DESCRIPTION OF TABLES AND CHARTS.

Table I gives the data ordinarily needed for climatological studies for about 158 Weather Bureau stations making simultaneous observations at 8 a. m. and 8 p. m., daily, 75th meridian time, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

Table II gives a record of precipitation, the intensity of which 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
Rates per hour (inches)	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

It is impracticable to make this table sufficiently wide to accommodate on one line the record of accumulated falls that continue at an excessive rate for several hours. In this case *the record is broken at the end of each 50 minutes*, the accumulated amounts being recorded on successive lines until the excessive rate ends.

In cases where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest precipitation of any single storm has been given, also the greatest hourly fall during that storm.

The tipping-bucket mechanism is *dismounted* and removed when there is danger of snow or water freezing in the same. Table II records this condition by entering an asterisk (*).

Table III gives, for about 30 stations of the Canadian Meteorological Service, 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. The sealevel pressures have been computed at Washington by the method employed for reducing United States observations and described by F. H. Bigelow in this REVIEW, January, 1902, pp. 13–16; the altitudes are those furnished us on January 1, 1916.

Chart I.—Hydrographs for several of the principal rivers of the United States.

Chart II.—Tracks of centers of HIGH areas; and

Chart III.—Tracks of centers of LOW areas. The roman numerals show the chronological order of the centers. 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., 75th meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading or (Chart III) the lowest reading reported at or near the center at that time, and in both cases as reduced to sealevel and standard gravity.

Chart IV.—Temperature departures. This chart presents the departures of the monthly mean temperatures from the monthly normals. The normals used in computing the departures were computed for a period of 33 years (1873 to 1905) and are published in Weather Bureau Bulletin "R," Washington, 1908. Stations whose records were too short to justify the preparation of normals in 1908 have been provided with normals as adequate records became available, and all have been reduced to the 33-year interval 1873–1905. The shaded portions of the chart indicate areas of positive departures and unshaded portions indicate areas of negative departures. Generalized lines connect places having approximately equal departures of like sign. This chart of monthly temperature departures in the United States was first published in the MONTHLY WEATHER REVIEW for July, 1909.

Chart V.—Total precipitation. The scale of shades showing the depth is given on the chart. Where the monthly amounts are too small to justify shading and over sections of the country where stations are too widely separated or the topography is too diversified to warrant reasonable accuracy in shading, the actual depths are given for a limited number of representative stations. Amounts less than 0.005 inch are indicated by the letter T, and no precipitation by 0.

Chart VI.—Percentage of clear sky between sunrise and sunset. The average cloudiness at each Weather Bureau station is determined by numerous personal observations between sunrise and sunset. The difference between the observed cloudiness and 100 is assumed to represent the percentage of clear sky, and the values thus obtained are the basis of this chart. The chart does not relate to the nighttime.

Chart VII.—Isobars and isotherms at sealevel and prevailing wind directions. The pressures have been reduced to sealevel and standard gravity by the method described by Prof. Frank H. Bigelow on pages 13–16 of the REVIEW for January, 1902. The pressures have also been reduced to the mean of the 24 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 the 8 p. m. observations, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in the Annual Report of the Chief of the Weather Bureau, 1900–1901, volume 2, Table 27, pages 140–164.

The isotherms on the sealevel plane have been constructed by means of the data summarized in chapter 8 of volume 2 of the annual report just mentioned. The correction, t_0–t, or temperature on the sealevel plane minus the station temperature as given by Table 48 of that report, is added to the observed surface temperature to obtain the adopted sealevel temperature.

The prevailing wind directions are determined from hourly observations at the great majority of the stations. A few stations having no self-recording wind-direction apparatus determine the prevailing direction from the daily or twice-daily observations only.

Chart VIII.—Total snowfall. This is based on the reports from regular and cooperative observers and shows the depth in inches and tenths of the snowfall during the month. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given. Chart VIII is published only when the general snow cover is sufficiently extensive to justify its preparation.

Chart IX.—Average values of pressure, temperature, and prevailing wind directions, and storm tracks over the North Atlantic Ocean *for the corresponding month of last year*.

Chart X.—Presents *annually* the tracks of hurricanes of the year; tracks of the same month are all in one color. This chart was first published in the issue for September, 1916. All available reports to January 1, 1917, have been used.

Chart XI.—Presents *annually*, by means of a dot for each report, the frequency of earthquakes in the United States during the year. This chart was first published in the REVIEW for December, 1915.

