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.

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 sea level 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 sea level and prevailing wind directions. The pressures have been reduced to sea level 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. observation, 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 sea-level 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 sea-level plane minus the station temperature as given by Table 48 of that report, is added to the observed surface temperature to obtain the adopted sea-level 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.*

TABLE I.—*Climatological data for United States Weather Bureau stations, January, 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.	Sea level, 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.							29.2	+ 4.8										75	1.48	− 2.0										6.3		
Eastport	76	67	85	30.00	30.09	+0.09	22.6	+ 2.5	48	22	31	− 6	18	14	38	21	16	75	1.86	− 2.0	15	10,467	w.	42	w.	23	6	12	13	6.5	14.2	....
Greenville	1,070	6	....	28.88	30.10	.....	15.1	.....	47	22	26	−16	18	4	44	....	....	....	2.35	.....	11	....	....	....	....	....	....	....	....	....	16.2	12.0
Portland, Me.	103	82	117	30.03	30.16	+ .11	26.6	+ 4.6	61	26	36	− 1	15	18	41	23	16	67	2.15	− 1.7	11	7,781	sw.	48	nw.	28	13	2	16	5.7	12.2	....
Concord	288	70	79	29.84	30.17	+ .12	25.8	+ 4.6	62	26	36	− 9	18	16	36	....	....	....	1.22	− 2.1	8	4,159	nw.	28	nw.	28	12	7	12	5.4	12.1	....
Burlington	404	11	48	29.68	30.15	+ .10	23.2	+ 6.9	56	28	33	− 9	9	13	42	....	....	....	0.87	− 1.0	13	13,208	s.	48	s.	10	4	8	19	7.4	8.6	....
Northfield	876	12	60	29.17	30.16	+ .11	22.2	+ 7.1	60	28	34	−16	8	10	47	19	16	83	1.14	− 1.4	14	7,355	s.	34	sw.	5	5	7	19	7.3	11.9	T.
Boston	125	115	188	30.04	30.18	+ .13	33.0	+ 6.0	66	26	42	4	15	24	36	29	24	70	1.23	− 2.6	9	8,755	sw.	43	w.	28	9	7	15	6.0	4.8	....
Nantucket	12	14	90	30.17	30.18	+ .14	33.9	+ 1.8	53	28	40	10	15	28	23	31	28	82	2.03	− 1.4	16	13,782	sw.	47	sw.	20	7	6	18	7.3	0.5	....
Block Island	26	11	46	30.17	30.20	+ .13	34.6	+ 3.2	55	28	41	9	15	28	25	32	28	80	1.69	− 2.2	13	16,201	sw.	66	nw.	3	8	7	16	6.6	1.4	....
Narragansett Pier	....	9	....	.....	.....	.....	32.1	+ 3.7	65	28	40	3	15	24	30	....	....	....	1.66	.....	13	.....	sw.	....	.....	....	12	9	10	.....	0.8	....
Providence	160	215	251	30.01	30.19	+ .13	32.2	+ 5.0	64	26	41	3	15	24	35	29	24	74	1.35	− 3.0	13	10,478	sw.	60	nw.	28	11	6	14	6.0	0.8	....
Hartford	159	122	140	30.02	30.21	+ .14	31.8	+ 6.3	67	27	40	5	15	24	34	28	23	71	1.16	− 2.7	9	6,619	s.	37	nw.	3	12	5	14	6.0	1.8	....
New Haven	106	117	155	30.09	30.21	+ .13	33.0	+ 5.7	65	23	41	6	15	25	34	29	24	72	1.55	− 2.4	17	7,164	s.	36	nw.	4	9	8	14	5.9	1.6	....
Middle Atlantic States.							38.0	+ 6.4										72	1.70	− 1.5										6.5		
Albany	97	102	115	30.08	30.20	+ .13	29.2	+ 6.7	56	27	37	0	9	22	34	26	21	75	1.80	− 0.8	12	7,288	s.	39	s.	10	8	5	18	6.8	0.6	T.
Binghamton	871	10	69	29.22	30.18	+ .10	31.4	+ 8.3	68	27	39	4	17	23	36	....	....	....	1.31	− 0.7	15	3,311	nw.	25	nw.	23	4	12	15	7.0	1.8	....
New York	314	414	454	29.88	30.23	+ .13	35.4	+ 5.2	66	27	43	7	15	28	31	31	24	65	1.08	− 2.7	11	15,016	sw.	67	nw.	3	7	10	14	6.5	0.7	....
Harrisburg	374	94	104	29.84	30.26	+ .16	35.5	+ 6.8	68	27	43	9	18	28	26	31	25	67	1.61	− 1.2	14	5,702	nw.	28	sw.	31	5	10	16	6.8	1.4	....
Philadelphia	117	123	190	30.13	30.26	+ .15	38.2	+ 6.4	69	27	46	9	18	31	28	34	28	68	1.50	− 1.9	15	7,736	sw.	34	nw.	6	7	11	13	6.6	2.5	....
Reading	325	81	98	29.89	30.26	.....	35.8	.....	71	27	43	7	18	28	30	32	26	69	1.73	− 1.8	14	5,773	nw.	29	nw.	3	7	7	17	6.8	1.6	....
Scranton	805	111	119	29.33	30.22	+ .13	33.6	+ 8.1	69	27	42	4	15	25	30	29	25	74	2.07	− 0.7	13	6,201	sw.	37	w.	3	5	10	16	6.8	4.1	....
Atlantic City	52	37	48	30.20	30.28	+ .17	37.0	+ 4.5	68	28	44	10	15	31	26	34	30	79	2.00	− 1.4	12	6,538	sw.	26	sw.	10	7	3	21	7.4	3.7	....
Cape May	18	13	49	30.26	30.29	+ .17	37.4	+ 3.3	65	28	44	12	15	31	29	....	....	....	1.62	− 1.8	15	7,412	s.	30	nw.	3	6	12	13	6.5	4.6	....
Sandy Hook	22	10	57	30.21	30.23	.....	35.0	.....	63	27	42	10	18	28	25	32	29	78	1.14	.....	13	13,122	sw.	53	sw.	5	8	10	13	5.9	1.3	....
