3.61	− 0.7	9	5,402	nw.	41	sw.	4	10	8	13	5.9	T.
Knoxville	1,004	10	88	29.06	30.15	− .01	39.6	− 0.3	65	13	47	15	27	32	25	36	33	81	3.46	− 0.6	10	5,896	sw.	48	sw.	4	4	7	20	7.5	T.
Memphis	397	140	154	29.72	30.16	+ .01	42.2	− 1.4	66	11	48	15	27	36	28	38	34	76	8.09	+ 3.9	9	7,953	nw.	52	sw.	2	12	1	18	5.9	
Nashville	546	122	131	29.56	30.16	+ .01	40.0	− 1.7	67	2	47	12	27	33	27	36	32	78	6.58	+ 2.8	12	5,851	nw.	38	sw.	2	9	6	16	6.5	0.4
Lexington	989	75	102	29.04	30.14	.00	34.2	− 3.9	60	2	41	9	26	28	28	....	....	....	6.60	+ 3.2	17	8,667	sw.	40	s.	15	3	7	21	7.9	4.5
Louisville	525	114	136	29.55	30.16	+ .02	34.8	− 3.6	65	2	41	9	26	29	33	32	28	77	5.65	+ 1.8	12	7,373	sw.	40	s.	2	4	5	22	8.0	2.0
Evansville	431	72	82	29.65	30.14	+ .01	34.8	.....	60	11	41	6	26	29	25	....	....	....	5.04	.....	12	6,452	nw.	54	sw.	2	4	8	19	7.5	0.8
Indianapolis	822	154	164	29.20	30.11	− .01	29.7	− 3.4	53	11	36	5	26	23	25	27	25	84	4.06	+ 0.9	17	9,462	s.	48	sw.	3	5	3	23	7.6	5.0
Cincinnati	628	152	157	29.43	30.13	.00	33.0	− 3.6	62	2	40	7	31	26	33	31	28	81	5.25	+ 2.1	17	6,728	sw.	36	sw.	2	2	9	20	8.1	7.8
Columbus	824	87	100	29.20	30.11	− .01	30.7	− 2.6	55	2	37	7	31	24	25	28	26	83	3.41	+ 0.5	17	10,474	sw.	42	sw.	3	3	8	20	7.8	10.7
Pittsburg	842	116	123	29.17	30.11	.00	32.2	− 2.8	60	3	38	11	26	26	24	29	25	76	3.71	+ 0.8	16	5,512	nw.	23	nw.	3	3	7	21	8.1	10.6
Parkersburg	638	77	84	29.44	30.14	.00	34.2	− 2.4	62	21	40	13	26	28	34	31	28	82	4.45	+ 1.7	16	5,221	w.	32	nw.	24	1	3	27	9.1	2.8
Elkins	1,940	41	50	28.00	30.11	− .01	31.8	.....	59	21	40	9	31	24	38	29	26	81	5.88	.....	22	4,340	w.	28	s.	16	1	11	19	8.1	11.3
Lower Lake Region.							27.5	− 3.0										82	3.10	+ 0.2										8.1	
Buffalo	767	178	206	29.20	30.06	.00	27.6	− 2.2	51	3	33	6	9	22	30	26	22	76	3.57	+ 0.2	25	15,438	w.	65	w.	3	0	3	28	9.3	24.7
Oswego	335	76	91	29.68	30.07	+ .01	24.3	− 5.1	48	3	31	−12	9	18	33	23	21	86	4.73	+ 1.3	19	10,334	se.	35	nw.	3	2	6	23	8.2	31.4
Rochester	523	81	90	29.48	30.07	+ .01	26.6	− 2.0	53	3	33	6	15	21	29	25	22	83	3.46	+ 0.6	17	8,096	sw.	36	sw.	3	2	4	25	8.7	27.7
Syracuse	597	97	113	29.39	30.05	− .02	23.8	.....	52	2	31	−11	9	17	28	....	....	....	3.68	.....	19	10,068	sw.	58	s.	16	2	11	18	7.6	30.9
Erie	713	92	102	29.27	30.06	− .01	28.8	− 3.6	54	3	34	10	25	24	18	27	24	81	1.97	− 1.2	20	11,193	sw.	49	s.	15	1	4	26	8.6	14.4
Cleveland	762	190	201	29.23	30.07	− .02	28.8	− 2.4	55	21	35	6	31	23	26	27	23	78	3.67	+ 1.0	21	13,646	sw.	50	w.	8	2	7	22	8.5	29.1
Sandusky	629	62	70	29.38	30.09	.00	29.2	− 3.3	53	21	35	8	27	24	22	....	....	....	2.40	0.0	17	7,988	sw.	31	ne.	13	6	7	18	7.1	15.5
Toledo	628	123	127	29.38	30.09	+ .01	27.4	− 3.3	49	21	34	5	27	21	24	25	23	83	2.25	− 0.1	16	9,396	sw.	36	w.	24	5	5	21	7.5	10.9
Detroit	730	153	193	29.25	30.07	.00	27.0	− 2.5	46	21	32	8	31	22	21	25	23	85	2.73	+ 0.2	16	11,055	sw.	37	ne.	13	2	8	21	7.7	13.8
Upper Lake Region.							23.4	− 1.1										82	2.02	− 0.1										7.7	
Alpena	609	63	80	29.37	30.06	+ .04	24.0	− 0.8	42	19	30	2	14	19	25	23	21	86	1.75	− 0.7	11	9,380	w.	37	se.	15	3	3	25	8.7	9.9
Escanaba	612	43	57	29.37	30.06	+ .03	22.8	+ 1.4	40	1	29	− 2	9	17	23	22	19	84	1.38	− 0.6	11	7,275	nw.	36	n.	3	8	3	20	7.0	9.0
Grand Haven	632	54	92	29.34	30.06	+ .01	28.1	− 1.5	46	1	33	10	14	24	21	26	24	85	2.60	0.0	14	11,370	sw.	39	sw.	29	2	5	24	8.8	14.8
Houghton	668	66	74	29.31	30.06	+ .04	21.6	.....	44	18	27	− 2	12	16	28	....	....	....	4.60	.....	20	5,494	nw.	27	n.	24	3	6	22	8.0	37.7
Marquette	734	79	116	29.23	30.06	+ .04	23.2	+ 0.4	42	18	28	4	9	18	21	21	16	74	3.79	+ 1.3	19	9,160	nw.	38	nw.	24	2	8	21	8.2	43.3
Port Huron	638	70	120	29.37	30.08	+ .02	25.9	− 1.9	47	21	31	5	14	20	23	24	21	84	1.43	− 0.9	12	10,851	sw.	40	ne.	13	5	5	21	7.9	8.3
Sault Ste. Marie	614	40	61	29.33	30.03	+ .03	19.6	− 3.0	42	19	26	− 5	26	13	31	18	14	78	1.71	− 0.4	15	7,361	e.	36	nw.	10	2	5	24	8.2	15.8
Chicago	823	241	274	29.18	30.10	+ .02	26.5	− 2.8	50	1	32	− 1	8	21	26	25	23	86	1.90	− 0.4	14	15,476	w.	58	ne.	2	7	8	16	7.0	5.3
Milwaukee	681	124	142	29.32	30.10	+ .04	25.8	+ 0.2	44	1	31	− 2	8	20	25	24	21	83	1.82	− 0.2	11	10,358	w.	43	ne.	2	6	4	21	7.5	8.6
Green Bay	617	49	57	29.39	30.08	+ .04	22.2	− 1.6	42	1	28	− 7	9	16	29	20	16	77	1.78	− 0.2	15	8,675	sw.	46	n.	2	3	7	21	8.2	13.6
Duluth	702	95	116	29.30	30.12	+ .07	16.4	− 1.4	37	18	24	−17	26	9	37	15	12	81	2.03	+ 0.7	16	8,932	sw.	56	nw.	24	10	10	11	5.6	18.8
North Dakota.							8.0	− 5.2										79	0.60	− 0.1										4.8	
Moorhead	935	54	60	29.10	30.18	+ .10	9.6	− 2.8	36	17	18	−23	26	1	31	8	7	91	1.02	+ 0.3	8	8,127	nw.	38	se.	23	14	6	11	5.1	8.8
Bismarck	1,674	16	29	28.30	30.20	+ .12	10.0	− 4.7	45	31	20	−24	25	0	43	7	1	68	0.10	− 0.6	2	7,061	nw.	52	nw.	23	15	7	9	4.8	1.0

TABLE I.—*Climatological data for Weather Bureau Stations, December, 1902*—Continued.

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.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean 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.					
North Dak.—Cont'd.																															
Williston	1,885	14	44	28.03	30.14	+ .08	4.3	— 8.7	35	31	15	-28	12	— 7	38	3	—1	78	0.68	0.0	10	6,108	n.	40	nw.	23	13	8	10	4.6	8.9
Upper Miss. Valley.							25.0	+ 3.4										82	2.72	+ 0.7										6.8	
Minneapolis	.....	99	208	.....	.....	.....	15.6	— 4.5	39	1	23	—20	26	8	25	.....	.....	.....	2.61	+ 1.1	12	9,047	nw.	42	n.	2	5	10	16	....	24.0
St. Paul	837	102	122	29.17	30.12	+ .04	15.9	— 2.9	38	1	23	—17	26	9	28	15	12	84	2.48	+ 1.2	12	5,894	nw.	30	nw.	24	7	6	18	7.0	17.4
La Crosse	714	71	87	29.32	30.13	+ .05	19.8	— 3.8	44	31	27	—10	8	13	29	.....	.....	.....	2.03	+ 0.6	12	6,139	s.	27	ne.	2	4	12	15	7.1	13.0
Davenport	606	71	79	29.43	30.10	.00	24.2	— 3.6	49	1	30	— 7	8	18	30	22	19	84	1.88	+ 0.2	9	6,394	w.	32	w.	24	9	3	19	6.9	5.9
Des Moines	861	84	88	29.18	30.16	+ .05	22.4	— 4.4	50	1	29	— 7	26	15	32	20	18	85	1.77	+ 0.3	10	6,740	sw.	28	nw.	24	4	10	17	7.4	15.9
Dubuque	698	100	117	29.33	30.12	+ .02	21.9	— 4.0	44	1	28	— 6	8	16	26	19	15	79	2.24	+ 0.4	12	5,359	nw.	25	nw.	24	9	3	19	7.3	12.1
Keokuk	614	63	78	29.43	30.12	.00	27.0	— 2.8	56	1	33	— 2	26	21	26	24	21	83	2.21	+ 0.2	9	6,452	sw.	32	nw.	24	8	6	17	6.6	6.1
Cairo	356	87	93	29.76	30.16	+ .01	37.0	— 2.2	64	11	43	8	26	30	25	34	31	82	6.95	+ 3.6	12	7,556	nw.	42	sw.	2	6	9	16	6.6	0.2
Springfield, Ill.	644	82	93	29.41	30.12	.00	28.6	— 4.2	54	1	34	0	26	23	31	26	24	83	2.23	— 0.5	14	7,986	sw.	33	nw.	24	8	4	19	6.7	2.7
Hannibal	534	75	110	29.52	30.12	.00	28.7	— 3.2	56	1	35	— 1	26	22	27	.....	.....	.....	1.76	+ 0.1	11	7,560	n.	31	ne.	14	9	5	17	6.4	5.2
St. Louis	567	111	210	29.50	30.12	— .01	34.0	— 1.6	56	1	40	5	26	28	24	31	26	76	3.81	+ 1.0	14	8,543	s.	38	sw.	2	11	4	16	6.4	1.7
Missouri Valley.							32.1	— 6.5										82	2.16	+ 1.1										6.4	
Columbia	784	11	84	29.25	30.11	— .01	30.0	— 4.8	57	1	36	0	26	24	27	.....	.....	.....	2.20	+ 0.4	13	6,868	sw.	32	nw.	24	11	2	18	6.4	0.5
Kansas City	963	78	95	29.08	30.16	+ .04	29.0	— 2.9	56	1	36	0	26	22	23	27	24	82	1.89	+ 0.4	7	5,647	nw.	28	nw.	24	9	4	18	6.3	4.4
Springfield, Mo	1,324	98	104	28.67	30.12	— .01	32.9	— 5.7	60	11	40	2	26	26	24	31	29	87	3.34	+ 0.7	11	8,385	nw.	27	w.	15	11	3	17	6.3	3.9
Topeka	.....	81	89	.....	.....	.....	27.9	— 6.9	58	1	36	0	26	20	30	.....	.....	.....	1.26	+ 0.3	9	6,862	s.	31	sw.	1	8	4	19	6.6	6.0
Lincoln	1,189	75	84	28.80	30.13	+ .01	22.0	— 8.4	52	1	36	— 7	26	15	28	20	17	82	1.96	+ 1.2	11	8,183	nw.	36	nw.	3	10	3	18	6.3	13.6
Omaha	1,105	115	121	28.90	30.14	+ .03	21.5	— 5.2	50	1	29	— 8	26	14	31	19	17	85	2.72	+ 1.7	11	6,906	n.	31	nw.	24	6	9	16	7.0	14.1
Valentine	2,598	47	54	27.26	30.10	.00	18.6	— 8.6	52	1	28	— 7	25	9	36	16	14	86	1.28	+ 0.9	11	8,348	nw.	39	nw.	23	10	10	11	5.4	12.8
Sioux City	1,135	96	164	28.86	30.14	+ .02	17.7	— 6.4	46	1	25	—15	26	11	26	.....	.....	.....	1.43	+ 0.6	9	9,364	nw.	50	nw.	24	9	5	17	6.5	18.2
Pierre	1,572	43	50	28.40	30.16	+ .06	15.4	— 9.3	44	9	22	—14	26	9	34	13	9	77	2.21	+ 1.8	8	5,738	e.	36	se.	27	9	10	12	5.7	23.1
Huron	1,306	56	67	28.69	30.16	+ .06	11.0	— 8.2	41	1	20	—26	26	2	36	10	6	78	2.12	+ 1.5	9	9,139	se.	51	se.	27	10	7	14	6.0	14.7
Yankton	1,233	42	49	28.77	30.16	+ .05	17.4	— 5.1	52	1	26	—20	26	8	35	.....	.....	.....	3.32	+ 2.5	10	5,661	nw.	30	nw.	23	4	8	19	7.4	21.4
Northern Slope.							20.6	— 3.9										80	0.73	+ 0.2										5.6	
Havre	2,505	46	53	27.34	30.12	+ .07	9.6	—11.0	41	30	18	—24	11	1	37	9	7	87	0.52	— 0.1	6	7,043	ne.	48	sw.	30	8	6	17	6.4	5.2
Miles City	2,371	42	50	27.48	30.10	.00	16.0	— 3.3	54	1	26	— 6	7	6	36	14	12	94	0.22	— 0.1	7	3,432	s.	27	nw.	1	15	12	4	3.6	2.2
Helena	4,110	88	94	25.77	30.12	— .01	22.1	— 3.2	58	9	30	— 6	7	14	40	20	16	77	0.75	— 0.2	7	3,944	sw.	34	sw.	9	4	15	12	6.5	7.9
Kalispell	2,965	45	51	26.91	30.07	.00	24.8	.....	40	1	31	6	7	19	24	24	22	87	2.24	.....	17	2,807	w.	27	sw.	23	1	4	26	9.0	19.8
Rapid City	3,234	46	50	26.57	30.08	— .01	23.4	— 6.8	62	9	33	— 3	7	13	48	20	16	77	0.80	+ 0.6	7	5,939	w.	35	nw.	28	12	5	14	5.5	8.0
Cheyenne	6,088	56	64	23.92	30.06	— .03	28.6	+ 0.1	56	26	39	5	16	19	37	23	16	62	1.79	+ 1.5	9	9,645	nw.	52	w.	27	14	7	10	4.7	19.3
Lander	5,372	26	36	24.60	30.16	+ .01	22.6	+ 1.8	53	10	36	— 8	3	10	41	17	13	73	0.25	— 0.5	1	2,332	ne.	30	e.	27	19	11	1	3.4	2.5
North Platte	2,821	43	52	27.09	30.15	+ .05	22.2	— 4.9	59	1	31	— 1	16	13	36	19	16	82	0.78	+ 0.2	8	5,932	w.	30	nw.	2	10	10	11	5.8	9.0
Middle Slope.							30.8	— 4.0										75	0.75	— 0.2										5.0	
Denver	5,291	79	151	24.67	30.06	— .02	33.2	+ 1.2	65	8	45	8	15	22	44	25	17	59	0.59	— 0.1	5	6,412	s.	45	nw.	2	14	10	7	4.2	11.5
Pueblo	4,685	80	86	25.25	30.06	— .02	32.2	— 1.5	71	9	46	0	16	18	48	25	17	58	0.52	0.0	3	4,980	nw.	40	w.	27	15	12	4	4.0	5.2
Concordia	1,398	42	47	28.61	30.14	+ .03	25.0	— 8.0	57	1	32	0	26	18	29	22	19	83	0.75	+ 0.2	7	5,098	s.	24	nw.	3	9	5	17	6.4	7.2
Dodge	2,509	44	54	27.44	30.14	+ .04	27.6	— 5.0	61	1	38	— 5	17	18	35	23	20	84	0.28	— 0.4	2	7,543	w.	35	s.	1	15	6	10	4.2	4.5
Wichita	1,358	78	85	28.66	30.14	+ .03	30.6	— 7.3	62	10	39	7	26	22	36	28	25	85	0.69	— 0.3	7	6,736	ne.	29	n.	3	11	7	13	5.5	3.1
Oklahoma	1,214	79	86	28.80	30.12	+ .01	36.4	— 3.7	70	10	44	12	4	28	31	32	29	80	1.68	— 0.4	8	8,351	n.	38	sw.	10	10	10	11	5.6	1.8
Southern Slope.							40.6	— 1.2										72	0.47	— 0.8										4.6	
Abilene	1,738	45	54	28.26	30.11	.00	44.9	— 2.6	73	6	54	22	4	35	30	38	33	72	0.39	— 1.1	5	6,507	nw.	30	w.	2	11	12	8	5.1	0.1
Amarillo	3,676	43	52	26.24	30.06	— .03	36.4	+ 0.1	73	9	48	12	5	25	46	29	24	73	0.55	— 0.4	5	9,680	sw.	42	n.	3	18	8	5	4.1	5.5
Southern Plateau.							42.1	— 0.4										52	0.86	— 0.4										3.5	
El Paso	3,762	10	110	26.22	30.05	+ .02	46.4	+ 0.3	71	8	58	27	4	35	37	37	29	58	0.78	+ 0.2	6	7,519	nw.	49	nw.	2	17	10	4	3.5	T.
Santa Fe	7,013	47	50	23.22	30.11	+ .05	31.2	+ 0.4	57	9	40	9	29	22	32	24	16	56	0.78	— 0.1	6	5,394	n.	35	nw.	4	23	4	4	2.6	5.2
Flagstaff	6,907	12	25	23.34	30.09	+ .03	27.8	— 2.7	58	24	42	—12	15	14	50	22	.....	.....	1.74	— 1.3	6	.....	ne.	....	.....	....	16	11	4	3.8	16.9
Phoenix	1,108	50	56	28.87	30.05	+ .01	51.8	— 0.8	78	26	64	32	4	40	36	43	35	59	1.06	+ 0.2	2	2,339	w.	29	n.	2	18	9	4	3.7	
Yuma	141	16	50	29.89	30.04	— .01	55.0	— 0.9	75	8	66	33	2	44	34	44	32	46	0.78	+ 0.3	2	4,508	n.	33	n.	3	23	3	5	2.1	
Independence	3,910	51	58	26.04	30.09	— .03	40.4	+ 1.1	70	26	51	22	19	30	40	32	18	43	0.04	— 2.0	1	4,241	nw.	32	sw.	26	13	11	7	5.1	T.
Middle Plateau.							31.8	+ 0.6										68	0.58	— 0.8										4.8	
Carson City	4,720	82	92	25.30	30.09	— .06	36.8	+ 2.6	67	24	48	11	29	26	42	31	24	63	0.45	— 1.7	4	4,967	s.	44	sw.	9	12	13	6	4.3	T.
Winnemucca	4,344	59	70	25.64	30.11	— .07	32.8	+ 1.7	62	25	45	2	30	21	38	29	24	71	0.08	— 1.2	4	5,907	ne.	52	w.	4	13	7	11	5.4	0.1
Modena	5,479	10	38	24.64	30.14	+ .02	29.6	.....	56	8	40	2	21	19	34	24	19	70	0.29	.....	5	5,851	w.	28	ne.	14	14	11	6	4.1	4.0
Salt Lake City	4,366	105	110	25.68	30.15	.00	33.5	+ 0.7	58	9	40	15	3	27	25	29	23	65	1.31	— 0.3	9	3,468	se.	38	n.	1	10	8	13	5.9	9.5
Grand Junction	4,608	43	51	25.48	30.28	+ .18	24.2	— 2.6	51	8	34	0	22	14	29	20	14	69	0.50	+ 0.1	4	2,650	e.	17	nw.	2	12	12	7	4.4	5.0
Northern Plateau.							32.7	+ 0.4										82	1.84	— 0.1										7.6	
Baker City	3,471	53	58	26.46	30.13	— .03	28.8	+ 0.3	49	25	35	6	17	23	18	26	23	79	2.43	+ 0.7	15	4,220	se.	22	se.	26	6	3	22	7.4	19.4
Boise	2,739	61	68	27.25	30.19	— .01	35.4	+ 2.2	59	9	42	17	17	28	24	31	27	77	1.01	— 0.9	11	3,054	se.	29	sw.	1	7	9	15	7.0	3.8
Lewiston	757	52	61	29.25	30.08	— .05	36.9	— 0.5	51	4	42	23	19	32	16	.....	.....	.....	1.70	.....	12	2,763	e.	26	w.	1	2	7	22	8.2	5.9
Pocatello	4,482	46	54	25.52	30.17	— .02	29.8	+ 3.8	53	26	37	7	30	22	25	27	23	74	0.98	— 0.6	8	7,588	e.	38	sw.	27	7	14	10	5.7	8.4
Spokane	1,943	101	110	27.98	30.09	+ .01	30.9	— 0.4	46	26	35	18	16	27	13	29	28	87	2.31	— 0.2	16	4,268	s.	33	sw.	1	0	3	28	9.2	14.7
Walla Walla	1,000	65	73	29.00	30.11	— .01	34.4	— 3.3	58	26	39	22	21	30	23	33	31	91	2.45	+ 0.3	15	4,015	s.	32	s.	3	3	4	24	7.9	5.7
N. Pac. Coast Reg.							41.8	— 0.3										88	11.09	+ 2.3										8.4	
North Head	211	11	56	29.72	29.95	— .08	44.2	+ 0.4	55	24	48	34	27	40	16	43	42	93	10.80	+ 0.9	23	17,809	se.	74	se.	3	1	2	28	9.0	T.
Port Crescent	259	13	20	29.65	29.90	— .08	38.4	— 1.0	56	25	44	27	7	33	21	.....	.....	.....	12.99	+ 6.1	23	2,774	sw.	20	sw.	25	1	6	24	8.7	
Seattle	123	114	151	29.86	29.99	— .02	41.8	0.0	55	25	46	30	17	38	15	40	38	85	8.82	+ 2.7	23	6,454	se.	36	se.	12	2	10	19	7.9	0.4
Tacoma	218	113	120	29.76	29.99	— .02	40.6	— 0.3	60	25	45	29	18	36	22	.....	.....	.....	10.44	+ 3.0	23	5,016	sw.	30	sw.	25	0	0	31	9.8	3.6
Tatoosh	86	7	57	29.78	29.89	— .07	42.4	— 0.9	54	25	46	34	11	39	16	41	39	88	11.97	— 2.5	27	17,459	e.	76	sw.	25	3	10	18	7.3	T.
Astoria	20	57	64	29.93	29.95	— .08	43.8	— 0.2	59	25	49	33	18	38	20	.....	.....	.....	15.29	+ 4.1	24	.....	e.	....	.....	....	2	2	27	8.5	T
Portland, Oreg.	154	68	96	29.86	30.03	— .04	40.4	— 0.9	58	24	44	30	18	36	20	39	36	85	10.28	+ 2.5	21	4,311	se.	28	sw.	30	3	4	24	8.4	0.7
Roseburg	518	56	67	29.48	30.05	— .06	42.4	+ 0.4	68	8	48	24	18	37	24	40	38	87	8.10	+ 1.6	22	2,066	sw.	24	sw.	26	3	6	22	7.9	
Mid. Pac. Coast Reg.							48.7	+ 0.2										82	3.89	— 1.5										5.8	
Eureka	62	62	80	30.02	30.09	— .03	49.8	+ 2.0	66	25	55	34	28	44	19	46	43	79	8.33	+ 1.0	17	5,236	s.	28	s.	10	8	6	17	6.5	
Mount Tamalpais	2,375	11	18	27.60	30.11	— .01	44.4	.....	60	23	48	33	15	40	14	41	38	82	3.27	.....	11	13,552	sw.	56	sw.	9	11	7	13	5.7	
Red Bluff	332	50	56	29.76	30.13	— .01	45.2	— 1.5	59	7	52	29	30	39	24	43	40	83	3.39	— 1.9	13	3,747	n.	24	se.	7	7	13	11	5.7	
Sacramento	69	106	117	30.05	30.12	— .02	46.9	— 0.2	66	7	53	32	31	41	24	44	42	84	2.91	— 1.2	5	5,345	se.	27	nw.	2	10	4	17	5.9	
San Francisco	155	161	167	29.97	30.14	+ .02	50.6	— 0.8	62	7	55	39	30	46	13	48	45	81	2.32	— 2.7	11	4,442	n.	28	s.	10	9	10	12	5.4	
Point Reyes Light	490	7	30	29.54	30.06	.....	51.2	+ 1.3	59	24	55	40	29	47	16	.....	.....	.....	2.48	— 2.9	11	12,225	se.	58	nw.	13	10	5	16	5.9	
S. Pac. Coast Reg.							52.8	+ 0.1										72	2.02	— 1.0										4.4	
Fresno	330	67	70	29.76	30.13	.00	46.9	+ 0.6	72	25	55	29	29	39	31	43	40	80	0.54	— 1.0	3	2,626	e.	14	s.	11	10	7	14	5.9	
Los Angeles	338	116	123	29.69	30.06	— .01	56.0	+ 0.6	80	8	66	39	31	46	29	48	41	67	2.50	— 1.5	6	3,815	ne.	30	nw.	13	13	13	5	3.9	
San Diego	87	94	102	29.96	30.06	— .01	55.8	0.0	74	8	63	40	14	49	22	49	44	72	3.58	+ 1.4	7	3,796	nw.	23	nw.	13	21	5	5	3.3	
San Luis Obispo	201	46	48	29.90	30.13	+ .02	52.6	— 0.8	74	8	63	32	15	42	35	46	40	69	1.48	— 3.0	5	3,361	n.	21	n.	28	15	8	8	4.4	
West Indies.																															
Basseterre	29	41	54	29.92	29.95	— .01	78.0	.....	86	24	83	68	21	73	15	73	70	77	3.30	.....	20	5,605	e.	29	se.	18	8	17	6	4.9	
Bridgetown	30	57	65	29.90	29.93	+ .01	78.6	+ 1.9	86	14	84	70	8	73	16	74	72	80	4.76	+ 1.7	19	5,280	e.	22	ne.	16	12	10	9	5.1	
Cienfuegos	52	62	67	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Grand Turk	11	6	20	29.97	29.98	— .03	77.2	.....	87	1	82	68	21	72	16	.....	.....	.....	6.30	.....	21	.....	e.	....	.....	....	9	12	10	5.5	
Havana	57	87	105	29.98	30.04	.00	72.6	+ 1.2	85	12	78	56	28	68	17	67	64	78	0.58	— 1.6	7	9,924	e.	41	e.	31	11	13	7	4.9	
Kingston	286	38	52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Puerto Principe	352	55	62	29.65	30.01	+ .03	72.8	.....	90	5	81	54	25	64	25	68	67	92	2.72	.....	12	5,072	ne.	28	e.	10	13	11	7	4.8	
San Juan	82	48	90	29.88	29.95	— .02	77.1	.....	86	27	82	69	20	72	13	72	71	86	7.16	+ 2.9	22	6,137	se.	30	e.	16	13	8	10	5.4	
Santiago de Cuba	82	46	52	29.87	29.96	— .02	76.0	.....	89	5	84	64	22	68	21	69	68	83	1.28	.....	8	5,552	n.	24	nw.	9	17	9	5	4.2	
Santo Domingo †	57	37	44	29.92	29.98	+ .01	76.3	.....	87	11	84	65	20	69	18	71	70	88	1.07	.....	11	3,036	n.	15	e.	10	5	15	2	4.7	

NOTE.—The data at stations having no departures are not used in computing the district averages. • More than one date. † Record for first 22 days of month.