TABLE I.—*Climatological data for Weather Bureau stations, December, 1916.*

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.										
	Barometer above sea-level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	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.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	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.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
New England.							28.8	−0.7										73	3.24	−0.1										5.7		
Eastport	76	67	85	29.65	29.74	−0.24	26.6	+1.3	52	1	32	−1	30	21	27	24	18	70	3.98	0.0	16	10,991	w.	77	ne.	16	7	6	18	6.7	18.9	5.8
Greenville	1,070	6	....	28.61	29.82	.....	17.8	.....	40	6	24	−8	30	12	27	.....	.....	.....	4.87	.....	12	.....	.....	.....	.....	.....	14	1	16	....	36.1	19.0
Portland, Me.	103	82	117	29.75	29.88	−.15	27.3	+0.2	49	5	33	6	31	21	19	23	17	67	6.09	+2.4	14	7,821	nw.	45	nw.	16	16	3	12	4.9	24.5	5.0
Concord	288	70	79	29.58	29.91	−.15	25.4	−1.0	48	5	32	2	30	19	20	.....	.....	.....	2.21	−1.1	11	5,301	nw.	32	nw.	22	14	6	11	5.0	12.5	7.3
Burlington	404	11	48	29.48	29.95	−.10	21.6	−0.9	50	5	28	−10	30	15	30	.....	.....	.....	2.79	+1.1	14	8,993	nw.	52	s.	27	5	10	16	7.2	20.2	10.0
Northfield	876	12	60	28.94	29.93	−.12	19.2	−1.3	52	5	27	−20	30	11	32	17	15	86	1.78	−0.9	16	4,819	n.	29	n.	26	4	10	17	7.5	19.1	10.0
Boston	125	115	188	29.75	29.89	−.16	32.6	+1.0	59	5	38	10	31	27	20	29	23	71	3.00	−0.4	12	9,447	w.	47	w.	23	14	7	10	4.8	9.5	T.
Nantucket	12	14	90	29.88	29.89	−.16	34.5	−2.2	55	5	40	13	31	30	19	31	26	74	3.24	−0.4	14	13,813	nw.	61	w.	22	12	8	11	5.8	5.4	....
Block Island	26	11	46	29.89	29.92	−.14	34.8	−1.8	56	5	40	16	31	30	22	31	26	73	2.84	−1.0	9	18,903	nw.	72	w.	22	14	4	13	5.6	3.9	....
Narragansett Pier	.....	9	....	.....	.....	.....	29.4	−3.1	51	4	34	9	31	24	21	.....	.....	.....	3.25	.....	12	.....	w.	.....	.....	.....	18	4	9	....	6.5	T.
Providence	160	215	251	29.73	29.91	−.15	31.4	−0.2	58	5	37	9	31	25	19	27	22	70	3.03	−0.8	11	12,190	nw.	82	w.	23	14	9	8	4.6	9.2	T.
Hartford	159	122	140	29.76	29.94	−.12	31.0	−1.2	57	5	36	12	31	26	19	27	21	69	2.99	−0.6	9	6,174	nw.	48	nw.	23	8	13	10	5.5	6.8	T.
New Haven	106	117	155	29.84	29.96	−.11	32.4	+0.6	58	5	38	14	18	27	18	29	24	75	3.71	+0.1	9	7,393	nw.	39	w.	22	11	12	8	5.1	8.4	....
Middle Atlantic States.							34.8	−0.4										69	3.51	+0.4										5.4		
Albany	97	102	115	29.85	29.96	−0.12	28.6	+1.1	54	5	34	3	30	23	21	25	20	72	2.70	+0.1	8	5,556	nw.	32	nw.	22	7	11	13	6.4	4.1	0.8
Binghamton	871	10	69	29.00	29.93	−.16	28.2	+0.5	59	5	34	5	20	22	27	.....	.....	.....	1.70	−0.7	14	4,633	nw.	32	nw.	6	2	9	20	7.5	7.1	2.0
New York	314	414	454	29.63	29.98	−.11	33.8	−0.6	62	5	40	15	16	28	21	29	22	65	3.97	+0.5	12	15,335	nw.	88	nw.	22	9	12	10	5.8	13.7	....
Harrisburg	374	94	104	29.62	30.04	−.08	32.4	−0.4	68	5	38	11	17	26	21	27	20	64	2.39	−0.3	13	5,523	nw.	38	nw.	22	9	12	10	5.1	7.5	T.
Philadelphia	117	123	190	29.89	30.03	−.08	35.7	0.0	64	5	41	16	16	30	21	31	25	67	5.45	+2.4	12	8,293	nw.	48	nw.	22	11	8	12	5.5	9.2	....
Reading	325	81	98	29.66	30.03	.....	32.4	.....	67	5	38	11	17	26	19	28	22	68	4.07	+0.8	14	6,121	nw.	36	nw.	22	11	8	12	5.5	10.5	T.
Scranton	805	111	119	29.11	30.00	−.10	30.4	+0.6	61	5	36	10	20	24	22	27	22	73	3.26	+0.6	13	5,811	sw.	40	w.	6	4	11	16	6.8	10.7	0.3
Atlantic City	52	37	48	29.96	30.02	−.08	35.3	−1.1	60	5	42	14	16	28	26	32	27	75	4.84	+1.1	13	6,428	nw.	30	w.	22	12	4	15	5.5	8.1	....
Cape May	18	13	49	30.03	30.05	−.06	36.6	−1.4	61	5	42	16	16	31	22	34	.....	.....	4.16	+0.4	10	8,154	nw.	35	nw.	16	11	13	7	4.9	8.4	....
Sandy Hook	22	10	57	29.99	30.01	.....	34.3	.....	60	5	39	17	16	30	18	31	26	73	4.67	.....	12	14,416	nw.	65	nw.	22	13	8	10	5.0	13.6	....
Trenton	190	159	183	29.79	30.00	.....	32.2	.....	64	5	38	13	16	26	22	28	22	70	4.87	+1.7	14	9,197	w.	54	nw.	22	10	9	12	5.5	10.7	T.
Baltimore	123	100	113	29.91	30.04	−.09	36.0	−0.9	70	5	42	13	16	30	20	31	24	64	3.94	+0.9	12	4,876	sw.	36	sw.	22	10	12	9	5.0	10.0	....
Washington	112	62	85	29.92	30.05	−.08	35.5	−0.6	71	5	43	13	16	28	26	30	23	65	4.03	+0.9	12	5,174	nw.	46	nw.	22	13	9	9	4.8	8.5	....
Lynchburg	681	153	188	29.29	30.06	−.08	38.6	+0.3	72	5	49	11	20	28	35	32	26	67	2.32	−1.0	9	5,259	w.	41	nw.	22	11	12	8	5.3	5.3	....
Norfolk	91	170	205	29.96	30.06	−.07	42.7	−0.3	68	8	51	20	16	35	29	37	32	70	3.11	−0.4	9	10,724	sw.	74	w.	22	16	6	9	4.2	0.8	....
Richmond	144	11	52	29.90	30.07	−.07	38.8	−2.2	72	5	48	12	20	30	35	33	27	70	3.40	+0.4	11	5,950	sw.	40	w.	22	15	6	10	5.0	9.1	....
Wytheville	2,293	49	55	27.62	30.09	−.06	34.2	−1.1	65	8	45	8	20	24	40	29	24	74	2.02	−1.7	12	5,484	w.	41	w.	22	15	16	10	4.5	9.5	....
South Atlantic States.							48.4	+1.3										73	2.52	−1.1										4.6		
Asheville	2,255	70	84	27.67	30.10	−0.06	38.8	+1.0	66	5	49	11	19	28	35	32	26	68	1.57	−2.5	13	7,466	nw.	40	n.	9	12	8	11	4.7	4.3	....
Charlotte	773	153	161	29.23	30.08	−.08	43.3	+0.4	69	8	52	18	19	35	27	37	31	69	2.32	−1.5	13	7,816	sw.	42	sw.	13	14	5	12	4.7	0.8	....
Hatteras	11	12	50	30.06	30.07	−.06	48.6	−0.2	69	9	56	28	31	41	28	44	40	75	2.10	−3.0	8	11,596	w.	53	nw.	16	14	9	8	4.5	0.0	....