Trenton	190	159	193	30.02	30.21	.....	35.5	.....	68	27	43	7	18	28	30	32	27	74	1.26	− 1.9	13	9,218	sw.	42	nw.	17	6	9	16	6.9	0.9	....
Baltimore	123	100	113	30.13	30.27	+ .13	39.5	+ 6.1	71	27	47	10	18	32	27	35	29	70	1.51	− 1.7	14	6,825	sw.	36	n.	14	7	7	17	6.6	1.5	....
Washington	112	62	85	30.13	30.26	+ .13	39.8	+ 6.9	71	31	49	8	9	31	29	35	29	69	1.57	− 1.8	13	5,257	s.	35	nw.	3	7	9	15	6.5	5.7	....
Lynchburg	681	153	188	29.51	30.27	+ .14	43.2	+ 7.4	72	28	53	10	9	34	34	37	32	72	0.99	− 2.7	9	6,087	sw.	34	nw.	3	6	12	13	6.4	1.7	....
Norfolk	91	170	205	30.18	30.29	+ .16	47.0	+ 6.6	72	24	56	17	18	38	32	42	37	75	2.07	− 1.3	10	11,046	sw.	48	sw.	5	8	12	11	5.6	T.	....
Richmond	144	11	52	30.12	30.28	+ .15	44.0	+ 6.0	74	28	54	12	18	34	29	39	34	74	1.51	− 1.5	9	7,169	s.	37	sw.	5	7	10	14	6.2	2.6	....
Wytheville	2,293	49	55	27.82	30.27	+ .13	40.4	+ 7.4	66	12	50	4	18	31	35	36	33	81	3.57	− 0.7	13	5,109	w.	32	sw.	1	8	9	14	6.0	0.3	....
South Atlantic States.							52.8	+ 7.6										81	1.62	− 2.3										5.9		
Asheville	2,255	70	84	27.86	30.28	+ .13	44.8	+ 9.4	67	1	54	6	18	36	34	40	36	76	2.54	− 2.1	12	8,197	se.	33	nw.	17	8	6	17	6.6	T.	....
Charlotte	773	153	161	29.42	30.28	+ .13	47.6	+ 7.2	71	2	56	18	18	40	24	44	40	79	1.66	− 2.6	17	8,272	sw.	37	nw.	17	7	5	19	6.3	....	....
Hatteras	11	12	50	30.27	30.28	+ .14	51.2	+ 5.4	72	27	58	24	18	44	28	48	45	85	1.26	− 3.7	12	11,459	sw.	42	ne.	7	8	14	9	5.6	T.	....
Manteo	12	4	46	.....	.....	.....	49.6	.....	75	2	60	15	18	39	....	....	....	....	2.76	− 1.9	6	.....	sw.	....	.....	....	15	7	9	....	....	....
Raleigh	376	103	110	29.88	30.29	+ .16	47.8	+ 7.4	73	26	57	16	18	38	31	42	37	72	2.69	− 0.9	14	6,363	sw.	28	nw.	3	7	8	16	6.6	....	....
Wilmington	78	81	91	30.21	30.30	+ .16	52.9	+ 7.3	76	2	63	20	18	43	36	47	44	80	1.12	− 2.4	10	5,964	sw.	26	ne.	23	12	11	8	5.0	T.	....
Charleston	48	11	92	30.23	30.28	+ .13	55.9	+ 6.6	77	2	64	28	18	48	31	51	48	84	1.34	− 2.1	9	7,900	ne.	37	ne.	23	10	12	9	5.2	....	....
Columbia, S. C.	351	41	57	29.90	30.30	+ .15	52.9	+ 7.8	77	12	62	22	18	44	34	47	43	77	1.32	− 2.0	11	5,936	ne.	35	sw.	22	7	9	15	6.2	....	....
Augusta	180	89	97	30.08	30.28	+ .12	54.0	+ 8.1	78	12	63	24	18	45	35	49	47	82	0.75	− 3.4	7	5,024	ne.	24	w.	22	10	7	14	5.8	....	....
Savannah	65	150	194	30.20	30.27	+ .12	58.2	+ 8.3	79	11	67	30	18	49	31	53	50	84	1.43	− 1.7	13	9,139	ne.	32	e.	15	9	8	14	5.9	....	....
Jacksonville	43	209	245	30.20	30.25	+ .10	62.4	+ 8.5	79	7	70	30	18	55	30	57	55	88	0.90	− 2.2	9	9,796	ne.	36	sw.	16	10	14	7	5.4	....	....
Florida Peninsula.							70.9	+ 6.4										79	1.03	− 1.7										4.0		
Key West	22	10	64	30.13	30.15	+ .05	73.8	+ 5.0	83	23	78	64	19	69	13	68	65	80	1.37	− 0.6	6	8,620	e.	29	e.	26	19	10	2	3.0	....	....
Miami	25	71	79	30.17	30.20	.....	72.0	+ 4.7	81	17	76	55	19	68	18	66	63	76	1.44	− 2.0	7	8,699	e.	30	e.	21	8	19	4	5.0	....	....
Sand Key	23	39	72	30.11	30.14	+ .04	72.6	.....	78	23	75	64	19	70	9	69	66	79	1.65	.....	13	14,065	e.	42	se.	5	18	11	2	3.6	....	....
Tampa	35	79	96	30.18	30.22	+ .10	67.0	+ 9.6	80	22	76	41	18	58	27	60	58	82	0.29	− 2.5	5	5,578	ne.	25	e.	26	15	10	6	4.3	....	....
East Gulf States.							54.8	+ 7.5										81	3.67	− 1.3										6.5		
Atlanta	1,174	190	216	29.00	30.27	+ .12	48.8	+ 6.6	73	29	57	14	18	41	35	45	42	80	2.53	− 2.8	11	9,742	se.	40	nw.	17	6	7	18	6.7	T.	....
Macon	370	78	87	29.86	30.26	+ .10	54.2	+ 8.6	77	12	64	18	18	45	31	49	46	78	1.74	− 3.4	10	5,115	s.	25	s.	12	9	5	17	6.3	....	....
Thomasville	273	8	57	29.94	30.24	+ .08	60.1	+ 9.1	78	28	70	25	18	50	36	54	50	81	2.03	− 2.1	6	4,157	ne.	20	s.	12	10	11	10	5.5	....	....