TABLE II.—*Climatological record of voluntary and other cooperating observers, December, 1902.*

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
	°	°	°	Ins.	Ins.
Alabama.					
Ashville	66	14	43.4	6.12	
Benton				6.88	
Bermuda	78	18	48.6	8.05	
Birmingham	68	13	45.7	5.44	
Bridgeport				4.64	
Burkeville				7.05	
Calera				7.04	
Camphill	70[g]	22[g]	46.2[g]	4.80	
Citronelle	74	20	52.2	7.91	
Clanton	69	14	43.6	7.67	
Cordova	72	13	44.0	5.30	
Daphne	76	18	52.8	6.64	
Decatur	72[c]	14[c]	45.0[c]	4.80	
Demopolis				5.38	
Dothan	74	17	52.0	2.99	
Eufaula	73	17	48.2	5.59	
Eutaw	69	16	45.8	5.60	
Evergreen	73	13	50.1	4.65	
Flomaton	77	19	50.9	5.77	
Florence *a*				6.14	
Florence *b*	69	10	42.4	5.75	3.5
Fort Deposit	71	16	47.0	8.74	
Gadsden	70	14	42.5	6.79	
Goodwater	71	13	43.0	5.76	
Greensboro	70	16	46.1	5.91	
Greenville				4.37	
Hamilton	69[d]	8[d]	42.3[d]	5.34	T.
Helena				5.82	
Highland Home	74	15	49.1	7.34	
Letohatchie				9.20	
Lock No. 4	70[f]	14[f]	45.4[f]	7.00	
Madison Station	68	13	44.0	4.05	
Maplegrove	71	14	41.5	5.91	
Marion	69	11	45.4	3.68	
Milstead				6.35	
Newbern	72	16	47.4	5.58	
Newburg	70	8	41.0	6.99	T.
Notasulga				6.38	
Oneonto	68	9	42.4	4.44	T.
Opelika	70	14	44.6	6.27	
Ozark	73	17	48.7	3.07	
Prattville	70	15	46.4	6.55	
Pushmataha	72	18	46.9	5.66	
Riverton	70	9	40.4	7.08	T.
Scottsboro	65	15	40.4	4.51	T.
Selma	70	16	45.3	5.90	
Talladega	72	13	44.6	6.15	
Tallassee				5.24	
Thomasville	71			2.50	
Tuscaloosa	70	14	43.8	4.86	
Tuskegee	73	16	48.8	6.51	
Union Springs	71	15	47.8	7.35	
Uniontown	74	15	47.4	5.75	
Valleyhead	78	12	42.4	3.83	
Verbena				6.65	
Wetumpka	72	17	48.4	5.34	
Alaska.					
Killisnoo	41	10	23.7	2.90	19.5
Orca	39	7	24.0	11.40	45.0
Sitka	46	8	27.4	5.93	28.0
Arizona.					
Allaire Ranch				2.22	
Arizona Canal Co's Dam	75	39	56.2	2.32	
Aztec	79	33	55.9	1.25	
Benson *1	78	34	51.9		T.
Bisbee	70	25	45.3	1.85	0.5
Bowie	72	21	51.0	1.25	0.5
Buckeye	74	29	49.6	1.20	
Champie Camp	84	20	48.4	0.90	
Casagrande				1.70	
Cochise *5	74	29	46.1	2.08	
Congress	76	34	51.0	1.10	
Dragoon Summit *1	63	30	41.2	2.70	T.
Dudleyville	80	20	48.3	3.01	T.
Duncan	73	15	42.6	1.62	
Fort Apache	70	10	44.2	2.18	0.3
Fort Defiance	52	−16	22.9	1.05	8.0
Fort Grant	71	20	44.5	2.00	T.
Globe	67	23	45.8	2.35	T.
Jerome	64	21	42.8	1.00	10.0
Maricopa	73	27	49.0	1.20	
Mesa	80	24	50.4	1.19	
Mesa (near)	76	29	49.8	1.13	
Mohawk Summit *1	64	40	53.5	1.15	
Mount Huachuca	70	24	47.2	3.66	3.0
Natural Bridge				2.33	
Oracle	68	27	47.6	3.21	2.0
Oro				2.22	
Phoenix	77	28	50.4	1.05	
Pima	72	19	44.7	1.55	
Pinal Ranch				4.62	
Prescott	62	9	33.6	0.12	2.2
Sentinel *1	67	40	53.0	1.04	
Showlow				2.47	7.0
Signal				0.60	
Superstition				2.53	
Taylor	69	7	33.2	0.61	
Tonto	69	20	45.2	2.20	
Arizona—Cont'd.					
Tuba	60	10	31.7	0.15	3.0
Tucson	78	26	50.3	2.15	
Vail *5	80	32	56.4	0.85	T.
Walnut Grove				0.06	
Willcox *1	57	23	43.0	1.00	T.
Yarnell				1.01	1.5
Arkansas.					
Alco	59	10	38.5	6.23	10.0
Amity	67	18	41.2	5.27	4.0
Arkadelphia		25		5.31	3.5
Arkansas City				5.36	T.
Batesville	68	9	40.6	5.67	
Beebranch	68[c]	14[c]	42.0[c]	6.00	T.
Blanchard	70	19	45.4	5.07	3.0
Brinkley	69	15	41.9	6.16	
Camden *a*				5.45	3.0
Camden *b*	70	22	44.2	5.77	3.0
Conway	66	14	40.4	6.24	2.0
Corning	62	11	37.0	6.23	
Dallas	65	18	40.2	6.28	6.5
Dardanelle				4.96	0.4
De Queen	71[c]	22[c]	43.4[c]	3.48	3.0
Dutton	71	12	37.4	5.43	10.0
Elon	75[d]	25[f]	46.3[c]	4.27	0.5
Eureka Springs	62	8	37.3	3.97	6.5
Fayetteville	62[d]	8[d]	34.2[d]	5.01	16.6
Forrest City	82	15	40.8	7.17	
Fulton				.496	
Hardy	63	9	38.8	5.26	
Helena *a*				11.88	
Jonesboro	64[d]	13[d]	39.5[d]	6.83	
Lake Village	67	21	45.2	4.17	
Lutherville	61	15	41.2	5.68	5.0
Malvern	67	17	41.6	6.55	0.5
Marianna	65	15	41.9	9.75	
Marvell	68	16	43.2	10.20	
Mossville	59	10	35.7	5.13	1.6
Mountain Home	63	9	35.9	4.46	4.0
Mount Nebo	62	12	37.0	5.01	6.0
New Gascony	70[c]	18[c]	40.6[c]	8.01	
Newport *a*				6.98	
Newport *b*	64	14	39.6	5.22	
Newport *c*	64	15	40.4	7.75	
Oregon	63	5	35.8	4.12	8.0
Ozark	65[f]	16	39.5[c]	5.42	1.5
Perry	68	18	41.2	7.46	6.0
Pinebluff	71	19	41.5	7.02	
Pocahontas	61	8	37.6	5.15	T
Pond	63	7	35.6	4.38	4.0
Prescott	70	20	43.9	5.15	3.5
Princeton	70	17	42.8	6.27	
Rison	71	14	42.2	7.86	
Rosadale	71	20	44.2	4.75	5.0
Russellville	86[d]	18[d]	39.2[d]	4.45	6.0
Silversprings	62	8	36.6	3.76	6.4
Spielerville	67	17	39.4	6.32	11.5
Stuttgart	68	15	42.4	7.69	T.
Texarkana	69	20	45.2	2.80	4.0
Warren	72	17	43.6	7.36	
Washington	68	20	44.0	4.60	2.0
Wiggs	66	13	40.7	6.11	6.5
Winchester	70[c]	19[c]	45.0[c]		
Winslow	59	9	34.6	4.32	12.0
Witts Springs	61	7	36.2	6.05	12.0
California.					
Angiola	75	22	44.6	0.54	
Azusa	78	36	54.8	3.14	
Bakersfield	76	27	47.2	0.36	
Ballast Point L. H				3.10	
Berkeley	60	36	48.2	3.69	
Bishop	69	11	38.4	0.03	
Boca *1	55	2	27.0	1.60	6.0
Bodie	54	−19	22.2	0.15	1.5
Bowman	57	18	36.0	12.99	34.3
Branscomb				15.66	0.5
Campbell	68	28	47.0	0.86	
Campo				3.04	
Cape Mendocino L. H				9.30	
Cedarville	59	7	32.6	2.09	3.0
Chico	68[d]	25[d]	46.2[d]	2.92	
Cisco *1	45	20	29.6	6.50	65.0
Cloverdale	65	30	47.2	4.45	
Colusa	59	29	45.2	1.62	
Corning *1	70	30	47.6	1.97	6.0
Coronado	79	41	57.4	3.73	
Crescent City	59	32	47.0	17.29	T.
Crescent City L. H				17.23	
Cuyamaca	63	19	36.5	3.66	2.5
Delano *1	68	31	46.8	0.22	
Delta *1	61	31	44.4	9.68	1.5
Drytown	65	28	45.1	2.59	
Dunnigan *1	65	29	47.2	1.09	
Durham *5	60	28	46.2	3.73	
East Brother L. H				2.85	
Edmanton *1	54	17	34.4	10.66	14.0
Elcajon	86	30	53.4	2.21	
Elmdale	70	27	45.8	0.59	
Elsinore	89	28	53.2	3.04	
California—Cont'd.					
Escondido	76	26	48.5	3.04	
Fallbrook	76	30	51.9	4.00	
Fernando	78	32	52.7	3.08	
Folsom *1	70	30	47.5	4.15	
Fordyce Dam				9.22	60.0
Fort Bragg				7.05	
Fort Ross	62	36	49.3	7.87	
Foster				3.01	
Georgetown	68	27	44.5	7.76	
Geyserville	64	27	45.6	2.91	
Gilroy (near)	72	25	48.0	1.25	
Glendora				2.55	
Greenville	61	13	35.2	7.49	2.5
Hanford	75	23	43.6	0.56	
Healdsburg	64	28	47.7	4.61	
Hollister	70	24	47.8	1.02	
Humboldt L. H				7.39	
Idylwild	73	12	42.0	2.00	9.0
Imperial	84	32	52.8	1.75	
Indio *1	73	28	51.5	0.80	
Iowa Hill *1	64	32	45.6	8.27	
Irvine	76	34	56.2	2.74	
Jackson	65	31	46.5	3.73	
Jolon				1.20	
Kennedy Gold Mine	62	24	40.9	4.13	
Kent	65	29	47.7	5.52	
Kernville				0.45	
King City	74	22	48.4	0.59	
Kono Tayee	57	31	44.6	2.47	
Laguna Valley				2.95	6.0
Lamesa				3.03	
Laporte *1	50	18	32.7	12.84	27.2
Legrande	70	28	46.2	1.14	
Lemoncove	75	29	48.1	1.23	
Lick Observatory	59	26	41.8	3.11	0.5
Lime Point L. H				1.44	
Livermore	72	26	48.3	0.87	
Lodi	68	27	45.8	1.52	
Los Banos	65	30	46.2	0.25	
Los Gatos	68	32	48.7	1.89	
Mammoth *1	73	34	54.2	0.61	
Manzana	65	26	42.6	1.78	6.0
Mare Island L. H				2.26	
Merced	69	29	44.4	0.36	
Mercury	66	30	51.4	5.51	
Mills College				3.73	
Milo				1.58	
Milton (near)	70	26	47.6	1.61	
Modesto *1	75	33	48.4	0.65	
Mohave *1	65	27	42.0	0.21	T.
Mokelumne Hill *3		31	42.8	3.57	
Monterio	70	30	47.2	3.00	
Monterey *1	63	31	51.4	1.17	
Mount St. Helena				8.54	
Napa	63	30	47.8	2.94	
Needles	70	30	48.8	0.55	
Nevada	72	22	43.1	7.65	
Newcastle	65	29	45.4	4.75	
Newhall *1	76	26	46.1	2.45	
Newman	67	26	45.4	0.49	
Niles	70	32	49.0	1.46	
North Bloomfield	66	22	41.6	8.05	T.
North Ontario	80	32	51.8	2.54	
North San Juan *1	64	27	46.7	9.66	
Oakland	65	34	49.0	3.14	
Ogilby *1	85	45	57.2	0.05	
Orland *1	64	32	48.5	1.62	
Palermo	61	26	45.8	4.62	
Paso Robles	66	18	42.4	0.96	
Peachland *5	61	30	48.2	5.31	
Piedras Blancas L. H				1.95	
Pigeon Point L. H				1.60	
Pilot Creek				7.94	5.0
Pine Crest	75	41	55.0	3.03	
Placerville	68	22	42.7	4.42	
Point Ano Nuevo L. H				2.25	
Point Arena L. H				5.19	
Point Bonita L. H				3.81	
Point Conception L. H				1.49	
Point Fermin L. H				4.10	
Point George L. H				8.56	
Point Hueneme L. H				2.68	
Point Lobos	59	39	50.0	2.10	
Point Loma L. H				2.78	
Point Montara L. H				5.52	
Point Pinos L. H				2.19	
Point Sur L. H				2.60	
Pomona (near)	77	31	50.4	2.39	
Porterville	75	28	47.7	0.79	
Poway	74	31	52.8	2.27	
Quincy	58	17	35.0	7.68	3.0
Ranch House				3.63	
Redding	58	28	45.4	6.24	T.
Redlands	78	33	51.5	1.50	
Reedley	75	29	47.2	0.88	
Represa	62	24	44.6	4.75	
Riovista	66	29	46.5	1.89	
Riverside	84	26	50.8	1.64	

TABLE II.—*Climatological 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.*
Roe Island L. H.				2.18	
Rohnerville *5	65	26	46.2	6.87	
Rosewood	59	23	42.6	3.50	
Sacramento	68	30	46.8	3.59	
Salinas	70	22	48.8	1.39	
Salton *1	77	32	55.1	0.98	
San Bernardino	86	25	51.4	1.94	
San Jacinto	78	29	50.0	2.12	
San Jose	71	29	50.3	0.92	
San Leandro	64	31	47.2	3.25	
San Luis L. H.				1.00	
San Mateo *1	57	32	40.0	1.90	
San Miguel *1	68	22	45.8	0.34	
Santa Ana	70	35	55.4	2.48	
Santa Barbara	74	38	54.2	2.24	
Santa Barbara L. H				2.19	
Santa Clara	72	26	49.2	1.22	
Santa Cruz	70	28	49.6	2.23	
Santa Cruz L. H.				2.12	
Santa Maria	73	32	52.3	0.79	
Santa Monica	73	39	53.6	2.97	
Santa Rosa	63	25	46.6	4.43	
Sausalito				6.25	
Shasta	58	30	44.6	7.37	
Sierra Madre	76	40	53.8	3.26	
Sonoma				2.91	
Stockton	66	31	45.1	1.26	
Storey	70	27	45.0	1.67	
Summerdale	65	15	39.9	3.95	7.0
Summit	41	12	28.1	4.60	46.0
Susanville	60	7	32.5	3.04	3.0
Tehama *1	68	34	50.4	2.79	
Tejon Ranch	75	30	49.2	2.06	
Trimmer				1.41	
Trinidad L. H				9.31	
Truckee *1	50	— 4	29.2	3.60	36.0
Tulare *b*				0.49	
Tulare *c*	80	26	48.3	0.50	
Tustin	69	40	56.2	2.82	
Ukiah	59	25	45.0	5.71	
Upperlake	65	21	42.7	3.70	
Upper Mattole *1	60	31	45.9	15.98	
Vacaville *1	63	26	47.5	2.00	
Visalia	75	27	46.0	0.71	
Volcano Springs *5	80	32	59.4	0.95	
Wasco	75	25	45.3	0.36	
Westpoint				5.02	
West Saticoy				1.10	
Wheatland	65	29	45.4	3.81	
Williams *1	64	35	50.3	1.07	
Willits	60	26	44.2	9.66	T.
Willow	64	27	45.7	0.96	
Yerba Buena L. H.				2.10	
Yuba City *5	68	30	48.6	2.77	
Zenia	58	24	41.8	11.95	3.0
Colorado.					
Alford	62	2	30.4	0.55	8.0
Ashcroft	50	—14	19.7	1.42	17.0
Blaine	74	— 5	31.8	0.61	9.2
Boulder	68	8	36.5	1.34	17.0
Boxelder				1.51	17.0
Breckenridge	45	—23	14.4	1.08	20.2
Buenavista				0.85	13.0
Canyon	67	4	37.4	0.57	6.0
Castlerock	66	— 8	31.0	1.36	13.0
Cedaredge	65	— 4	27.4	1.15	10.1
Cheesman	63	—10	30.6	0.63	9.1
Cheyenne Wells	65	— 1	27.9	0.52	7.2
Clearview	54	— 8	25.9	1.76	23.0
Colorado Springs	64	0	32.6	0.32	6.0
Collbran	49	— 9	22.4	0.86	13.8
Delta	56	—20	20.7	0.94	13.0
Durango	59	8	26.4	2.69	26.0
Fort Collins	58	—18	27.0	0.77	10.6
Fort Morgan	50	—12	21.6	0.51	7.0
Fox	62	— 8	25.5	1.55	14.5
Fruita	54	— 6	23.2	0.17	1.6
Garnett	49	—32	11.6	1.03	6.5
Gilman				2.37	33.0
Gleneyre	67	— 3	32.5	0.77	8.2
Greeley	50	—19	24.0	0.67	7.0
Grover				1.00	12.0
Gunnison	46	—35	11.8	0.78	14.3
Hamps	67	— 2	27.2	0.98	13.5
Hoehne				0.52	6.8
Holyoke (near)	58	— 4	22.8	0.35	7.0
Husted	67	—15	30.8	0.51	9.0
Lake Moraine				0.82	11.4
Lamar	74	— 3	31.4	0.40	5.5
Laporte				0.93	14.0
Las Animas	75	— 7	30.0	0.29	4.0
Lay	53	—24	18.4	0.72	11.0
Leadville (near)				0.77	13.3
Leroy	52	3	25.0	0.99	13.0
Longs Peak	52	— 2	26.2	0.78	12.5
Mancos	59	—12	27.3	1.69	20.3
Marshall Pass				2.04	32.0
Meeker	59	—19	22.2	1.15	15.4
Colorado—Cont'd.					
Montrose				0.84	12.9
Moraine	53	0	27.4	0.73	11.5
Pagoda	55	—16	22.7	2.38	25.5
Parachute	52	— 6	24.0	0.46	6.3
Rangely	53	—25	16.8	0.97	11.8
Rockyford	71	— 7	30.3	0.33	4.5
Rogers Mesa	52	— 7	22.8	0.80	7.6
Ruby				5.11	7.9
Russell	49	—28	17.0	0.91	12.0
Saguache	46	—20	15.3	0.42	7.0
Salida	61	—14	30.0	0.40	6.0
San Luis	55	—28	19.2	0.78	19.0
Santa Clara	58	— 4	30.0	1.10	19.0
Silt	56	0	25.2	0.59	4.5
Sugarloaf	60	— 2	30.8	1.34	21.0
Tulluride *e*	47	—11	21.5	4.03	
Trinidad	66	3	36.0	0.31	8.0
Twinlakes				0.30	6.2
Vilas				0.27	4.0
Wagon Wheel	49	—31	12.0	0.95	16.0
Wallet				0.87	13.0
Waterdale	67	— 2	32.0	0.83	10.0
Westcliffe	55	— 8	28.6	1.46	22.4
Whitepine	40	—19	14.7	1.78	24.2
Wray	65	— 2	26.5	0.59	6.5
Yuma				0.73	11.5
Connecticut.					
Bridgeport	53	— 4	29.6	7.64	19.0
Canton	50	—13	22.8	6.95	31.0
Colchester	55	—10	27.8	8.06	29.5
Falls Village				6.48	29.2
Gaylordsville				7.16	
Hartford *a*	55	— 8	27.7	7.10	24.5
Hartford *b*	49	— 8	25.9	8.26	22.5
Hawleyville	52	—11	26.6	5.44	33.0
Lake Konomoc				6.53	
New London	55	— 6	27.8	5.67	14.5
North Grosvenor Dale	54	—11	24.8	7.02	
Norwalk	53	— 7	27.4	7.02	15.5
Southington	50	—13	25.9	8.55	21.5
South Manchester				5.72	24.0
Storrs	58	— 9	25.6	5.86	16.1
Voluntown	57	—10	28.4	6.38	17.1
Wallingford				8.60	19.0
Waterbury	52	—12	26.8	6.92	32.0
West Cornwall	48	—15	22.8	7.68	42.5
West Simsbury				7.32	35.0
Delaware.					
Delaware City				5.26	5.0
Milford	64	15	37.8	5.52	2.0
Millsboro	65	13	36.0	7.42	1.5
Newark	58	9	31.0	7.35	5.0
Seaford	63	17	37.0	4.79	2.0
District of Columbia.					
Distributing Reservoir *5	54	20	35.2	5.50	
Receiving Reservoir *5	52	20	34.6	6.39	
West Washington	60	13	33.4	5.72	1.8
Florida.					
Archer	83	20	57.6	9.80	
Avon Park	92	30	63.6	2.44	
Bartow	87	28	65.3	1.52	
Bonifay	78	20	53.8	2.25	
Brooksville	84	25	61.2	4.25	
Carrabelle	79	33	57.9	6.95	
Clermont	89	31	63.8	1.45	
De Funiak Springs	79	17	52.6	2.98	
Deland	88	25	60.5		
Eustis	84	27	62.6	1.96	
Federal Point	82	29	59.4	6.00	
Fernandina	78	25	56.7	7.28	
Flamingo	85	39	70.4	1.13	
Fort George *1	80	24	56.8		
Fort Meade	88	23	61.7	2.68	
Fort Myers	82	36	63.8	2.93	
Fort Pierce	88	34	65.6	2.26	
Gainesville	84	25	59.5	7.31	
Grasmere	86	27	60.2		
Huntington	85	25	60.5	2.55	
Hypoluxo	87	39	68.8	1.00	
Inverness	82	21	58.3	1.36	
Jasper	78	22	55.0	6.26	
Johnstown	82[l]	21	57.8[l]	4.90	
Kissimmee	88	29	63.2	0.96	
Lake City	82	22	57.6	4.70	
Macclenny	89	21	57.6	5.30	
Malabar	86	31	64.5	1.10	
Manatee	85	31	62.6	1.68	
Marco	84	38	67.2	3.05	
Marianna	76	20	52.4	1.72	
Merritt Island	84	33	64.4	1.74	
Miami	89	37	69.8	1.86	
Micanopy d	84	24	57.9	9.57	
Molino	77	22	52.7	5.54	
Nocatee	86	29[c]	64.0	2.26	
Ocala	84	21	59.4	2.43	
Orlando	86	28	62.4	1.35	
Pinemount	81	20	56.0	6.20	
Rideout	85	27	57.8	6.21	
Florida—Cont'd.					
Rockwell	83	22	62.0	1.85	
St. Andrews	76	23	53.4	2.54	
St. Augustine	85	25	59.2	5.08	
St. Leo	85	26	61.3	1.46	
Stephensville	82	21	55.0	5.52	
Sumner	83	23	58.4	14.93	
Switzerland	84[e]	26[f]	56.0[e]	7.63	
Tallahassee	80	22	55.6	5.39	
Tarpon Springs	85	28	61.0	3.42	
Waukeenah	76	20	53.4	7.33	
Wausau	82	18	54.2	2.47	
Wewahitchka				3.17	
Georgia.					
Adairsville	68	16	42.4	5.47	T.
Albany	71	27	52.3	5.21	
Allapaha	77	19	52.4	5.52	
Alpharetta	69[c]	13[c]	42.0[c]		
Americus	72	14	49.2	2.79	
Athens	70	16	43.7	4.42	
Bainbridge	76	18	52.0	4.44	
Blakely	74	18[c]	49.8	2.17	
Bowersville	68	14	42.6	4.27	
Brent	72	14	45.2	6.70	
Butler				3.85	
Camak	70	16	46.2	3.17	
Canton				5.86	
Carlton				5.42	
Clayton	67	13	41.3	8.09	0.5
Columbus	73	18	48.8	4.60	
Coney	74	16	50.6	2.70	
Covington	70	14	44.4	3.50	
Dahlonega	67	14	41.6	8.00	T.
Diamond	64	12	41.6	6.82	1.0
Douglas	80	18	54.0	6.50	
Dublin				2.77	
Dudley	72	12	49.7	2.71	
Eastman	73	17	49.4	2.91	
Elberton	67	15	43.9	4.71	
Experiment	69	14	44.5	2.80	
Fitzgerald	77	16	50.5	3.90	
Fleming	78	12	51.8	4.87	
Fort Gaines	77	18	51.0	3.14	
Gainesville	64	14	42.0	6.15	
Gillsville	69	14	44.2	4.48	
Greensboro	69	14	44.2	5.15	
Griffin	69	15	44.8	3.11	
Harrison	71	17	49.6	2.66	
Hawkinsville	76	17	49.4	3.52	
Hephzibah	70	17	47.3	2.38	
Jesup	78	18	53.1	4.16	
Lost Mountain	70	14	44.0	5.15	
Louisville	72	17	47.8	2.81	
Lumpkin	74	13	49.8	3.16	
Marshallville	73	16	49.4	2.66	T.
Mauzy	81	18	53.4	2.83	
Milledgeville	70	18	45.8	3.08	
Millen	78	14	50.8	3.38	
Monticello	70	15	46.0	5.02	
Morgan	79	16	49.0	2.20	
Naylor	80	20	54.0	5.47	
Newnan	67	14	43.0	5.59	
Oakdale				6.25	
Point Peter	69	13	43.8	4.57	
Poulan	77	15	50.8	4.11	
Putnam	72[d]	15[c]	48.0[d]	3.65	
Quitman	77	20	53.4	11.34	
Ramsey	68	15	43.4	5.38	
Resaca				5.65	
Rome	69	17	42.0	5.47	T.
St. Marys	81	21	55.6	7.34	
Statesboro	74	19	51.4	4.09	
Talbotton	71	16	47.4	4.54	
Tallapoosa	70	13	42.0	4.99	
Thomasville	78	20	53.7	6.45	
Toccoa	68	16	42.9	6.10	
Valona	79	19	55.8	3.20	
Vidalia	74	18	50.8	2.92	
Washington	70	18	44.7	3.60	
Waverly	83	19	55.0	3.10	
Waycross				3.00	
Waynesboro	77	18	48.7	4.77	
Westpoint	73	13	45.6	5.44	
Woodbury	70	14	44.4	3.19	
Idaho.					
Albion	58	4	30.6	2.31	4.5
American Falls	53	5	27.9	1.22	
Blackfoot	52	3	26.6	0.10	1.0
Blue Lakes	56	13	34.3	1.60	3.5
Burnside	40	— 7	20.4	1.30	13.0
Cambridge	45[k]	—14[m]	21.6[l]	4.19	
Forney	53	— 9	24.3	3.20	29.5
Garnet	53	13	34.2	1.00	4.0
Grangeville	58	13	32.6	2.21	15.1
Hailey	65	— 5	21.7	2.75	
Lakeview	48	15	31.5	5.71	16.0
Lost River	42	—13	16.8	0.40	4.0
Moscow	50	6	29.0	3.73	21.6
Murray	42	0	26.8	7.10	53.0