Manteo	12	4	46	.....	.....	.....	46.2	.....	73	28	58	19	20	35	.....	.....	.....	.....	3.74	−1.4	7	.....	nw.	.....	.....	.....	18	3	10	....	0.0	....
Raleigh	376	103	110	29.67	30.08	−.07	42.7	0.0	71	8	52	20	19	34	32	37	32	71	2.25	−0.9	11	5,902	sw.	46	sw.	22	13	11	7	4.5	0.3	....
Wilmington	78	81	91	30.00	30.09	−.06	49.4	+2.2	76	28	60	27	19	39	31	44	39	74	1.19	−1.9	8	5,702	w.	38	w.	12	14	6	11	4.5	0.0	....
Charleston	48	11	92	30.04	30.09	−.06	53.0	+1.7	73	5	61	30	19	45	28	48	44	78	1.47	−1.7	12	7,717	ne.	44	s.	21	16	4	11	4.5	0.0	....
Columbia, S. C.	351	41	57	29.70	30.09	−.07	47.4	+0.2	73	8	57	26	19	38	30	39	30	59	1.40	−1.5	13	5,397	e.	34	w.	22	16	4	11	4.2	0.0	....
Augusta	180	62	77	29.90	30.10	−.06	48.5	+1.5	74	8	59	26	19	38	34	43	40	82	2.12	−1.3	13	4,118	nw.	29	nw.	12	14	7	10	4.5	0.0	....
Savannah	65	150	194	30.03	30.10	−.05	54.4	+3.1	78	8	63	28	19	46	27	48	43	74	2.06	−1.0	13	9,334	sw.	44	nw.	15	12	7	12	4.8	0.0	....
Jacksonville	43	200	245	30.05	30.10	−.04	58.0	+2.8	79	28	67	30	19	49	30	53	50	81	7.47	+4.5	12	8,896	sw.	54	sw.	12	9	11	11	5.4	0.0	....
Florida Peninsula.							67.9	+2.0										79	0.64	−1.4										3.3		
Key West	22	10	64	30.05	30.07	−0.01	71.7	+1.6	82	9	77	51	17	66	17	66	64	80	0.10	−1.7	3	7,440	se.	28	w.	18	22	9	0	2.6	0.0	....
Miami	25	71	79	30.06	30.09	.....	69.0	+1.0	79	12	75	42	16	63	25	63	61	78	0.25	−2.0	2	5,676	se.	30	w.	15	16	13	2	3.6	0.0	....
Sand Key	23	39	72	30.02	30.05	−.03	72.0	.....	77	9	74	56	16	70	11	67	65	78	0.18	.....	2	11,198	se.	44	nw.	18	25	6	0	2.2	0.0	....
Tampa	35	79	96	30.06	30.10	−.02	63.0	+3.5	82	27	72	38	19	54	28	57	54	80	1.60	−0.4	6	4,405	ne.	30	nw.	12	12	11	8	4.9	0.0	....
East Gulf States.							50.7	+1.5										77	4.90	+0.4										5.6		
Atlanta	1,174	190	216	28.83	30.09	−0.07	45.0	+0.4	67	8	53	18	19	37	28	39	34	71	3.57	−1.0	13	9,365	nw.	44	w.	21	13	5	13	5.2	T.	....
Macon	370	78	87	29.69	30.09	−.07	48.9	+2.1	76	5	60	25	19	38	35	43	38	74	2.08	−2.3	13	4,495	s.	30	w.	18	14	8	9	4.8	0.0	....
Thomasville	273	49	58	29.79	30.09	−.06	54.6	+2.1	76	8	65	27	19	45	35	49	45	78	6.59	+2.9	16	3,280	e.	21	nw.	18	10	9	12	5.8	0.0	....
Pensacola	56	140	182	30.02	30.08	−.07	55.2	+1.3	72	5	62	29	19	48	32	52	48	81	9.48	+5.3	16	9,946	e.	45	nw.	18	11	4	16	5.8	0.0	....
Anniston	741	9	57	29.29	30.10	−.06	45.0	+0.8	72	6	56	17	19	34	35	.....	.....	.....	3.31	−1.2	11	5,310	se.	27	w.	21	16	3	12	5.0	T.	....
Birmingham	700	11	48	29.32	30.10	−.06	46.8	−0.5	71	6	56	21	19	37	31	41	36	69	3.70	−0.9	8	6,188	s.	29	se.	20	11	5	15	5.7	T.	....
Mobile	57	125	161	30.00	30.06	−.09	53.9	+2.4	77	5	61	31	22	46	32	50	47	81	6.68	+2.1	13	7,423	se.	41	nw.	18	10	3	18	6.3	0.0	....
Montgomery	223	100	112	29.84	30.10	−.06	50.5	+1.4	74	4	60	26	19	41	31	45	41	74	3.39	−0.6	13	5,157	se.	36	nw.	18	10	9	12	5.5	0.0	....
Corinth	469	6	....	.....	.....	.....	41.0	.....	74	5	53	12	16	30	40	.....	.....	.....	7.74	.....	13	.....	s.	.....	.....	.....	9	15	7	....	3.8	....
Jackson	304	5	....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Meridian	375	85	93	29.66	30.07	−.09	49.2	+2.3	74	4	58	24	23	40	33	45	41	79	3.71	−1.5	10	4,635	s.	29	w.	18	8	5	18	6.4	0.0	....
Vicksburg	247	65	74	29.79	30.07	−.08	50.8	+1.4	77	4	60	20	22	41	32	46	43	80	3.70	−1.3	8	6,409	se.	26	nw.	18	10	8	13	5.6	0.0	....
New Orleans	51	76	84	30.00	30.06	−.07	57.4	+3.0	80	20	66	32	15	49	33	53	51	85	7.17	+2.7	11	5,249	se.	30	e.	25	10	5	16	6.0	0.0	....
West Gulf States.							49.8	+1.2										69	1.13	−1.7										4.9		
Shreveport	249	77	93	29.77	30.05	−0.08	49.8	+0.9	78	4	60	15	22	40	35	44	39	72	1.65	−2.7	7	6,231	s.	28	s.	26	14	7	10	4.6	0.0	....
Bentonville	1,303	11	44	28.60	30.00	−.13	35.9	−1.6	70	3	47	−8	22	25	45	.....	.....	.....	2.41	−0.4	8	5,646	s.	26	s.	19	16	3	12	4.5	11.8	....
Fort Smith	457	79	94	29.52	30.02	−.11	39.4	+2.3	73	3	49	1	15	29	38	34	28	67	2.16	−0.7	6	7,109	e.	36	sw.	11	15	3	13	4.9	8.3	....
Little Rock	357	139	147	29.66	30.05	−.09	43.4	−0.1	76	4	53	11	15	34	36	38	32	69	2.17	−2.1	8	7,858	sw.	34	sw.	4	9	8	14	5.7	3.2	....
Brownsville	57	3	40	.....	.....	.....	65.3	.....	85	20	76	33	22	55	38	.....	.....	.....	0.69	.....	2	.....	n.	.....	.....	.....	.....	.....	.....	....	0.0	....
Corpus Christi	20	69	77	30.00	30.02	−.10	59.9	+3.3	83	26	68	30	22	52	35	55	51	80	0.77	−0.6	4	8,223	se.	37	ne.	14	4	15	12	6.4	0.0	....
Dallas	512	109	117	29.47	30.03	.....	47.7	.....	80	3	59	14	22	36	38	.....	.....	.....	0.08	.....	3	7,821	e.	39	se.	19	13	8	10	4.7	T.	....
Fort Worth	670	106	114	29.28	30.00	−.12	48.0	+0.5	82	3	60	13	22	36	40	39	29	54	0.11	−1.1	2	8,334	nw.	40	s.	19	14	8	9	4.5	T.	....
Galveston	54	106	114	29.98	30.04	−.08	57.7	+1.4	77	20	64	26	22	51	33	51	50	80	0.79	−2.9	8	9,350	s.	43	n.	14	8	9	14	5.9	0.0	....
Houston	138	111	121	29.88	30.04	.....	56.8	+2.3	82	5	67	23	22	47	41	.....	.....	.....	3.68	.....	9	6,664	s.	33	s.	7	11	10	10	5.0	0.0	....
Palestine	510	64	72	29.48	30.02	−.10	51.4	+2.0	80	4	61	14	22	42	37	44	39	70	0.74	−2.9	4	6,564	sw.	30	s.	19	15	6	10	4.6	0.0	....
San Antonio	701	119	132	29.28	30.02	−.05	54.6	+1.5	81	20	66	22	22	43	47	46	38	62	0.33	−1.2	4	6,037	ne.	42	n.	8	18	7	6	3.6	0.0	....
Taylor	582	55	63	29.43	30.06	−.05	51.2	+0.6	80	4	63	18	22	39	40	.....	.....	.....	0.19	−2.4	3	7,260	sw.	38	sw.	19	11	12	8	4.8	0.0	....