Pensacola	56	140	182	30.16	30.22	+ .08	58.2	+ 5.9	79	7	64	27	18	52	26	55	52	84	1.72	− 2.3	9	11,005	se.	38	se.	12	7	10	14	6.5	....	....
Anniston	741	9	57	24.46	30.26	+ .10	50.8	+ 8.6	75	28	60	14	18	41	33	....	....	....	4.11	− 1.2	12	6,112	se.	24	se.	15	6	12	13	6.0	0.3	....
Birmingham	700	11	48	29.47	30.26	+ .10	51.2	+ 6.1	75	12	60	15	18	42	32	46	42	75	5.40	+ 0.1	11	7,186	s.	36	s.	12	6	7	18	7.1	0.6	....
Mobile	57	125	161	30.15	30.21	+ .06	57.2	+ 7.4	77	7	65	25	18	50	31	54	53	88	3.06	− 1.8	10	8,821	se.	45	n.	17	7	17	7	5.7	....	....
Montgomery	223	100	112	30.00	30.25	+ .09	55.4	+ 7.7	77	28	65	21	18	46	30	50	46	75	3.63	− 1.5	9	5,854	e.	27	n.	17	8	13	10	5.8	T.	....
Meridian	375	85	93	29.81	30.22	+ .06	52.9	+ 7.9	79	12	62	20	18	44	41	49	46	82	5.83	+ 0.3	7	4,923	se.	25	se.	21	6	6	19	7.1	T.	....
Vicksburg	247	65	74	29.92	30.21	+ .06	53.2	+ 6.2	79	11	62	22	18	45	43	49	46	80	5.83	+ 0.2	8	6,461	se.	36	nw.	12	5	6	20	7.4	....	....
New Orleans	51	76	84	30.13	30.18	+ .05	61.3	+ 8.3	79	11	69	33	14	53	29	57	56	87	4.46	− 0.2	10	5,881	se.	28	nw.	12	2	14	15	6.9	....	....
West Gulf States.							51.0	+ 4.9										82	4.81	+ 1.8										7.8		
Shreveport	249	77	93	29.89	30.17	.....	51.6	+ 5.4	79	11	61	15	13	43	55	47	44	79	6.29	+ 1.9	13	6,789	se.	31	s.	11	6	3	22	7.4	....	....
Bentonville	1,303	11	44	28.70	30.11	− .03	37.0	+ 2.9	69	11	47	− 5	13	27	46	....	....	....	11.18	+ 8.6	14	5,627	s.	32	s.	1	6	2	23	7.7	0.9	....
Fort Smith	457	79	94	29.64	30.14	.00	42.6	+ 4.3	75	11	52	4	13	33	65	38	34	77	7.28	+ 4.8	12	7,997	e.	46	w.	12	6	2	23	7.7	0.1	....
Little Rock	357	139	147	29.80	30.18	+ .03	45.2	+ 4.6	75	11	54	10	13	36	57	42	38	79	8.45	+ 3.7	14	8,021	s.	38	nw.	12	7	4	20	7.3	0.1	....
Brownsville	57	3	40	.....	.....	.....	67.2	.....	84	31	77	30	17	58	42	....	....	....	0.19	.....	5	.....	s.	....	.....	....	....	....	....	....	....	....
Corpus Christi	20	69	77	30.07	30.09	− .01	60.4	+ 6.9	77	1	67	26	13	54	37	58	56	88	0.31	− 1.9	11	10,540	se.	50	se.	20	4	11	16	6.8	....	....
Dallas	512	109	117	29.58	30.14	.....	46.6	.....	79	5	56	9	13	37	56	....	....	....	5.88	.....	13	8,290	nw.	41	s.	11	3	6	22	8.2	0.1	....
Fort Worth	670	106	114	29.39	30.12	.00	46.2	+ 1.9	80	5	56	10	13	37	38	42	39	81	4.01	+ 3.1	11	8,771	nw.	44	nw.	12	3	6	22	8.0	0.1	....
Galveston	54	106	114	30.08	30.14	− .04	58.4	+ 5.7	72	7	64	27	13	53	39	56	54	88	0.86	− 2.8	6	10,114	se.	41	nw.	12	8	6	17	6.8	....	....
Houston	138	111	121	29.97	30.12	.....	59.2	+ 6.3	78	11	68	21	13	51	45	....	....	....	2.81	.....	11	7,980	se.	38	s.	11	5	7	19	7.4	....	....
Palestine	510	64	72	29.59	30.13	+ .01	52.4	+ 6.9	78	11	62	13	13	43	56	48	45	84	4.20	+ 0.3	13	6,699	s.	32	s.	11	4	5	22	7.5	T.	....
San Antonio	701	109	132	29.34	30.08	− .02	56.2	+ 5.1	82	11	66	22	13	47	40	52	48	78	2.25	+ 0.6	15	7,026	ne.	39	n.	12	5	7	19	7.2	....	....
Taylor	582	55	63	29.51	30.13	+ .02	51.6	+ 4.1	78	1	60	15	13	43	51	....	....	....	3.29	+ 0.5	13	8,498	n.	44	s.	11	5	2	24	7.8	....	....

TABLE I.—*Climatological data for United States Weather Bureat stations, January, 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.	Sea level, 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.		%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee.							39.9	+ 6.7										78	6.11	+ 2.3										7.1		
Chattanooga	762	189	213	29.45	30.28	+0.12	47.2	+ 6.6	72	11	55	12	17	39	31	43	38	73	4.75	− 0.8	17	7,006	s.	49	sw.	12	6	5	20	7.1	0.9	....
Knoxville	996	93	100	29.18	30.26	+ .11	45.0	+ 7.5	72	26	54	10	17	36	36	41	37	76	5.23	+ 0.3	13	4,103	sw.	32	sw.	31	6	7	18	7.0	1.0	....
Memphis	399	76	97	29.79	30.23	+ .07	46.2	+ 5.9	75	11	54	13	13	38	52	43	40	77	7.16	+ 2.0	14	7,730	s.	38	n.	12	9	1	21	7.3	T.	....