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

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Idaho—Cont'd.	°	°	°	*Ins.*	*Ins.*
Oakley	52	7	30.6	0.75	2.0
Ola	.....	.....	.....	2.87	12.9
Paris	47	−23	17.2	1.52	15.2
Payette	50	8	32.0	1.89	16.2
Pollock	58	17	36.5	1.31	5.3
Porthill	42	10	26.4	3.54	40.0
Priest River	41	13	27.8	4.39	25.5
Riddle	54	− 4	25.6	1.40	11.0
St. Maries	44	6	31.9	4.95	21.2
Silver City	48	3	26.6	4.90	31.0
Soldier	42	−25	14.8	2.48	24.2
Thunder Mountain	44	0	21.8	4.98	41.7
Vernon	60	− 8	25.0	.....	.....
Weston	51	5	27.4	1.28	5 0
Illinois.					
Albion	57	5	32.6	4.99	1.0
Aledo	56	− 7	24.4	1.96	6.2
Alexander	55	0	28.6	2.45	1.2
Antioch	45	− 5	23.2	0.70	4.2
Ashton	50	−12	22.2	1.69	9.0
Astoria	53	− 1	26.9	2.77	9.5
Aurora	51	− 6	24.6	1.71	4.3
Benton	65	9	35.2	5.55	0.8
Bloomington	50	− 2	27.2	2.24	3.3
Cambridge	52	− 6	24.1	2.05	15.5
Carlinville	54	1	30.6	3.39	1.0
Carrollton	53	1	30.4	3.14	.....
Centralia	59	4	32.8	3.88	2.5
Charleston	50	2	30.0	3.94	2.5
Chester	.....	.....	.....	4.08	0.0
Cisne	62[c]	4[c]	32.8[c]	4.11	2.0
Coatsburg	53	− 5	27.0	2.80	4.0
Cobden	64	5	36.4	6.36	T.
Decatur	54	− 1	28.6	3.83	3.9
Dixon	50	− 9	21.8	2.13	13.9
Dwight	48	− 2	26.4	1.49	5.2
Effingham	56	3	32.8	3.40	3.0
Equality	58	8	35.8	5.17	0.2
Fandon	54	− 3	27.4	2.39	6.0
Friendgrove	62	6	33.2	5.13	1.0
Galva	54	− 7	24.4	1.64	8.0
Grafton	.....	.....	.....	4.48	1.5
Greenville	59	2	31.2	3.92	1.8
Griggsville	56	− 2	28.8	2.65	.....
Halfway	64	6	34.8	4.75	1.5
Halliday	64	5	34.9	4.79	0.0
Henry	53	− 9	26.2	1.88	4.0
Hillsboro	53	1	30.4	4.00	1.5
Hoopeston	45	− 2	25.4	2.60	8.5
Joliet	50	− 3	24.9	1.68	4.7
Kishwaukee	48	−11	21.4	1.87	6.5
Knoxville	.....	− 6	25.8	2.07	6.3
Lagrange	50	− 4	25.7	2.31	2.8
Laharpe	52	− 2	25.8	2.04	6.5
Lanark	49	−11	21.8	2.78	17.1
Loami	.....	.....	.....	1.86	0.5
McLeansboro	68	5	34.4	5.27	1.0
Martinton	51	− 5	26.0	2.91	6.5
Mascoutah	54	4	32.0	3.75	1.2
Mattoon	54	2	32.8	2.77	2.9
Minonk	51	− 6	25.6	1.79	5.0
Monmouth	53	− 6	23.3	2.56	9.3
Monticello	53	1	27.4	1.01	2.5
Morrison	50	−13	23.4	2.45	10.9
Morrisonville	51	1	29.8	3.02	1.0
Mount Carmel	.....	.....	.....	5.82	2.0
Mount Pulaski	53	0	27.8	2.21	4.5
Mount Vernon	60	4	33.8	4.91	2.0
New Burnside	66	6	35.6	6.03	T.
Olney	65	5	32.8	4.01	3.4
Ottawa	52	− 4	27.7	2.01	3.8
Palestine	58	0	29.7	3.78	5.0
Pana	50	1	29.8	3.68	1.0
Paris	49	4	28.4	3.89	.....
Peoria *a*	.....	.....	.....	1.67	4.7
Peoria *b*	54	− 1	28.6	1.54	0.6
Philo	50	1	27.6	3.12	4.0
Plumhill	59	5	33.0	4.10	2.5
Rantoul	51	− 1	27.3	2.96	4.3
Raum	64	10	35.9	7.16	0.3
Riley	46	− 8	22.6	2.35	9.1
Robinson	58	1	31.2	4.10	3.5
Rushville	55	− 2	27.7	2.67	6.7
St. Charles	50	− 5	25.0	1.84	5.0
St. John	63	5	34.3	4.54	1.2
Shobonier	55	3	32.4	3.06	3.5
Streator	52	− 5	26.4	1.74	3.3
Sullivan	53	0	29.1	3.09	1.0
Sycamore	50	− 8	23.2	2.02	9.0
Tilden	61	4	33.8	4.33	3.0
Tiskilwa	50	− 9	23.8	2.12	7.0
Tuscola	51	1	27.9	4.24	4.3
Urbana	51	0	26.8	2.94	3.5
Walnut	52[c]	− 9[c]	24.5[c]	1.81	6.5
Winchester	59	1	29.1	3.46	2.0
Winnebago	46	−11	21.7	2.10	9.0
Yorkville	50	− 8	24.9	1.80	1.8
Zion	43	− 9	19.2	2.49	10.0
Indiana.					
Anderson	51	3	28.6	3.90	6.0
Angola	44	1	25.1	4.67	20.0
Auburn	45[f]	− 3[f]	24.4[f]	2.85	.....
Avoca	59[c]	− 7[c]	33.7[c]	4.66	2.9
Bloomington	56	4	30.8	5.28	6.0
Bluffton	49	− 1	26.4	2.70	6.5
Butlerville	55	− 2	31.7	5.02	3.9
Cambridge City	52	− 6	27.8	3.56	3.6
Columbus	56	− 7	32.0	3.90	2.8
Connersville	53	− 4	29.3	3.62	2.5
Crawfordsville	50	3	29.8	4.10	4.5
Delphi	50	2	26.2	3.37	9.2
Edwardsville	58	12	36.1	7.20	2.5
Elkhart	49	1	26.0	2.03	8.6
Farmland	57	6	29.4	3.71	9.0
Franklin*[1]	55	6	31.9	3.91	.....
Greencastle	51	3	29.4	3.98	3.4
Greensburg	54	− 1	30.8	4.25	3.5
Hammond	50	− 1	24.0	2.08	9.0
Hector	48	2	26.8	4.00	12.0
Holland	61	5	35.0	7.18	1.5
Huntington	49	2	26.0	3.52	12.5
Jeffersonville	60	8	35.4	5.54	1.0
Kokomo	48	4	27.5	2.68	8.4
Lafayette	49	2	27.4	3.47	9.8
Laporte	51	3	26.5	3.09	23.8
Logansport	43	2	26.0	3.12	.....
Madison *a*	62	2	34.9	5.64	3.0
Madison *b*	.....	.....	.....	5.34	5.5
Marengo	61	1	34.5	6.75	3.0
Marion	50	4	27.5	3.12	10.5
Markle	49	0	27.0	3.75	14.5
Mauzy	53	− 1	28.9	4.02	6.0
Moores Hill	59	6	32.0	4.87	4.0
Mount Vernon	62	7	34.4	6.02	0.8
Northfield	50	− 8	27.6	3.01	6.0
Paoli	58	3	33.4	5.49	2.5
Prairie Creek	55	1	31.0	3.38	.....
Princeton	60	6	34.4	5.53	2.5
Rensselaer	47	− 2	26.4	2.79	16.0
Richmond	55	− 4	29.8	3.77	2.5
Rockville	51	3	29.0	3.11	3.0
Salem	62	− 1	33.6	7.25	2.0
Scottsburg	60	2	34.7	5.19	2.0
Seymour	57	− 2	31.5	4.90	4.5
Shelbyville	59[d]	9[c]	33.4[c]	3.62	.....
South Bend	50	0	26.2	3.31	19.5
Syracuse	46	0	25.4	3.17	28.5
Terre Haute	52	6	31.4	3.79	2.5
Topeka	44	− 2	25.1	1.32	4.0
Valparaiso	48	− 4	24.9	1.96	.....
Veedersburg	59[i]	2[i]	30.6[i]	3.46	.....
Vevay	60	5	35.4	6.35	9.0
Vincennes	60	6	32.0	4.55	3.0
Washington	60	7	32.4	4.81	1.5
Worthington	58	− 2	31.6	4.57	3.2
Indian Territory.					
Ardmore	62	17	39.0	2.41	.....
Chickasha	71	13	37.8	1.74	1.2
Claremore	61	12	38.2	2.00	1.0
Durant	69	20	40.2	3.36	.....
Fairland	65	8	36.3	2.76	1.0
Goodwater	72	21	44.4	4.86	6.0
Hartshorne	66	19	40.4	2.95	3.5
Healdton	73	16	40.6	3.94	.....
Holdenville	.....	.....	.....	2.41	T.
Marlow	72	13	38.5	1.39	1.5
Muskogee	68	14	38.2	3.25	2.0
Pauls Valley	69	14	38.2	2.25	2.0
Ravia	74	19	41.8	2.72	3.2
South McAlester	.....	.....	.....	4.72	3.0
Tahlequah	65	14	39.1	4.04	2.5
Tulsa	.....	.....	.....	3.43	3.0
Wagoner	.....	.....	.....	4.20	
Webbers Falls	.....	.....	.....	4.12	0.5
Iowa.					
Afton	48	− 9	21.6	2.30	15.0
Albia	59	− 5	28.0	1.92	16.0
Algona	47	−16	18.0	2.45	14.5
Allerton	53	− 7	23.4	1.48	7.5
Alta	44	−17	14.6	1.97	15.1
Amana	46	− 7	22.0	1.97	11.8
Ames	48	− 7	20.6	1.87	11.5
Atlantic	48	−11	19.6	2.66	14.0
Audubon	48	−12	21.0	1.75	16.7
Baxter	48	−10	20.8	1.95	9.0
Bedford	52	− 9	22.1	2.13	9.2
Belleplaine	43	− 9	20.4	2.40	16.0
Bonaparte	54	− 3	24.4	1.47	8.0
Britt	44	−16	17.0	1.93	12.1
Buckingham	.....	.....	.....	1.40	13.2
Burlington	56	− 3	25.8	2.13	.....
Carroll	51	−14	19.3	2.58	17.0
Cedarrapids	47	− 7	22.6	1.96	8.8
Chariton	52	− 7	22.8	1.91	16.4
Charles City	40	−17	17.2	2.30	15.5
Chester	40	−16	15.1	4.37	10.2
Clarinda	53	− 8	22.0	2.53	12.2
Iowa—Cont'd.					
Clearlake	42	−16	16.3	1.95	9.5
Clinton	48	−12	22.8	2.09	8.5
College Springs	52	− 7	22.6	2.44	15.6
Columbus Junction	48	− 5	22.8	2.16	13.8
Corning	49	−10	20.6	3.10	19.8
Council Bluffs	51	−13	21.0	1.91	.....
Cumberland	.....	.....	.....	1.80	14.0
Danville	.....	.....	.....	1.10	.....
Decorah	43	−12	18.6	3.00	11.2
Delaware	40	−15	18.2	2.25	14.3
Denison	49	−14	18.2	1.40	9.0
De Soto[c]	50	− 7	22.5	2.79	12.3
Dows	44	−13	17.2	1.70	16.0
Earlham	49	−10	19.4	2.59	16.8
Eldon	53	− 6	23.6	1.45	1.1
Elkader	47	−11	20.4	2.50	11.0
Estherville	46	−20	14.6	1.80	.....
Forest City	43	−16	17.4	2.80	14.0
Fort Madison	.....	.....	.....	3.20	9.0
Galva	.....	.....	.....	1.90	8.5
Gilman	.....	.....	.....	1.60	10.0
Grand Meadow	42	−14	18.2	2.44	10.7
Greene	45	−12	19.0	2.30	19.1
Greenfield	47	−12	20.2	1.98	18.0
Grinnell	43	− 8	20.6	2.26	13.8
Grinnell (near)	46	−10	20.6	2.50	12.5
Grundy Center	45	−11	19.0	2.05	12.5
Guthrie Center	44	−11	20.2	2.27	19.6
Hampton	47	−12	18.8	2.42	16.4
Hanlontown	46	−15	16.6	.....	.....
Harlan	48	−12	18.6	2.69	14.2
Hopeville	.....	.....	.....	1.69	.....
Humboldt	46	−15[e]	17.5	1.57	15 7
Idagrove	46	−14	18.3	3.10	.....
Independence	41	−11	18.2	1.72	12.6
Indianola	50[c]	− 8[c]	21.8[c]	.....	.....
Iowa City	51	− 7	22.2	2.21	12.0
Iowa Falls	43	−11	17.9	2.11	16.0
Jefferson	.....	.....	.....	2.32	11.8
Keosauqua	51	− 3	24.8	2.21	12.5
Lacona	.....	.....	.....	3.60	20.7
Lansing	45	−12	20.4	2.12	.....
Larrabee	47	−77	16.6	2.17	11.8
Leclaire	.....	.....	.....	1.38	6.3
Lemars	45	−13	18.1	3.15	11.0
Lenox	49	−12	20.4	1.69	8.8
Leon	50	− 7	22.8	2.03	12.9
Logan	44	− 9	20.2	2.14	12.0
Maple Valley	.....	.....	.....	1.97	12.0
Maquoketa	45	−13	19.6	2.35	9.0
Marshalltown	47	− 8	21.4	.....	9.4
Monticello	50	−14	19.6	2.46	14.0
Mountayr	51	− 9	21.1	2.57	14.0
Mount Pleasant	49	− 8	22.4	1.08	10.8
Mount Vernon	46	−11	21.0	2.40	15.6
New Hampton	41[c]	−13[c]	18.0[f]	2.20	12.0
Newton	47	−10	20.5	2.13	15.5
Northwood	44	−13	17.8	2.68	18.0
Odebolt	46	−14	18.8	2.50	14.5
Ogden	52	−17[c]	23.3[c]	1.63	7.4
Olin	44	−13	21.2	2.87	.....
Onawa	46	− 9	19.9	2.85	20.2
Osage	41	−13	17.4	2.41	16.1
Osceola	51	− 9	22.5	2.34	.....
Oskaloosa	52	− 6	22.6	1.53	15.25
Ottumwa	52	− 2	25.6	0.67	6.7
Ovid	47	− 7	22.6	2.39	13.5
Pacific Junction	49	− 7	20.9	2.55	12.7
Perry	50	−10	20.6	2.54	14.2
Plover	45	−17[c]	17.4	1.10	11.0
Redoak	56	− 6	25.2	2.52	15.5
Ridgeway	43	−13	20.6	5.51	19.5
Rockford	.....	.....	.....	1.53	11.0
Rockwell City	46	−12	19.5	3.00	9.0
Sac City	43	−15	17.2	2.16	14.0
St. Charles	53	− 8	22.8	2.75	18.3
Scranton	46	−11	19.8	2.50	.....
Sheldon	46	−16	15.3	1.12	6.5
Sibley	48[c]	−16[c]	15.8[c]	1.85	11.0
Sigourney	51	− 6	23.0	2.25	12.0
Sioux Center	46	−17	15.6	2.60	11.5
Spirit Lake	52	−20	16.2	1.46	9.5
Stockport	.....	.....	.....	2.23	12.0
Storm Lake	42	−18	16.7	1.92	14.0
Thurman	48	− 7	21.0	4.31	.....
Tipton	50	−10	22.6	1.70	13.5
Toledo	46	− 8	20.6	1.40	11.5
Villisca	45	−10	21.8	2.80	.....
Vinton*[1]	45	− 9	21.1	1.35	13.5
Wapello	47	− 2	25.1	1.99	11.5
Washington	50	− 8	21.0	2.47	16.5
Washta	.....	.....	.....	3.10	12.5
Waterloo	45	−11	19.6	1.94	9.8
Waukee	.....	.....	.....	2.36	16.5
Waverly	43	−13	19.0	2.10	11.2
Westbend	46	−15	17.5	2.34	13.5
Westbranch	.....	.....	.....	1.63	10.0
Wilton Junction	46	−10	22.1	2.03	14.0

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

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Iowa—Cont'd.	°	°	°	*Ins.*	*Ins.*
Winterset	56	— 9	21.0	2.09	12.9
Woodburn	.....	.....	.....	2.40	14.0
Kansas.					
Abilene	.....	.....	.....	0.40	4.0
Achilles	73	—10	23.8	0.86	8.6
Altoona	60	— 8	25.3	0.63	5.5
Anthony	.....	.....	.....	0.72	4.0
Atchison	58	— 2	27.0	1.60	7.2
Burlington	58	3	30.6	1.63	3.0
Chanute	59	4	31.2	1.71	1.0
Clay Center	59	— 7	25.6	1.09	7.7
Colby	69	— 5	24.2	0.82	9.1
Columbus	62	5	33.8	2.57	1.1
Cottonwood	58	— 1	30.0	1.17	4.4
Delphos	58	— 8	24.1	0.88	5.5
Dresden	74	— 2	25.6	0.83	8.0
Ellinwood	59	— 5	27.8	1.09	9.0
Englewood	66	— 1	30.8	0.60	4.5
Eureka	.....	.....	.....	1.51	.....
Eureka Ranch	65	—11	25.3	0.98	10.0
Fall River	62	5	32.6	0.81	1.0
Farnsworth	74	— 5	26.2	0.63	6.7
Forsha	61	— 3	29.8	0.65	5.0
Fort Leavenworth	57	— 1	28.2	1.05	4.0
Fort Scott	61	3	32.8	1.56	T.
Frankfort	52	— 2	24.5	1.73	7.5
Fredonia	60	4	33.3	2.32	1.0
Garden City	69	—12	27.8	1.00	8.7
Gove	69	5	25.4	1.70	.....
Grenola	65	5	32.1	1.37	1.2
Hanover	50	0	23.5	0.85	8.0
Harrison	56	— 5	22.6	0.66	4.9
Hays	63	— 6	25.1	1.35	13.5
Holton	58	— 3	26.6	1.53	6.5
Horton	57	— 3	25.5	1.83	7.5
Hoxie	71	— 4	24.9	1.05	10.5
Hutchinson	61	— 4	28.6	0.83	7.0
Independence	65	6	33.4	2.09	0.5
Jetmore	61	— 5	28.3	.....	
La Crosse	61	— 8	26.3	0.65	6.5
Lakin	65	— 7	28.0	0.40	5.0
Lawrence	56	0	28.2	1.83	6.2
Lebanon	54	— 3	22.4	0.90	9.0
Lebo	57	2	29.7	1.60	3.0
Leoti	72	— 5	29.0	0.42	4.2
Little River	59	— 4	27.2	0.65	6.5
Macksville	59	— 7	26.0	0.69	5.0
McPherson	77	0	27.6	0.90	5.5
Madison	59	— 4	31.2	1.60	4.0
Manhattan	62	2	28.3	1.18	8.0
Meade	60	— 1	28.8	0.50	5.0
Medicine Lodge	65	1	31.9	0.72	4.5
Minneapolis	58	— 7	24.6	0.75	7.5
Moran	58	2	32.8	1.89	1.0
Mounthope *1	55	8	30.6	0.92	5.0
Ness City	64	— 2	28.7	0.61	6.4
Newton	58	3	29.9	1.20	4.0
Norwich	62	7	31.0	0.71	2.0
Oberlin	.....	.....	.....	1.35	10.5
Olathe	54	0	29.2	1.10	3.0
Oswego	62	5	34.3	2.21	T.
Ottawa	58	0	29.2	1.59	4.0
Paola	57[d]	10[d]	31.4[d]	1.45	1.8
Phillippsburg	.....	.....	.....	1.36	11.0
Pittsburg	.....	.....	.....	2.17	0.7
Pratt	62	1	28.8	0.55	6.0
Republic	56	—10	23.7	0.60	6.0
Rome	69	10	32.7	1.12	2.0
Salina	58	—11	26.3	0.84	5.0
Sedan	66	6	34.0	2.22	T.
Seneca	55	— 4	25.2	1.70	8.2
Toronto	60	2	28.8	2.35	2.0
Ulysses	72[g]	—10[g]	27.6[g]	0.70	7.0
Valley Falls	57	— 1	26.8	1.19	5.9
Viroqua	73	— 2	31.0	0.10	1.0
Wakeeney	.....	.....	.....	0.83	8.3
Wallace	.....	.....	.....	0.50	5.0
Walnut	61[c]	4[c]	32.5[c]	2.48	T.
Wamego *1	58	1	27.2	1.55	9.0
Winfield	61	9	31.8	1.28	1.0
Yates Center	.....	.....	.....	2.07	2.0
Kentucky.					
Alpha	61	15	41.0	7.56	2.0
Anchorage	63	2	34.1	5.44	3.0
Beattyville	.....	.....	.....	6.69	3.4
Berea	63	9	36.2	7.26	6.0
Blandville	63	8	35.8	9.78	T.
Bowling Green	68	10	39.0	9.24	
Burnside	64	14	37.6	7.72	2.1
Cadiz	63	10	36.4	9.60	
Carrollton	58	5	34.0	5.52	7.3
Catlettsburg	64	12	37.0	6.95	1.0
Earlington	65	8	36.3	9.40	0.2
Edmonton	64	11	38.2	9.82	3.2
Eubank	63	12	36.4	7.52	3.0
Falmouth	.....	.....	.....	6.25	8.0
Fords Ferry	65	6	37.2	8.51	.....
Frankfort	63	10	36.1	6.90	0.6
Kentucky—Cont'd.					
Franklin	65	10	38.4	7.75	T.
Greensburg	62	12	37.3	8.82	0.2
Henderson	63	8	35.6	6.46	0.2
Highbridge	63	11	37.6	8.50	1.4
Hopkinsville	67	8	37.9	11.38	0.2
Irvington	69	8	37.5	5.92	1.5
Jackson	71	13	40.8	6.17	4.5
Leitchfield	64	8	35.5	11.97	1.6
Loretto	64	9	35.8	7.41	0.1
Manchester	62	12	37.3	7.10	1.5
Marrowbone	64	12	36.4	7.82	T.
Mayfield	70	8	37.6	8.12	3.1
Maysville	67	11	36.3	6.51	3.1
Middlesboro	63	3	37.6	5.10	
Mount Sterling	60	10	35.4	8.97	5.0
Owensboro	64	9	37.4	5.91	1.0
Owenton	58	6	34.2	7.42	1.2
Paducah *a*	.....	.....	.....	9.20	T.
Paducah *b*	68	8	39.2	9.53	T.
Pikeville	70	14	39.6	4.07	1.5
Princeton	64	5	36.2	9.08	1.0
St. John	63	12	35.8	7.19	0.1
Scott	59	— 3	32.8	5.14	7.5
Shelby City	61	6	35.8	9.60	3.0
Shelbyville	67	6	34.4	5.84	4.0
Taylorsville	63	9	36.0	6.55	0.5
Warfield	.....	10[g]	.....	4.20	4.0
Williamsburg	72	13	40.5	4.02	1.0
Williamstown	60	9	34.0	5.67	7.0
Louisiana.					
Abbeville	80	27	52.8	5.45	
Alexandria	78	25	48.6	4.37	
Amite	78	23	49.3	7.10	
Baton Rouge	75	24	50.0	6.76	
Burnside	76	26	55.0	6.24	
Calhoun	72	19	45.2	4.17	1.3
Cameron	70	31	53.5	4.14	
Cheneyville	75	26	49.0	5.04	T.
Clinton	73	24	51.6	6.44	
Collinston	75	23	46.2	5.39	1.3
Covington	74	25	51.8	6.75	
Donaldsonville	82	27	54.6	4.20	
Emilie	75	26	51.6	6.18	
Farmerville	71	21	42.2	3.94	4.0
Franklin	79	30	53.5	5.59	
Grand Coteau	78	26	52.2	5.68	
Hammond	74	24	52.0	5.69	
Houma	78	29	53.2	7.28	
Jeanerette	80	31	55.4	2.37	
Jennings	78	27	51.6	4.42	
Lafayette	78	27	51.9	5.02	
Lake Charles	77	30	53.0	3.39	
Lake Providence	78	18	48.2	4.52	
Lakeside	79	31	53.2	3.20	
Lawrence	80	31	53.8	8.13	
Libertyhill	76	22	48.4	3.45	4.0
Mansfield	74	24	48.9	4.39	1.0
Melville	79	24	50.4	8.00	
Minden	71	24	47.5	4.15	0.5
Monroe	74	23	47.6	3.44	1.0
New Iberia	79	29	54.4	5.60	
Opelousas	79	26	51.0	5.51	
Oxford	76	24	48.3	2.10	0.3
Plain Dealing	71	22	46.1	5.30	2.8
Port Eads	78	40	58.4	6.07	
Rayne	75	30	54.8	6.80	
Reserve	78	29	53.7	6.07	
Robeline	75	22	48.3	2.70	T.
Ruston	73	18	46.0	4.15	3.0
Schriever	80	28	53.2	6.77	
Sugar Experiment Station	80	29	53.3	6.83	
Sugartown	75	30	54.8	4.22	
Venice	80	34	55.8	6.84	
Wallace	78	28	53.6	4.59	
Maine.					
Bar Harbor	52	—15	23.2	7.12	28.0
Belfast	52	—17	19.6	4.90	17.5
Carmel [1]	52	—18	17.4	2.45	9.0
Cornish	46	—17	21.2	7.06	34.2
Danforth	.....	.....	.....	3.71	16.8
Fairfield	49	—15	18.4	4.68	21.0
Farmington	48	—18	17.6	4.31	31.5
Gardiner	52	—20	18.8	5.35	18.0
Houlton	52	—21	21.0	4.62	22.0
Kineo	30	—20[e]	11.4	2.01	16.0
Lewiston	52	—14	19.4	5.26	26.0
Mattawamkeag	.....	.....	.....	4.88	16.0
Mayfield	45	—19	17.1	4.12	22.0
Millinocket	.....	.....	.....	5.23	29.0
North Bridgton	50	—16	20.9	6.27	35.0
Orono	53	—20	17.0	4.77	24.5
Patten	47	—19	14.8	2.20	10.0
Rumford Falls	46	—19	17.2	4.60	31.5
Solon	.....	.....	.....	3.51	.....
The Forks	.....	.....	.....	3.10	23.5
Vanburen	43	—30	10.3	2.75	20.4
Vanceboro	50	—10	25.8	2.70	18.0
Winslow	48	—19[e]	15.6	4.25	25.2
Maryland.					
Annapolis	58	12	36.0	7.80	3.0
Bachmans Valley	56	3	28.9	8.24	10.0
Boettcherville	59	5	32.2	4.97	13.5
Cambridge	60	21	36.8	5.36	2.0
Chase	56	0	32.6	7.62	3.5
Cheltenham	60	12	33.4	5.19	3.5
Chestertown	59	15	33.8	6.83	3.5
Chewsville	57	5	30.8	3.98	8.0
Clearspring	58	12	30.4	7.03	13.8
Coleman	59	16	34.6	7.42	4.5
Collegepark	60	7	32.8	5.21	.....
Colora	.....	.....	.....	6.81	8.0
Darlington	59	8	31.3	7.91	7.5
Deerpark	54	— 4	26.6	7.09	22.0
Denton	64	11	35.4	3.15	2.5
Easton	70	16	36.2	4.58	2.4
Fallston	57	6	32.2	6.70	5.0
Frederick	53	9	32.9	5.99	9.5
Grantsville	56	4	27.4	5.72	19.8
Greatfalls	57	11	32.0	5.41	.....
Greenspring Furnace	55	8	30.5	5.67	11.0
Hancock	62	4	31.7	5.46	11.2
Harney	.....	.....	.....	5.51	9.0
Jewell	61	16	36.3	5.59	1.0
Johns Hopkins Hospital	59	18	34.2	7.64	.....
Laurel	58	5	32.3	5.59	5.0
McDonogh [b]	60	10	33.8	4.84	.....
Mount St. Marys College	52	15	31.0	5.58	12.5
New Market	52	14	31.9	6.23	7.0
Princess Anne	64	16	37.1	3.71	1.5
Queenstown	61	19	35.0	7.06	4.0
Sharpsburg	58	16	33.4	.....	4.9
Solomons	63	20	37.8	3.45	1.2
Sudlersville	60	12	34.9	6.21	2.8
Sunnyside	54	— 1	28.0	8.63	19.8
Takoma Park	58	11	32.8	6.06	.....
Van Bibber	55	9	33.3	7.46	.....
Westernport	56	9	31.4	3.07	9.5
Woodstock	59	11	34.0	6.65	5.0
Massachusetts.					
Amherst	49	—15	23.8	4.27	26.5
Bedford	53	—12	25.1	5.60	25.5
Bluehill (summit)	55	—14	26.2	5.50	32.0
Cambridge	56	—11	26.6	5.99	.....
Chestnuthill	55	—10	27.3	5.53	23.0
Cohasset	.....	.....	.....	6.65	24.0
Concord	53	—12	23.2	5.32	25.1
East Templeton *1	44	—14	22.7	6.01	29.8
Fall River	58	— 7	29.6	6.76	26.0
Fitchburg *a* *1	46	—12	23.8	6.75	34.0
Fitchburg *b*	50	—14	24.0	6.34	27.0
Framingham	54	—14	25.6	6.61	31.0
Groton	47	—14	23.0	6.39	33.5
Holyoke	.....	.....	.....	8.30	41.2
Hyannis	50	— 8	31.2	6.51	15.5
Jefferson	.....	.....	.....	7.21	31.2
Lawrence	54	—12	24.4	5.92	33.2
Leominster	.....	.....	.....	4.90	29.2
Lowell *a*	51	—11	25.7	6.29	.....
Ludlow Center	47	—19	20.2	6.50	28.5
Middleboro	57	— 9	27.4	6.06	18.6
Monson	53	—12	24.3	7.20	31.0
New Bedford *a*	53	—10	29.1	5.53	28.0
Pittsfield	.....	.....	.....	5.32	18.5
Plymouth *1	48	— 9	30.1	6.77	27.0
Princeton	.....	.....	.....	7.39	28.5
Provincetown	61	— 2	33.8	6.53	15.8
Salem	.....	.....	.....	5.53	29.0
Somerset *1	54	—12	30.0	5.83	22.5
Sterling	.....	.....	.....	7.00	22.4
Taunton	55	—15	26.9	5.56	44.5
Webster	.....	.....	.....	6.58	17.8
Westboro	53	—13	25.9	6.41	28.5
Weston	53	—11	24.5	6.43	33.0
Williamstown	47	—14	22.5	4.41	21.0
Winchendon	.....	.....	.....	6.70	32.0
Worcester *b*	52	—13	25.6	5.03	32.0
Michigan.					
Adrian	44	5	25.7	1.60	2.5
Agricultural College	45	— 3	24.8	2.89	9.9
Allegan	49[c]	3[c]	26.4[c]	3.65	21.5
Alma	44	— 1	24.7	2.34	19.0
Ann Arbor	44	2	24.8	2.48	7.9
Annpere	.....	.....	.....	1.10	8.0
Arbela	46	2	25.2	3.44	11.0
Baldwin	44	—10	22.8	1.48	9.5
Ball Mountain	45	2	24.6	1.81	8.9
Baraga	43	— 9	17.8	1.60	16.0
Battlecreek	47	3	25.0	2.47	9.0
Bay City	44	2	24.4	3.18	6.0
Benzonia	43	8	25.5	4.25	29.3
Berlin	44	0	24.6	1.83	8.6
Berrien Springs	51	6	26.7	4.45	24.0
Big Rapids	44	0	23.0	2.93	17.5
Birmingham	46[c]	2	25.6	1.71	11.5
Boon	40	— 6	21.0	2.15	18.2
Calumet	37	3[k]	19.3[c]	4.16	52.0
Carsonville	38[c]	.....	.....	.....	