TABLE I.—*Climatological data for Weather Bureau stations, December, 1916*—Continued.

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.													Precipitation.			Wind.										
	Barometer above sea-level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	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.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	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.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee.							34.8	− 1.8										73	3.45	0.0										5.7		
Chattanooga	762	189	213	29.28	30.11	−0.05	41.5	− 1.1	72	5	50	16	19	34	31	36	30	65	4.22	− 0.1	11	6,553	ne.	36	sw.	13	13	6	12	5.1	2.3	....
Knoxville	906	93	100	29.00	30.09	− .07	39.0	− 0.7	68	5	48	9	19	30	29	34	28	71	3.63	− 0.5	10	3,604	ne.	29	w.	13	11	9	11	5.2	9.3	....
Memphis	399	76	97	29.65	30.08	− .07	43.4	− 0.1	74	4	52	10	15	35	33	38	32	67	3.26	− 1.1	8	7,869	s.	33	nw.	13	15	7	9	4.6	5.5	....
Nashville	546	168	191	29.49	30.09	− .06	38.8	− 2.3	67	5	48	2	19	29	37	34	29	70	4.29	+ 0.5	10	8,208	w.	41	se.	26	13	8	10	5.1	10.0	....
Lexington	989	193	230	28.98	30.09	− .05	34.0	− 2.4	66	7	42	2	16	26	39	....	....	....	3.63	+ 0.3	16	11,782	sw.	44	w.	8	12	7	12	5.4	12.5	....
Louisville	525	219	255	29.49	30.09	− .05	34.8	− 3.3	69	7	43	2	15	27	36	31	25	70	4.12	+ 0.4	15	10,048	sw.	40	s.	4	10	9	12	5.7	9.7	....
Evansville	431	139	175	29.57	30.06	− .07	35.2	− 1.2	72	7	44	2	15	27	34	31	27	74	4.66	+ 0.8	13	9,817	sw.	36	sw.	13	12	11	8	5.0	12.9	....
Indianapolis	822	194	230	29.12	30.04	− .08	29.5	− 3.1	62	7	38	− 2	15	22	37	26	22	75	2.50	− 0.5	12	9,889	s.	44	w.	15	9	6	16	6.3	9.9	....
Terre Haute	575	96	129	29.39	30.03	.....	30.6	.....	68	7	39	− 3	22	22	36	27	22	76	2.39	.....	13	8,149	nw.	40	nw.	15	5	16	10	6.4	7.9	....
Cincinnati	628	11	51	29.36	30.06	− .07	31.6	− 2.8	63	4	40	1	15	23	38	28	24	76	3.60	+ 0.7	13	6,687	sw.	31	sw.	9	11	7	13	6.2	8.0	....
Columbus	824	173	222	29.14	30.05	− .07	30.4	− 2.4	63	8	38	0	16	22	34	27	23	77	3.59	+ 0.8	15	9,462	sw.	50	w.	8	13	6	12	5.4	13.5	T.
Dayton	899	181	216	29.04	30.03	.....	29.9	− 3.2	61	4	38	0	15	22	37	27	23	75	2.16	− 0.5	14	8,293	sw.	43	w.	16	10	7	14	6.0	6.9	....
Pittsburgh	842	353	410	29.11	30.04	− .07	32.9	− 1.8	70	8	41	1	16	25	37	28	23	73	2.01	− 0.7	13	9,385	w.	48	w.	9	6	6	19	6.9	5.8	T.
Elkins	1,940	41	50	27.95	30.09	− .03	32.4	− 0.1	70	8	44	1	16	20	41	27	22	76	3.20	− 0.2	13	3,450	w.	33	w.	9	7	8	16	6.6	16.4	....
Parkersburg	638	77	84	29.40	30.08	− .06	34.2	− 1.0	69	8	44	3	16	25	36	29	25	75	3.48	+ 0.7	15	4,600	se.	34	nw.	22	9	8	14	5.9	5.4	....
Lower Lake Region.							27.1	− 2.0										74	2.54	− 0.4										7.4		
Buffalo	767	247	280	29.10	29.96	−0.10	28.4	− 1.7	66	8	35	6	16	22	33	26	23	83	3.37	0.0	18	15,062	w.	74	sw.	9	1	9	21	8.0	28.8	7.0
Canton	448	10	61	29.44	29.94	.....	18.6	− 4.1	54	9	27	−21	30	10	38	....	....	....	2.53	− 1.1	13	8,018	w.	43	w.	9	6	4	21	7.5	23.5	8.7
Oswego	335	76	91	29.58	29.96	− .10	27.9	− 1.3	56	5	34	3	31	22	23	26	22	79	1.91	− 1.7	16	9,814	s.	44	nw.	6	1	5	25	8.6	25.7	11.0
Rochester	523	97	113	29.38	29.98	− .08	28.2	− 0.7	65	8	34	8	16	22	31	25	20	73	3.09	+ 0.2	22	7,889	w.	38	w.	6	3	7	21	7.8	24.9	10.0
Syracuse	597	97	113	29.31	29.97	− .10	27.2	− 0.9	59	5	34	6	31	21	28	25	21	76	2.86	+ 0.2	18	9,633	w.	58	nw.	6	3	7	21	7.8	19.8	4.5
Erie	714	130	166	29.18	29.97	− .10	30.2	− 1.5	67	8	36	10	16	24	32	27	23	76	2.87	− 0.2	19	13,444	sw.	49	se.	27	2	2	27	8.3	20.3	2.7
Cleveland	762	190	201	29.16	30.01	− .08	29.0	− 2.1	63	8	36	2	16	22	36	26	21	74	2.06	− 0.5	19	11,688	sw.	49	ne.	22	4	9	18	7.2	12.3	0.3
Sandusky	629	62	103	29.30	30.01	− .08	28.2	− 2.9	63	8	35	0	16	21	25	25	21	77	2.09	− 0.3	18	10,716	sw.	43	sw.	9	10	8	13	6.2	7.6	T.
Toledo	628	208	243	29.30	30.01	− .07	27.6	− 2.9	59	4	35	− 1	15	20	26	25	21	78	2.42	+ 0.1	17	11,353	sw.	46	w.	24	11	5	15	6.1	9.1	0.2
Fort Wayne	856	113	124	29.07	30.03	.....	26.2	− 1.1	61	4	34	− 3	15	18	29	23	19	77	2.81	.....	17	8,017	sw.	33	sw.	9	5	12	14	6.2	9.0	T.
Detroit	730	218	245	29.17	29.98	− .09	26.9	− 2.6	56	8	33	− 1	15	20	30	24	21	82	2.24	− 0.2	17	10,102	w.	41	sw.	9	6	6	19	7.2	11.3	1.5
Upper Lake Region.							20.3	− 4.1										82	2.16	+ 0.1										6.4		
Alpena	609	13	92	29.24	29.93	−0.09	22.2	− 2.6	48	5	29	− 3	15	15	25	20	18	87	2.24	0.0	13	9,438	w.	44	se.	26	5	11	15	6.9	14.9	4.2
Escanaba	612	54	60	29.24	29.94	− .09	17.4	− 4.2	45	8	25	−10	22	10	32	15	12	78	1.38	− 0.3	11	7,062	nw.	33	se.	26	16	5	10	4.6	7.4	4.5
Grand Haven	632	54	92	29.25	29.96	− .09	25.8	− 4.3	57	8	31	2	15	20	26	24	20	78	2.78	+ 0.3	17	10,228	w.	48	w.	5	6	5	20	7.2	21.4	4.3
Grand Rapids	707	70	87	29.18	29.97	− .08	25.4	− 3.4	59	4	31	1	15	20	23	23	20	80	3.81	+ 1.3	19	5,114	w.	28	nw.	5	7	2	22	7.8	23.1	4.5
Houghton	684	62	99	29.15	29.91	− .11	16.6	− 4.3	46	3	24	−16	19	10	32	....	....	....	2.29	− 0.2	19	7,666	e.	39	e.	26	6	7	18	7.2	21.6	16.0
Lansing	878	11	62	28.99	29.97	.....	22.7	− 4.1	59	4	31	− 7	15	14	26	21	18	87	2.11	0.0	17	4,612	w.	23	w.	5	8	2	21	7.2	11.6	3.0
Ludington	637	60	66	29.22	29.94	.....	25.0	.....	55	7	30	5	15	20	24	23	20	83	3.48	.....	20	9,126	w.	38	w.	5	6	2	23	7.4	36.2	8.0
Marquette	734	77	111	29.11	29.94	− .08	18.6	− 4.3	48	4	26	− 9	15	12	32	16	13	82	3.09	+ 0.6	11	9,460	w.	46	e.	19	10	7	14	6.1	30.8	12.4
Port Huron	638	70	120	29.25	29.97	− .09	24.8	− 2.5	58	8	32	− 2	18	17	32	22	20	85	1.35	− 0.8	16	9,215	w.	40	w.	5	7	12	12	6.2	7.9	2.8
Saginaw	641	48	82	29.24	29.96	.....	22.9	.....	57	4	30	− 3	19	16	24	21	19	88	2.10	+ 0.2	15	7,551	w.	34	sw.	5	5	8	18	7.3	7.5	3.4