Nashville	546	168	191	29.65	30.25	+ .09	44.6	+ 6.6	74	12	54	5	17	36	46	41	38	78	7.62	+ 2.8	14	9,149	se.	57	se.	12	7	4	20	6.8	0.5	....
Lexington	989	193	230	29.14	30.24	+ .11	39.7	+ 6.7	69	30	49	− 4	17	31	34	....	....	....	5.65	+ 1.8	18	12,760	s.	52	sw.	5	7	7	17	6.9	8.7	....
Louisville	525	219	255	29.64	30.24	+ .10	40.0	+ 5.7	72	12	49	0	17	31	52	36	32	76	8.16	+ 4.3	17	11,355	s.	52	s.	12	6	10	15	6.9	4.7	....
Evansville	431	72	82	29.73	30.21	+ .07	38.6	+ 6.3	69	12	48	3	17	30	57	36	33	81	8.73	+ 5.0	15	10,943	s.	50	s.	12	7	8	16	7.0	3.8	....
Indianapolis	822	194	230	29.28	30.20	+ .08	33.8	+ 5.6	68	12	44	− 3	17	24	58	31	28	81	6.55	+ 3.7	15	10,773	s.	44	w.	13	9	5	17	6.8	0.6	....
Terre Haute	575	96	129	29.55	30.19	.....	33.8	.....	65	12	44	− 3	14	24	61	31	28	81	7.58	.....	16	9,410	s.	45	s.	12	5	8	18	7.1	1.4	....
Cincinnati	628	11	51	29.52	30.22	+ .10	37.6	+ 5.3	70	12	48	− 4	17	28	41	34	31	80	5.84	+ 2.5	19	7,404	s.	34	s.	12	6	8	17	7.0	5.3	....
Columbus	824	173	222	29.31	30.21	+ .10	36.0	+ 7.4	68	27	45	− 4	17	27	33	33	30	82	5.02	+ 2.1	16	9,985	s.	46	w.	13	6	9	16	6.7	1.8	....
Dayton	899	181	216	29.20	30.18	.....	36.4	+ 7.5	67	12	46	− 3	17	27	35	33	30	83	5.67	+ 2.7	16	10,207	sw.	49	s.	12	6	9	16	6.7	0.4	....
Pittsburgh	842	353	410	29.28	30.21	+ .10	37.5	+ 6.8	69	27	46	− 3	17	28	38	34	29	73	3.51	+ 0.6	15	9,398	sw.	52	w.	13	6	2	23	7.9	1.3	....
Elkins	1,940	41	50	28.13	30.27	+ .15	37.8	+ 8.8	72	12	50	− 5	8	26	44	33	29	79	6.31	+ 3.0	16	3,462	w.	28	w.	13	4	8	19	7.6	8.3	....
Parkersburg	638	77	84	29.57	30.25	+ .13	38.8	+ 7.5	74	27	49	− 1	17	28	42	35	32	79	5.34	+ 2.2	17	4,902	se.	32	w.	13	8	5	18	7.2	3.2	....
Lower Lake Region.							31.4	+ 7.1										78	2.96	+ 0.3										7.6		
Buffalo	767	247	280	29.27	30.13	+ .06	32.0	+ 7.3	66	27	40	2	17	24	30	29	25	78	2.96	− 0.3	20	18,890	sw.	76	w.	13	3	9	19	7.8	10.9	....
Canton	448	10	61	29.62	30.12	.....	25.0	+ 8.7	58	28	36	− 8	14	14	44	....	....	....	2.52	− 0.6	19	11,367	sw.	46	sw.	13	5	6	20	7.4	8.2	T.
Oswego	335	76	91	29.75	30.14	+ .07	30.0	+ 6.1	61	27	38	1	8	22	36	28	25	81	2.95	− 0.2	18	11,727	s.	39	nw.	22	1	5	25	8.8	15.7	....
Rochester	523	97	113	29.56	30.15	+ .08	32.4	+ 8.4	63	27	41	2	17	24	32	29	24	72	2.13	− 1.0	14	8,718	sw.	39	sw.	13	1	7	23	8.4	8.5	....
Syracuse	597	97	113	29.49	30.16	+ .09	31.1	+ 8.1	64	27	40	1	14	22	44	28	23	73	2.00	− 0.1	17	12,500	s.	48	nw.	3	2	7	22	8.1	3.6	....
Erie	714	130	166	29.35	30.14	+ .06	34.4	+ 7.9	67	27	43	4	17	26	30	31	26	73	2.23	− 0.8	18	15,184	sw.	54	se.	12	2	9	20	7.7	3.9	....
Cleveland	762	190	201	29.32	30.17	+ .08	34.8	+ 8.6	69	27	44	−10	17	26	37	31	27	77	2.40	0.0	17	12,735	s.	53	s.	10	5	5	21	7.6	3.1	....
Sandusky	629	62	103	29.40	30.16	+ .07	33.6	+ 7.3	69	27	42	− 4	17	25	37	30	26	77	3.62	+ 1.5	16	11,945	w.	46	w.	13	3	12	16	7.3	3.9	....
Toledo	628	208	243	29.46	30.16	+ .07	32.0	+ 6.4	66	27	40	− 3	17	24	37	30	26	81	4.53	+ 2.6	16	14,309	sw.	54	sw.	13	8	7	16	6.4	4.6	....
Fort Wayne	856	113	124	29.22	30.18	.....	30.4	+ 3.5	65	27	39	− 8	17	22	46	28	24	80	6.48	.....	14	9,373	sw.	38	s.	27	7	8	16	6.6	9.8	....
Detroit	730	218	245	29.32	30.14	+ .06	30.0	+ 5.7	61	27	38	− 2	17	22	35	28	25	84	4.31	+ 2.3	13	10,872	sw.	50	w.	13	6	8	17	7.0	1.1	....
Upper Lake Region.							21.6	+ 3.3										82	3.27	+ 1.2										7.7		
Alpena	609	13	92	29.37	30.06	+ .02	24.0	+ 5.3	50	27	31	− 2	16	17	30	22	20	85	2.00	− 0.2	19	10,852	w.	52	w.	22	1	11	19	8.0	7.2	1.0
Escanaba	612	54	60	29.36	30.06	+ .01	17.0	+ 2.5	41	21	25	−15	6	9	43	16	12	79	2.12	+ 0.6	13	8,459	nw.	40	nw.	22	10	8	13	5.7	8.9	3.5
Grand Haven	632	54	92	29.39	30.10	+ .03	28.2	+ 3.7	61	27	35	1	14	21	35	27	23	81	3.78	+ 1.0	21	12,686	w.	52	w.	5	4	1	26	8.3	11.6	....