TABLE II.—*Climatological 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.
Michigan—Cont'd.					
Cassopolis	48	0	25.4	3.60	23.0
Charlevoix	.....	.....	.....	2.45	14.0
Charlotte	59	2	27.3	2.00	5.0
Chatham	40	— 9	20.2	2.55	25.5
Cheboygan	42	1	24.6	1.10	10.5
Clinton	48	— 4	26.2	2.51	8.7
Coldwater	46	2	26.0	2.50	9.0
Deerpark	38	— 1	21.6	5.00	49.0
Detour	39	— 4	22.6	3.34	20.0
Dundee	46	2	26.1	3.14	9.5
Eagle Harbor	40[d]	6[d]	23.2[d]	2.16	21.7
East Tawas	44	4	24.6	2.19	5.0
Eloise	48	3	25.5	2.14	8.9
Ewen	41	1	16.5	1.62	16.2
Fennville	48	8	28.0	2.85	10.2
Fitchburg	44	— 3	24.7	3.39	14.5
Flint	45	— 3	24.7	1.84	6.5
Frankfort	44	16	28.8	1.46	10.0
Gaylord	39	— 8	19.2	1.10	11.0
Gladwin	41	— 2	19.3	1.47	7.0
Grand Marais	40	7	24.0	3.56	35.2
Grand Rapids	49	9	26.6	2.69	5.1
Grape	47	— 6	26.0	2.73	16.1
Grayling	41	—10	21.2	1.70	16.0
Hagar	52	11	29.1	3.01	15.2
Harbor Beach	45	5	27.6	1.65	3.5
Harrison	37	2	19.8	2.80	7.3
Harrisville	47	6	25.0	4.09	27.0
Hart	49	10	26.6	1.56	13.5
Hastings	48	5	25.9	3.20	11.2
Hayes	48	10	24.8	2.16	7.5
Highland Station	.....	.....	.....	2.50	8.5
Hillsdale	48	0	24.9	3.03	15.5
Humboldt	.....	.....	.....	0.97	9.7
Iron Mountain	45	— 6	19.1	1.55	15.5
Iron River	38	—14	15.8	2.45	21.0
Ironwood	40	—11	16.8	1.78	17.8
Ishpeming	38	— 5	17.9	1.50	15.0
Ivan	43	— 1	22.2	2.45	17.0
Jackson	43	2	23.8	2.97	13.5
Jeddo	45	3	24.8	2.20	9.7
Kalamazoo *	42	8	26.4	1.06	11.4
Lake City	40	— 5	21.6	0.70	7.0
Lansing	46	2	26.1	2.09	8.6
Lapeer	46	1	24.9	.....	.....
Lathrop[g]	36	—10	16.2	2.68	6.8
Lincoln	48[d]	2[d]	24.0[d]	0.50	5.0
Ludington	44	18	28.6	1.25	11.0
Mackinac Island	41	— 2	24.4	2.37	15.0
Mackinaw	40	0	25.0	2.14	9.2
Mancelona	44	2	22.6	1.55	15.5
Manistee	44	3	26.5	1.75	16.0
Manistique	40	— 3	22.6	2.41	12.0
Menominee	41	— 7	22.8	0.85	8.5
Midland	42	— 7	24.4	2.20	11.0
Mio	40	—12	20.8	1.97	16.2
Montague	46	7	27.2	3.14	13.0
Mount Pleasant	45	2	24.3	1.83	11.0
Muskegon	50	9	27.8	2.35	9.0
Newberry	41	10	23.2	1.30	13.0
North Marshall[i]	44	4	25.8	2.85	5.0
Old Mission[h]	44	11	26.9	1.48	.....
Olivet	43	5	25.6	2.83	7.7
Omer	43	2	24.4	1.12	4.0
Onaway	41	— 4	22.2	1.61	12.5
Ontonagon	45	— 4	18.8	3.90	39.0
Ovid	46	— 3	25.7	1.81	3.5
Owosso	.....	.....	.....	0.61	4.1
Petoskey[c]	42	2	24.0	1.88	16.3
Plymouth	45	5	27.6	1.20	11.0
Port Austin	45	9	26.9	1.18	3.0
Powers	43	— 8	20.9	.....	.....
Reed City	42	— 2	22.9	2.47	15.5
Roscommon	42[d]	—12[d]	23.5[d]	1.12	10.0
Saginaw	46	2	26.0	2.56	10.2
St. Ignace	40	— 2	25.1	0.75	7.5
St. Johns	46	3	26.7	.....	.....
St. Joseph	47	8	27.2	4.05	23.0
Sidnaw	.....	.....	.....	2.25	22.5
Slocum[j]	53	16	29.8	1.73	6.1
Somerset[j]	43	0	21.7	0.90	9.0
South Haven	47	8	27.4	2.32	12.8
Thomaston	42	—15	15.2	2.00	20.0
Thornville	46	6	26.4	2.75	14.0
Traverse City[h]	51	2	29.5	1.55	9.5
Vassar	49	— 6	26.8	1.89	4.1
Wasepi	47	0	25.4	3.76	15.0
Waverly	49	4	26.6	3.21	12.0
Webberville	46	1	25.8	2.00	10.0
West Branch	41	— 3	22.2	2.14	16.5
Wetmore[g]	40	—13	17.6	1.85	18.5
Whitefish Point	44	3	23.1	1.10	11.0
Ypsilanti	48	— 1	24.7	3.46	14.3
Minnesota.					
Ada	38	—24	11.0	0.85	9.0
Albert Lea	40	—15	14.6	1.82	11.0
Alexandria	35	—26	10.7	1.36	9.5
Angus	33	—28	5.1	0.73	7.0
Minnesota—Cont'd.					
Ashby	34	—22	10.8	1.42	13.0
Beardsley	42	—29	11.6	1.30	7.0
Beaulieu	34	—29	8.2	0.38	5.5
Bemidji	38	—32	11.5	0.95	.....
Bird Island	39	—25	12.2	2.39	13.0
Blooming Prairie	38	—15	15.0	1.70	9.5
Brainerd	37	—25	10.2	2.48	14.0
Caledonia	38	—17	16.2	2.27	12.0
Collegeville	39	—20	15.0	1.67	15.1
Crookston	35	—24	9.8	0.45	4.5
Currie	45	—23	12.4	.....	.....
Deephaven	.....	.....	.....	1.62	17.0
Detroit	36	—30	8.1	0.43	4.0
Duluth	33	—22	13.0	2.13	20.0
Faribault	38	—18	14.8	2.37	13.5
Farmington	39	—20[e]	15.2	2.72	25.0
Fergus Falls	36	—22	11.4	0.94	7.5
Glencoe	38	—22	13.3	1.20	11.0
Grand Meadow	37	—16	13.4	3.19	27.0
Hallock	36	—32	5.3	0.18	2.0
Lake Winnibigoshish	41	—30	10.4	1.06	14.5
Leech	38	—30	9.6	1.29	12.5
Long Prairie	37	—29	10.6	1.43	12.5
Luverne	42	—16	14.2	2.55	12.0
Lynd	43	—26	13.4	2.63	18.5
Mapleplain	40	—26	13.2	3.19	25.0
Milaca	35	—28	11.6	0.91	8.0
Milan	39	—30	10.4	2.97	22.8
Minneapolis *b*	39	—21	14.8	2.37	17.7
Montevideo	35	—31	10.6	2.35	19.2
Morris	38	—26	11.3	1.81	17.6
Mount Iron	38	—27	8.8	2.05	20.5
New London	34	—28	8.8	2.00	15.0
New Richland	41	—17	16.4	2.66	13.5
New Ulm	40	—19	15.4	1.74	10.2
Park Rapids	33	—25	10.0	0.96	9.2
Pine River	41	—30	11.3	2.02	16.5
Pipestone	40	—20	12.2	1.52	7.2
Pleasant Mounds	41[f]	—20[f]	15.6[f]	2.46	12.5
Pokegama Falls	42	—45	7.6	1.32	9.5
Redwing *a*	.....	.....	.....	1.56	15.0
Reeds	.....	.....	.....	2.09	19.0
Rolling Green	43	—18	15.4	1.90	7.0
St. Cloud	39	—25	13.2	1.43	11.0
St. Peter	41	—19	17.6	1.07	11.6
Sandy Lake Dam	40	—29	9.6	1.32	12.6
Shakopee	39	—21	14.6	3.10	17.5
Tower	36	—33	10.0	1.80	18.0
Two Harbors	38	—23	15.1	1.87	8.5
Wabasha	44	—16	17.4	2.31	18.0
Willow River	40	—29	13.2	2.11	19.0
Winnebago City	43	—19	15.8	2.08	11.5
Winona	40	—11	17.9	2.46	13.0
Worthington	45	—20	14.2	2.27	11.5
Mississippi.					
Aberdeen	69	17	43.4	6.35	
Agricultural College	70	13	44.9	7.07	T.
Austin	67	16	43.1	12.44	T.
Batesville	70	15	44.8	6.60	
Bay St. Louis	71	26	52.2	7.64	
Biloxi	70	24	52.7	5.71	
Booneville	68	12	41.0	7.10	
Brookhaven	.....	.....	.....	8.00	
Canton	72	18	46.8	5.02	T.
Columbus	78	15	44.8	5.51	
Corinth	.....	.....	.....	8.68	
Crystalsprings	72	19	46.4	7.17	
Edwards	72	19	48.0	5.86	T.
Fayette	73	21	47.6	4.12	
Fayette (near)	.....	.....	.....	4.16	T.
Greenville *a*	69	20	46.0	4.96	T.
Greenville *b*	71	18	44.4	4.95	T.
Greenwood	72	15	43.8	5.28	
Hattiesburg	75	21	50.7	5.15	
Hazlehurst	73	17	46.8	7.14	T.
Hernando	66	14	41.8	.....	
Holly Springs	66	13	40.6	8.17	
Indianola	72	18	45.6	3.90	
Jackson	.....	.....	.....	5.72	1.0
Kosciusko	71	15	44.9	5.38	T.
Lake	70	16	44.4	6.22	T.
Lake Como	73	18	48.3	6.07	
Laurel	76	20	50.7	5.33	
Leakesville	78	20	51.6	5.47	
Louisville	73	12	46.2	4.75	T.
Macon	79	16	45.3	4.27	
Magnolia	75	21	49.4	6.64	
Natchez	76	23	50.8	4.25	
Nittayuma	72	18	44.6	4.03	T.
Okolona	68	13	42.8	7.01	T.
Palo Alto	73	15	45.0	7.30	T.
Patmos	.....	.....	.....	4.73	T.
Pearlington	80	24	50.1	7.48	
Pittsboro	70	13	43.8	6.88	0.5
Pontotoc	68	13	43.2	5.73	2.0
Poplarville	73	22	51.8	6.15	
Port Gibson	74	24	48.3	4.26	T.
Ripley	65	11	41.1	4.20	
Mississippi—Cont'd.					
Shoccoe	72	17	46.2	5.53	T.
Stonington	.....	.....	.....	4.23	T.
Suffolk	72	20	49.1	7.04	T.
Swartwout	76	23	54.1	9.75	
Thornton	72	26	45.4	.....	T.
Tupelo	72	12	42.6	8.20	
University	70	13	43.8	6.01	1.0
Walnutgrove	75	17	46.4	4.35	0.5
Watervalley	.....	.....	.....	5.46	3.5
Waynesboro	74	19	49.4	4.71	
Woodville	72	22	49.5	7.90	
Yazoo City	73	20	45.5	4.07	T.
Missouri.					
Appleton City	58	2	31.0	3.17	T.
Arthur	61	4	33.2	2.27	T.
Avalon	56	— 5	27.6	1.85	.....
Bethany	52	— 5	25.2	2.16	4.0
Birchtree	60[c]	4[c]	34.6[c]	3.85	T.
Boonville	.....	.....	.....	1.82	0.1
Brunswick	57	— 2	28.4	2.02	T.
Carrollton	56	— 2	29.0	0.94	T.
Caruthersville	66	12	40.0	9.31	T.
Conception	53	0	23.6	1.42	7.0
Darksville	55	— 2	27.6	0.71	1.8
Dean	62	5	35.7	4.21	2.0
Desoto	60	3	33.8	3.83	0.2
Downing	.....	.....	.....	2.10	5.5
Edgehill	61	6	35.2	3.60	T.
Edwards	60[f]	2	33.4[e]	2.17	T.
Eightmile *[3]	.....	1	28.8	1.97	1.0
Fairport	.....	.....	.....	1.34	4.5
Fayette	59	1	30.8	1.67	T.
Fulton	57	1	31.0	1.98	1.0
Galena	.....	.....	.....	4.80	10.0
Gallatin *[1]	56	— 1	27.9	1.69	3.7
Glasgow	55	— 1	29.0	1.58	0.5
Gorin	.....	.....	.....	2.06	4.6
Grant City	53	— 7	23.8	1.55	6.0
Harrisonville	55	1	28.3	1.99	1.0
Hazlehurst	.....	.....	.....	1.47	4.0
Hermann	.....	.....	.....	2.54	0.2
Houston	65	3	35.0	3.93	4.0
Huntsville	55	— 2	29.0	1.42	.....
Ironton	66	2	33.6	4.08	1.0
Jackson	65	6	36.4	6.35	0.5
Jefferson City	58	1	30.6	3.47	1.8
Joplin	64	5	36.4	1.64	1.2
Kidder	55	— 4	25.5	1.63	4.8
Koshkonong	59	6	36.2	5.33	T.
Lamar	61	4	34.3	2.09	T.
Lamonte	.....	.....	.....	2.09	2.5
Lebanon	59	2	32.9	3.96	6.0
Lexington	57	— 1	29.2	1.94	3.5
Liberty	57	— 1	28.0	1.34	1.6
Louisiana	57	0	29.6	2.99	0.2
Macon	55	— 3	27.8	1.99	3.8
Marblehill	65	5	35.8	6.00	0.5
Marshall	55	— 5	29.2	2.38	1.1
Maryville	53	— 6	21.8	2.05	8.2
Mexico	58	0	29.2	2.14	1.0
Miami *[5]	54	— 1	28.3	1.52	4.4
Mineralspring	56	4	33.8	3.30	9.0
Monroe City	56	— 4	27.0	2.30	2.8
Montreal	61	1	32.4	2.80	4.5
Mountaingrove	59	2	33.7	3.43	5.0
Mount Vernon	68	4	35.4	5.16	5.0
Neosho	63	6	35.8	3.34	2.0
Nevada	62	3	33.3	2.19	T.
New Haven	60	3	33.1	4.21	4.0
New Madrid *b*	.....	.....	.....	8.62	.....
New Palestine	56	3	31.6	1.70	1.4
Oakfield	58	2	32.4	3.98	3.2
Olden	.....	.....	.....	4.99	3.5
Oregon	55	— 5	25.4	2.41	12.8
Palmyra *[5]	58	— 2	27.8	1.78	3.0
Pine Hill	.....	.....	.....	2.69	0.6
Poplarbluff	64	9	37.6	7.23	
Princeton	50	— 6	24.9	1.85	7.0
Rockport	.....	.....	.....	2.44	8.0
Rolla	.....	.....	.....	4.82	4.2
St. Charles	58	2	32.4	4.18	3.0
St. Joseph	.....	.....	.....	1.74	9.0
Sarcoxie	.....	.....	.....	3.08	2.5
Sedalia	57	0	31.0	1.85	3.0
Seymour	58	0	32.6	4.37	7.0
Shelbina	.....	.....	.....	1.46	0.8
Sikeston	64	9	37.3	7.16	T.
Steffenville	56	— 2	27.6	2.57	7.0
Trenton	51	— 3	26.0	2.02	5.7
Unionville	52	— 6	23.9	1.98	6.5
Vichy	59	0	31.8	4.71	3.2
Warrensburg	55	1	30.8	1.68	1.0
Warrenton	58	1	29.0	3.75	2.0
Wheatland	.....	.....	.....	1.95	0.5
Willowsprings	62	3	33.8	4.62	4.0
Windsor	.....	.....	.....	1.53	2.7
Zeitonia	64	4	35.0	3.95	0.8

TABLE II.—*Climatological 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.
Montana.					
Anaconda	47	5	25.6	1.18	8.3
Augusta	52	−17	24.2	1.00	10.0
Billings	57	− 4	24.0	.....	.....
Boulder	50	− 3	21.6	1.05	10.5
Bozeman	52	− 1	23.6	0.73	
Butte	51	4	26.6	0.90	9.0
Canyon Ferry	53	− 5	19.3	0.74	6.9
Columbia Falls	41	5	24.3	3.48	12.0
Crow Agency	53	− 4	21.3	0.70	7.0
Culbertson	38	−32	5.4	0.33	3.0
Deerlodge	55	− 2	24.2	0.06	0.6
Dillon	48	4	25.8	0.56	5.0
Ekalaka	52	−18	18.0	0.60	6.0
Fort Benton (*a*)	42	−20	16.4	0.90	9.0
Fort Logan	49	−11	17.2	0.12	1.2
Glasgow	82	−29	2.6	0.54	5.4
Glendive	46	−20	8.8	1.50	15.0
Greatfalls	52	−10	23.6	0.39	3.9
Hamilton	52	6	29.6	1.41	9.0
Kipp	50	−25	15.8	1.30	13.0
Lewistown	55	−11	21.6	1.30	13.0
Livingston	52	−19	22.0	0.13	1.3
Manhattan	50[e]	−12[e]	19.6[e]	.....	.....
Marysville	46[c]	−12[c]	21.2[c]	1.85	13.5
Missoula	44	4	26.2	.....	.....
Parrot	52[f]	5[f]	26.4[f]	.....	.....
Plains	45	9	26.6	2.40	23.0
Poplar	38	−29	4.6	1.06	10.6
Redlodge	57	.....	.....	0.50	5.0
Ridgelawn	38	−25	7.2	1.17	11.7
St. Pauls	57	−13	21.0	1.01	10.1
St. Peter	51	−18	25.0	0.30	3.0
Springbrook	42	−25	12.8	1.36	13.6
Toston	55	−10	20.4	0.87	8.7
Townsend	56	−11	20.9	0.58	5.8
Troy	40	6	26.6	5.81	21.5
Twin Bridges	52[d]	1[d]	23.2[d]	.....	.....
Twodot	52	− 8	17.2	1.80	18.0
Utica	55	−13	24.9	0.25	2.5
Winston	52	− 6	22.7	0.75	8.0
Yale	50	− 7	21.9	0.80	8.0
Nebraska.					
Agate	47[j]	− 9[j]	21.2[j]	1.60	16.0
Agee*[1]	48	−20	16.2	3.95	39.5
Albion	43[f]	−12[f]	18.2[f]	1.00	10.0
Alliance	52[f]	−10[f]	17.7[f]	1.55	15.5
Alma	60	−11	20.8	1.18	11.2
Ames	52	− 8	21.0	2.08	8.0
Ansley	48	− 5	19.0	1.10	11.0
Arapahoe	.....	.....	.....	0.70	7.0
Arborville	.....	.....	.....	0.59	6.0
Arcadia	.....	.....	.....	0.60	6.0
Ashland *a*	52	− 7	22.0	1.79	11.5
Auburn	57	− 5	23.8	2.18	12.5
Aurora	51	− 6	20.6	0.80	8.0
Bartley	.....	.....	.....	0.55	6.0
Beatrice	51	− 5	23.2	0.85	6.8
Beaver	61	− 4	23.0	0.79	7.5
Bellevue	.....	.....	.....	2.55	8.7
Benedict	.....	.....	.....	1.00	10.0
Benkleman*[1]	44	− 5	23.8	1.50	9.0
Blair	50	−11	18.4	2.08	10.0
Bluehill*[1]	43	− 8	23.2	0.35	3.5
Bradshaw	.....	.....	.....	0.70	7.0
Bridgeport	50	− 6	22.8	0.80	8.0
Brokenbow	56	− 7	20.4	0.72	7.2
Burchard	.....	.....	.....	1.47	7.0
Burwell	.....	.....	.....	0.95	9.5
Callaway	52	− 7	18.2	0.95	12.0
Cedar Rapids	55[g]	− 2[g]	21.0[g]	0.58	5.8
Central City	.....	.....	.....	0.80	8.0
Chester	.....	.....	.....	0.50	5.0
Cody	.....	.....	.....	0.95	9.5
Columbus	53	− 9	19.4	0.91	9.0
Crete	51	− 7	22.2	1.84	9.2
Culbertson	.....	.....	.....	0.80	8.0
Curtis[k]	60	1	20.0	1.20	12.0
Dawson	57	− 4	26.0	1.38	8.0
Edgar	.....	.....	.....	0.39	3.9
Ericson	.....	.....	.....	0.90	9.0
Ewing	.....	.....	.....	1.20	12.0
Fairbury	54	− 6	21.5	0.89	7.2
Fairmont	51	− 7	20.5	0.65	6.5
Fort Robinson	55[k]	− 2	22.7[k]	2.65	26.5
Franklin	59	− 9	19.8	0.85	8.5
Fremont	51	−10	17.6	2.20	8.9
Fullerton	.....	.....	.....	0.90	8.5
Geneva	51	− 6	21.7	0.65	6.5
Genoa (near)	51	−10	18.3	0.98	10.5
Gering	60	− 2	25.0	1.13	11.3
Gosper	.....	.....	.....	1.16	12.0
Gothenburg	62	− 1	21.2	1.10	11.0
Grand Island *b*	56	− 6	21.4	1.07	10.7
Greeley	.....	.....	.....	0.39	3.9
Guide Rock	.....	.....	.....	0.85	8.5
Haigler	.....	.....	.....	0.50	5.0
Hartington	54	−18	18.6	2.12	9.5
Harvard	52	− 5	20.6	0.90	9.0
Nebraska—Cont'd.					
Hastings*[1]	53	− 3	21.0	0.80	8.0
Hayes Center	.....	.....	.....	1.45	14.5
Hay Springs	48	− 5	21.0	1.98	21.0
Hebron	52	− 3	23.4	1.17	9.7
Hickman	.....	.....	.....	1.35	10.0
Holbrook	.....	.....	.....	0.74	7.4
Holdrege	57	0	23.4	1.20	12.0
Hooper*[1]	47	− 7	19.5	2.06	12.5
Imperial	60	− 4	20.6	1.84	16.2
Johnstown	.....	.....	.....	2.40	24.0
Kearney	58	− 1	23.7	0.55	5.5
Kennedy	55	− 2	22.8	2.80	28.0
Kimball	54	4	26.0	2.05	20.5
Kirkwood	55	−16	18.4	2.70	27.0
Laclede	55	−10	19.8	1.10	10.0
Lexington	60	− 5	20.1	1.04	9.0
Lodgepole	49	− 3	22.8	1.70	17.0
Loup	68	−10	19.8	1.00	10.0
Lynch	51	−23	15.7	1.99	18.4
Lyons	.....	.....	.....	2.09	13.0
McCook*[1]	51	− 2	25.2	0.60	6.0
McCool Junction	.....	.....	.....	0.50	.....
Madison	52	−13	19.6	1.25	12.5
Madrid	.....	.....	.....	0.90	9.0
Marquette	.....	.....	.....	0.95	9.5
Mason	.....	.....	.....	1.10	11.0
Minden *b*	56	− 4	20.4	0.91	8.0
Nebraska City *c*	52	− 6	22.0	2.30	15.0
Nemaha	.....	.....	.....	1.44	.....
Norfolk	52	−17	17.2	1.35	13.5
North Loup	59	− 8	20.7	0.53	5.3
Oakdale	52	−17	16.2	1.08	11.7
Odell	.....	.....	.....	1.50	8.5
O'Neill	64	−19	16.8	2.10	21.0
Palmer	.....	.....	.....	0.70	7.0
Palmyra*[1]	52	− 8	21.0	1.94	.....
Pawnee City	.....	.....	.....	1.71	7.2
Plattsmouth *b*	51	− 8	20.4	1.60	14.0
Purdum	58	− 5	19.4	1.88	17.8
Ravenna *a*	56	− 7	20.6	1.03	9.4
Redcloud	55	− 2	21.8	0.67	6.7
Republican*[1]	58	−10	22.6	0.95	9.5
Rulo	.....	.....	.....	0.87	7.5
St. Libory	.....	.....	.....	1.10	11.0
St. Paul	56	− 6	22.2	0.83	7.9
Salem*[1]	53	− 2	25.6	2.19	7.0
Santee	52	−19	17.5	2.14	20.8
Schuyler	.....	.....	.....	1.30	8.0
Seward	53	− 4	20.0	1.07	6.7
Smithfield	.....	.....	.....	0.80	8.0
Springview	.....	.....	.....	3.60	36.0
Stanton	52	−14	18.2	1.64	14.0
State Farm	52	− 9	22.0	2.23	13.5
Strang*[1]	50	− 4	24.3	0.45	4.5
Stratton	.....	.....	.....	1.30	11.2
Superior	52	− 2	21.2	0.80	8.0
Syracuse	.....	.....	.....	2.01	10.0
Tablerock	50	− 6	21.8	1.36	7.0
Tecumseh *b*	48	− 1	22.5	.....	.....
Tecumseh *c*	.....	.....	.....	1.98	8.8
Tekamah	51	−11	20.7	2.48	14.5
Turlington	50	− 8	22.0	2.74	17.0
Wakefield	49	−16	17.8	2.26	13.8
Wallace	.....	.....	.....	0.80	8.0
Weeping Water	46	−14	19.4	2.27	14.8
Westpoint	52	−13	18.8	1.94	15.6
Wilber*[1]	52	− 6	23.1	1.13	4.5
Wilsonville	.....	.....	.....	0.48	5.6
Winnebago	.....	.....	.....	1.73	17.0
Wisner	.....	.....	.....	2.44	16.0
Wymore	.....	.....	.....	1.32	11.5
York	52	− 5	22.2	0.50	5.0
Nevada.					
Amos	60	0	30.6	0.40	0.8
Austin	57	11	33.8	0.39	
Battle Mountain	62[k]	1	34.2[e]	0.00	
Beowawe*[1]	68	1	36.3	0.20	2.0
Belmont	46	9	27.3	0.10	1.0
Candelaria	58[d]	17[d]	34.8[d]	T.	T.
Carlin	.....	.....	.....	0.20	
Carson City	68	11	36.9	0.61	T.
Cranes Ranch	.....	.....	.....	0.16	
Elko	52	− 2	29.4	.....	.....
Ely	50	0	26.2	1.42	9.0
Eureka	53	7	30.7	0.30	T.
Golconda*[1]	55	10	34.7	.....	.....
Halleck*[5]	54	0	28.8	.....	.....
Hawthorne	68	15	36.8	0.00	
Humboldt	55	10	33.9	T.	
Lee	.....	.....	.....	0.24	3.0
Lewers Ranch	63	13	37.2	2.79	2.0
Lovelocks	63	4	36.2	0.00	
Martins	78	9	38.4	0.22	
Mill City*[1]	60	8	37.3	0.00	
Morey	55	7	29.8	0.35	4.0
Palisade	69	1	33.4	0.20	2.0
Palmetto	57	5	30.8	0.20	2.0
Potts	52	− 2	30.0	0.27	1.0
Nevada—Cont'd.					
Reno State University	68	12	36.4	0.20	T.
Rioville	76	21	46.7	0.44	
Sodaville	62	8	33.6	T.	T.
Tecoma	.....	.....	.....	T.	T.
Toano	.....	.....	.....	0.64	5.0
Wabuska	65	.....	.....	0.00	
Wadsworth	67	4	35.0	0.15	
Wells*[1]	54	1	29.8	0.20	2.0
Wood	59	3	29.7	1.75	.....
New Hampshire.					
Alstead	43	−17	20.6	6.76	30.5
Berlin Mills	43	−25	16.8	3.30	23.7
Bethlehem	45	−21	17.9	2.76	17.5
Brookline*[1]	46	−26	22.9	4.50	24.2
Chatham	48	−26	17.6	3.40	29.4
Concord	47	−15	20.9	6.14	28.2
Durham	53	−22	25.0	5.87	22.0
Franklin Falls	47	−14	20.7	6.12	34.3
Grafton	45	−17	18.5	5.28	32.0
Hanover	46	−21	18.7	4.29	28.2
Keene	48	−22	20.6	5.55	26.8
Littleton	40	−23	16.2	2.03	21.0
Manchester	.....	.....	.....	5.45	.....
Nashua	48	−14	22.6	6.16	26.5
Newton	53	−16	23.6	4.48	26.0
North Stratford	.....	.....	.....	2.65	.....
Peterboro	47	−20	20.8	7.09	27.5
Plymouth	45	−14	19.4	5.22	34.8
Sanbornton	46	−17	19.2	5.43	27.0
Sewalls Falls	.....	.....	.....	5.52	25.7
Stratford	42	−24	14.6	3.63	23.6
West Stewartstown	.....	.....	.....	3.19	21.9
New Jersey.					
Asbury Park	55	10	34.9	8.71	3.5
Barnegat	61	8	34.8	8.93	T.
Bayonne	57	8	31.4	6.88	11.8
Belvidere	50	3	27.6	8.99	17.5
Bergen Point	57	7	31.2	7.75	15.3
Beverly	60	10	32.6	6.70	8.8
Blairstown	49	− 4	26.2	6.65	11.0
Bridgeton	58	15	35.1	6.29	2.0
Camden	58	16	33.5	7.29	4.5
Canton	.....	.....	.....	5.83	
Cape May C. H.	60	13	36.0	6.34	T.
Charlotteburg	54	− 5	28.0	6.85	15.0
Chester	56	2	27.2	6.15	16.0
Clayton	60	12	33.0	6.11	2.5
College Farm	59	8	30.6	6.83	8.0
Culvers Lake	.....	.....	.....	8.01	21.1
Dover	54	0	27.4	7.79	18.0
Egg Harbor City	61	11	34.3	7.33	2.0
Elizabeth	57	6	31.4	6.91	15.0
Englewood	58	6	32.9	6.93	11.0
Flemington	58	4	30.0	5.85	7.5
Freehold	58	6	30.8	7.80	.....
Friesburg	58	10	33.8	5.98	2.6
Hanover	56	0	28.5	7.95	16.5
Hightstown	60	11	31.8	7.28	7.5
Imlaystown	59	10	32.4	6.39	4.5
Indian Mills	62	8	34.0	7.84	3.5
Lakewood	59	10	33.8	7.44	2.2
Lambertville	58	9	30.6	7.39	10.8
Layton	51	−11	23.8	7.06	23.5
Moorestown	60	12	32.9	7.34	6.4
Mount Pleasant	.....	.....	.....	6.40	0.2
Newark	56	6	30.3	7.37	17.8
New Brunswick	58	8	31.2	7.76	9.3
New Egypt	.....	.....	.....	5.89	4.0
Newton	51	0	25.4	6.87	24.0
Oceanic	58	10	33.7	7.55	8.0
Paterson	54	8	31.8	8.33	22.2
Pemberton	60	9	32.7	6.78	4.7
Piscataway	.....	.....	.....	6.67	8.5
Plainfield	58	6	30.0	7.60	12.8
Rancocas	.....	.....	.....	6.94	5.0
Ringwood	55	− 8	28.0	5.57	14.0
Rivervale	55	− 9	28.2	8.16	32.0
Roseland	.....	.....	.....	7.45	8.0
Salem	58	13	34.0	7.11	3.7
Somerville	58	5	29.7	7.71	13.0
South Orange	55	5	29.7	7.46	16.0
Sussex	49	− 4	26.3	8.11	31.5
Three Bridges	.....	.....	.....	7.26	10.5
Toms River	61	7	33.2	7.51	1.6
Trenton	58	12	35.6	4.86	7.0
Tuckerton	61	8	34.5	8.19	0.5
Vineland	60	13	34.0	6.85	2.8
Woodbine	60	10	34.4	6.69	1.0
Woodstown	.....	.....	.....	6.55	3.0
New Mexico.					
Alamagordo	67	13	41.7	0.60	T.
Albert	74	10	38.9	0.75	6.0
Albuquerque	59	12	34.4	0.84	
Alma	70	10	40.1	1.61	
Arabella	79	10	42.5	0.51	1.3
Bellranch	.....	.....	.....	0.53	4.0
Bluewater	56	− 7	24.7	0.60	5.0
Cambray	.....	.....	.....	1.45	