Sault Ste. Marie	614	11	61	29.20	29.93	− .07	18.4	− 2.1	43	3	25	− 2	14	12	28	18	14	82	3.31	+ 1.0	20	7,810	se.	52	nw.	5	5	5	21	7.6	25.9	10.6
Chicago	823	140	310	29.08	30.00	− .08	26.0	− 3.3	64	7	33	− 2	22	19	33	23	18	70	2.58	+ 0.5	13	9,778	nw.	35	w.	24	15	5	11	4.9	7.1	0.4
Green Bay	617	109	144	29.26	29.95	− .09	16.4	− 4.9	50	7	24	−15	22	9	31	14	9	75	1.04	− 0.8	8	8,894	sw.	37	w.	5	13	6	12	5.6	8.5	3.8
Milwaukee	681	119	133	29.21	29.97	− .09	21.0	− 5.0	58	7	28	− 9	22	14	32	18	16	84	1.81	− 0.1	12	8,429	w.	45	se.	26	16	5	10	4.6	7.9	2.5
Duluth	1,133	11	47	28.68	29.97	− .08	8.8	− 8.9	45	3	17	−23	18	1	25	6	4	86	0.38	− 0.8	7	12,090	w.	48	nw.	15	13	8	10	5.0	2.9	1.2
North Dakota.							2.8	− 9.0										85	1.27	+ 0.6										4.7		
Moorhead	940	8	57	28.94	30.02	−0.06	4.4	− 6.3	53	4	14	−31	21	− 6	41	2	− 2	80	1.17	+ 0.4	11	6,332	s.	36	nw.	14	17	9	5	3.5	11.7	11.1
Bismarck	1,674	8	57	28.16	30.06	− .02	3.6	−11.4	60	3	15	−42	20	− 8	46	2	0	88	1.52	+ 0.9	11	7,025	nw.	40	nw.	14	12	11	8	4.7	21.7	15.5
Devils Lake	1,482	11	44	28.30	29.98	− .08	0.8	− 7.2	54	3	10	−37	19	− 9	41	− 1	− 3	86	0.90	+ 0.5	9	8,116	w.	44	n.	14	12	7	12	5.3	15.9	9.9
Grand Forks	835	12	89	.....	.....	.....	0.6	.....	52	4	12	−34	19	−11	46	− 2	.....	....	1.66	.....	9	.....	nw.	62	nw.	15	16	9	6	....	16.9	6.6
Williston	1,872	41	48	27.93	30.03	− .03	2.6	−11.0	52	3	12	−33	20	− 7	41	2	− 1	85	1.50	+ 0.8	6	5,580	sw.	34	nw.	14	12	9	10	5.3	14.1	9.8
Upper Mississippi Valley.							23.2	− 4.1										76	1.46	− 0.3										5.2		
Minneapolis	918	10	208	28.94	29.97	.....	12.4	.....	55	4	20	−24	21	4	31	....	....	....	0.98	0.0	10	8,450	w.	42	nw.	15	11	6	14	5.6	13.6	8.2
St. Paul	837	201	236	29.03	29.98	−0.10	12.2	− 7.1	53	4	21	−24	21	4	31	....	....	....	1.21	+ 0.2	10	9,217	nw.	52	nw.	15	12	9	10	5.0	11.7	8.5
La Crosse	714	11	48	29.17	29.98	− .10	14.9	− 7.9	57	7	24	−21	21	6	33	....	....	....	1.20	− 0.1	9	3,987	w.	20	sw.	27	12	7	12	5.4	16.1	7.8
Madison	974	70	78	28.90	30.01	− .07	18.0	− 4.7	60	7	26	−14	21	10	30	15	11	76	1.24	− 0.5	10	7,263	w.	28	se.	26	11	5	15	5.7	10.1	6.2
Wausau	1,247	4	....	28.55	29.95	.....	13.4	.....	53	4	22	−16	18	5	33	....	....	....	1.15	.....	11	.....	nw.	....	.....	....	13	9	9	4.7	8.9	5.2
Charles City	1,015	10	49	28.88	30.01	− .09	14.6	− 4.4	54	7	25	−21	21	4	39	12	9	84	1.11	− 0.2	7	5,660	nw.	25	se.	26	11	11	9	4.8	11.0	5.7
Davenport	606	71	79	29.33	30.02	− .08	22.3	− 4.9	66	7	31	−11	22	14	31	20	16	79	1.44	− 0.2	13	5,915	nw.	32	nw.	15	11	10	10	5.3	8.0	2.6
Des Moines	861	84	97	29.05	30.00	− .11	22.0	− 3.7	62	4	32	−14	21	12	33	18	13	70	0.65	− 0.7	6	5,207	nw.	24	nw.	16	11	7	13	5.3	7.9	3.8
Dubuque	698	81	96	29.25	30.04	− .06	19.3	− 5.2	61	7	28	−15	21	11	30	16	12	76	0.95	− 0.8	10	4,946	nw.	26	nw.	15	14	4	13	5.3	6.0	3.1
Keokuk	614	64	78	29.33	30.04	− .08	26.0	− 3.4	67	7	35	−10	21	17	35	23	18	75	0.73	− 1.1	7	6,054	nw.	33	w.	15	9	15	7	4.7	2.6	....
Cairo	356	87	93	29.65	30.05	− .10	37.7	− 0.8	74	4	46	3	15	29	31	33	29	73	4.46	+ 1.1	9	7,521	n.	34	se.	26	13	9	9	4.8	3.3	....
Peoria	609	11	45	29.34	30.03	− .08	25.2	− 2.9	67	4	34	−11	22	16	38	22	19	83	1.75	− 0.6	9	6,116	w.	32	w.	15	11	10	10	5.2	3.9	T.
Springfield, Ill	644	10	91	29.32	30.02	− .10	28.6	− 2.7	68	4	36	− 3	22	21	35	25	20	72	1.22	− 1.2	10	7,195	nw.	32	nw.	15	8	11	12	5.9	1.7	T.
Hannibal	534	74	109	29.43	30.02	− .10	27.9	− 3.4	66	7	37	− 6	21	19	35	....	....	....	1.59	− 0.1	9	7,155	sw.	33	nw.	15	9	12	10	5.3	3.3	....
St. Louis	567	265	303	29.40	30.02	− .11	33.6	− 1.9	71	4	42	2	15	26	36	29	24	71	2.16	− 0.1	8	10,815	s.	42	s.	7	12	7	12	5.2	2.5	....
Missouri Valley.							22.4	− 4.5										74	0.90	− 0.2										4.8		
Columbia, Mo	781	11	84	29.15	30.02	−0.10	29.8	− 3.1	66	7	38	0	22	21	33	....	....	....	1.66	− 0.4	9	6,856	se.	30	w.	15	9	9	13	5.8	1.9	....
Kansas City	963	161	181	28.94	30.01	− .11	29.9	− 1.6	66	4	39	− 3	21	21	32	26	20	68	0.34	− 1.0	9	9,267	nw.	37	nw.	15	13	10	8	4.5	0.9	....
St. Joseph	967	11	49	28.94	30.01	.....	27.0	.....	66	4	37	− 9	21	17	32	24	18	71	0.48	.....	7	6,942	nw.	31	nw.	12	12	7	12	4.8	0.6	T.
Springfield, Mo	1,324	98	104	28.58	30.02	− .11	32.2	− 2.3	74	3	42	− 6	22	24	34	29	25	75	2.07	− 0.6	10	9,261	se.	37	w.	12	16	5	10	4.5	16.7	....
Iola	984	11	50	28.93	30.02	− .07	30.2	− 2.3	69	4	41	− 1	14	20	35	....	....	....	0.68	− 0.2	6	6,017	s.	25	nw.	12	13	10	8	4.4	2.5	....
Topeka	987	85	101	.....	.....	.....	28.6	− 2.5	70	4	39	− 6	21	19	31	....	....	....	0.70	− 0.2	7	7,471	nw.	35	nw.	12	14	11	6	4.3	1.9	T.
Drexel	1,399	10	53	28.57	30.02	.....	19.1	.....	62	3	31	−20	21	8	35	16	12	80	0.66	.....	7	8,404	nw.	38	se.	25	15	8	8	4.3	6.1	2.3
Lincoln	1,189	11	84	28.70	30.02	− .10	22.2	− 4.7	66	4	33	−15	21	11	36	18	12	67	0.48	− 0.2	8	7,838	n.	44	nw.	16	15	10	6	4.2	4.9	0.7
Omaha	1,105	115	122	28.79	30.02	− .09	22.2	− 4.9	64	4	32	−14	21	12	35	19	13	69	0.65	− 0.3	7	6,603	nw.	32	nw.	7	16	6	9	4.3	5.8	1.5
Valentine	2,598	47	54	27.18	30.03	− .07	14.8	− 9.7	63	2	28	−29	20	2	44	11	8	83	0.50	− 0.1	10	7,147	w.	38	s.	6	14	9	8	4.5	5.4	3.3
Sioux City	1,135	94	164	28.74	30.02	− .10	17.2	− 5.4	59	4	28	−16	20	7	40	15	10	77	1.50	+ 0.8	8	9,365	nw.	46	nw.	16	13	10	8	4.6	16.3	8.0
Huron	1,306	59	74	28.57	30.04	− .06	11.0	− 4.7	61	3	23	−26	20	− 1	46	8	2	74	1.14	+ 0.5	8	8,421	nw.	42	nw.	14	8	12	11	5.9	8.6	5.8
Pierre	1,572	70	75	28.29	30.05	− .05	12.5	− 7.6	66	2	24	−24	20	1	44	9	4	72	0.61	+ 0.1	9	6,841	nw.	45	nw.	26	13	7	11	5.3	11.7	3.1
Yankton	1,233	49	57	28.64	30.02	− .09	16.7	− 5.5	64	3	27	−20	20	6	42	....	....	....	0.49	− 0.2	8	6,303	nw.	32	nw.	16	11	8	12	5.5	5.8	1.2