Grand Rapids	707	70	87	29.32	30.11	+ .05	28.7	+ 4.9	62	27	36	0	17	22	41	27	24	81	3.90	+ 1.1	22	6,320	w.	32	nw.	5	1	2	28	9.1	10.4	....
Houghton	684	62	72	29.28	30.04	− .01	15.6	+ 1.1	43	24	23	−10	7	8	28	....	....	....	5.14	+ 3.1	26	8,301	w.	44	w.	22	0	4	27	9.3	49.9	42.7
Lansing	878	11	62	29.14	30.11	.....	27.6	+ 5.6	61	27	35	− 2	17	20	41	26	23	83	3.11	+ 1.0	20	7,055	s.	31	w.	5	4	5	22	8.1	3.6	....
Ludington	637	60	66	29.35	30.07	.....	26.6	.....	58	27	33	0	16	20	34	25	23	85	3.33	.....	21	11,766	w.	40	w.	2	2	3	26	8.8	11.0	1.1
Marquette	734	77	111	29.23	30.07	+ .03	17.4	+ 1.5	46	24	25	−13	6	10	36	16	12	78	3.05	+ 1.0	14	9,974	sw.	55	w.	22	3	6	22	8.2	25.0	17.6
Port Huron	638	70	120	29.40	30.12	+ .06	28.6	+ 6.8	59	27	36	− 2	17	21	37	27	24	84	3.18	+ 1.3	14	10,759	sw.	38	sw.	13	2	12	17	7.5	1.7	....
Saginaw	641	48	82	29.39	30.10	.....	27.6	.....	62	27	35	− 2	17	20	40	26	24	88	2.51	+ 0.2	15	9,809	s.	40	w.	5	1	8	22	8.6	1.8	....
Sault Ste. Marie	614	11	61	29.32	30.05	+ .02	17.0	+ 3.7	44	24	25	−17	17	9	32	16	12	81	3.18	+ 1.0	24	8,280	e.	55	w.	22	2	6	23	8.4	23.4	18.8
Chicago	823	140	310	29.22	30.14	+ .04	28.8	+ 5.1	62	27	37	− 6	13	21	45	27	23	75	4.84	+ 2.8	15	11,551	w.	42	s.	21	10	4	17	6.4	2.7	....
Green Bay	617	109	144	29.38	30.08	+ .02	18.6	+ 4.0	47	24	27	−15	14	10	41	17	13	77	2.39	+ 0.7	10	10,458	s.	42	nw.	5	7	9	15	6.6	8.8	3.2
Milwaukee	681	119	133	29.33	30.10	+ .02	24.0	+ 4.2	56	27	33	−15	13	15	49	23	20	82	3.08	+ 1.1	14	9,316	w.	44	e.	11	8	8	15	6.3	8.9	1.7
Duluth	1,133	11	47	28.80	30.10	+ 1.0	5.1	− 5.3	38	24	16	−33	13	−5	39	5	3	92	3.48	+ 2.5	12	12,008	sw.	62	nw.	12	10	9	12	5.6	36.6	20.8
North Dakota.							−5.9	−10.0										87	1.04	+ 0.4										5.7		
Moorehead	940	8	57	29.11	30.21	+ .07	−2.2	− 4.9	31	9	9	−37	13	−13	39	− 4	− 7	83	1.49	+ 0.8	10	7,177	nw.	36	nw.	10	13	5	13	5.0	14.9	19.0
Bismarck	1,674	8	57	28.32	30.26	+ .13	−5.0	−11.7	36	21	6	−45	13	−16	40	− 7	−10	82	0.81	+ 0.3	8	7,727	nw.	44	nw.	10	9	13	9	5.1	12.1	12.8
Devils Lake	1,482	11	44	28.47	30.18	+ .06	−8.2	− 8.5	27	21	1.7	−44	12	−18	39	−10	−12	89	0.71	+ 0.1	10	9,757	w.	38	w.	5	7	11	13	5.9	9.5	10.1
Williston	1,872	40	47	28.08	30.23	+ .12	−8.2	−14.7	30	23	1.0	−42	12	−18	35	− 9	−11	93	1.17	+ 0.6	10	6,058	nw.	32	w.	15	5	10	16	6.7	11.2	14.1
Upper Mississippi Valley.							24.4	+ 2.8										81	4.45	+ 2.8										6.6		
Minneapolis	918	10	208	29.10	30.11	.....	10.0	.....	44	24	21	−30	13	0	42	....	....	....	2.88	+ 2.2	11	9,708	nw.	48	nw.	12	7	9	15	6.5	23.9	14.7
St. Paul	837	201	236	29.16	30.12	+ .01	10.4	− 1.2	45	24	21	−31	13	0	42	....	....	....	2.60	+ 1.7	13	10,087	nw.	46	nw.	12	8	11	12	6.1	20.5	14.8
La Crosse	714	11	48	29.31	30.12	+ .01	17.0	+ 1.8	50	23	26	−25	13	8	37	....	....	....	2.48	+ 1.4	11	5,176	s.	23	w.	5	10	4	17	6.3	7.8	....