TABLE II.—*Climatological 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.
New Mexico—Cont'd.					
Carlsbad	82	17	45.6	0.68	
Cloudcroft	50	0	29.7	2.00	15.0
Deming				1.30	T.
Dorsey	65	1	32.6	0.80	9.0
East View	57	−5	30.7	2.77	11.0
Espanola	58	−1	28.6	0.30	4.0
Folsom	63	−4	31.0	0.63	7.5
Fort Bayard	64	16	39.9	3.00	0.6
Fort Stanton	65	9	36.6	0.57	5.7
Fort Union	73	−6	35.0	0.84	9.5
Fort Wingate	62	0	33.9	1.22	9.2
Gage				1.30	T.
Gallinas Spring	69	−6	35.0	0.67	10.0
Las Vegas	70	−9	32.7	0.93	12.0
Las Vegas Hot Springs	68	2	35.2	1.20	11.8
Lordsburg				1.12	T.
Mesilla Park	70	16	42.3	0.99	T.
Olio	59	5	28.6	0.12	1.2
Raton	65	6	32.8	0.22	2.2
Roswell	72	12	42.0	0.50	T.
San Marcial	65[d]	13[d]	38.3[d]	T.	
Strauss[j]	73	30	48.0	1.50	T.
Taos	60	−9	25.9	0.85	10.0
Winsors Ranch	59	−8	28.6	1.85	14.0
New York.					
Adams				3.16	31.5
Addison	55	−4	26.7	2.50	16.0
Adirondack Lodge	40	−26	17.0	3.73	14.0
Akron				2.48	
Alden	51	−5	26.6	3.33	21.6
Amsterdam				7.15	43.0
Angelica	50	−11	24.6	1.95	19.5
Appleton	54	4	27.6	1.61	12.0
Arcade	50	−16	22.2	2.63	26.3
Athens	49	−10	23.3	6.29	35.9
Atlanta	51	−18	23.2	2.59	18.5
Auburn	50	−7	25.4	2.95	33.0
Avon	52	3	25.7	1.41	
Axton	39	−30	15.6	2.96	13.5
Baldwinsville	49	−8	24.8	4.32	30.5
Bedford	55	−3	27.6	5.30	
Blue Mountain Lake				3.45	24.0
Bolivar	49	−7	23.0	3.08	25.3
Bouckville	46	−16	21.6	5.37	39.5
Boyds Corner				7.59	
Brockport	49	2	25.2	3.25	29.0
Caldwell	48	−14	21.1	6.01	31.4
Canaan Four Corners	47	−17	21.3	3.40	27.5
Canajoharie	50	−16	20.8	5.43	38.9
Canton	45	−25	18.6	2.31	14.8
Carmel	48	−9	26.4	7.30	26.5
Carvers Falls	47	−25	17.9	3.51	14.0
Cedarhill	49	−10	22.6	3.58	26.5
Cooperstown	47	−13	21.4	4.30	25.0
Cortland	50	−8	24.6	4.78	
Cutchogue	53	2	32.2	7.52	14.0
Dekalb Junction				3.90	19.5
Easton				4.23	29.0
Elba	46	−5	24.0	3.53	22.0
Elmira	53	4	27.2	1.96	15.0
Fayetteville	52	−13	25.2	3.13	25.0
Franklinville	53	−14	23.4	2.75	17.9
Gansevoort				6.65	35.5
Glens Falls	48	−15	21.4	5.83	28.2
Gloversville	46	−20	20.2	7.01	49.5
Greenwich	46	−26	20.0	4.59	17.3
Griffin Corners	49[h]	−12	21.8[d]	5.03	30.6
Harkness	44	−17	19.0	1.46	15.0
Haskinville				1.90	14.0
Hemlock	50	−6	26.8	1.75	19.5
Honeymead Brook	51	−12	22.8	5.80	21.0
Indian Lake	45	−22	17.8	3.55	28.5
Ithaca	52	−1	25.2	4.30	44.9
Jamestown	54	−6	25.0	3.62	24.4
Keene Valley	45	−20	18.9	3.41	14.3
King Ferry				3.23	40.5
Littlefalls, City Res.	48	−18	20.7	3.47	31.5
Lockport	50	4	26.9	1.97	14.6
Lowville	44	−25	18.4	3.73	20.0
Lyons	52[e]	−8[e]	26.0[e]	3.82	26.5
Middletown	59	−2	26.0	6.48	28.6
Mohonk Lake	47	−7	22.2	6.86	35.0
Newark Valley				3.77	21.0
New Lisbon	47	−19	20.0	5.55	38.8
North Hammond				2.25	13.1
Number Four	44	−28	19.4	5.40	35.3
Nunda	53	−8	26.6	2.51	18.7
Ogdensburg	46	−20	18.3	2.16	
Old Chatham				5.32	26.0
Oneonta	49	−12	23.5	4.61	31.0
Otto	49	−20	22.8	2.24	
Oxford	48	−15	23.0	6.11	39.8
Palermo				5.90	44.0
Penn Yan	49	0	25.0	1.55	13.3
Perry City	50	−5	23.2	3.69	28.2
Plattsburg	45	−15	20.0	2.50	5.0
Port Jervis	49	−7	24.6	6.29	28.0
Primrose	56	0	28.9	6.72	16.7
New York—Cont'd.					
Redhook				7.72	
Richmondville	48	−16	22.0	4.45	34.0
Ridgeway	50	2	26.5	3.15	24.0
Rome	48	−19	23.4	4.68	25.4
Romulus	55	−3	25.4	4.68	29.0
Salisbury Mills				7.88	
Saranac Lake	45	−23	17.5	2.73	11.7
Saratoga Springs	47	−28	20.4	4.51	32.5
Setauket	57	3	32.6	7.46	11.0
Shortsville	54	−1	25.2	3.10	23.0
Skaneateles				3.63	
Southampton	54	3	32.9	7.47	8.0
South Canisteo	54	−11	24.4	3.05	23.0
Southeast Reservoir				7.34	
South Kortright	52	−20	21.8	4.11	26.5
South Schroon	44	−21	18.5	4.09	24.2
Speer Falls	48	−16	20.4	6.11	
Straits Corners	55[e]	−3[f]	23.0[f]	2.60	21.0
Ticonderoga	47	−17	21.9	1.67	
Volusia	50	5	24.8	3.33	
Walton	50	−13	23.0	4.20	42.2
Wappinger Falls	48	−14	23.2	9.25	45.0
Warwick				6.20	
Watertown	45	−22	21.6	2.81	24.0
Waverly	52	−9	24.9	3.19	26.8
Wedgwood	52	−1	23.4	3.25	25.7
Wells	49	−28	19.9	7.20	40.1
West Berne	51	−21	20.5	4.36	37.0
Westfield *b*	53	7	26.8	2.83	
Westfield *c*				2.05	
Windham	53	−12	24.3	5.75	37.8
Wolcott	51	−9	24.2	5.15	34.0
Youngstown				1.66	9.5
North Carolina.					
Brevard	69	8	38.0	7.00	T.
Brewers	72	14	38.8	5.22	
Bryson City				4.13	T.
Chapelhill	69	14	40.6	4.88	
Cranberry	55	5	35.2	3.75	3.2
Currituck				3.19	
Edenton	70	20	45.6	1.78	T.
Fayetteville	71	16	44.2	3.78	
Goldsboro	70	16	43.3	2.98	T.
Graham				4.33	
Greensboro	65	15	39.8	3.38	
Henderson	67	16	42.1	3.15	T.
Hendersonville	71	10	40.7	5.65	
Henrietta	66	14	41.8	4.45	
Highlands	59	0	33.6	7.35	2.0
Horse Cove	63	8	39.0	8.84	0.5
Hot Springs	65	12	41.2		2.0
Kinston	71	16	45.5	1.82	T.
Kittyhawk	68	22	45.3	5.13	
Lexington	69	14	42.0	4.00	
Linville	56	0	32.3	3.93	3.0
Littleton	68	15	39.8	3.29	0.5
Louisburg	68[j]	16[g]	41.4[h]	2.52	0.5
Lumberton	69	18	44.6	3.28	
Marion	67[c]	13[c]	39.9[c]	7.23	T.
Mocksville	67	11	37.4	4.03	
Moncure	70	11	42.0	4.84	
Monroe	69	11	42.4	3.13	
Morganton	67	13	40.6	4.26	
Mountairy	64	16	38.2	4.16	T.
Murphy				4.78	T.
Newbern	76	16	46.2	4.52	
Patterson *1	60	13	34.8	4.59	0.2
Pittsboro	68	13	43.6	2.75	
Reidsville	68	14	40.0	4.49	
Rockingham	73	16	44.6	2.74	
Roxboro	66	15	40.2	3.36	
Salem	64	17	38.9	4.80	
Salisbury				5.53	
Saxon	64	8	38.8	4.07	
Selma	70	15	42.5	3.35	
Settle	68	7	41.2	4.31	T.
Sloan	76	16	46.5	3.51	
Soapstone Mount	67	10	39.8	3.70	T.
Southern Pines *a*	70	15	44.0	2.97	
Southern Pines *b*	69	15	44.4	3.10	
Southport	69	17	50.5	6.38	
Springhope *1	68	18	42.9	2.45	T.
Statesville	67	9	38.6	4.11	T.
Tarboro	72[c]	18[c]	42.4[c]	2.18	T.
Washington	74	25	46.2	1.95	T.
Waynesville	65	12	41.9	2.52	T.
Weldon *a*	67	19	40.2	3.76	
Weldon *b*				3.54	
North Dakota.					
Amenia	40[e]	−28[e]	8.2[e]	0.48	4.8
Ashley	38	−25	8.1	0.30	3.0
Berlin	41	−30	7.7	0.80	8.0
Bottineau	29	−30	2.4	0.20	2.0
Buxton	37	−26	8.4	0.59	5.9
Churchs Ferry	36	−30	4.0	0.43	4.3
Coalharbor	35	−24	7.4	0.76	7.6
Devils Lake	35	−29	4.6	0.10	1.0
Donnybrook				0.60	6.0
North Dakota—Cont'd.					
Dunseith	32	−33	3.0	0.20	2.0
Edgeley	48	−24	11.3	0.87	6.3
Ellendale	37	−28	10.6	1.10	11.0
Fargo	35	−31	7.6	0.27	2.7
Forman	34	−29	6.7	0.45	4.5
Fort Yates	48	−18	13.6		
Fullerton	36	−30	8.8	1.10	11.0
Gallatin	36	−28	8.5	0.28	2.8
Glenullin	43	−19	12.8	0.10	1.1
Grafton	40[d]	−24	6.6[e]	0.30	3.0
Hannaford	38	−31	7.6	0.41	4.1
Jamestown	49	−24	7.0	0.40	4.0
Larimore	39	−24	6.8	0.30	3.0
McKinney	37	−35	1.0	0.90	9.0
Mayville	38	−25	8.0	0.47	4.7
Medora	43[d]	−19[d]	12.2[d]	0.30	3.0
Melville	45	−29	9.9	0.10	1.0
Milton	31	−31	3.2	0.58	5.8
Minnewaukon	33	−29	7.5	T.	T.
Minot	37	−27	11.0	0.50	5.0
Minto	40	−25	6.0	0.18	1.8
Napoleon	40	−25	9.8	0.25	2.5
New England	42	−24	11.2	0.53	5.3
Oakdale	49	−22	12.4	1.10	11.0
Pembina	36	−31	3.8	0.50	5.0
Portal	32	−32	1.6	1.55	15.5
Power	38	−28	8.8	0.40	4.0
Steele	37	−27[d]	8.2	0.10	1.0
University	39[g]	−27	5.6[e]	0.46	4.6
Valley City	40[g]	−29[d]	2.0[e]	0.47	4.7
Wahpeton	38	−23	10.8	1.32	
Willow City	35	−36	1.0	0.20	2.0
Ohio.					
Akron	55	4	27.8	3.53	13.8
Atwater	50	−4	26.3	4.62	13.5
Bangorville	53	−4	27.0	4.02	7.2
Bellefontaine	50	5	27.4		
Bement				3.66	23.0
Benton Ridge	52	−1	28.0	3.13	15.3
Bethany	58	−3	32.2	3.92	4.0
Binola				2.66	14.5
Blaine				5.36	17.5
Bloomingburg				3.90	6.0
Bowling Green	50	0	26.7	3.33	6.5
Bucyrus	50	0	27.8	2.10	6.0
Cambridge	59	−5	31.2	4.87	14.0
Camp Dennison	59	−8	32.8	5.27	7.4
Canal Dover	56	−6	29.2	4.09	9.5
Canton	54	1	28.1	3.85	13.6
Cardington	53	−9	28.4	3.18	8.0
Cedarville				3.86	7.0
Centerburg				5.10	12.5
Circleville	58	8	32.2	4.56	10.8
Clarington					2.0
Clarksville	58	−6	32.0	4.27	9.2
Cleveland *a*	56	6	30.0	3.26	21.0
Cleveland *b*	55	5	28.5	3.12	20.2
Clifton	60	−5	31.7	3.66	5.8
Coalton	59	5	33.6	4.73	8.0
Colebrook	53	−2	27.6	3.50	15.0
Coolville				4.77	8.0
Coshocton				4.52	14.2
Dayton *a*				2.77	5.4
Dayton *b*	56	−5	30.6	3.95	4.9
Defiance	49	2	27.2	3.10	13.1
Delaware	54	−9	28.7	3.11	6.7
Demos	56	6	30.6	5.19	10.0
Dunham				4.39	3.3
Dunkirk				2.15	
Elyria	57	1	28.4	2.39	
Findlay	53	1	28.0	2.64	9.5
Fort Recovery				2.99	3.9
Frankfort	57	2	31.8	4.11	6.2
Fremont	52	4	28.6	3.61	14.8
Galigher				4.78	
Garrettsville	54	−11	27.8	4.32	18.8
Granville	56[e]	−10[e]	29.2[e]	4.01	10.5
Gratiot	56	−7	30.0	4.76	8.7
Green	61	11	34.8	5.60	1.0
Greenfield	58	5	31.0	5.05	9.0
Greenhill	55	−8	27.2	3.87	10.5
Greenville	51	4	29.6	3.47	3.5
Hanging Rock	62	12	36.5	6.38	
Hedges	49	2	26.6	2.97	5.6
Hillhouse	52	3	26.8	3.64	22.0
Hiram	51	1	26.0	4.40	17.0
Hudson	53	−3	25.6	4.26	15.0
Jacksonboro	55	0	29.4	4.51	7.5
Killbuck[d]	53	0	27.2		
Lancaster	59	1	30.8	4.22	6.2
Lima	49	4	26.8	3.49	14.0
McConnelsville	60	1	31.6	4.86	10.5
McCormick				5.48	
Manara	55	−8	29.8	4.05	8.0
Mansfield				3.56	10.3
Marietta	60	11	34.7	5.48	5.5
Marion	52	0	28.2	3.15	8.0
Medina	53	−5	27.7	3.58	14.0

TABLE II.—*Climatological 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.*
Milfordton	54	—10	27.0	4.16	.....
Milligan	60	— 2	31.4	5.52	6.0
Millport	55	— 9	27.2	4.46	12.5
Montpelier	45	3	25.5	3.57	11.5
Napoleon	52	3	27.8	3.52	17.0
New Alexandria	58	5	30.6	5.00	17.0
New Berlin	53	— 2	27.4	3.82	8.5
New Bremen	49	— 1	26.1	2.84	.....
New Lexington	.....	.....	.....	5.01	6.0
New Richmond	62	2	33.6	5.10	5.0
New Waterford	55	— 2	28.6	6.11	21.5
North Lewisburg	52	— 6	28.3	3.80	6.0
North Royalton[c]	53	4	27.0	.....	.....
Norwalk	48	5	27.2	3.64	14.5
Oberlin	56	— 2	29.0	3.17	10.0
Ohio State University	61	— 7	29.5	3.58	9.2
Orangeville	55	—11	27.0	3.55	21.0
Ottawa	49	2	26.7	2.80	15.8
Pataskala	55	— 9	29.4	4.83	10.8
Philo	58	6	31.0	4.99	9.1
Plattsburg	54	0	29.4	3.70	8.0
Pomeroy	61	14	35.5	3.26	4.2
Portsmouth *a*	.....	.....	.....	7.19	4.0
Portsmouth *b*	63	10	36.2	5.27	4.5
Pulse	.....	.....	.....	5.17	9.0
Redlion	.....	.....	.....	3.52	.....
Richfield	.....	.....	.....	3.98	10.5
Richwood	55	— 4	29.2	3.06	3.2
Ripley	63	3	32.6	5.48	3.2
Rittman	53	— 8	28.0	3.63	9.5
Rockyridge	50	3	27.4	4.05	14.6
Shenandoah	53	1	27.2	3.23	4.7
Sidney	51	— 1	29.1	3.46	10.6
Somerset	59	7	33.2	3.11	12.6
Springfield	.....	.....	.....	3.66	.....
Strongsville	.....	.....	.....	2.81	10.0
Swanton	.....	.....	.....	2.76	6.0
Thurman	62	9	34.6	6.15	.....
Tiffin	48	5	28.2	2.87	13.0
Upper Sandusky[c]	54	1	29.8	.....	.....
Urbana	51	— 5	26.2	3.40	6.6
Vanwert	54	4	27.3	3.38	12.0
Vickery	52	3	27.8	2.35	9.8
Wadsworth	.....	.....	.....	3.38	.....
Walnut	.....	.....	.....	3.78	8.7
Warren	60	4	28.5	4.46	21.8
Warsaw	55	4	29.6	4.32	10.0
Wauseon	50	— 1	26.3	3.05	13.8
Waverly	61	4	34.0	5.00	7.1
Waynesville	57	— 6	29.6	3.84	5.5
Wellington	55	— 2	28.4	2.91	13.0
Williamstown	.....	.....	.....	2.35	.....
Willoughby	.....	.....	.....	3.48	15.0
Wooster	60	— 5	28.5	4.07	12.0
Zanesville	.....	.....	.....	4.78	11.0
Oklahoma.					
Burnett	71	14	38.4	2.06	2.6
Chandler	68	12	35.1	2.34	1.0
Cleo	70	12	35.6	T.	T.
Clifton	71	13	37.3	2.10	3.0
Cloud Chief	63	14	36.4	1.32	1.2
Fort Reno	68	16	35.8	2.55	2.5
Fort Sill	73	15	38.3	1.87	1.8
Guthrie	69	11	37.4	1.89	4.4
Hennessey	70	12	35.6	1.28	1.0
Jefferson	70	5	33.7	1.08	1.2
Jenkins	65	10	33.6	1.12	2.0
Kenton	71	4	35.8	0.50	5.0
Kingfisher	72	13	36.9	1.39	0.3
Newkirk	66	11	33.3	1.49	T.
Pawhuska	68	10	34.4	2.05	1.0
Perry	70	10	35.3	1.39	2.5
Sac and Fox Agency	70	19	36.4	2.05	2.0
Shawnee	70[g]	17[g]	36.2[g]	1.75	0.5
Stillwater	67	11	36.2	1.63	0.9
Taloga	60	12	36.0	0.34	
Temple	74	16	40.4	1.16	1.5
Ural	.....	.....	.....	1.17	0.7
Watonga	70	19	37.6	.....	T.
Weatherford	54[j]	15[j]	34.2[j]	1.34	1.8
Waukomis	71	12	36.0	1.25	T.
Oregon.					
Albany *b*	.....	.....	.....	10.48	
Alpha	59	22	41.4	20.56	
Arlington	60	24	34.8	1.37	5.0
Ashland	62	21	39.2	2.95	
Aurora*[1]	57	25	40.6	6.69	
Aurora (near)	55	21	39.3	10.57	T.
Bay City	59	28	42.8	26.47	
Bend	55	4	31.4	2.83	8.0
Beulah	48	— 3	25.9	2.29	18.2
Blackbutte	55	23	38.0	10.30	
Blalock	57	26	35.3	2.68	3.0
Brownsville*[1]	56	28	43.9	9.76	
Bullrun	.....	.....	.....	14.13	0.5
Cascade Locks	54	27	35.0	19.85	21.0
Comstock*[1]	52	26	39.8	10.33	
Coquille	.....	.....	.....	17.39	
Oregon—Cont'd.	°	°	°	*Ins.*	*Ins.*
Corvallis	55	24	40.2	9.92	
Dayville	61	15	38.0	2.32	4.5
Doraville	49	26	37.2	15.37	5.0
Ella	.....	.....	.....	1.60	10.0
Eugene	60	26	41.8	9.84	
Fairview	63	25	47.2	16.06	
Falls City	53	20	38.8	22.02	
Forestgrove	54	21	39.0	12.92	T.
Gardiner	68	29	47.6	19.15	
Glenora	53	24	37.8	29.97	4.0
Government Camp	50[i]	14[i]	31.3[i]	13.46	67.9
Grants Pass	65	24	39.7	7.43	0.5
Grass Valley	50	— 6	28.8	2.30	9.0
Heppner	57	18	34.2	3.06	8.5
Hood River (near)	51	20	32.8	10.57	33.5
Huntington	57	6	31.0	3.41	23.0
Jacksonville	64	20	38.1	5.43	1.0
Joseph	58	3	26.1	2.65	21.5
Junction City*[1]	62	30	44.4	10.66	
Kerby	63	21	39.6	18.41	3.0
Klamath Falls	60	6	33.3	3.20	T.
Lafayette*[1]	58	22	40.8	9.21	
Lagrande	56	9	32.8	3.04	17.5
Lakeview	.....	.....	.....	2.38	2.2
Lonerock	57	11	33.1	2.56	13.5
McKenzie Bridge	51	18	34.9	15.30	5.5
McMinnville	56	23	40.0	13.08	1.0
Merlin	52	26	42.0	8.59	T.
Monmouth *b**[1]	54	28	40.2	11.15	
Monroe	58	24	40.6	15.07	
Mount Angel	58	23	39.7	10.62	
Nehalem	.....	.....	.....	25.58	
Newberg	56	20	39.3	10.94	T.
Newport	57	33	45.0	17.60	
Pendleton	58	22	35.3	1.57	
Pine	52	—15	23.8	4.91	48.0
Placer	.....	.....	.....	9.57	
Prineville	56	19	36.2	1.55	7.5
Riddles*[1]	60	28	42.4	7.42	
Salem *b*	56	19	41.3	7.49	
Sheridan*[1]	62	25	42.5	12.55	
Silverlake	54	0	32.0	2.16	3.0
Silverton*[1]	56	20	44.6	11.21	
Siskiyou*[1]	54	25	36.4	5.61	19.5
Sparta	46	8	28.2	.....	40.0
Springfield*[1]	48	29	40.2	5.60	
The Dalles	49	16	34.4	4.00	22.5
Toledo	60	29	43.9	16.54	
Umatilla	58	25	34.1	0.81	0.1
Vale	49	1	27.9	1.38	4.0
Wamic	51	10	30.4	7.27	38.2
Warm Spring	53	15	33.1	2.34	11.5
Weston	61	15	32.3	4.75	12.2
Williams	70	17	40.4	8.16	2.5
Pennsylvania.					
Aleppo	60	— 9	31.3	5.54	10.0
Altoona	53	4	28.0	5.37	.....
Athens	49	— 5	26.4	2.93	20.0
Beaver Dam	.....	.....	.....	4.29	8.1
Bellefonte	55	1	30.0	5.21	15.5
Brookville	.....	.....	.....	4.96	20.2
Browers	.....	.....	.....	7.20	.....
California	62	12	34.9	4.33	11.5
Cassandra	52	6	27.2	4.16	2.2
Centerhall	52	0	28.2	.....	13.0
Clarion	.....	.....	.....	5.99	20.0
Coatesville	60	8	31.3	7.73	10.0
Confluence	.....	.....	.....	6.23	14.8
Davis Island Dam	.....	.....	.....	3.68	9.1
Derry Station	68	4	30.7	4.86	15.5
Doylestown	.....	.....	.....	7.94	.....
Driftwood	.....	.....	.....	3.47	.....
Dushore	48	—11	23.8	4.65	27.1
Dyberry	47	—10	22.3	5.84	32.0
East Bloomsburg	.....	.....	.....	3.48	.....
East Mauch Chunk	53	2	28.1	7.90	23.0
Easton	56	7	28.0	7.22	11.8
Ellwood Junction	.....	.....	.....	4.21	17.4
Emporium	52	— 3	27.0	5.00	20.2
Ephrata	55	8	29.3	6.17	12.0
Everett	58[d]	1[d]	28.2[d]	3.83	11.0
Forks of Neshaminy	.....	.....	.....	6.69	.....
Franklin	55	— 5	25.9	3.57	13.0
Freeport	.....	.....	.....	5.78	13.6
Girardville	.....	.....	.....	7.04	27.8
Greensboro	.....	.....	.....	5.02	14.0
Hamburg	53	2	29.2	6.64	10.0
Hamlinton	.....	.....	.....	4.09	16.8
Herrs Island Dam	.....	.....	.....	4.52	9.0
Huntingdon *a*	.....	.....	.....	5.03	20.0
Huntingdon *b*	60	3	29.8	5.50	17.5
Irwin	58	7	30.2	4.38	10.1
Johnstown	55	6	30.8	6.11	21.0
Kennett Square	60	8	31.5	6.67	9.0
Lansdale	.....	.....	.....	6.45	.....
Lawrenceville	54	—12	24.2	3.21	24.2
Lebanon	52	3	28.4	7.46	12.5
Leroy	48	0	24.4	3.46	21.8
Pennsylvania—Cont'd.	°	°	°	*Ins.*	*Ins.*
Lewisburg	55	— 4	26.6	4.96	19.0
Lockhaven *a*	53	5	28.6	4.27	22.0
Lockhaven *b*	.....	.....	.....	4.40	.....
Lock No. 4	.....	.....	.....	3.96	4.2
Lycippus	51[g]	8[g]	30.6[g]	5.17	26.8
Mifflin	.....	.....	.....	4.22	.....
Oil City	.....	.....	.....	4.80	20.2
Ottsville	.....	.....	.....	7.49	.....
Parker	.....	.....	.....	5.56	16.8
Philadelphia	58	17	34.0	8.11	5.9
Pocono Lake	50	— 9	23.5	2.66	.....
Point Pleasant	.....	.....	.....	7.03	.....
Pottsville	.....	.....	.....	7.80	.....
Quakertown	57	4	29.2	8.06	14.0
Reading[2]	.....	.....	29.0	7.10	.....
Renovo *a*	53	6	28.3	4.55	22.7
Renovo *b*	.....	.....	.....	3.75	.....
Saegerstown	53	—11	26.2	4.11	23.8
St. Marys	48	— 2	23.2	.....	.....
Saltsburg	.....	.....	.....	4.69	15.4
Seisholtzville	.....	.....	.....	8.51	.....
Selinsgrove	56	0	28.4	4.26	11.0
Shawmont	.....	.....	.....	6.39	.....
Smethport	50	— 3	24.2	.....	
Smiths Corners	.....	.....	.....	6.57	.....
Somerset	55	4	26.9	6.81	22.8
South Bethlehem	52	7	29.0	8.39	19.0
South Eaton	53	1	26.9	6.09	20.0
Spring Mount	.....	.....	.....	6.35	.....
State College	52	9	27.2	4.82	13.3
Sunbury	.....	.....	.....	2.60	13.0
Towanda	48	— 6	25.8	2.95	18.0
Troutrun	.....	.....	.....	3.50	21.0
Uniontown	56	13	34.6	4.75	19.5
Warren	52	0	25.8	4.57	24.0
Wellsboro	52	— 2	27.3	5.18	25.0
Westchester	58	12	31.2	7.95	6.0
West Newton	.....	.....	.....	6.02	8.0
Wilkesbarre	59	6	29.2	4.95	27.4
Williamsport	57	9	29.0	3.74	16.5
York	66	5	30.0	6.15	14.6
Rhode Island.					
Bristol	52	— 5	30.6	6.29	21.5
Kingston	54	—12	27.2	8.03	26.0
Narragansett	54	— 5	29.4	6.37	26.5
Pawtucket	55	— 4	29.0	5.62	18.2
Providence *a*	57	— 6	30.0	6.40	23.5
Providence *c*	53	—10	27.9	6.00	23.0
South Carolina.					
Aiken	72	14	48.4	5.10	
Allendale	72	19	48.8	3.75	
Anderson	70	14	44.8	4.32	
Barksdale[1]	68	14	48.6	4.50	
Batesburg	69	11	46.1	5.34	T.
Beaufort	75	24	53.6	4.49	
Bennettsville	72	17	47.5	1.92	
Blackville	73	17	47.5	4.82	
Bowman	75	17	51.5	3.33	
Calhoun Falls	.....	.....	.....	5.82	
Camden	.....	.....	.....	4.28	
Cheraw *a*	73	17	44.6	4.57	
Cheraw *b*	.....	.....	.....	4.59	
Clarks Hill	70	15	47.4	2.87	T.
Clemson College	70	11	41.4	5.22	
Conway	72	18	47.8	6.80	
Darlington	73	16	46.3	2.58	
Duewest	66	17	46.4	5.13	
Effingham	.....	.....	.....	4.59	
Florence	72	19	46.8	4.59	
Gaffney	67	16	42.3	5.60	
Georgetown	71	20	49.6	5.60	
Gillisonville	75	11	50.4	5.35	
Greenville	68	14	40.6	6.38	
Greenwood	68	17	43.0	6.06	
Heath Springs	65	14	42.0	2.65	
Kingstree *b*	.....	.....	.....	5.71	
Liberty	69	12	42.7	5.86	T.
Little Mountain	69	15	46.2	3.29	T.
Longshore	69	15	45.2	3.60	T.
Pinopolis*[1]	70	20	52.0	4.77	
St. Stephens	.....	.....	.....	5.40	
Saluda	68[e]	16[e]	45.0[e]	2.86	T.
Santuck	70	14	44.0	3.54	
Seivern	85	11	48.6	4.48	T.
Smiths Mills	.....	.....	.....	5.25	
Society Hill	71	18	45.4	2.21	
Spartanburg	69	15	42.0	4.68	
Statesburg	73	17	48.8	2.97	
Summerville	75	18	49.9	4.22	
Temperance	71[d]	21[d]	45.8[d]	2.57	
Trenton	72[e]	16[e]	46.6[e]	4.01	T.
Trial	75	10	51.3	3.55	
Winnsboro	74	15	43.4	2.74	
Winthrop College	66	15	43.3	3.67	
Yorkville	67	18	44.8	4.44	
South Dakota.					
Aberdeen	34	—27	8.2	4.80	17.0
Academy	49	—20	15.8	2.53	26.0