TABLE I.—*Climatological data for Weather Bureau stations, December, 1916*—Continued.

Districts and stations.	Elevation of instruments.			Pressure			Temperature of the air.													Precipitation.			Wind.										
	Barometer above sea-level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	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.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	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.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Northern Slope.							14.3	− 9.4										74	1.24	+ 0.4										5.9		
Billings	3,140	5	....	....	....	....	15.0	....	56	2	25	−15	28	5	43	....	....	....	0.49	....	8	....	sw.	....	....	....	12	13	6	....	....	....
Havre	2,505	11	44	27.26	30.04	−0.01	7.0	−14.2	53	2	17	−33	28	−3	45	7	5	86	1.05	+ 0.4	10	6,321	sw.	34	w.	15	8	9	14	6.0	10.7	10.2
Helena	4,110	87	114	25.66	30.02	− .11	17.0	− 7.8	51	1	24	−20	27	10	31	14	9	72	1.03	+ 0.2	12	5,404	sw.	38	w.	14	6	13	12	6.0	14.5	3.2
Kalispell	2,962	11	34	26.85	30.05	− .02	14.9	− 9.0	45	3	22	−20	26	7	25	14	12	84	1.70	− 0.2	19	2,759	w.	30	sw.	4	2	9	20	7.5	16.3	10.3
Miles City	2,371	26	48	27.40	30.09	− .01	10.0	−11.0	58	3	20	−28	28	0	38	7	2	75	1.99	+ 1.4	15	4,493	se.	27	sw.	4	8	7	6	4.9	19.2	11.7
Rapid City	3,259	50	58	26.46	30.06	− .03	15.2	−10.8	60	3	26	−28	20	4	42	11	3	62	0.75	+ 0.3	9	6,010	w.	44	n.	12	9	12	10	5.6	7.9	2.4
Cheyenne	6,088	84	101	23.78	29.95	− .14	21.0	− 8.0	50	2	31	−11	28	11	32	17	10	63	0.34	0.0	9	13,594	w.	65	w.	18	15	6	10	4.4	5.2	T.
Lander	5,372	60	68	24.46	30.05	− .10	12.2	− 7.0	48	1	25	−21	27	0	47	9	3	67	1.37	+ 0.7	8	3,107	sw.	44	w.	22	8	14	9	5.5	14.6	5.4
Sheridan	3,790	10	47	25.95	30.02	....	14.6	....	53	3	26	−17	28	4	40	12	8	82	1.07	....	12	4,432	nw.	38	nw.	6	6	9	16	7.0	15.7	6.6
Yellowstone Park	6,200	11	48	23.68	30.05	− .11	12.2	− 9.4	45	1	21	−14	26	4	28	11	7	78	2.47	+ 0.6	15	5,840	s.	34	s.	3	4	8	19	7.5	33.9	26.2
North Platte	2,821	11	51	26.99	30.06	− .04	19.4	− 7.2	66	2	33	−17	21	6	42	14	9	75	0.42	0.0	8	5,272	w.	32	n.	7	14	8	9	4.6	4.4	1.6
Middle Slope.							29.9	− 3.0										66	0.67	− 0.1										4.3		
Denver	5,292	106	113	24.54	29.95	−0.13	26.5	− 5.7	65	6	38	− 5	27	14	42	21	12	58	1.09	+ 0.5	8	6,078	se.	35	n.	17	14	9	8	4.6	16.3	1.0
Pueblo	4,685	80	86	25.13	29.92	− .16	29.8	− 1.9	68	6	45	− 2	21	15	47	23	12	54	0.23	− 0.2	4	6,416	nw.	42	w.	19	24	5	2	3.0	5.3	....
Concordia	1,392	50	58	28.49	30.02	− .09	25.6	− 3.9	69	4	37	−14	21	14	39	21	17	77	0.88	+ 0.4	6	6,065	nw.	36	nw.	12	8	12	11	5.8	8.8	1.6
Dodge City	2,509	11	51	27.30	30.00	− .10	29.0	− 2.6	73	2	44	− 6	21	14	52	22	17	72	0.30	− 0.3	6	7,148	n.	33	s.	6	16	10	5	3.7	3.0	T.
Wichita	1,358	139	158	28.51	29.99	− .12	31.0	− 3.2	68	4	42	− 4	21	20	37	27	21	70	0.46	− 0.3	5	10,312	s.	42	nw.	12	13	10	8	4.7	1.2	....
Altus	1,410	5	....	....	....	....	40.0	....	82	2	54	6	22	26	45	....	....	....	0.13	....	2	....	n.	....	....	....	24	1	6	....	1.0	....
Muskogee	652	4	....	....	....	....	36.1	....	72	5	47	− 4	22	25	49	....	....	....	0.87	....	5	....	n.	....	....	....	20	2	9	....	5.0	....
Oklahoma	1,214	10	47	28.69	30.01	− .10	37.6	− 1.0	77	3	49	2	21	26	38	31	25	67	1.05	− 0.7	4	11,469	s.	45	s.	10	18	9	4	3.8	6.5	....
Southern Slope.							43.5	− 1.0										51	0.33	− 0.5										3.3		
Abilene	1,738	10	52	28.16	30.00	−0.11	46.5	− 1.5	81	2	60	15	21	33	40	35	22	45	0.02	− 1.1	1	8,159	s.	35	sw.	22	20	5	6	3.4	0.2	....
Amarillo	3,676	10	49	26.16	29.98	− .11	36.6	+ 0.2	73	4	50	0	21	23	40	28	20	63	0.88	0.0	7	9,145	sw.	40	sw.	23	24	7	0	3.1	6.3	....
Del Rio	944	64	71	29.02	30.02	− .08	51.5	− 0.9	81	17	64	22	9	39	49	....	....	....	0.06	− 0.8	4	6,016	e.	40	nw.	8	20	5	6	3.5	0.0	....
Roswell	3,566	75	85	26.30	29.98	− .09	39.3	− 1.9	75	2	56	11	21	23	45	29	15	45	0.36	− 0.2	2	5,868	sw.	48	sw.	25	20	7	4	3.1	T.	....
Southern Plateau.							38.4	− 3.7										50	0.71	0.0										2.9		
El Paso	3,762	110	133	26.16	29.98	−0.05	45.0	+ 0.2	71	2	57	17	9	32	33	34	17	37	0.32	− 0.2	2	8,149	nw.	52	sw.	25	19	10	2	2.7	T.	....
Santa Fe	7,013	57	66	23.11	30.00	− .06	27.9	− 2.4	58	5	38	2	8	18	28	22	14	60	0.17	− 0.6	5	6,110	n.	46	sw.	25	12	14	5	4.7	5.4	T.
Flagstaff	6,908	8	57	23.25	29.98	− .08	25.8	− 2.6	59	5	40	−10	29	12	50	20	....	....	1.11	....	5	....	w.	45	w.	23	16	9	6	....	17.5	9.0
Phoenix	1,108	76	81	28.85	30.03	− .01	47.1	− 4.8	78	1	62	24	9	33	44	38	29	56	0.39	− 0.2	2	3,449	e.	34	sw.	25	22	5	4	2.3	T.	....
Yuma	141	9	54	29.88	30.04	− .01	50.6	− 5.1	77	5	64	30	9	38	40	40	26	45	0.73	+ 0.3	2	4,336	n.	27	n.	7	25	4	2	1.8	0.0	....
Independence	3,910	11	42	25.97	30.04	− .08	34.1	− 7.5	72	12	49	− 2	27	19	46	....	....	....	1.92	+ 1.1	3	....	sw.	....	....	....	17	7	7	....	25.0	1.0
Middle Plateau.							26.8	− 4.5										68	0.89	− 0.1										5.4		
Reno	4,532	74	81	25.44	30.08	−0.07	31.2	− 2.5	56	19	42	4	25	20	36	26	20	66	0.97	− 0.7	10	5,141	w.	44	se.	2	12	11	8	4.8	12.5	4.8
Tonopah	6,090	12	20	24.00	30.08	....	28.2	....	48	1	35	6	26	22	24	24	17	64	0.52	− 0.3	2	8,034	se.	44	nw.	19	12	9	10	4.7	4.0	0.7
Winnemucca	4,344	18	56	25.59	30.10	− .08	26.6	− 4.1	57	5	40	− 8	27	13	41	21	15	68	0.26	− 0.7	6	6,080	sw.	48	sw.	24	8	10	13	6.2	3.7	1.9
Modena	5,479	10	43	24.55	30.06	− .06	23.4	− 8.3	56	1	37	−24	27	10	41	18	11	65	0.67	+ 0.1	3	8,162	w.	45	s.	24	16	11	4	3.8	10.1	5.4
Salt Lake City	4,360	147	189	25.57	30.05	− .10	27.8	− 4.3	57	5	35	2	28	21	28	24	19	70	2.64	+ 1.3	15	5,531	se.	42	nw.	6	5	8	18	7.3	31.7	12.0
Grand Junction	4,602	82	96	25.34	30.01	− .09	24.8	− 3.4	55	6	35	0	28	14	34	21	16	74	0.27	− 0.2	8	4,292	nw.	38	w.	23	9	14	8	5.4	5.8	....
Northern Plateau.							26.4	− 5.6										79	1.75	0.0										7.8		
Baker	3,471	48	53	26.39	30.07	−0.09	22.6	− 4.8	45	1	30	−10	27	15	25	21	17	78	1.12	− 0.4	14	4,767	se.	34	sw.	5	7	7	17	6.8	11.9	4.5
Boise	2,739	78	86	27.16	30.11	− .09	28.4	− 3.8	53	2	35	3	31	22	25	26	20	70	1.29	− 0.4	14	3,678	nw.	26	se.	5	6	8	17	7.2	10.8	2.2
Lewiston	757	40	48	29.23	30.07	− .06	30.2	− 7.3	53	3	36	4	29	24	20	....	....	....	1.59	+ 0.1	14	2,096	e.	26	w.	3	2	8	21	8.0	9.0	1.0
Pocatello	4,477	60	68	25.38	30.04	− .15	23.4	− 5.0	51	1	30	− 7	30	17	31	21	18	78	2.31	+ 1.4	16	9,033	se.	40	sw.	19	2	9	20	7.8	19.7	15.0
Spokane	1,929	101	110	27.93	30.05	− .03	23.6	− 7.2	46	3	29	− 8	26	18	19	23	20	83	1.49	− 1.1	15	3,483	sw.	28	sw.	3	1	7	23	8.3	13.2	8.2
Walla Walla	991	57	65	28.96	30.06	− .06	30.5	− 5.5	57	3	36	5	29	25	22	28	26	85	2.68	+ 0.6	17	3,356	s.	31	w.	3	0	7	24	8.7	13.8	4.7
North Pacific Coast Region.							38.8	− 3.4										87	5.49	− 2.2										8.6		
North Head	211	11	56	29.74	29.98	−0.05	40.4	− 3.9	48	3	44	31	29	37	10	39	38	93	6.38	− 1.1	25	11,551	e.	96	se.	3	1	4	26	8.8	2.4	....
North Yakima	1,071	4	....	....	....	....	26.3	....	51	3	34	0	29	19	26	....	....	....	0.74	....	8	....	nw.	....	....	....	3	7	21	....	12.0	5.5
Port Angeles	42	8	48	29.95	29.98	....	36.8	....	49	18	41	26	1	33	13	....	....	....	4.94	− 0.2	18	3,641	se.	27	sw.	4	0	2	29	9.2	2.0	T.
Seattle	125	215	250	29.88	30.01	.00	38.0	− 3.2	51	2	42	27	29	34	13	36	34	84	4.13	− 1.9	20	6,469	se.	44	s.	3	1	3	27	9.0	3.7	....
Tacoma	213	113	120	29.77	30.01	.00	37.8	− 2.5	51	2	42	22	29	34	14	37	35	89	3.65	− 3.7	18	4,061	sw.	30	sw.	3	0	4	27	9.1	1.5	....
Tatoosh Island	109	7	57	29.83	29.93	− .03	39.6	− 4.3	48	3	42	32	28	37	10	38	37	90	11.67	− 2.9	25	13,214	e.	78	s.	3	2	6	23	8.4	1.2	....
Medford	1,425	4	....	....	....	....	32.6	....	58	1	39	9	30	26	27	....	....	....	1.71	....	16	....	e.	....	....	....	1	2	28	....	9.6	4.6
Portland, Oreg.	153	68	106	29.87	30.03	− .04	38.1	−23.2	51	2	42	24	30	34	12	36	33	81	3.81	− 3.5	16	4,845	se.	28	sw.	3	0	7	24	8.5	1.6	0.8
Roseburg	510	9	57	29.51	30.07	− .04	39.0	− .9	53	2	44	28	16	34	15	37	35	87	3.88	− 2.0	17	2,308	s.	36	sw.	5	1	15	15	7.4	2.2	....
Middle Pacific Coast Region.							45.0	− 3.6										78	4.41	0.0										5.1		
Eureka	62	73	89	30.02	30.09	−0.03	43.2	− 4.8	59	1	49	31	8	37	22	42	41	90	5.47	− 1.8	17	4,509	se.	40	w.	23	6	9	16	6.4	T.	....
Mount Tamalpais	2,375	11	18	27.56	30.07	− .05	42.2	− 5.4	61	15	47	28	26	38	16	37	31	71	5.42	+ 1.5	15	17,155	nw.	74	nw.	20	12	5	14	5.5	2.3	....
Point Reyes Light	490	7	18	29.51	30.03	....	46.9	− 3.7	62	15	51	35	26	42	17	....	....	....	2.97	....	12	14,388	nw.	72	s.	2	15	5	11	5.1	0.0	....
Red Bluff	332	50	56	29.70	30.07	− .07	44.1	− 2.3	67	13	53	27	30	36	37	39	34	71	3.56	− 0.9	9	4,420	nw.	27	se.	23	17	5	9	4.4	5.8	....
Sacramento	69	106	117	30.01	30.09	− .05	44.2	− 2.1	62	4	52	30	13	36	26	42	38	81	3.73	+ 0.2	11	6,110	se.	39	se.	2	13	8	10	5.2	0.0	....
San Francisco	155	209	213	29.91	30.08	− .04	48.9	− 2.0	62	16	55	37	28	43	19	45	40	75	4.79	+ 0.6	15	5,502	n.	43	sw.	23	16	4	11	4.2	....	....
San Jose	141	12	110	29.94	30.09	....	45.2	− 4.7	63	16	55	28	8	35	33	....	....	....	3.48	+ 0.4	13	4,540	w.	36	se.	2	14	3	14	5.3	0.0	....
South Pacific Coast Region.							50.0	− 3.0										72	4.00	+ 1.8										4.6		
Fresno	327	89	98	29.74	30.11	−0.02	45.4	− 1.4	71	4	55	28	7	36	31	41	37	75	1.93	+ 0.4	9	4,096	nw.	40	nw.	24	13	8	10	4.8	0.1	....
Los Angeles	338	159	191	29.69	30.06	− .01	52.6	− 3.9	79	14	61	36	27	44	33	45	37	64	3.07	+ 0.8	9	4,763	ne.	42	s.	24	15	5	11	4.7	T.	....
San Diego	87	62	70	29.95	30.05	− .02	52.4	− 3.3	76	14	60	38	17	45	34	47	43	75	1.14	− 0.7	6	4,244	nw.	40	w.	25	14	7	10	4.5	0.0	....
San Luis Obispo	201	32	40	29.88	30.10	− .01	49.6	− 3.2	73	15	60	29	18	39	41	41	39	72	9.26	+ 6.9	11	3,025	n.	22	n.	10	16	6	9	4.7	0.0	....
West Indies.																																	
San Juan, P. R.	82	8	54	29.93	30.02	+0.05	74.8	....	82	19	80	65	17	70	15	....	....	....	1.69	− 4.5	15	11,353	ne.	41	ne.	28	10	18	3	4.4	0.0	....
Panama Canal.																																	
Balboa Heights	118	7	97	29.72	29.84	....	79.1	....	89	5	86	70	11	72	18	74	73	91	5.86	+1.39	14	4,609	nw.	21	n.	24	2	24	5	5.9	0.0	....
Colon	36	5	85	29.81	29.85	....	79.8	....	88	12	84	72	10	76	13	75	74	84	5.71	−6.20	17	9,481	nw.	33	nw.	29	9	14	7	5.8	0.0	....