Madison	974	70	78	29.02	30.13	+ .03	20.2	+ 3.7	48	27	29	−22	13	11	48	18	14	79	3.07	+ 1.5	13	8,179	w.	34	nw.	5	8	7	16	6.7	6.8	1.5
Charles City	1,015	10	49	29.00	30.14	.00	15.0	+ 3.6	46	24	25	−26	13	5	37	14	12	88	2.63	+ 1.7	12	6,523	nw.	30	nw.	5	7	10	14	6.2	8.9	2.0
Davenport	606	71	79	29.46	30.15	+ .03	24.2	+ 3.4	55	5	34	−22	13	14	54	22	19	82	4.63	+ 3.1	12	6,949	nw.	38	e.	29	9	6	16	6.5	6.2	2.3
Des Moines	861	84	97	29.20	30.15	+ .01	20.8	+ 0.4	54	4	31	−20	13	11	34	18	15	82	2.66	+ 1.4	13	6,428	nw.	26	nw.	12	6	5	20	7.4	5.8	1.5
Dubuque	698	81	96	29.38	30.17	+ .05	21.6	+ 3.3	51	4	31	−22	13	12	53	19	16	80	2.46	+ 1.0	12	5,779	nw.	31	nw.	5	8	7	16	6.4	7.4	1.1
Keokuk	614	64	78	29.46	30.17	+ .03	27.0	+ 3.3	59	5	37	−17	13	17	54	24	21	81	5.18	+ 3.5	12	6,634	nw.	30	w.	1	12	4	15	5.8	3.0	T.
Cairo	356	87	93	29.80	30.20	+ .04	40.0	+ 5.2	67	12	48	6	17	31	53	37	34	80	8.11	+ 4.3	16	8,954	s.	44	sw.	1	7	6	18	7.1	0.2	....
Peoria	609	11	45	29.48	30.17	+ .05	27.2	+ 4.1	60	27	36	−17	13	18	49	26	23	87	5.95	+ 3.8	14	6,901	s.	30	w.	12	9	4	18	6.4	3.9	T.
Springfield, Ill	644	10	91	29.46	30.17	+ .04	29.6	+ 3.3	62	27	38	− 9	13	21	47	27	24	78	4.77	+ 2.5	13	8,250	s.	32	w.	12	10	1	20	6.8	1.5	....
Hannibal	534	74	109	29.56	30.16	+ .03	28.8	+ 2.1	61	1	39	−13	13	18	50	....	....	....	6.40	+ 4.2	14	7,790	nw.	36	sw.	1	10	3	18	6.5	4.8	0.9
St. Louis	567	265	303	29.55	30.17	+ .03	34.1	+ 3.1	65	1	43	− 4	13	25	48	31	26	71	8.53	+ 6.3	16	12,248	s.	49	s.	4	8	3	20	7.1	2.7	....
Missouri Valley.							18.0	− 3.1										82	3.34	+ 2.4										5.9		
Columbia, Mo	781	11	84	29.28	30.15	+ .02	30.6	+ 3.4	63	5	41	−11	13	20	47	....	....	....	6.80	+4.6	15	7,316	se.	32	nw.	5	7	4	20	7.1	3.0	0.8
Kansas City	963	161	181	29.09	30.17	+ .02	27.4	+ 1.2	62	5	37	−14	13	18	48	24	20	77	5.52	+ 4.4	16	10,185	s.	46	n.	5	7	10	14	6.4	9.8	1.5
St. Joseph	967	11	49	29.09	30.17	.....	24.2	.....	61	4	34	−19	13	15	49	21	18	84	2.56	.....	13	7,746	nw.	39	nw.	1	9	7	15	6.4	5.6	1.5
Springfield, Mo	1,324	98	104	28.70	30.16	+ .02	33.8	+ 2.5	64	5	43	− 8	13	24	50	31	29	85	9.31	+ 6.6	13	9,920	se.	34	nw.	12	10	3	18	6.4	0.8	1.0
Iola	984	11	50	29.05	30.15	− .01	28.5	+ 0.9	64	5	38	−12	13	19	46	....	....	....	5.13	+ 4.2	11	7,243	n.	27	n.	5	7	7	17	6.6	2.5	1.6
Topeka	983	85	101	.....	.....	.....	24.8	− 0.8	63	4	34	−15	13	15	49	....	....	....	2.69	+ 1.8	13	8,487	s.	37	sw	1	7	10	14	6.6	7.1	1.8
Drexel	1,299	10	53	28.72	30.18	.....	15.2	.....	53	4	24	−24	13	6	30	13	12	90	1.46	.....	9	9,697	nw.	40	nw.	1	7	10	14	6.3	8.6	4.9
Lincoln	1,189	11	84	28.85	30.19	+ .04	18.3	− 2.9	59	4	27	−21	13	10	31	16	13	83	1.44	+ 0.8	12	9,271	n.	41	nw.	1	9	11	11	5.6	6.2	5.8
Omaha	1,105	115	121	28.94	30.19	+ .04	17.2	− 3.3	59	4	26	−22	13	9	33	15	11	79	2.20	+ 1.6	9	8,187	nw.	38	nw.	5	10	9	12	5.8	10.2	4.0
Valentine	2,598	47	54	27.30	30.20	+ .08	7.8	−10.4	50	9	18	−30	13	−3	48	6	1	76	0.74	+ 0.2	5	7,168	nw.	39	w.	20	13	10	8	4.7	10.2	4.8
Sioux City	1,135	94	164	28.90	30.18	+ .03	12.0	− 3.6	44	4	20	−28	13	3	33	10	7	82	1.73	+ 1.2	11	11,343	nw.	50	nw.	27	14	7	10	5.1	16.8	8.4
Huron	1,306	59	74	28.72	30.22	+ .06	2.4	− 7.1	38	9	14	−40	13	−9	46	2	0	88	2.00	+ 1.5	10	8,891	nw.	37	nw.	9	10	13	8	5.1	23.2	13.4
Pierre	1,572	70	75	28.46	30.26	+ .13	2.4	−11.5	44	9	13	−35	13	−8	42	2	− 3	76	1.06	+0.6	6	6,977	nw.	45	nw.	9	12	12	7	4.4	14.2	8.5
Yankton	1,233	49	57	28.78	30.18	+ .02	10.2	− 5.3	46	9	20	−29	13	1	43	....	....	....	1.48	+ 0.9	9	7,462	nw.	30	nw.	12	7	15	9	6.2	12.2	6.0

TABLE I.—*Climatological data for United States Weather Bureau stations, January, 1916*—Continued.