TABLE II.—*Climatological 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.
South Dakota—Cont'd.					
Alexandria	45	−26	12.0	2.45	13.5
Armour	55	−24	12.5	2.75	25.0
Ashcroft	51	−18	17.8	0.25	2.5
Bowdle	51	−27	9.2	1.15	.....
Brookings	41	−28	10.6	2.52	12.0
Canton	47	−17	16.0	1.16	14.0
Centerville	.....	.....	.....	1.80	11.1
Chamberlain	44	−21	14.8	1.49	17.6
Clark	46	−29	11.9	1.50	12.5
Doland	43	−28	10.7	2.05	13.2
Elkpoint	45	−15	17.6	2.89	21.2
Fairfax	50	−18	15.6	.....	
Farmingdale	.....	.....	.....	0.43	5.5
Faulkton	46	−23	11.6	1.49	13.5
Flandreau	40	−24	11.6	1.95	12.0
Forestburg	42	−30	9.8	1.83	16.3
Fort Meade	70[k]	−12	24.6[e]	0.07	1.5
Gannvalley	41	−20	13.1	2.15	20.5
Gary	40	−26	10.4	1.77	24.0
Gettysburg	42	−19	11.4	0.84	11.6
Grand River School	53	−16	15.8	0.06	1.5
Greenwood	51	−18	18.4	2.50	20.3
Highmore	.....	.....	.....	1.10	11.0
Hotch City	41	−18	13.8	1.12	17.5
Howell	43	−27	11.6	1.52	8.1
Ipswich	47	−31	10.5	1.10	8.0
Kimball	45	−24	14.6	2.06	17.5
Leola	40	−35	8.4	1.00	10.0
Leslie	54	−20	13.4	1.97	14.2
Marion	47	−20	15.0	2.10	10.0
Mellette	41	−30	11.7	1.11	9.0
Menno	59	−19	13.6	1.99	13.8
Millbank	50	−30	13.3	1.50	11.0
Mitchell	46	−25	13.1	2.12	14.5
Oelrichs	45	− 9	20.2	1.41	14.1
Pedro	54	−20	13.9	1.33	15.0
Pine Ridge	50[m]	− 6	21.8[g]	0.88	17.5
Plankinton	44	−23	14.8	1.68	16.0
Ramsey	42	−22	11.4	1.70	9.5
Redfield	41	−30	10.1	1.27	9.0
Rosebud	48	− 9	18.4	1.90	21.8
Silver City	.....	.....	.....	1.20	12.0
Sioux Falls	43	−20	13.8	1.66	12.0
Sisseton Agency	39	−26	11.6	1.68	16.8
Spearfish	61	− 8	25.6	1.87	20.0
Tyndall	50	−25	15.8	1.22	.....
Vermilion	40	−18	15.6	1.71	15.0
Watertown	42	−26	9.8	1.05	10.5
Waubay	35	−26	9.4	1.15	8.1
Wentworth	40	−24	10.6	2.19	15.7
Wolsey	.....	.....	.....	2.07	18.2
Tennessee.					
Andersonville	62	14	39.0	4.92	T.
Ashwood	67	10	40.0	4.71	
Benton	70	15	41.6	3.97	T.
Bluff City	.....	.....	.....	2.64	T.
Bolivar	65	12	40.2	10.41	
Bristol	60	11	36.2	2.11	T.
Byrdstown	64	13	38.4	6.34	1.2
Carthage	65	15	38.6	6.05	0.3
Charleston	.....	.....	.....	4.58	T.
Clarksville	66	11	38.8	9.45	1.0
Clinton	.....	.....	.....	4.32	T.
Covington	64	13	41.4	6.40	
Decatur	68	12	40.9	6.44	0.5
Dickson	66	9	39.6	10.10	.....
Dover	65	12	38.3	7.54	
Elizabethton	66	13	38.0	1.57	0.1
Erasmus	63	8	37.4	5.33	1.4
Florence	66	10	40.0	5.53	T.
Franklin	65	11	40.0	7.53	2.5
Grace *[1]	70	16	40.8	5.70	
Greeneville	64	11	38.8	1.80	0.1
Hohenwald	67	5	38.6	9.49	3.5
Iron City	67	7	40.0	7.71	
Isabella	66	13	39.2	4.73	T.
Jackson	68	10	41.5	9.06	
Johnsonville	63[i]	8[i]	39.0[i]	9.96	T.
Jonesboro *[1]	61	19	40.5	2.12	3.1
Kenton *[5]	68	12	38.4	10.53	T.
Kingston	.....	.....	.....	5.08	
Leadvale	.....	.....	.....	2.26	T.
Lebanon	67	15	40.6	3.52	
Lewisburg	68	9	39.9	5.22	0.5
Liberty	65[e]	5[e]	39.6[e]	5.27	T.
Lynnville	65	10	40.6	5.28	T.
McKenzie	65	10	39.0	9.40	T.
McMinnville	67	14	39.5	4.62	0.4
Maryville	66	14	41.2	4.12	T.
Newport	63	15	39.8	2.19	T.
Nunnelly	67	6	38.8	7.35	
Oakhill	63	11	38.8	2.80	
Palmetto	72	9	40.7	4.68	
Pope	72	5	40.6	9.90	T.
Rogersville	64	15	39.3	2.66	T.
Rugby	62	10	36.2	6.52	T.
Savannah	68	10	41.6	10.44	T.
Sewanee	63	9	37.8	3.57	T.
Tennessee—Cont'd.					
Silverlake	57	9	35.7	2.91	15.3
Springdale	73	15	40.4	3.52	T.
Springville	66	11	40.0	8.91	T.
Tazewell	.....	.....	.....	4.71	1.5
Tellico Plains	69	14	43.0	3.92	T.
Tracy City	63	10	37.2	4.71	0.8
Trenton	67	12	40.4	10.19	T.
Union City	65	11	39.4	8.48	T.
Waynesboro	66	6	39.6	7.00	1.0
Wildersville	67	13	41.7	9.64	
Yukon	66[c]	9[c]	41.1[c]	5.91	
Texas.					
Albany	70	26	43.7	1.55	T.
Alvin	.....	.....	.....	3.42	
Anna	73	20	43.4	1.60	T.
Anson	.....	.....	.....	0.55	T.
Arthur	.....	.....	.....	3.10	
Austin *a*	78	30	50.6	4.20	
Ballinger	72	24	45.7	0.24	0.3
Bastrop [k]	78	31	54.6	3.55	
Beaumont	78	32	53.5	2.43	
Beeville	81	34	57.3	2.68	
Bigspring	75	19	43.7	0.34	T.
Blanco	76	25	50.2	2.36	
Boerne *[1]	71	28	27.7	3.65	
Booth	.....	.....	.....	2.69	
Bowie	72	17	41.7	1.60	0.8
Brazoria	81	32	57.4	3.46	
Brenham	76	31	52.8	1.70	
Brighton	77	32	59.7	3.42	
Burnet	75	25	47.6	2.24	
Camp Eagle Pass	80	27	55.4	3.00	
Childress	74	19	40.0	0.76	2.0
Coleman	81	24	47.8	0.65	T.
College Station	78	26	52.0	1.15	
Colorado	76	17	42.6	0.17	T.
Columbia	79	32	56.8	3.69	
Comanche	77[d]	22[d]	47.0[d]	0.66	T.
Corsicana	75	26	49.6	2.30	T.
Cotulla	76	33	55.0	2.25	
Cuero	78	34	57.1	1.26	
Dallas	77	23	44.8	1.82	1.2
Danevang	80	31	56.0	5.55	
Dublin	74	24	44.3	0.70	
Duval	83	31	51.8	3.57	
Estelle	76	22	45.0	1.54	2.0
Fort Clark	72	27	48.0	2.75	
Fort Davis	71	18	45.2	T.	T.
Fort McIntosh	80	36	59.2	1.84	
Fort Ringgold	86	37	62.8	0.00	
Fredericksburg	75[g]	27[f]	48.6[f]	1.77	
Gainesville	69	19	41.2	2.14	1.0
Gatesville	75	26	49.4	1.62	T.
Georgetown	80	26	52.5	3.11	
Grapevine	75	21	45.0	1.35	1.5
Greenville	74	23[d]	42.7	2.90	T.
Hale Center	72	19	45.2	1.25	0.2
Hallettsville	78	32	55.8	2.41	
Haskell	77	21	42.6	0.82	0.5
Henrietta	75	17	41.5	1.24	0.2
Hewitt	.....	.....	.....	1.77	
Hondo	.....	.....	.....	3.39	
Houston	79	33	53.9	2.38	
Huntsville	75	30	51.2	2.15	
Ira	78	17	45.0	0.48	2.0
Jacksonville	72	26	50.4	2.01	T.
Jasper	80	29	57.0	3.64	
Junction	.....	.....	.....	2.42	
Kaufman	73	24	46.8	2.79	1.0
Kent	.....	.....	.....	0.40	1.5
Kerrville	85	24	51.4	2.80	
Kopperl	.....	.....	.....	1.02	
Lampasas	77	24	47.2	1.88	
Lapara	.....	.....	.....	0.45	
Laureles Ranch	.....	.....	.....	3.33	
Llano	76	30	49.0	2.50	
Longview	71	27	47.1	4.00	0.5
Luling	77	30	51.2	3.15	
Mann	76	26	49.1	2.43	T.
Marlin	76	29	48.6	2.98	
Menardville	76	19	45.9	1.07	
Mount Blanco	73	11	40.3	0.20	2.0
Nacogdoches	77	25	48.5	2.04	T.
New Braunfels	75[d]	31[d]	54.0[d]	2.31	
Panter	.....	.....	.....	1.38	
Paris *a*	75	21	44.8	3.45	
Pearsall	75	30	54.2	2.55	
Rhineland	75	14	43.3	0.80	T.
Rockisland	78	33	54.0	2.55	
Rockport	72	43	59.8	2.65	
Runge	79	31	54.1	4.31	
Sanderson	66	25	46.6	T.	
San Marcos	75	28	52.6	0.00	
San Saba	75	23	48.8	1.31	
Santa Gertrude Ranch	.....	.....	.....	3.19	
Shaeffer Ranch	88	32	57.8	1.84	
Sherman	71	23	44.2	1.82	T.
Sonora	74	23	47.6	0.23	T.
Texas—Cont'd.					
Sugarland	83	30	56.2	2.86	
Sulphur Springs	72	24	45.6	2.98	0.2
Temple *a*	74	28	46.0	3.22	
Temple *b*	74	28	46.2	2.95	
Trinity	77	27	52.6	1.81	
Tulia	75	12	38.2	0.70	2.0
Tyler	73	27	47.4	2.99	
Victoria	80[h]	35[h]	58.0[h]	4.10	
Waco	78	29	49.4	1.95	
Weatherford	74	22	44.0	1.07	1.0
Wichita Falls	.....	.....	.....	1.45	
Utah.					
Alpine	.....	.....	.....	0.80	3.0
Aneth	55	− 2	26.0	1.09	.....
Blackrock	54	− 3	28.2	0.45	5.0
Bluecreek *[1]	55	7	32.6	1.42	4.0
Callao	66	0	32.4	0.28	3.0
Castledale	48	− 8	21.6	0.10	.....
Cisco	48	0	23.0	0.40	4.0
Corinne	52	10	30.9	1.97	6.0
Coyoto	48	−20	18.5	0.80	8.0
Deseret	60	2	30.0	0.20	2.0
Emery	45	3	24.6	T.	
Farmington	57	12	31.4	1.92	19.1
Fillmore	69	9	33.6	0.46	.....
Frisco	57	− 8	31.7	0.39	5.0
Giles	53	−11	19.0	0.29	2.9
Government Creek	53	5	30.2	0.72	6.5
Green River	51	−15	17.6	0.52	5.2
Grover	53	− 2	25.4	0.30	3.0
Heber	50	− 6	24.4	1.04	.....
Henefer	54	−15	22.4	1.61	11.2
Hite	66	7	33.2	0.20	T.
Huntsville	.....	.....	.....	2.07	13.0
Kanab	.....	.....	.....	1.37	.....
Kelton	43	2	23.9	0.30	3.0
La Sal	55	0	26.6	.....	.....
Levan	50	3	26.	1.72	13.5
Los	47	−25[e]	14.0[e]	0.65	6.0
Manti	54	0	25.5	0.86	7.0
Marysvale	56	− 8	25.6	0.63	6.5
Meadowville	48	3	24.6	1.30	5.0
Millville	.....	.....	.....	1.58	.....
Minersville	59	7	30.6	.....	
Moab	53	3	28.7	0.40	3.0
Monticello	39	5	22.6	0.49	6.3
Mount Nebo *j*	58	7	27.0	1.25	.....
Mount Pleasant	48[i]	3[i]	24.9[i]	1.32	10.0
Ogden *a*	53	9	31.2	1.96	6.5
Parowan	56	2	29.0	1.03	10.3
Pinto	59[e]	− 9[e]	26.4[e]	0.70	.....
Plateau	52	−20	22.2	1.35	19.9
Provo	60	7	32.8	1.28	.....
Ranch	55	−10	23.3	1.66	16.6
Richfield	59	2	29.4	0.47	4.7
St. George	64	8	36.5	0.39	T.
Scipio	59	0	30.9	0.47	T.
Snowville	50	− 5	25.4	0.90	.....
Thistle	53	− 3	26.6	1.45	8.0
Tooele	57	12	32.2	0.58	.....
Tropic	49	−13	20.8	0.46	11.0
Vernal	50	− 9	20.0	0.97	4.8
Wellington	49	− 7	24.2	0.25	2.5
Woodruff	57	−20	16.5	0.20	2.0
Vermont.					
Bellows Falls	.....	.....	.....	5.38	22.0
Burlington	42	−10	22.2	1.62	8.5
Chelsea	41	−20	16.3	3.87	28.0
Cornwall	48	−16	21.4	1.44	9.0
Enosburg Falls	45	−20	15.8	2.40	20.0
Hartland	48	−20	18.6	5.48	34.0
Jacksonville	40	−24	20.6	2.82	.....
Manchester	45	−22	20.6	5.30	26.6
Morrisville	44	−22	16.9	6.71	24.4
Newport	43	−26	14.9	2.18	18.1
St. Johnsbury	46	−22	16.8	2.49	27.5
Wells	46	−25	19.2	3.80	16.5
Wells River	.....	.....	.....	3.10	21.0
White River Junction	.....	.....	.....	4.45	28.0
Woodstock	48	−16	19.6	4.99	40.5
Virginia.					
Alexandria	58	16	35.2	5.08	1.9
Ashland	65	17	36.6	5.74	0.2
Barboursville	69[g]	15[g]	41.4[g]	4.25	2.0
Bedford	65	12	38.1	2.86	T.
Blacksburg	71	9	35.2	2.43	0.5
Bluemont	58	14	34.5	4.20	5.0
Boykins	72	20	45.2	3.00	
Bonair	67	16	38.0	4.80	0.2
Buckingham	70	10	39.0	2.86	T.
Burkes Garden	54	3	32.2	4.15	3.0
Callaville	66	18	46.4	4.14	0.5
Charlottesville	67	16	36.9	4.20	1.5
Clarksville	.....	.....	.....	4.43	T.
Columbia	68	7	35.2	3.50	T.
Dale Enterprise	67	9	34.4	3.45	4.5
Danville	.....	.....	.....	4.14	T.
Farmville	63	16	38.8	3.90	