TABLE II.—*Accumulated amounts or precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during December, 1916, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Abilene, Tex.	7			0.02														0.02			
Albany, N. Y.	9			0.47														0.28			
Alpena, Mich.	8–9			0.75														*			
Amarillo, Tex.	30–31			0.31														*			
Anniston, Ala.	28			0.92														0.55			
Asheville, N. C.	28			0.43														0.27			
Atlanta, Ga.	8	2:30 p. m.	7:10 p. m.	1.27	5:41 p. m.	6:16 p. m.	0.33	0.11	0.27	0.37	0.44	0.52	0.69	0.76							
Atlantic City, N. J.	21			0.84														0.32			
Augusta, Ga.	18			0.55														0.26			
Baker, Oreg.	24			0.38														*			
Baltimore, Md.	22			1.26														0.44			
Bentonville, Ark.	7			0.95														0.40			
Binghamton, N. Y.	22			0.78														0.14			
Birmingham, Ala.	28	5:42 a. m.	7:55 a. m.	1.29	5:49 a. m.	6:20 a. m.	0.01	0.11	0.19	0.28	0.55	0.76	0.80	0.89							
Bismarck, N. Dak.	26			0.63														*			
Block Island, R. I.	22			0.87														0.33			
Boise, Idaho.	20–21			0.27														*			
Boston, Mass.	22			0.83														0.41			
Buffalo, N. Y.	21–22			1.13														*			
Burlington, Vt.	22			1.43														*			
Cairo, Ill.	8			1.10														0.56			
Canton, N. Y.	22			0.88														*			
Charles City, Iowa.	25–26			0.55														*			
Charleston, S. C.	12			0.30														0.25			
Charlotte, N. C.	12			0.78														0.21			
Chattanooga, Tenn.	28			1.22														0.53			
Cheyenne, Wyo.	19–20			0.09														*			
Chicago, Ill.	7–8			0.94														*			
Cincinnati, Ohio.	4			0.83														0.37			
Cleveland, Ohio.	26–27			0.39														*			
Columbia, Mo.	7			1.13														0.55			
Columbia, S. C.	18			0.34														0.24			
Columbus, Ohio.	4			1.26														0.50			
Concord, N. H.	22			0.86														*			
Concordia, Kans.	31			0.28														*			
Corpus Christi, Tex.	30			0.73														0.25			
Dallas, Tex.	31			0.06														0.01			
Davenport, Iowa.	26			0.43														*			
Dayton, Ohio.	26–27			0.74														*			
Del Rio, Tex.	31			0.02														0.02			
Denver, Colo.	17			0.29														*			
Des Moines, Iowa.	19			0.22														*			
Detroit, Mich.	26–27			0.67														*			
Devils Lake, N. Dak.	26–27			0.44														*			
Dodge City, Kans.	31			0.10														*			
Dubuque, Iowa.	24			0.33														*			
Duluth, Minn.	6–7			0.09														*			
Eastport, Me.	15–16			1.68														*			
Elkins, W. Va.	22			0.44														0.18			
El Paso, Tex.	30			0.28														0.11			
Erie, Pa.	21–22			0.57														*			
Escanaba, Mich.	26–27			0.42														*			
Eureka, Cal.	22			0.71														0.31			
Evansville, Ind.	26			1.38														0.44			
Flagstaff, Ariz.	24–25			0.72														*			
Fort Smith, Ark.	26			0.66														0.52			
Fort Wayne, Ind.	26–27			1.28														*			
Fort Worth, Tex.	31			0.09														0.04			
Fresno, Cal.	24			0.29														0.12			
Galveston, Tex.	8			0.29														0.28			
Grand Haven, Mich.	7			0.33														0.19			
Grand Junction, Colo.	6–7			0.14														*			
Grand Rapids, Mich.	7			0.39														0.24			
Green Bay, Wis.	24			0.29														*			
Hannibal, Mo.	7–8			0.80														*			
Harrisburg, Pa.	22			0.74														0.24			
Hartford, Conn.	22			1.03														0.44			
Hatteras, N. C.	18			0.79														0.30			
Havre, Mont.	24–25			0.28														*			
Helena, Mont.	5–6			0.26														*			
Houghton, Mich.	13–14			0.44														*			
Houston, Tex.	25	12:28 a. m.	8:20 a. m.	2.02	4:03 a. m.	4:46 a. m.	0.50	0.06	0.14	0.24	0.32	0.44	0.58	0.81	0.97	1.00					
Huron, S. Dak.	25–26			0.53														*			
Independence, Cal.	23–24			1.91														*			
Indianapolis, Ind.	26–27			0.49														*			
Iola, Kans.	25			0.33														*			
Jacksonville, Fla.	21–22	D. N. a. m.	D. N. a. m.	4.71	9:02 a. m.	9:20 a. m.	1.74	0.24	0.41	0.46	0.51										
					11:24 a. m.	12:24 p. m.	2.41	0.08	0.18	0.40	0.44	0.44	0.50	0.54	*	*	*	1.25			
					1:38 p. m.	1:56 p. m.	3.72	0.12	0.36	0.50	0.56										
Kalispell, Mont.	5–6			0.43														*			
Kansas City, Mo.	25–26			0.18														*			
Keokuk, Iowa.	26			0.35														*			
Key West, Fla.	18			0.06														0.06			
Knoxville, Tenn.	28			1.26														0.58			
La Crosse, Wis.	26			0.34														*			
Lander, Wyo.	13			0.44														*			
Lansing, Mich.	8–9			0.86														*			
Lewiston, Idaho.	18			0.15														0.07			
Lexington, Ky.	4			0.80														0.40			
Lincoln, Nebr.	31			0.22														*			
Little Rock, Ark.	26			0.90														0.22			
Los Angeles, Cal.	24			2.36														0.34			
Louisville, Ky.	26			1.31														0.45			
Ludington, Mich.	7			0.56														0.32			
Lynchburg, Va.	22			0.82														0.47			
Macon, Ga.	28			0.54														0.39			
Madison, Wis.	24			0.53														*			
Marquette, Mich.	11			0.59														*			
Memphis, Tenn.	26			1.11														0.66			