Districts and stations.	Elevation of instruments. Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Pressure. Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Temperature of the air. 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.	Precipitation. Total.	Departure from normal.	Days with 0.01 or more.	Wind. Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	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.							5.7	−13.3										76	1.34	+ 0.5										5.6		
Havre	2,505	11	44	27.42	30.30	+0.20	−13.3	−26.8	30	21	−4	−57	27	−23	43	−13	−15	87	1.75	+ 1.1	10	5,621	w.	36	sw.	21	12	4	15	6.1	17.5	22.5
Helena	4,110	87	114	25.70	30.18	+ .03	−1.2	−21.2	53	23	8	−32	29	−10	60	− 3	− 8	74	1.26	+ 0.3	14	4,562	sw.	39	sw.	22	4	16	11	6.5	17.2	6.1
Kalispell	2,962	11	34	26.84	30.10	− .02	4.4	−15.2	48	23	13	−22	31	−4	38	3	1	84	1.95	+ 0.4	17	3,989	nw.	30	sw.	24	8	7	16	6.5	19.2	8.2
Miles City	2,371	26	48	27.55	30.31	+ .19	−6.3	−20.8	43	23	4	−46	12	−17	46	− 8	−12	77	1.38	+ 0.8	9	3,874	nw.	27	nw.	9	17	7	7	4.1	15.3	13.1
Rapid City	3,259	50	58	26.56	30.20	+ .10	9.6	−11.9	59	3	22	−33	12	−3	58	6	− 2	62	0.57	+ 0.1	7	6,468	w.	48	sw.	9	14	12	5	4.5	6.2	1.0
Cheyenne	6,088	84	101	23.82	30.03	− .02	17.6	− 8.0	53	23	28	−19	16	7	37	15	9	67	0.63	+ 0.2	9	9,793	w.	70	w.	21	7	10	14	6.3	6.4	2.0
Lander	5,372	60	68	24.47	30.11	− .01	8.6	− 8.8	58	23	22	−34	29	−5	46	5	− 1	68	1.03	+ 0.6	6	3,780	e.	48	w.	19	8	15	8	5.1	11.4	9.0
Sheridan	3,790	10	47	26.03	30.20	.....	1.8	.....	56	3	14	−29	12	−10	67	− 1	− 5	82	0.92	.....	11	3,607	n.	34	sw.	9	10	12	9	5.2	10.0	6.4
Yellowstone Park	6,200	11	48	23.64	30.05	− .09	6.7	−10.9	36	23	15	−31	27	−2	48	6	2	78	2.60	+ 0.4	17	7,130	s.	37	s.	21	4	7	20	7.2	31.2	20.6
North Platte	2,821	11	51	27.11	30.20	+ .08	15.0	− 6.4	56	23	26	−22	13	4	39	11	8	79	0.85	+ 0.4	12	5,351	w.	27	nw.	1	13	7	11	4.9	7.9	4.2
Middle Slope.							26.0	− 3.1										76	1.48	+ 0.8										6.0		
Denver	5,291	129	172	24.58	30.03	− .02	22.8	− 6.3	65	4	35	−12	12	11	42	18	10	65	0.53	+ 0.1	8	•5,403	sw.	42	sw.	9	8	16	7	5.4	9.0	3.0
Pueblo	4,685	80	86	25.18	30.00	− .05	27.1	− 2.0	68	8	40	− 8	29	14	54	22	14	64	0.22	− 0.1	8	5,497	nw.	56	w.	9	15	9	7	4.3	5.8	1.8
Concordia	1,392	50	58	28.64	30.19	+ .05	21.5	− 2.9	68	4	30	−16	13	13	32	19	17	87	1.34	+ 0.6	14	7,010	nw.	32	nw.	12	5	11	15	7.0	9.7	4.2
Dodge	2,509	11	51	27.44	30.16	+ .05	23.8	− 3.5	73	4	35	−16	13	13	35	20	16	76	0.59	+ 0.1	12	7,510	n.	35	nw.	1	8	12	11	6.0	5.5	3.2
Wichita	1,358	139	158	28.64	30.14	+ .01	27.1	− 2.6	68	4	36	−11	13	18	43	24	21	83	1.90	+ 1.1	13	10,939	s.	48	sw.	4	9	7	15	6.3	2.1	0.8
Oklahoma	1,214	10	47	28.82	30.15	+ .04	33.4	− 1.3	68	4	43	− 4	13	24	40	30	28	84	4.28	+ 2.9	12	12,549	n.	44	n.	5	5	10	16	7.2	2.7	2.0
Southern Slope.							44.5	+ 3.0										64	0.45	− 0.2										6.0		
Abilene	1,738	10	52	28.25	30.03	.00	45.2	+ 2.6	81	11	56	9	13	34	47	38	32	69	0.40	− 0.5	9	8,477	n.	41	s.	20	5	4	22	7.7	0.1	....
Amarillo	3,676	10	49	26.23	30.05	− .01	35.2	+ 1.3	74	9	49	1	13	21	55	29	23	70	0.36	− 0.2	5	8,740	sw.	36	sw.	4	14	9	8	4.7	2.5	....
Del Rio	944	64	71	29.04	30.04	− .02	55.4	+ 5.2	80	30	64	24	17	47	33	....	....	....	0.60	− 0.2	10	6,976	se.	38	nw.	12	8	7	16	6.6	....	....
Roswell	3,566	75	85	26.34	30.00	− .04	42.1	+ 2.9	77	9	55	13	17	30	44	34	25	54	0.44	− 0.1	5	5,973	s.	44	sw.	11	12	9	10	5.2	0.4	....
Southern Plateau.							39.4	− 1.3										62	3.05	+ 2.3										4.8		
El Paso	3,762	110	133	26.17	29.96	− .05	50.4	+ 6.3	74	6	62	23	13	39	39	40	28	45	0.66	+ 0.2	4	8,704	w	58	sw.	11	9	15	7	5.0	....	....
Santa Fe	7,013	57	66	23.15	30.01	− .03	30.6	+ 2.1	52	3	39	2	31	22	32	26	22	75	3.02	+ 2.4	17	4,998	sw.	30	se.	28	9	8	14	5.7	27.3	2.5
Flagstaff	6,908	8	57	23.22	29.94	− .11	24.6	− 2.1	48	23	36	−25	31	13	45	....	....	....	8.16	.....	17	.....	w.	54	sw.	28	10	13	8	....	54.4	3.4
Phoenix	1,108	76	81	28.83	30.01	− .02	50.8	+ 0.8	69	3	60	31	12	42	31	45	39	69	2.34	+ 1.2	11	3,826	e.	26	s.	28	10	11	10	5.3	....	....