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

Stations.	Temperature. (Fahrenheit.) Maximum.	Minimum.	Mean.	Precipitation. Rain and melted snow.	Total depth of snow.
Virginia—Cont'd.	°	°	°	*Ins.*	*Ins.*
Fredericksburg	63	15	36.3	4.47	T.
Grahams Forge [k]	59	14	38.8	3.20	2.6
Hampton	67	21	43.2	3.21	0.5
Hot Springs [m]	58	12	36.0	3.00	4.0
La Crosse	68	13	40.8	3.20	T.
Lexington	66	14	36.8	2.71	1.8
Lincoln	56	12	33.0	4.17	2.0
Manassas	56	13	34.2	4.44	2.0
Mendota	.....	.....	.....	3.58	T.
Newport News	68	15	42.6	3.80	T.
Petersburg	68	17	40.0	3.32	T.
Radford	.....	.....	.....	2.82	3.0
Riverton	.....	.....	.....	4.39	4.0
Rockymount	58	14	35.0	5.41	T.
Saxe	65	13	38.8	3.65	T.
Shenandoah	.....	.....	.....	2.27	1.2
Speers Ferry	.....	.....	.....	3.84	T.
Spottsville	67	14	40.9	4.32	0.5
Staunton	67	15	36.8	3.58	3.0
Warsaw	65	11	37.4	4.16	1.0
Wilkerson	66	15	37.5	5.32	T.
Williamsburg	63	12	40.5	3.07	1.0
Woodstock	65	13	33.2	3.93	5.0
Wytheville	68	10	36.2	2.42	3.5
Washington.					
Aberdeen	47	29	38.0	18.95	T.
Anacortes	.....	.....	.....	3.44	
Ashford	.....	.....	.....	15.20	19.0
Blaine	59	23	39.0	6.56	3.0
Bremerton	52	27	38.4	13.01	10.0
Cedonia	43	8	25.2	2.43	16.1
Centralia	61	30	40.5	11.55	1.5
Cheney	.....	.....	.....	3.18	20.0
Clearwater	54	30	39.8	20.15	2.5
Cle Elum	43	3	25.2	7.77	65.5
Colfax	49	19	33.0	3.04	5.0
Colville	45	6	28.0	3.10	21.0
Conconully	44	3	22.9	2.45	23.3
Coupeville	55	29	40.9	2.89	0.5
Crescent	44	12	27.5	2.83	18.0
East Sound	55	16	35.8	6.52	T.
Ellensburg	44	1	23.5	3.24	32.2
Ellensburg (near)	42	2	23.4	3.40	32.0
Grandmound	55	28	39.8	14.94	3.0
Granite Falls	.....	.....	.....	10.93	7.5
Hilburn	52	29	38.4	22.45	1.2
Hooper	53	22	33.6	2.91	3.3
Ilwaco	54	29	42.2	17.61	T.
Lacenter	55	22	37.8	12.32	
Lakeside	46	14	26.2	3.98	36.0
Lind	46	17	30.4	2.49	15.5
Loomis	45	9	24.0	2.70	21.0
Mayfield	53[d]	28[d]	38.6[d]	14.87	
Mottinger Ranch	50	25	34.8	1.01	1.5
Mount Pleasant	45	27	35.8	11.39	4.4
Moxee	48	3	27.0	1.89	13.7
Olga	55	32	41.6	6.69	
Olympia	56	30	40.8	14.04	2.0
Pinehill	50	14	32.0	7.72	40.4
Pomeroy	59	18	33.6	2.82	5.0
Port Townsend	53	31	41.4	3.10	
Pullman	48	13	31.2	2.92	13.0
Rattlesnake Mountains	47	11	28.4	2.14	9.5
Republic	64	4	24.8	2.75	15.6
Ritzville	.....	.....	.....	1.06	7.4
Rosalia	50	15	30.4	3.00	16.0
Sedro	59	25	39.3	6.62	T.
Silvana	56	27	40.2	4.74	
Snohomish	51	26	39.0	7.45	
Snoqualmie	50	28	40.6	10.45	
Southbend	58	30	42.4	22.39	
Sprague	.....	.....	.....	1.60	6.0
Stampede	.....	.....	.....	8.35	78.0
Sunnyside	53	14	30.9	1.11	4.5
Trinidad	54	11	26.1	3.10	23.2
Union	52	29	39.0	21.36	4.5
Usk	40	8	28.3	3.49	26.8
Vancouver	55	20	39.4	11.13	0.5
Vashon	56	30	41.3	10.72	T.
Waterville	37	3	22.8	3.49	32.0
Wenatchee (near)	45	11	25.9	4.84	45.5
Whatcom	59	25	40.2	4.80	
Wilbur	43	4	24.4	2.35	15.2
Zindel	52	20	36.6	2.53	3.5
West Virginia.					
Addison	60	10	36.0	5.40	8.0
Bayard	59	0	29.6	6.21	15.8
Beverly	58	9	31.9	6.37	14.0
Buckhannon	60	10	33.5	6.23	12.0
Burlington	60	8	32.5	3.87	9.0
Byrne	.....	.....	.....	8.10	23.0
Cairo	64	9	35.1	4.36	13.5
Camden	60	10	34.2	5.48	10.4
Central	62	9	38.4	5.64	11.0
Chapel	62	15	35.0	8.04	10.3
Charleston	.....	.....	.....	5.49	3.5
Clay	70	4	33.2	3.83	4.8
Creston	58	10	35.0	6.53	7.5
West Virginia—Cont'd.	°	°	°	*Ins.*	*Ins.*
Cuba	61	1	34.6	5.81	5.0
Dayton	63	8	33.5	6.88	10.5
Echo	65	12	37.6	7.60	2.0
Elkhorn	62	10	38.6	2.72	4.4
Fairmont	.....	.....	.....	6.74	15.4
Glenville	65	11	33.4	7.29	9.8
Grafton	61	9	33.4	6.86	16.0
Green Sulphur	65	9	32.2	2.01	.....
Hinton *b*	65	13	36.7	3.30	3.6
Huntington	61	13	35.3	6.46	2.0
Josiah	61	9	32.8	6.64	11.0
Leonard	55	5	30.1	4.56	6.0
Lewisburg	55	8	32.9	3.94	3.0
Lillydale	62	11	36.2	2.69	3.3
Logan	66	15	40.3	5.77	2.0
Magnolia	60	5	31.1	3.95	8.0
Martinsburg	59	9	30.8	3.25	7.0
Morgantown	60	9	33.2	6.12	17.0
Moscow	58	1	30.3	2.95	12.0
Nuttallburg	62	13	38.4	3.95	10.0
Oceana	63	13	37.4	5.57	.....
Oldfields	65	6	33.5	4.80	7.5
Philippi	61	7	33.4	7.34	15.8
Pickens	57	4	31.6	9.95	33.5
Point Pleasant	63	10	32.5	6.38	3.0
Princeton	59	16	36.0	4.30	10.5
Romney	58	8	33.2	3.87	11.0
Rowlesburg	.....	.....	.....	7.91	17.0
Ryan	64	12	36.0	6.17	7.0
Southside	62	16	36.6	6.43	4.0
Terra Alta	54	−1	28.6	8.85	18.0
Travellers Repose	55[d]	−2[d]	30.1[d]	3.91	11.0
Uppertract	63	9	35.2	3.14	6.0
Wellsburg	56	5	30.0	5.11	17.0
Weston *a*	.....	.....	.....	7.34	13.4
Weston *b*	65	10	36.4	.....	.....
Wheeling *a*	.....	.....	.....	5.38	12.0
Wheeling *b*	62	11	35.2	4.71	.....
Williamson	70	12	37.4	4.28	0.5
Wisconsin.					
Amherst	43	.....	.....	2.47	15.0
Appleton	44	−6	19.9	2.81	15.6
Ashland	.....	.....	.....	1.76	9.4
Barron	.....	.....	.....	1.37	12.7
Bayfield	36	−5	17.6	2.04	.....
Beloit	47	−13	18.8	2.04	T.
Brodhead	52[e]	−10	21.0[e]	2.81	8.0
Butternut [f]	39	−20	13.0	1.51	15.1
Chilton	41	−15	18.4	3.18	13.5
Darlington	42	−18	16.8	1.91	8.0
Dodgeville	50	−11	18.2	1.80	18.0
Downing	42	−20	15.9	3.61	22.0
Easton	44	−15	18.3	2.34	11.5
Eau Claire	40	−15	17.2	3.05	19.0
Florence	38[d]	−5	18.1	1.68	13.0
Fond du Lac	42	−6	23.5	1.62	0.5
Grand River Locks	.....	.....	.....	2.38	9.0
Grantsburg	37	−23	13.4	2.68	19.0
Hancock	39	−12	18.2	1.82	12.7
Harvey	41	−7	21.2	1.94	8.8
Hayward	38	−18	15.0	2.33	20.2
Hillsboro	42	−19	17.0	2.85	19.0
Koepenick	42	−18	17.8	1.60	16.0
Ladysmith	37	−15	15.4	2.36	21.2
Lancaster	43	−15	18.4	1.91	10.0
Madison	40	−5	20.7	1.84	5.8
Manitowoc	42	−2	24.6	2.43	7.0
Meadow Valley	43	−14	17.6	1.66	10.0
Medford	42	−13	18.2	0.70	7.0
Menasha	.....	.....	.....	1.88	8.0
Neillsville	40	−12	17.6	3.05	12.0
New Holstein	41	−8	20.1	2.90	10.0
New London	40	−8	19.4	2.38	8.0
North Crandon	38	−10	17.0	0.65	6.5
Oconto	41	−9	21.8	2.50	17.5
Osceola	38	−28	13.8	2.11	23.3
Oshkosh	41[e]	−16	21.4	1.54	6.0
Pine River	39	−12	18.0	2.49	14.0
Portage	43	−7	21.0	2.39	9.0
Port Washington	50	−3	23.2	3.20	4.0
Prairie du Chien *a*	60	−9	23.8	3.37	9.8
Prentice	38	−13	14.5	2.80	28.0
Racine	48	−1	25.8	2.20	.....
Sheboygan	43	−1	25.7	1.96	4.5
Spooner	40	−20	12.2	1.77	13.9
Stevens Point	40	−12	18.2	2.27	7.0
Tomahawk	40	−16	15.4	.....	.....
Valley Junction	41	−8	19.8	1.96	7.0
Viroqua	40	−14	16.8	3.10	20.0
Watertown	41	−7	20.2	1.74	7.2
Waukesha	41	−6	22.4	2.31	10.2
Waupaca	39	−10	18.7	2.17	9.2
Wausau	39	−10	19.2	2.29	.....
Whitehall	43	−18	16.4	3.35	22.8
Wyoming.					
Alcova	53	4	28.0	1.07	22.2
Basin	47	−6	20.4	T.	T.
Bedford	48	−19	17.6	1.92	19.2
Wyoming—Cont'd.	°	°	°	*Ins.*	*Ins.*
Border	45	−35	9.2	0.90	7.9
Buffalo	56	−6	25.2	0.25	2.5
Centennial	55	−15	26.0	1.38	.....
Chugwater	60	1	28.6	1.75	17.5
Daniel	46	−23	14.2	1.55	15.5
Evanston	50	−12	20.8	0.84	6.5
Fort Laramie	62	−3	27.0	0.68	11.5
Fort Washakie	63	−5	23.1	0.05	0.5
Fort Yellowstone	45	−5	22.8	0.85	8.5
Fourbear	55	−5	26.0	0.33	5.7
Griggs	57	−15	23.5	1.19	12.0
Hyattville	60	−3	27.7	0.50	5.0
Irma	60	0	31.0	0.90	9.0
Iron Mountain	54	3	28.8	0.50	.....
La Grange	55[e]	1[e]	26.3[e]	1.43	14.3
Laramie	52	−8	24.0	0.89	11.5
Leo	46	−15	20.0	1.51	30.0
Lolabama Ranch	49	−15	20.8	0.63	8.0
Lusk	47	−5	20.6	1.32	13.2
Moore	57	9	28.8	1.08	26.2
Pinebluff	57	1	26.1	1.80	18.0
Rawlins	52	−8	24.2	2.11	21.1
Rocksprings	.....	−16	.....	0.24	2.5
Saratoga	56	−9	24.8	1.40	14.0
South Pass City	42	−13	13.8	0.40	4.0
Thermopolis	63	−13	25.0	0.30	8.0
Wheatland	54	6	25.3	.....	.....
Porto Rico.					
Adjuntas	90	54	70.4	6.93	
Aguadilla	90	63	76.4	4.02	
Aguirre	88	64	77.5	2.40	
Arecibo	87	59	73.5	5.50	
Barros	85	53	69.7	2.20	
Caguas	92	57	72.4	4.25	
Canovanas	86	68	77.4	6.59	
Cayey	91	59	74.2	3.31	
Cidra	89	55	72.3	7.80	
Carozal [f]	92	55	73.1	7.15	
Fajardo	86	66	76.7	4.47	
Guanica	91	61	77.0	3.58	
Guayama	.....	.....	.....	1.59	
Hacienda Coloso	89	60	74.6	3.72	
Hacienda Perla	90	67	76.6	12.01	
Humacao	88	72	79.5	4.29	
Isabela	85	64	74.6	7.07	
Juana Diaz	91	64	77.6	3.27	
La Isolina	88[k]	62[k]	74.3[k]	7.46	
Las Marias	90	64	76.2	8.93	
Manati	91	62	75.4	4.45	
Maunabo	87	65	76.7	5.30	
Mayaguez	90	62	75.8	4.48	
Morovis	89	59	74.7	1.96	
Ponce	89	65	76.6	2.25	
Rio Piedras	.....	.....	.....	5.76	
San German	88	65	76.0	12.34	
San Lorenzo	89	59	73.9	6.46	
San Salvador	85	61	71.2	7.20	
Santa Isabel	87	64	76.0	5.34	
Utuado	89	60	74.6	4.58	
Yauco	85	65	75.0	3.74	
Mexico.					
Ciudad P. Diaz	71	33	52.4	2.60	
Coatzacoalcos	88	55	71.8	9.69	
Leon de Aldamas	75	38	56.8	0.80	
Vera Cruz	80	60	72.0	.....	
New Brunswick.					
St. John	50	−14	21.2	6.88	34.3
Isthmus of Panama.					
Alhajuela	92	69	81.0	4.53	
La Boca	88	72	79.5	2.84	
West Indies.					
San Pedro de Macoris, S. D	88	62	74.8	4.67	

Late reports for November, 1902.

Alaska.	°	°	°	*Ins.*	*Ins.*
Copper Center	32	−46	−0.6	.....	15.0
Fort Egbert	20	−52	−1.9	0.62	14.5
Fort Liscum	37	0	21.1	6.98	.....
Orca	42	11	30.9	11.10	46.0
Skagway	48	4	27.2	1.24	10.0
Wood Island	53[f]	11[f]	34.5[f]	1.00	6.0
California.					
Glendora	.....	.....	.....	2.23	
Kernville	.....	.....	.....	0.85	
Milo	.....	.....	.....	2.53	
Mills College	.....	.....	.....	3.44	
Newcastle	72	32	50.1	3.05	
San Miguel Island	69	42	55.2	3.14	
Colorado.					
Grover	.....	.....	.....	0.00	
Illinois.					
Lagrange	71	21	45.6	2.68	T.

TABLE II.—*Climatological 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.*
Iowa.					
Belle Plaine	71	20	42.5	3.13	6.0
Gilman	.....	.....	.....	2.35	T.
Villisca	74	15	42.8	2.20	.....
Louisiana.					
Rayne	87	40	65.2	4.73	
Sugar Experiment Station	84	39	65.8	3.41	
Minnesota.					
Winnebago	67	11	36.6	2.26	1.0
Montana.					
Kipp	60	− 5	23.6	1.55	15.5
New Jersey.					
Hanover	69	22	47.0	0.96	
Ohio.					
Bloomingburg	.....	.....	.....	2.37	
Oregon.					
Government Camp	49	15	34.2	18.13	66.0
Placer	.....	.....	.....	7.78	
Texas.					
San Marcos	82	32	63.6	5.87	
Nicaragua.					
Nandaime	89	74	81.8	0.68	

EXPLANATION OF SIGNS.

*Extremes of temperature from observed readings of dry thermometer.

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.

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.

November, 1902, Iowa, Idagrove, strike out precipitation 0.21 and snowfall 1.0.

TABLE III.—*Resultant winds from observations at 8 a. m. and 8 p. m., daily, during the month of December, 1902.*

Stations.	Component direction from— N.	S.	E.	W.	Resultant. Direction from—	Duration.
	Hours.	Hours.	Hours.	Hours.	°	Hours.
New England.						
Eastport, Me	27	9	7	33	n. 55 w.	32
Portland, Me	28	15	4	31	n. 64 w.	30
Concord, N. H	14	6	7	12	n. 32 w.	9
Northfield, Vt	19	35	3	14	s. 34 w.	19
Boston, Mass	23	10	5	36	n. 67 w.	34
Nantucket, Mass	22	5	11	32	n. 51 w.	27
Block Island, R. I	26	10	13	27	n. 41 w.	21
New Haven, Conn	33	9	5	29	n. 45 w.	34
Middle Atlantic States.						
Albany, N. Y	27	20	4	24	n. 71 w.	21
Binghamton, N. Y.†	13	5	8	14	n. 37 w.	10
New York, N. Y	23	6	10	38	n. 59 w.	33
Harrisburg, Pa	18	9	18	25	n. 38 w.	11
Philadelphia, Pa	26	11	12	28	n. 43 w.	22
Scranton, Pa	22	18	13	25	n. 72 w.	13
Atlantic City, N. J	30	9	10	31	n. 45 w.	30
Cape May, N. J	27	10	9	29	n. 50 w.	26
Baltimore, Md	24	14	8	28	n. 63 w.	22
Washington, D. C	25	21	6	21	n. 75 w.	16
Lynchburg, Va	20	17	10	32	n. 82 w.	22
Norfolk, Va	25	20	13	19	n. 50 w.	8
Richmond, Va	23	20	11	20	n. 72 w.	10
Wytheville, Va	14	9	11	39	n. 80 w.	28
South Atlantic States.						
Asheville, N. C	29	20	14	13	n. 6 e.	9
Charlotte, N. C	22	18	22	16	n. 56 e.	7
Hatteras, N. C	33	13	11	19	n. 22 w.	22
Kitty Hawk, N. C.†	13	8	10	9	n. 11 e.	5
Raleigh, N. C	26	17	13	20	n. 38 w.	11
Wilmington, N. C	25	12	15	21	n. 25 w.	14
Charleston, S. C	29	11	15	22	n. 21 w.	19
Columbia, S. C	22	15	20	21	n. 8 w.	7
Augusta, Ga	24	12	15	25	n. 40 w.	16
Savannah, Ga	34	9	16	17	n. 2 w.	25
Jacksonville, Fla	30	15	10	23	n. 41 w.	20
Florida Peninsula.						
Jupiter, Fla	20	11	18	22	n. 24 w.	10
Key West, Fla	33	7	33	4	n. 48 e.	39
Tampa, Fla	31	10	18	21	n. 9 w.	20
Eastern Gulf States.						
Atlanta, Ga	27	16	13	28	n. 54 w.	19
Macon, Ga.†	15	6	4	11	n. 38 w.	11
Pensacola, Fla.†	16	4	10	7	n. 14 e.	12
Mobile, Ala	34	16	8	14	n. 12 w.	29
Montgomery, Ala	25	11	22	16	n. 23 e.	15
Meridian, Miss†	10	9	14	6	n. 33 e.	8
Vicksburg, Miss	20	22	24	13	s. 80 e.	11
New Orleans, La	28	15	22	9	n. 45 e.	18
Western Gulf States.						
Shreveport, La	21	20	22	16	n. 80 e.	6
Fort Smith, Ark	12	9	27	23	n. 53 e.	5
Little Rock, Ark	19	18	15	24	n. 84 w.	9
Corpus Christi, Tex	29	19	21	5	n. 58 e.	19
Galveston, Tex	20	16	29	11	n. 77 e.	18
Palestine, Tex	23	20	18	14	n. 53 e.	5
San Antonio, Tex	25	18	20	13	n. 45 e.	10
Taylor, Tex †	16	9	4	7	n. 23 w.	8
Ohio Valley and Tennessee.						
Chattanooga, Tenn	25	14	15	24	n. 39 w.	14
Knoxville, Tenn	24	14	2	37	n. 74 w.	36
Memphis, Tenn	20	21	16	18	s. 63 w.	2
Nashville, Tenn	20	22	15	19	s. 63 w.	4
Lexington, Ky.†	6	14	9	12	s. 21 w.	8
Louisville, Ky	14	24	13	25	s. 50 w.	16
Evansville, Ind.†	11	12	7	11	s. 76 w.	4
Indianapolis, Ind	14	27	10	24	s. 47 w.	19
Cincinnati, Ohio	12	22	17	28	s. 48 w.	15
Columbus, Ohio	10	26	15	25	s. 32 w.	19
Pittsburg, Pa	24	17	14	29	n. 65 w.	17
Parkersburg, W. Va	16	20	12	28	s. 76 w.	16
Elkins, W. Va	14	20	6	30	s. 76 w.	25
Lower Lake Region.						
Buffalo, N. Y	12	14	16	30	s. 82 w.	14
Oswego, N. Y	21	26	17	15	s. 22 e.	5
Rochester, N. Y	11	20	13	32	s. 65 w.	21
Syracuse, N. Y	13	24	12	26	s. 52 w.	18
Erie, Pa	18	19	10	27	s. 87 w.	17
Cleveland, Ohio	11	29	17	19	s. 6 w.	18
Sandusky, Ohio†	7	10	7	15	s. 69 w.	8
Toledo, Ohio	14	25	11	29	s. 59 w.	21
Detroit, Mich	16	16	11	30	w.	19
Upper Lake Region.						
Alpena, Mich	22	14	13	27	n. 60 w.	16
Escanaba, Mich	26	14	8	30	n. 61 w.	25
Grand Haven, Mich	21	14	18	21	n. 23 w.	8
Houghton, Mich.†	10	6	15	9	n. 56 e.	7
Marquette, Mich	20	15	11	30	n. 75 w.	20
Port Huron, Mich	14	21	15	28	s. 62 w.	15
Sault Ste. Marie, Mich	19	15	25	16	n. 66 e.	10
Chicago, Ill	15	20	14	27	s. 69 w.	14
Milwaukee, Wis	15	13	14	33	n. 84 w.	19
Green Bay, Wis	22	21	9	25	n. 87 w.	16
Duluth, Minn	24	16	10	29	n. 67 w.	21
North Dakota.						
Moorhead, Minn	25	18	18	23	n. 36 w.	9
Bismarck, N. Dak	30	12	15	21	n. 18 w.	19
Williston, N. Dak	20	20	10	19	w.	9
Upper Mississippi Valley.						
St. Paul, Minn	19	16	17	24	n. 67 w.	8
La Crosse, Wis. †	12	13	4	7	s. 72 w.	3
Davenport, Iowa	16	16	15	25	w.	10
Des Moines, Iowa	22	18	18	22	n. 45 w.	6
Dubuque, Iowa	21	19	16	23	n. 74 w.	7
Keokuk, Iowa	23	22	12	21	n. 84 w.	9
Cairo, Ill	21	23	16	18	s. 45 w.	3
Springfield, Ill	19	18	14	27	n. 86 w.	13
Hannibal, Mo. †	11	9	7	10	n. 56 w.	4
St. Louis, Mo	19	25	10	21	s. 61 w.	12
Missouri Valley.						
Columbia, Mo. *	11	11	8	9	w.	1
Kansas City, Mo	23	24	13	19	s. 80 w.	6
Springfield, Mo	18	22	14	23	s. 66 w.	10
Topeka, Kans	9	8	7	7	n.	1
Lincoln, Nebr	26	22	10	22	n. 72 w.	13
Omaha, Nebr	24	23	10	16	n. 80 w.	6
Valentine, Nebr	21	13	13	29	n. 63 w.	18
Sioux City, Iowa †	13	9	6	11	n. 51 w.	6
Pierre, S. Dak	22	11	26	13	n. 50 e.	17
Huron, S. Dak	27	20	20	13	n. 45 e.	10
Yankton, S. Dak. †	13	6	8	14	n. 41 w.	9
Northern Slope.						
Havre, Mont	21	14	19	28	n. 52 w.	11
Miles City, Mont	21	27	10	19	s. 56 w.	11
Helena, Mont	18	25	11	25	s. 63 w.	16
Kalispell, Mont	9	9	4	47	w.	43
Rapid City, S. Dak	25	8	11	33	n. 52 w.	28
Cheyenne, Wyo	19	14	4	38	n. 82 w.	34
Lander, Wyo	20	24	17	15	s. 27 e.	4
North Platte, Nebr	15	15	15	29	w.	14
Middle Slope.						
Denver, Colo	21	29	10	12	s. 14 w.	8
Pueblo, Colo	25	13	19	22	n. 14 w.	12
Concordia, Kans	22	18	10	18	n. 63 w.	9
Dodge, Kans	27	13	13	21	n. 30 w.	16
Wichita, Kans	28	21	15	13	n. 16 e.	7
Oklahoma, Okla	25	24	13	10	n. 72 w.	3
Southern Slope.						
Abilene, Texas	22	23	11	17	s. 80 w.	6
Amarillo, Tex	16	24	13	25	s. 56 w.	14
Southern Plateau.						
El Paso, Texas	29	1	14	31	n. 59 w.	33
Santa Fe, N. Mex	34	13	22	7	n. 35 e.	26
Flagstaff, Ariz	23	12	21	21	n.	11
Phoenix, Ariz	13	12	24	24	n.	1
Yuma, Ariz	44	5	15	7	n. 11 e.	40
Independence, Cal	22	18	10	29	n. 78 w.	19
Middle Plateau.						
Carson City, Nev	13	30	12	20	s. 25 w.	19
Winnemucca, Nev	19	14	21	23	n. 22 w.	5
Modena, Utah	14	14	14	33	w.	19
Salt Lake City, Utah	20	19	22	14	n. 83 e.	8
Grand Junction, Colo	20	15	23	21	n. 22 e.	5
Northern Plateau.						
Baker City, Oreg	5	38	24	15	s. 15 e.	34
Boise, Idaho	12	22	21	21	s.	10
Lewiston, Idaho †	3	6	15	7	s. 69 e.	8
Pocatello, Idaho	1	25	34	13	s. 41 e.	32
Spokane, Wash	14	25	24	9	s. 54 e.	19
Walla Walla, Wash	8	35	3	25	s. 39 w.	35
North Pacific Coast Region.						
North Head, Wash	7	25	33	13	s. 48 e.	27
Port Crescent, Wash. *	0	17	13	11	s. 7 e.	17
Seattle, Wash	10	31	33	4	s. 54 e.	36
Tacoma, Wash	13	37	8	17	s. 21 w.	26
Tatoosh Island, Wash	7	24	22	18	s. 13 e.	18
Astoria, Oreg	12	18	33	11	s. 75 e.	23
Portland, Oreg	12	24	23	16	s. 30 e.	14
Roseburg, Oreg	9	29	17	20	s. 9 w.	20
Middle Pacific Coast Region.						
Eureka, Cal	14	34	15	12	s. 9 e.	20
Mount Tamalpais, Cal	20	20	15	24	w.	9
Red Bluff, Cal	30	20	15	11	n. 22 e.	11
Sacramento, Cal	17	24	28	10	s. 69 e.	19
San Francisco, Cal	26	13	11	24	n. 45 w.	18
South Pacific Coast Region.						
Fresno, Cal	18	8	29	18	n. 48 e.	15
Los Angeles, Cal	23	7	23	23	n.	16
San Diego, Cal	31	7	18	18	n.	24
San Luis Obispo, Cal	33	13	1	18	n. 40 w.	26
West Indies.						
Basseterre St. Kitts, W. I	21	7	46	0	n. 73 e.	48
Bridgetown, Barbados	8	6	56	0	n. 88 e.	56
Cienfuegos, Cuba	.....	.....	.....	.....	.....	.....
Colon, Columbia, S. A.†	.....	.....	.....	.....	.....	.....
Grand Turk, Turks Island †	6	4	24	3	n. 85 e.	21
Hamilton, Bermuda	21	23	13	24	s. 80 w.	11
Havana, Cuba	24	4	35	5	n. 56 e.	36
Kingston, Jamaica	.....	.....	.....	.....	.....	.....
Port of Spain, Trinidad, W. I †	.....	.....	.....	.....	.....	.....
Puerto Principe, Cuba	42	0	38	2	n. 40 e.	55
Roseau, Dominica, W. I †	.....	.....	.....	.....	.....	.....
San Juan, Porto Rico	2	35	35	4	s. 43 e.	45
Santiago de Cuba, Cuba	49	5	9	8	n. 1 e.	44
Santo Domingo, S. Dom., W. I ‡	39	3	3	0	n. 5 e.	36
Willemstad	.....	.....	.....	.....	.....	.....

* From observations at 8 p. m. only. † From observations at 8 a. m. only. ‡ Record for 22 days only.

TABLE IV.—*Thunderstorms and auroras, December, 1902.*

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.		2		1											8	2				1							1	1	1	2		19	9	T.
		A.																																0	0	A.
Arizona	56	T.																		4	2													6	2	T.
		A.																																0	0	A.
Arkansas	57	T.		2									1	7	1	13	5					2												31	7	T.
		A.																																0	0	A.
California	167	T.	1									6	3		1			3		1		3									1			19	8	T.
		A.																																0	0	A.
Colorado	81	T.																																0	0	T.
		A.																									1							1	1	A.
Connecticut	21	T.																																0	0	T.
		A.																																0	0	A.
Delaware	5	T.																																0	0	T.
		A.																																0	0	A.
Dist. of Columbia	4	T.																																0	0	T.
		A.																																0	0	A.
Florida	47	T.		5	5	9	1							5				1																26	6	T.
		A.																																0	0	A.
Georgia	55	T.		5	1	3																	1											10	4	T.
		A.																																0	0	A.
Idaho	34	T.	1										2																					3	2	T.
		A.																																0	0	A.
Illinois	92	T.	1											11								11	1											24	4	T.
		A.																																0	0	A.
Indiana	58	T.											1	3	7								10											21	4	T.
		A.																								1								1	1	A.
Indian Territory	11	T.														2																		2	1	T.
		A.																																0	0	A.
Iowa	149	T.	1																			3												4	2	T.
		A.																									1							1	1	A.
Kansas	77	T.																			1													1	1	T.
		A.																																0	0	A.
Kentucky	41	T.											2	6	11		7																	26	4	T.
		A.																																0	0	A.
Louisiana	46	T.	6	6	5	3		1					1		1	5	14		1			1							1					45	12	T.
		A.																																0	0	A.
Maine	19	T.																																0	0	T.
		A.																																0	0	A.
Maryland	48	T.					1																											1	1	T.
		A.																3			3													6	2	A.
Massachusetts	48	T.																																0	0	T.
		A.																																0	0	A.
Michigan	106	T.																																0	0	T.
		A.																																0	0	A.
Minnesota	67	T.																																0	0	T.
		A.																																0	0	A.
Mississippi	44	T.		4		1											16													1				22	4	T.
		A.																																0	0	A.
Missouri	95	T.												20	2	1					1	15												39	5	T.
		A.																																0	0	A.
Montana	40	T.																																0	0	T.
		A.												1																				1	1	A.
Nebraska	142	T.																				1							1					2	2	T.
		A.		1	1		1									1																		4	4	A.
Nevada	40	T.																																0	0	T.
		A.																																0	0	A.
New Hampshire	19	T.																																0	0	T.
		A.																																0	0	A.
New Jersey	51	T.																																0	0	T.
		A.																																0	0	A.
New Mexico	31	T.																	1	1														2	2	T.
		A.																																0	0	A.
New York	99	T.			2																		2											4	2	T.
		A.																																0	0	A.
North Carolina	56	T.		3	2																			1							2			8	4	T.
		A.																																0	0	A.
North Dakota	48	T.																																0	0	T.
		A.																																0	0	A.
Ohio	128	T.																					5			2								7	2	T.
		A.																																0	0	A.
Oklahoma	23	T.														2	2																	4	2	T.
		A.																																0	0	A.
Oregon	74	T.											4	4														2						10	3	T.
		A.																																0	0	A.
Pennsylvania	91	T.																																0	0	T.
		A.																																0	0	A.
Rhode Island	7	T.																																0	0	T.
		A.																																0	0	A.
South Carolina	46	T.	2	4	2	5																												13	4	T.
		A.																																0	0	A.
South Dakota	56	T.																																0	0	T.
		A.					2														1													3	2	A.
Tennessee	56	T.												2		2	3																	7	3	T.
		A.													1											1				1				3	3	A.
Texas	95	T.	1	5									1		2	1	6							1		1	1	1	1					21	11	T.
		A.																																0	0	A.
Utah	47	T.	1										1																					2	2	T.
		A.																																0	0	A.
Vermont	16	T.																																0	0	T.
		A.																																0	0	A.
Virginia	50	T.																2					2											4	2	T.
		A.																																0	0	A.
Washington	64	T.																						1	1			1						3	3	T.
		A.																																0	0	A.
West Virginia	43	T.																																0	0	T.
		A.																																0	0	A.
Wisconsin	60	T.																																0	0	T.
		A.																																0	0	A.
Wyoming	31	T.																																0	0	T.
		A.																																0	0	A.
Sums	2,893	T.	14	36	17	22	2	1	0	0	0	6	16	58	25	26	61	8	2	6	4	37	21	3	1	3	1	4	4	2	4	2	0	386	118	T.
		A.	0	1	1	0	3	0	0	0	0	0	0	1	1	1	0	3	0	0	4	0	0	0	0	2	2	0	0	1	0	0	0	20	15	A.