* Self-register not working.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.08 in 1 hour, during December, 1916, at all stations furnished with self-registering gages*—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Meridian, Miss.	27-28	7:45 p. m.	7:50 a. m.	1.69	5:02 a. m.	5:46 a. m.	0.24	0.20	0.36	0.40	0.52	0.78	0.94	1.02	1.21	1.31					
Miami, Fla.	18			0.22														0.16			
Milwaukee, Wis.	7-8			0.60														*			
Minneapolis, Minn.	26			0.38														*			
Mobile, Ala.	14-15	10:00 a. m.	D. N. a. m.	1.93	2:47 p. m.	4:06 p. m.	0.46	0.08	0.13	0.15	0.27	0.53	0.68	0.75	0.84	0.92	0.98	1.04	1.34		
Modena, Utah	24-25			0.61														*			
Montgomery, Ala.	17			0.87														0.58			
Moorhead, Minn.	25-26			0.52														*			
Mount Tamalpais, Cal.	28			0.48														0.29			
Nantucket, Mass.	22			1.02														0.45			
Nashville, Tenn.	27			1.85														0.48			
New Haven, Conn.	22			1.32														0.49			
New Orleans, La.	14	12:15 p. m.	4:05 p. m.	0.93	12:32 p. m.	12:40 p. m.	0.01	0.34	0.58												
	24	7:55 a. m.	10:15 a. m.	0.68	8:11 a. m.	8:31 a. m.	0.03	0.24	0.40	0.44	0.56										
	25-26	2:10 p. m.	D. N. a. m.	2.66	3:19 p. m.	3:56 p. m.	0.15	0.14	0.28	0.78	1.30	1.68	1.96	2.09	2.12						
New York, N. Y.	22			0.81														0.25			
Norfolk, Va.	28			0.63														0.34			
Northfield, Vt.	22-23			0.80														*			
North Head, Wash.	3			0.99														0.28			
North Platte, Nebr.	17			0.14														*			
Oklahoma, Okla.	26			0.32														0.32			
Omaha, Nebr.	31			0.20														*			
Oswego, N. Y.	4-5			0.55														*			
Palestine, Tex.	7			0.39														0.31			
Parkersburg, W. Va.	27			1.23														0.31			
Pensacola, Fla.	7	10:15 a. m.	5:45 p. m.	2.48	3:05 p. m.	3:20 p. m.	1.14	0.31	0.83	1.04											
	20	3:50 a. m.	10:05 a. m.	2.60	8:14 a. m.	8:40 a. m.	1.33	0.08	0.39	0.63	0.94	1.03	1.08								
	24	3:15 p. m.	8:50 p. m.	0.84	4:40 p. m.	4:52 p. m.	0.16	0.24	0.42	0.47											
Peoria, Ill.	7			0.42														0.30			
Philadelphia, Pa.	22			1.76														0.47			
Phoenix, Ariz.	25			0.30														0.14			
Pierre, S. Dak.	25-26			0.32														*			
Pittsburgh, Pa.	27			0.68														0.19			
Pocatello, Idaho	5			0.35														0.25			
Point Reyes Light, Cal.	2			0.90														0.33			
Port Angeles, Wash.	3			1.03														0.20			
Port Huron, Mich.	8-9			0.34														*			
Portland, Me.	22			1.40														0.47			
Portland, Oreg.	5			0.68														0.17			
Providence, R. I.	15-16			0.91														*			
Pueblo, Colo.	7			0.10														*			
Raleigh, N. C.	12			0.86														0.28			
Rapid City, S. Dak.	18-19			0.29														*			
Reading, Pa.	22			1.35														0.34			
Red Bluff, Cal.	5	12 noon	12:15 p. m.	0.40	12 noon	12:14 p. m.	0.00	0.05	0.23	0.40											
Reno, Nev.	24			0.29														*			
Richmond, Va.	11-12			1.28														*			
Rochester, N. Y.	21-22			1.56														*			
Roseburg, Oreg.	3			0.35														0.11			
Roswell, N. Mex.	30-31			0.36														*			
Sacramento, Cal.	2			1.19														0.20			
Saginaw, Mich.	4			0.22														0.21			
St. Joseph, Mo.	26			0.27														0.24			
St. Louis, Mo.	26			1.06														*			
St. Paul, Minn.	26			0.53														*			
Salt Lake City, Utah	25-26			0.60														*			
San Antonio, Tex.	30			0.29														0.08			
San Diego, Cal.	24			0.71														0.30			
Sand Key, Fla.	10			0.17														0.16			
Sandusky, Ohio	26-27			0.59														*			
Sandy Hook, N. J.	22			1.01														0.36			
San Francisco, Cal.	1-2			1.30														*			
San Jose, Cal.	23			0.84														0.32			
San Luis Obispo, Cal.	24			2.95														0.11			
Santa Fe, N. Mex.	10-11			0.09														*			
Sault Ste. Marie, Mich.	8-9			0.81														*			
Savannah, Ga.	12			0.36														0.32			
Scranton, Pa.	22			1.09														*			
Seattle, Wash.	11-12			0.74														*			
Sheridan, Wyo.	11-12			0.47														*			
Shreveport, La.	8			0.44														0.43			
Sioux City, Iowa	31			0.54														*			
Spokane, Wash.	21			0.30														*			
Springfield, Ill.	7			0.42														0.18			
Springfield, Mo.	7-8			0.68														*			
Syracuse, N. Y.	22			0.73														*			
Tacoma, Wash.	3			0.49														0.13			
Tampa, Fla.	15	6:35 a. m.	8:58 a. m.	0.63	6:48 a. m.	7:06 a. m.	0.01	0.18	0.29	0.40	0.48										
Tatoosh Island, Wash.	4			0.45														0.27			
Taylor, Tex.	30			0.15														0.09			
Terre Haute, Ind.	26-27			0.91														0.38			
Thomasville, Ga.	8	3:42 p. m.	5:35 p. m.	1.30	4:40 p. m.	5:25 p. m.	0.10	0.15	0.22	0.39	0.47	0.65	0.85	0.94	1.03	1.19					
Toledo, Ohio	4			0.19														0.12			
Tonopah, Nev.	24			0.42														*			
Topeka, Kans.	26			0.46														0.41			
Trenton, N. J.	22			1.20														*			
Valentine, Nebr.	25-26			0.23														*			
Vicksburg, Miss.	27	D. N. a. m.	7:10 a. m.	2.12	3:49 a. m.	4:32 a. m.	0.21	0.36	0.51	0.71	0.85	0.88	0.94	1.20	1.53	1.68					
Walla Walla, Wash.	11-12			0.63														*			
Washington, D. C.	22			1.23														*			
Wausau, Wis.	24			0.23														*			
Wichita, Kans.	26			0.34														*			
Williston, N. Dak.	25-26			0.64														*			
Wilmington, N. C.	12			0.39														0.19			
Winnemucca, Nev.	24			0.20														*			
Wytheville, Va.	28			0.57														0.22			
Yankton, S. Dak.	23-24			0.32														*			
Yellowstone Park, Wyo.	24-25			0.63														*			

* Self-register not working. † Record partly estimated. ‡ No precipitation occurred during the month.

TABLE III.—*Data furnished by the Canadian Meteorological Service, December, 1916.*

Stations.	Barometer above M. S. L.* Jan. 1, 1916.	Pressure.			Temperature.						Precipitation.		
		Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
	Feet.	*Inches.*	*Inches.*	*Inches.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F.	125	29.39	29.53	−0.30	34.7	+ 6.0	39.2	30.2	54	8	5.65	+0.62	6.0
Sydney, C. B. I.	48	29.59	29.63	− .26	33.3	+ 5.1	39.2	27.4	55	6	9.26	+4.63	12.0
Halifax, N. S.	88	29.57	29.68	− .28	31.3	+ 3.7	38.0	24.6	56	6	6.16	+1.04	5.5
Yarmouth, N. S.	65	29.65	29.72	− .26	32.1	+ 1.4	37.3	27.0	53	11	5.87	+0.83	9.9
Charlottetown, P. E. I.	38	29.60	29.64	− .30	29.3	+ 5.0	33.7	25.0	46	4	4.41	+0.75	10.5
Chatham, N. B.	28	29.68	29.70	− .24	25.2	+ 8.2	31.1	19.2	48	− 9	7.10	+3.88	26.4
Father Point, Que.	20	29.79	29.82	− .13	20.2	+ 4.8	25.1	15.3	38	− 6	6.75	+3.92	60.4
Quebec, Que.	296	29.53	29.86	− .15	17.5	+ 2.3	23.2	11.9	39	−12	2.01	−1.68	15.5
Montreal, Que.	187	29.71	29.93	− .10	20.0	+ 1.7	25.2	14.8	48	− 6	3.18	−0.47	19.4
Stonecliffe, Ont.	489	29.32	29.95	− .06	16.3	+ 1.3	25.8	6.8	40	−22	1.64	−0.85	8.8
Ottawa, Ont.	236	29.67	30.05	+ .03	17.4	+ 0.4	24.4	10.4	48	−20	2.91	0.00	22.8
Kingston, Ont.	285	29.64	29.98	− .06	22.8	− 0.9	30.1	15.5	48	− 4	3.03	−0.21	23.9
Toronto, Ont.	379	29.54	29.97	− .08	26.9	− 0.1	33.1	20.8	55	5	2.03	−0.88	12.6
White River, Ont.	1,244	28.50	29.88	− .09	2.2	− 7.5	14.7	−10.1	41	−46	1.61	−0.10	15.1
Port Stanley, Ont.	592	29.32	29.98	− .09	25.1	− 3.3	32.9	17.3	50	−16	2.45	+0.03	13.1
Southampton, Ont.	656	29.20	.....	.....	25.7	− 1.0	32.0	19.4	55	4	4.55	+0.57	33.9
Parry Sound, Ont.	688	29.21	29.94	− .07	20.8	− 0.4	28.1	13.5	48	− 8	5.94	+1.46	36.8
Port Arthur, Ont.	644	29.20	29.94	− .05	8.2	− 5.0	17.3	− 0.9	41	−23	0.76	−0.11	7.6
Winnipeg, Man.	760	29.11	30.00	− .02	1.3	− 2.8	8.3	− 5.6	46	−31	1.70	+0.79	17.0
Minnedosa, Man.	1,690	28.04	29.96	− .06	0.1	− 5.6	9.3	− 9.0	42	−36	0.30	−0.32	3.0
Qu'Appelle, Sask.	2,115	27.56	29.95	− .05	0.5	− 6.9	9.9	− 8.9	46	−39	0.92	+0.40	9.2
Medicine Hat, Alberta	2,144	27.57	29.96	− .01	9.4	− 8.8	19.2	− 0.4	52	−35	1.25	+0.70	12.5
Swift Current, Sask.	2,392	27.25	29.98	− .01	4.3	−11.7	12.5	− 4.0	42	−35	1.10	+0.32	11.0
Calgary, Alberta	3,428	26.24	29.93	− .01	13.2	− 5.0	23.6	2.8	50	−25	0.50	−0.09	5.0
Banff, Alberta	4,521	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Edmonton, Alberta	2,150	27.52	29.93	.00	5.0	− 8.1	14.1	− 4.1	43	−37	1.74	+1.04	17.4
Prince Albert, Sask.	1,450	28.34	29.99	− .02	− 1.2	− 4.0	7.2	− 9.6	44	−32	0.26	−0.48	2.6
Battleford, Sask.	1,592	28.15	30.00	+ .01	1.9	− 3.5	10.9	− 7.1	45	−30	0.22	−0.10	2.2
Kamloops, B. C.	1,262	28.74	30.09	+ .15	18.5	−10.4	24.0	12.9	46	−13	1.06	+0.28	10.6
Victoria, B. C.	230	29.71	29.97	.00	37.3	− 3.9	40.4	34.2	49	27	4.92	−3.06	1.4
Barkerville, B. C.	4,180	25.48	29.94	+ .06	11.3	− 9.6	18.9	3.8	34	−23	2.50	−0.67	25.0
Hamilton, Bermuda	151	29.92	30.09	− .03	62.9	− 1.8	67.7	58.1	72	49	2.54	−1.95	0.0

* See description of Table III given on p. 706—C. A. jr.