TABLE V.—*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 December, 1902, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
	1	2	3	4	5	6	7														
Albany, N. Y.	21-22			1.02														*			
Alpena, Mich.	2-3			0.71														*			
Asheville, N. C.	4			0.63														0.19			
Atlanta, Ga.	15-16			2.32														0.67			
Atlantic City, N. J.	21-22	6:00 p. m.	D. N.	1.93	9:22 p. m.	10:35 p. m.	0.21	0.07	0.17	0.25	0.31	0.38	0.49	0.58	0.69	0.82	0.97	1.10	1.42		
Augusta, Ga.	12			0.70														0.40			
Baltimore, Md.	2-3			0.96														0.25			
Binghamton, N. Y.	15-16			0.63														*			
Bismarck, N. Dak.	10			0.08														*			
Block Island, R. I.	25-26			1.44														*			
Boise, Idaho	7			0.25														0.08			
Boston, Mass.	21-22			1.24														0.26			
Buffalo, N. Y.	2-3			0.46														0.13			
Cairo, Ill.	12	1:15 p. m.	10:30 p. m.	1.07	9:00 p. m.	9:30 p. m.	0.36	0.08	0.35	0.47	0.52	0.59	0.64	0.66							
Charleston, S. C.	4	12:25 a. m.	11:26 a. m.	2.87	8:55 a. m.	10:10 a. m.	1.24	0.05	0.12	0.24	0.31	0.39	0.42	0.56	0.63	0.72	0.82	0.94	1.46		
Charlotte, N. C.	21			0.75														0.32			
Chattanooga, Tenn.	2			0.81														0.30			
Chicago, Ill.	19-20			0.49														*			
Cincinnati, Ohio	2			0.98														0.42			
Cleveland, Ohio	15-16			0.62														*			
Columbia, Mo.	2			0.55														0.28			
Columbia, S. C.	12	10:07 a. m.	4:20 p. m.	1.51	3:10 p. m.	3:40 p. m.	0.79	0.06	0.15	0.30	0.47	0.58	0.67	0.69	0.71						
Columbus, Ohio	2			0.42														0.22			
Corpus Christi, Tex.	7			0.40														0.32			
Davenport, Iowa	2-3			0.59														*			
Denver, Colo.	13-14			0.36														*			
Des Moines, Iowa	2-3			0.55														*			
Detroit, Mich.	2-3			0.54														0.19			
Dodge, Kans.	13-14			0.28														*			
Dubuque, Iowa	19-20			0.59														0.11			
Duluth, Minn.	15-16			0.80														*			
Eastport, Me.	16-17			1.77														0.29			
Elkins, W. Va.	15-16			1.32														0.25			
Erie, Pa.	13-14			0.74														*			
Escanaba, Mich.	20-21			0.36														0.08			
Evansville, Ind.	12-13	8:33 p. m.	12:40 a. m.	0.78	10:00 p. m.	10:30 p. m.	0.03	0.03	0.19	0.32	0.43	0.47	0.51								
Fort Smith, Ark.	2			0.77														0.22			
Fort Worth, Tex.	1-2			0.68														0.19			
Galveston, Tex.	15	1:10 a. m.	7:35 a. m.	0.73	5:50 a. m.	6:20 a. m.	0.17	0.18	0.32	0.40	0.42	0.45	0.50	0.53							
Grand Haven, Mich.	2-3			0.86														0.09			
Grand Junction, Colo.	13-14			0.34														*			
Green Bay, Wis.	2-3			0.40														*			
Harrisburg, Pa.	21			0.67														0.23			
Hatteras, N. C.	4-5			1.57														*			
Huron, S. Dak.	19-20			1.01														*			
Indianapolis, Ind.	20-21			0.63														0.32			
Jacksonville, Fla.	3-4	†12:35 a. m.	‡3:30 p. m.	5.72	‡4:30 a. m.	‡4:52 a. m.	3.69	0.09	0.19	0.39	0.54	0.71	0.72								
					‡8:45 a. m.	‡9:20 a. m.	4.54	0.17	0.38	0.43	0.48	0.54	0.80	0.93	0.94						
Jupiter, Fla.	12			0.55														0.36			
Kalispell, Mont.	24			0.66														*			
Kansas City, Mo.	14-15			1.02														*			
Key West, Fla.	11-12	11:00 p. m.	5:00 a. m.	1.12	3:55 a. m.	4:30 a. m.	0.32	0.07	0.28	0.43	0.45	0.51	0.71	0.80							
Knoxville, Tenn.	20-21			1.02														0.27			
La Crosse, Wis.	2-3			0.67														*			
Lewiston, Idaho	26-27			0.37														0.09			
Lexington, Ky.	14-16			1.93														*			
Lincoln, Nebr.	20			0.60														*			
Little Rock, Ark.	2			1.31														0.66			
Los Angeles, Cal.	16-17			1.36														0.26			
Louisville, Ky.	11-13			1.74														0.44			
Lynchburg, Va.	15-16			0.97														0.24			
Macon, Ga.	4			0.77														0.43			
Memphis, Tenn.	14-15	§6:15 a. m.	‖4:45 p. m.	4.55	‖2:30 a. m.	‖3:55 a. m.	1.91	0.08	0.16	0.28	0.41	0.50	0.57	0.64	0.68	0.70	0.79	0.89	1.18		
Meridian, Miss.	15			1.41														0.67			
Milwaukee, Wis.	2-3			0.94														0.09			
Montgomery, Ala.	15-16	4:55 p. m.	9:30 a. m.	3.55	6:00 p. m.	7:00 p. m.	0.10	0.05	0.13	0.19	0.25	0.29	0.29	0.30	0.35	0.72	0.86	1.03	1.10		
					2:05 a. m.	2:35 a. m.	2.90	0.10	0.18	0.29	0.35	0.45	0.60	0.62							
Nantucket, Mass.	16-17			1.07														0.21			
Nashville, Tenn.	14-15			3.20														0.46			
New Haven, Conn.	21-22			2.12														0.44			
New Orleans, La.	15	3:38 p. m.	5:55 p. m.	1.32	4:25 p. m.	5:45 p. m.	0.06	0.08	0.12	0.13	0.17	0.26	0.33	0.46	0.55	0.58	0.65	0.97	1.23		
New York, N. Y.	15-16			1.84														0.32			
Norfolk, Va.	16-17			0.68														0.44			
Northfield, Vt.	21-22			1.19														*			
Oklahoma, Okla.	13-15			1.50														*			
Omaha, Nebr.	19			0.61														0.15			
Palestine, Tex.	1-2			0.80														0.46			
Parkersburg, W. Va.	15-16			1.19														0.27			
Pensacola, Fla.	2			0.81														0.55			
Philadelphia, Pa.	21-22			2.03														0.56			
Pittsburg, Pa.	12-13			0.72														*			
Pocatello, Idaho	3-4			0.28														*			
Portland, Me.	21-22			1.72														0.37			
Portland, Oreg.	25			0.55														0.23			
Pueblo, Colo.	13-14			0.45														*			
Raleigh, N. C.	12-13			0.89														0.28			
Richmond, Va.	21			1.33														0.26			
Rochester, N. Y.	13-14			1.06														*			
St. Louis, Mo.	12-13			1.37														0.54			
St. Paul, Minn.	20			0.68														0.16			
Salt Lake City, Utah	11-12			0.72														*			
San Antonio, Cal.	1-2			1.41														0.61			
San Diego, Cal.	16-17			1.70														0.65			
Sandusky, Ohio	12-13			0.74														*			
San Francisco, Cal.	9-10			0.74														0.36			
Savannah, Ga.	3-4	4:13 p. m.	10:23 a. m.	2.44	7:45 a. m.	8:34 a. m.	1.04	0.05	0.16	0.25	0.38	0.48	0.61	0.67	0.78	1.10					
Scranton, Pa.	15-16			1.46														0.18			
Seattle, Wash.	24-25			1.61														0.22			
Shreveport, La.	14-15	8:30 p. m.	4:30 a. m.	1.32	1:35 a. m.	1:55 a. m.	0.30	0.09	0.39	0.48	0.59	0.62	0.64	0.66							
Spokane, Wash.	31			0.40														*			
Springfield, Ill.	2			0.51														0.19			
Springfield, Mo.	13-14			1.02														*			
Tampa, Fla.	4			0.84														0.37			

TABLE V.—*Accumulated amounts of precipitation for each 5 minutes, etc.*—Continued.

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive began.	5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
	1	2	3	4	5	6	7														
Taylor, Tex.	1-2			1.06														0.41			
Toledo, Ohio	13			0.40														*			
Topeka, Kan	14-15			0.58														*			
Valentine, Nebr	5-6			0.44														*			
Vicksburg, Miss	15	7:25 a. m.	1:40 p. m.	1.91	7:40 a. m.	8:05 a. m.	T.	0.31	0.78	0.96	1.02	1.08	1.12	1.14							
Washington, D. C	15-16			1.23														0.42			
Wilmington, N. C	7			1.70														0.39			
Yankton, S. Dak	19-20			0.96														*			
Basseterre, St. Kitts	21	12:15 p. m.	4:10 p. m.	0.78	12:15 p. m.	12:46 p. m.	0.00	0.04	0.07	0.17	0.30	0.46	0.59	0.62							
Bridgetown, Barbados	22-23			1.93														0.40			
Havana, Cuba	9			0.22														0.16			
Puerto Principe, Cuba	9-10			1.45														0.44			
San Juan, Porto Rico	19	6:55 p. m.	8:50 p. m.	1.66	7:24 p. m.	8:05 p. m.	0.02	0.16	0.40	0.70	0.83	0.94	1.12	1.30	1.39	1.42	1.46	1.55			
Santiago de Cuba, Cuba	7			0.44														0.44			
Santo Domingo, S. Dom.	10			0.34								0.34									

*Self-register not working. † December 3, 1902. ‡ December 4, 1902. § December 14, 1902. ‖ December 15, 1902.

TABLE VI.—*Data furnished by the Canadian Meteorological Service, December, 1902.*

Stations.	Pressure, in inches. Actual, reduced to mean of 24 hours.	Pressure. Sea level, reduced to mean of 24 hours.	Pressure. Departure from normal.	Temperature. Mean.	Temperature. Departure from normal.	Temperature. Mean maximum.	Temperature. Mean minimum.	Precipitation. Total.	Precipitation. Departure from normal.	Precipitation. Depth of snow.
	Ins.	Ins.	Ins.	°	°	°	°	Ins.	Ins.	Ins.
St. Johns, N. F	29.61	29.75	—.08	28.0	— 0.7	34.2	21.9	5.68	+0.65	18.4
Sydney, C. B. I	29.88	29.92	+.03	28.3	+ 0.1	33.9	22.6	8.65	+4.02	16.5
Halifax, N. S	29.88	29.99	+.03	27.1	— 0.5	34.3	19.9	7.93	+2.81	24.7
Grand Manan, N. B	29.92	29.97	—.01	25.7	— 2.6	33.4	17.9	7.79	+3.37	38.6
Yarmouth, N. S	29.92	29.99	+.01	28.0	— 2.7	35.0	21.1	5.96	+0.92	24.8
Charlottetown, P. E. I	29.90	29.94	.00	23.7	— 0.6	39.7	17.7	3.90	+0.24	24.9
Chatham, N. B	29.92	29.95	+.01	16.8	— 0.2	24.9	8.7	3.82	+0.60	21.0
Father Point, Que	29.98	30.01	+.06	13.6	— 1.8	20.7	6.6	2.88	+0.05	27.8
Quebec, Que	29.70	30.04	+.03	11.7	— 3.5	18.8	4.6	3.18	—0.51	23.2
Montreal, Que	29.85	30.07	+.04	15.9	— 2.4	23.2	8.5	4.34	+0.69	32.4
Bissett, Ont	29.46	30.10	+.09	9.2	— 5.8	21.0	— 2.6	2.02	—0.47	20.0
Ottawa, Ont	29.79	30.14	+.12	14.7	— 2.3	22.6	6.8	3.26	+0.35	24.5
Kingston, Ont	29.74	30.08	+.04	21.4	— 2.3	29.2	13.6	2.77	—0.47	15.5
Toronto, Ont	29.67	30.07	+.02	26.0	— 1.0	34.4	17.6	2.22	—0.69	6.6
White River, Ont	28.74	30.13	+.16	5.4	— 4.3	17.8	— 7.0	2.36	+0.65	23.6
Port Stanley, Ont	29.41	30.07	.00	26.4	— 2.0	32.9	19.9	3.75	+1.33	17.1
Saugeen, Ont	29.32	30.05	+.03	25.8	— 0.9	33.2	18.4	1.95	+2.03	15.4
Parry Sound, Ont	29.32	30.05	+.04	18.7	— 2.5	27.5	9.9	4.60	+ 0.12	31.2
Port Arthur, Ont	29.37	30.12	+.13	11.7	— 1.5	20.8	2.5	0.46	— 0.41	4.6
Winnipeg, Man	29.25	30.14	+.12	4.5	+ 0.4	14.1	— 5.0	1.50	+ 0.59	15.0
Minnedosa, Man	28.21	30.15	+.13	3.0	— 2.7	13.2	— 7.3	0.72	+ 0.10	7.2
Qu'Appelle, Assin	27.70	30.08	+.08	3.3	— 4.1	11.7	— 5.1	0.84	+ 0.32	8.4
Medicine Hat, Assin	27.66	30.05	+.08	11.8	— 6.4	22.1	1.6	1.15	+ 0.60	11.5
Swift Current, Assin	27.38	30.09	+.10	9.9	— 6.1	18.4	1.4	0.36	— 0.42	3.6
Calgary, Alberta	26.26	29.97	+.03	12.4	— 5.8	21.0	3.8	0.60	+ 0.01	6.0
Banff, Alberta	25.21	30.01	+.07	13.7	— 5.4	21.5	5.8	1.47	+ 0.26	13.5
Edmonton, Alberta	27.58	30.00	+.07	5.8	— 7.3	14.7	— 3.0	1.05	+ 0.35	10.5
Prince Albert, Sask	28.41	30.06	+.05	0.1	— 2.7	10.7	—10.5	0.11	— 0.63	1.1
Battleford, Sask	28.26	30.13	+.14	—0.7	— 6.1	8.4	— 9.8	0.46	+ 0.14	4.6
Kamloops, B. C	28.68	29.93	—.01	25.5	— 3.4	31.4	19.6	1.62	+ 0.84	15.2
Victoria, B. C	29.84	29.94	—.03	41.0	— 0.2	44.9	37.1	6.23	— 1.75	4.8
Barkerville, B. C	25.44	29.85	—.03	18.4	— 2.5	25.5	11.2	1.50	— 1.67	15.0
Hamilton, Bermuda	29.95	30.12	.00	64.8	+ 0.1	69.3	60.2	6.96	+ 2.47	

TABLE VII.—*Heights of rivers referred to zeros of gages, December, 1902.*

Stations.	Distance to mouth of river.	Danger line on gage.	Highest water. Height.	Highest water. Date.	Lowest water. Height.	Lowest water. Date.	Mean stage.	Monthly range.
Mississippi River.	Miles.	Feet.	Feet.		Feet.		Feet.	Feet.
St. Paul, Minn.[6]	1,954	14						
Red Wing, Minn.[2]	1,914	14						
Reeds Landing, Minn.[1]	1,884	12	3.3	1	0.6	15, 16	1.4	2.7
La Crosse, Wis.[7]	1,819	12						
Prairie du Chien, Wis.[3]	1,759	18						
Dubuque, Iowa.[5]	1,699	15	6.8	1	2.8	11-13	5.0	4.0
Leclaire, Iowa.[4]	1,609	10	4.6	1	0.2	15, 16	2.0	4.4
Davenport, Iowa	1,593	15	6.0	1	1.6	12, 15	3.5	4.4
Muscatine, Iowa	1,562	16	7.6	31	2.6	13, 14, 17	4.5	5.0
Galland, Iowa	1,472	8	3.8	1-3	1.3	13,14,16,19	2.6	2.5
Keokuk, Iowa	1,463	15	6.8	1	1.8	14	4.3	5.0
Hannibal, Mo	1,402	13	8.0	23, 24	2.9	16-19	5.4	5.1
Grafton, Ill	1,306	23	10.6	25	6.3	17, 18	8.7	4.3
St. Louis, Mo	1,264	30	14.7	1	8.8	17, 18	12.1	5.9
Chester, Ill	1,189	30	11.7	26, 27	8.2	18, 19	10.1	3.5
New Madrid, Mo	1,003	34	31.7	27	15.0	1	24.2	16.7
Memphis, Tenn	843	33	30.0	29, 30	8.4	1	20.5	21.6
Helena, Ark	767	42	38.8	30, 31	10.9	2	26.7	27.9
Arkansas City, Ark	635	42	40.8	31	18.0	1	29.6	22.8
Greenville, Miss	595	42	35.0	31	14.4	1	24.7	20.6
Vicksburg, Miss	474	45	37.9	31	13.3	1	25.8	24.6
New Orleans, La	108	16	13.0	30, 31	4.2	1	8.4	8.8
James River.								
Huron, S. Dak.[14]	210	9						
Missouri River.								
Bismarck, N. Dak	1,309	14	3.0	31	1.8	24	2.3	1.2
Pierre, S. Dak.[8]	1,114	14						
Sioux City, Iowa[8]	784	19						
Omaha, Nebr.[8]	669	18						
St. Joseph, Mo	481	10	1.3	30	—2.1	16	—0.2	3.4
Kansas City, Mo	388	21	12.0	31	3.5	15	6.6	8.5
Boonville, Mo	199	20	10.5	25	4.8	19	7.4	5.7
Hermann, Mo	103	24	10.8	26	6.0	31	8.4	4.8
Illinois River.								
Peoria, Ill	135	14	14.1	27-31	11.8	19	12.7	2.3
Youghiogheny River.								
Confluence, Pa	59	10	6.9	12	2.1	10	3.7	4.8
West Newton, Pa.[9]	15	23	10.9	12	1.7	2	4.6	9.2
Allegheny River.								
Warren, Pa	177	14	6.9	23	0.8	3	2.3	6.1
Oil City, Pa	123	13	7.5	23	1.3	2, 3	3.1	6.2
Parker, Pa	73	20	9.0	23	1.5	3	4.0	7.5
Freeport, Pa	29	20	14.7	23	3.5	2, 3	7.2	11.2
Monongahela River.								
Weston, W. Va.[10]	161	18	11.0	16	2.0	20	3.4	9.0
Fairmont, W. Va	119	25	18.8	13	2.0	27-29	6.3	16.8
Greensboro, Pa	81	18	21.0	13	7.7	29	11.2	13.4
Lock No. 4, Pa	40	28	27.0	13	7.9	29	13.3	19.1
Conemaugh River.								
Johnstown, Pa	64	7	7.0	12	0.9	1, 2	3.0	6.1
Red Bank Creek.								
Brookville, Pa	35	8	2.7	22	—0.1	1	1.7	2.8
Beaver River.								
Elwood Junction, Pa.[11]	10	14	7.4	17	2.5	10-12	3.7	4.9
Great Kanawha, River.								
Charleston, W. Va	58	30	11.5	14	4.0	29	6.8	7.5
Little Kanawha River.								
Glenville, W. Va	108	20	16.2	16	0.6	28	3.9	15.6
New River.								
Hinton, W. Va	95	14	4.7	18	1.4	30	2.8	3.3
Cheat River.								
Rowlesburg, W. Va.[11]	36	14	8.0	12	2.6	10, 26	4.4	5.4
Ohio River.								
Pittsburg, Pa	966	22	17.5	14	3.4	2	8.6	14.1
Davis Island Dam, Pa	960	25	16.8	14	5.4	2	9.6	11.4
Wheeling, W. Va	875	36	25.9	18	6.8	3	13.1	19.1
Parkersburg, W. Va	785	36	29.0	17	8.0	2	15.1	21.0

TABLE VII.—*Heights of rivers referred to zeros of gages*—Continued.

Stations.	Distance to mouth of river.	Danger line on gage.	Highest water. Height.	Highest water. Date.	Lowest water. Height.	Lowest water. Date.	Mean stage.	Monthly range.
Ohio River—Cont'd.	*Miles.*	*Feet.*	*Feet.*		*Feet.*		*Feet.*	*Feet.*
Point Pleasant, W. Va.	703	39	34.9	17	9.2	2	18.2	25.7
Huntington, W. Va.	660	50	39.8	18	13.3	2,3	22.3	26.5
Catlettsburg, Ky.	651	50	41.6	18	12.9	2,3	22.4	28.7
Portsmouth, Ohio	612	50	43.3	17	13.5	3	23.7	29.8
Cincinnati, Ohio	499	50	47.0	18	15.2	1,2	26.9	31.8
Madison, Ind	413	46	40.8	19	13.3	2	24.0	27.5
Louisville, Ky	367	28	24.3	19	7.7	2	12.0	16.6
Evansville, Ind	184	35	40.0	22	9.3	1	24.9	30.7
Paducah, Ky	47	40	35.4	24	10.2	1	24.2	25.2
Cairo, Ill.	1,073	45	39.0	26, 27	18.7	1	29.7	20.3
Muskingum River.								
Zanesville, Ohio	70	20	17.2	17	6.5	2	9.8	10.7
Scioto River.								
Columbus, Ohio[10]	110	17	10.0	17	2.8	1,2,4,5	4.7	7.2
Miami River.								
Dayton, Ohio[5]	77	18	6.7	17	1.9	10,11	3.3	4.8
Wabash River.								
Mount Carmel, Ill.	50	15	17.0	25	6.0	2	11.5	11.0
Licking River.								
Falmouth, Ky.	30	25	28.2	16	2.7	2	8.1	25.5
Kentucky River.								
High Bridge, Ky.	117	17	26.7	16	10.5	2,29	13.9	16.2
Frankfort, Ky.	65	31	26.0	16	7.0	2,29	10.7	19.0
Clinch River.								
Speers Ferry, Va.	156	20	3.7	17	0.3	11,12,29	0.9	3.4
Clinton, Tenn.	52	25	11.5	18	4.8	15	7.3	6.7
Holston River.								
Rogersville, Tenn.	103	14	3.1	6	1.8	29	2.3	1.3
French Broad River.								
Leadvale, Tenn.	70	15	1.8	4	−0.8	15,30	0.0	2.6
Tennessee River.								
Knoxville, Tenn.	635	29	3.4	5	1.4	30	2.2	2.0
Kingston, Tenn.	556	25	6.1	22	2.2	14,15	3.8	3.9
Chattanooga, Tenn.	452	33	9.6	23	3.4	15	6.0	6.2
Bridgeport, Ala.	402	24	7.6	23	2.1	15	4.5	5.5
Florence, Ala.	255	16	7.7	25	2.7	15	5.6	5.0
Riverton, Ala.	225	25	10.6	25	3.5	15	7.7	7.1
Johnsonville, Tenn.	95	24	19.9	17, 18	6.4	1	11.4	13.5
Cumberland River.								
Burnside, Ky.	516	50	34.4	17	4.1	31	11.5	30.3
Carthage, Tenn.	305	40	30.7	19	6.0	13	14.5	24.7
Nashville, Tenn	189	40	33.3	21	9.4	14	20.4	23.9
Clarksville, Tenn.	126	42	42.3	17	15.1	13	26.1	27.2
Arkansas River.								
Wichita, Kans.	832	10	1.6	22	1.2	5–8	1.4	0.4
Webbers Falls, Ind. T.	465	23	13.1	17	4.4	13,14	7.0	8.7
Fort Smith, Ark.	403	22	16.3	18	5.6	31	8.8	10.7
Dardanelle, Ark	256	21	16.8	18	6.5	31	10.2	9.8
Little Rock, Ark.	176	23	19.2	19	9.4	31	13.4	9.8
White River.								
Newport, Ark.	150	26	24.4	19, 20	10.3	13	15.8	14.1
Yazoo River.								
Yazoo City, Miss.	80	25	16.2	31	4.9	1	10.0	11.3
Red River.								
Arthur City, Tex.	638	27	16.5	16	7.0	31	10.9	9.5
Fulton, Ark.	515	28	32.2	1	16.0	31	25.5	16.2
Shreveport, La.	327	29	34.1	15, 16	21.6	1	30.7	12.5
Alexandria, La.	118	33	32.4	25–29	18.8	1	28.5	13.6
Ouachita River.								
Camden, Ark.	304	39	36.2	1	18.6	31	30.3	17.6
Monroe, La.	122	40	31.4	31	16.8	1	24.9	14.6
Atchafalaya River.								
Melville, La.	100	31	31.4	31	16.3	1	24.8	15.1
Penobscot River.								
Mattawamkeag, Me.[2]	87	.....	.....	.....	.....	.....	.....	.....
Montague, Me.[3]	60	.....	.....	.....	.....	.....	.....	.....
Kennebec River.								
Solon, Me	86	.....	1.0	1,7	0.0	6,9,10	0.5	1.0
Winslow, Me	46	.....	6.0	21	3.0	6	4.7	3.0
Merrimac River.								
Franklin Junction, N. H.	110	.....	.....	.....	.....	.....	.....	.....
Concord, N. H.[2]	94	.....	.....	.....	.....	.....	.....	.....
Manchester, N. H	68	.....	4.9	24, 25	2.8	30, 31	3.7	2.1
Connecticut River.								
Wells River, Vt.[2]	255	.....	.....	.....	.....	.....	.....	.....
White River Junction, Vt.[13]	209	.....	.....	.....	.....	.....	.....	.....
Bellows Falls, Vt.	170	12	5.0	23	1.9	7,8	3.1	3.1
Holyoke, Mass.	84	9	5.2	23, 24	0.3	11	3.0	4.9
Hartford, Conn.	50	13	14.7	24	3.6	8	7.6	11.1
Housatonic River.	*Miles.*	*Feet.*	*Feet.*		*Feet.*		*Feet.*	*Feet.*
Gaylordsville, Conn	50	15	8.6	23	3.4	9	5.5	5.2
Susquehanna River.								
Binghamton, N. Y.	306	16	11.7	23	3.4	14	5.3	8.3
Towanda, Pa.	262	16	11.5	23	1.7	11	3.9	9.8
Wilkesbarre, Pa	183	17	18.2	23	5.0	2,3	9.0	13.2
Harrisburg, Pa	69	17	12.7	24	2.4	1,2	5.5	10.3
West Branch Susquehanna.								
Lock Haven, Pa.[4]	65	12	4.0	23	−0.8	3	1.6	4.8
Williamsport, Pa	39	20	10.7	23	1.0	1	4.2	9.7
Juniata River.								
Huntingdon, Pa.[11]	90	24	7.9	22	3.0	1	4.7	4.9
Shenandoah River.								
Riverton, Va	58	22	1.9	5	−0.9	31	1.2	2.8
Potomac River.								
Cumberland, Md.	290	8	7.5	17	2.6	2	4.3	4.9
Harpers Ferry, W. Va	172	18	10.8	18	2.5	30, 31	5.4	8.3
James River.								
Lynchburg, Va	260	18	4.6	18	1.2	31	2.6	3.4
Richmond, Va.	111	12	6.1	4	0.4	12, 29–31	1.8	5.7
Roanoke River.								
Clarksville, Va	196	12	11.5	4	2.9	29	4.6	8.6
Weldon, N. C.	129	30	27.5	5	10.0	30	14.8	17.5
Cape Fear River.								
Fayetteville, N. C	112	38	21.6	4	5.3	30	10.9	16.3
Edisto River.								
Edisto, S. C	75	6	.....	.....	.....	.....	.....	.....
Pedee River.								
Cheraw, S. C	149	27	25.1	4	3.4	30	10.2	21.7
Black River.								
Kingstree, S. C	52	12	8.3	11	2.0	1	6.6	6.3
Lynch Creek.								
Effingham, S. C.	35	12	6.9	10	3.6	31	5.0	3.3
Santee River.								
St. Stephens, S. C.	97	12	10.1	13	7.5	1	8.5	2.6
Congaree River.								
Columbia, S. C.	37	15	11.2	4	0.8	28	3.2	10.4
Wateree River.								
Camden, S. C.	45	24	23.4	4	6.2	31	12.4	17.2
Waccamaw River.								
Conway, S. C.	40	7	5.7	17, 18	3.3	1	5.0	2.4
Savannah River.								
Calhoun Falls, S. C.	347	15	6.9	3	3.0	2	3.9	3.9
Augusta, Ga.	268	32	21.3	4	8.8	12, 29	11.3	12.5
Broad River.								
Carlton, Ga.	30	11	6.6	3	2.6	12, 28, 29	3.4	4.0
Flint River.								
Albany, Ga.	80	20	10.4	11	2.2	1	6.5	8.2
Chattahoochee River.								
Westpoint, Ga	239	20	10.1	17	2.9	15	4.6	7.2
Ocmulgee River.								
Macon, Ga.	125	18	13.3	3	3.6	17	5.8	9.7
Oconee River.								
Dublin, Ga	79	30	9.8	8	1.0	31	4.4	8.8
Coosa River.								
Rome, Ga.	271	30	6.8	4	1.1	15	3.4	5.7
Gadsden, Ga.	144	18	9.9	23	1.6	2,11,14,15	4.7	8.3
Alabama River.								
Montgomery, Ala.	265	35	21.2	19	2.7	15	9.1	18.5
Selma, Ala.[16]	212	35	25.6	20	3.8	15	12.0	21.8
Tombigbee River.								
Columbus, Miss.[15]	303	33	14.8	22	0.6	14, 15	6.7	14.2
Demopolis, Ala.[16]	155	35	30.1	20	6.8	15	.....	23.3
Black Warrior River.								
Tuscaloosa, Ala.	90	43	29.6	17	7.4	15	14.4	22.2
Brazos River.								
Kopperl, Tex	369	21	2.0	3	−0.4	29–31	0.6	2.4
Waco, Tex.	301	24	8.2	2	3.4	29–31	4.4	4.8
Booth, Tex	76	39	18.0	1, 5	2.5	29–31	9.0	15.5
Red River of the North.								
Moorhead, Minn.[6]	418	26	.....	.....	.....	.....	.....	.....
Columbia River.								
Umatilla, Oreg.	270	25	3.0	12–16	2.1	27	2.6	0.9
The Dalles, Oreg.	166	40	3.9	13	1.2	23, 24	2.7	2.7
Willamette River.								
Albany, Oreg	118	20	24.5	6	5.6	20	11.1	18.9
Portland, Oreg.	12	15	12.9	11	4.0	23	8.8	8.9
Sacramento River.								
Red Bluff, Cal.	265	23	12.4	26	2.5	1	5.9	9.9
Sacramento, Cal.	64	29	18.1	12	12.6	4–6	15.9	5.5

[1] Frozen 9 days. [2] 26 days. [3] 23 days. [4] 11 days. [5] 7 days. [6] 28 days. [7] 21 days. [8] 27 days. [9] 1 day. [10] 3 days. [11] 5 days. [12] 25 days. [13] 20 days. [14] entire month. [15] 28 days only. [16] 30 days only.