Yuma	141	9	54	29.86	30.01	− .04	53.4	− 1.3	72	5	64	28	12	43	34	32	46	38	0.52	+ 0.1	7	4,502	ne.	39	s.	27	20	5	6	3.2	....	....
Independence	3,910	11	42	25.88	29.96	− .11	26.7	−13.8	52	27	37	− 2	21	16	....	....	....	....	8.69	+ 7.8	12	3,942	n.	48	se.	27	5	12	14	....	75.7	18.5
Middle Plateau.							24.2	− 4.2										80	2.93	+ 1.9										7.0		
Reno	4,532	74	81	25.27	29.93	− .29	22.8	− 9.7	48	22	33	−17	21	13	43	21	18	79	6.76	+ 4.8	17	4,217	w.	39	w.	8	7	8	16	6.8	65.7	16.1
Tonopah	6,090	12	20	23.87	29.97	.....	23.6	.....	39	3	29	4	12	18	19	22	20	85	2.02	+ 1.3	13	8,609	se.	43	se.	3	10	4	17	6.2	16.1	3.4
Winnemucca	4,344	18	56	25.43	29.92	− .24	22.1	− 6.7	51	3	33	−15	21	11	45	21	18	81	2.21	+ 1.2	15	6,294	sw.	42	sw.	28	5	9	17	7.1	20.8	5.6
Modena	5,479	10	43	24.46	29.93	− .17	24.4	− 3.1	44	3	34	−17	12	15	39	23	20	80	3.47	+ 2.7	13	8,319	sw.	74	s.	27	7	7	17	6.3	21.1	3.5
Salt Lake City	4,360	147	189	25.47	29.92	− .23	29.4	+ 0.6	52	8	37	9	12	22	22	26	21	71	1.96	+ 0.6	15	6,356	nw.	48	s.	8	3	8	20	7.9	19.8	9.6
Grand Junction	4,602	82	96	25.30	29.98	− .08	22.5	− 2.2	50	28	32	− 7	31	13	34	21	18	85	1.18	+ 0.7	16	3,842	nw.	51	sw.	28	4	8	19	7.5	15.2	2.8
Northern Plateau.							19.9	− 8.9										78	1.92	+ 0.3										7.7		
Baker	3,471	48	53	26.26	29.96	− .20	16.2	− 7.7	46	23	25	−11	16	8	28	16	12	80	0.85	− 0.5	14	4,772	se.	24	se.	20	6	6	19	6.9	10.4	3.0
Boise	2,739	78	86	27.04	29.96	− .20	27.4	− 1.9	51	3	34	4	20	21	32	25	20	72	1.93	0.0	20	5,277	se.	32	se.	2	1	3	27	9.0	13.6	3.4
Lewiston	757	40	48	29.16	30.00	− .16	17.8	−16.7	57	23	26	−13	17	10	34	....	....	....	1.65	+ 0.1	13	2,383	e.	28	s.	21	4	7	20	7.1	21.8	4.2
Pocatello	4,477	46	54	25.31	29.96	− .24	23.0	− 2.1	44	3	30	− 8	17	16	28	21	17	79	2.44	+ 1.8	15	7,559	se.	37	sw.	9	1	11	19	7.9	23.1	7.0
Spokane	1,929	101	110	27.85	29.98	− .14	16.6	−10.1	49	23	23	−11	31	10	27	16	11	76	1.88	− 0.4	20	5,326	ne.	36	sw.	20	3	9	19	7.5	18.1	3.5
Walla Walla	991	57	65	28.86	29.98	− .17	18.6	−14.6	59	23	25	− 7	16	12	37	17	14	85	2.79	+ 0.8	18	3,543	s.	28	s.	22	4	7	20	7.8	30.9	11.4
North Pacific Coast Region.							31.9	− 7.5										79	5.74	− 1.0										7.7		
North Head	211	11	56	29.58	29.81	− .24	34.0	− 7.8	48	22	38	22	29	30	16	33	31	87	6.60	− 0.1	21	13,595	e.	94	s.	22	5	4	22	7.7	20.1	2.5
Port Crescent	259	8	53	29.57	29.86	− .13	28.2	− 7.8	55	22	34	10	11	22	34	....	....	....	5.83	+ 0.3	20	7,483	se.	42	ne.	14	4	2	25	8.1	43.9	18.0
Seattle	125	215	250	29.75	29.89	− .16	31.0	− 8.3	51	22	36	14	11	26	24	29	24	74	4.32	− 0.2	16	8,160	se.	41	s.	7	5	6	20	7.5	23.3	6.8
Tacoma	213	113	120	29.63	29.86	− .18	31.2	− 6.9	52	22	36	12	11	27	22	29	23	70	4.03	− 1.8	14	6,791	ne.	40	ne.	17	5	5	21	7.5	19.1	6.0
Tatoosh Island	109	7	57	29.69	29.79	− .19	33.8	− 7.4	47	22	37	23	11	31	13	32	29	83	7.55	− 4.6	19	22,091	e.	75	ne.	15	8	8	15	6.3	22.5	3.8
Portland, Oreg.	153	68	106	29.72	29.88	− .20	29.6	− 9.5	54	22	34	13	12	25	17	28	23	74	5.69	− 0.8	22	6,530	e.	34	e.	17	1	3	27	9.0	32.9	7.9
Roseburg	510	9	57	29.31	29.87	− .23	35.8	− 5.0	55	23	41	21	28	31	18	34	32	86	6.15	+ 0.4	26	1,989	s.	17	se.	23	0	15	16	7.5	20.8	2.0
Middle Pacific Coast Region.							43.2	− 4.1										86	10.92	+ 6.2										7.8		
Eureka	62	73	89	29.84	29.91	− .19	43.0	− 3.9	56	23	48	32	30	38	16	41	39	86	13.02	+ 5.4	28	6,467	se.	43	nw.	27	2	5	24	8.0	1.4	....
Mount Tamalpais	2,375	11	18	27.43	29.94	− .17	36.6	− 9.3	42	2	40	27	29	33	14	36	35	94	12.61	+ 6.7	28	14,748	se.	63	sw.	2	3	4	24	8.3	12.7	3.0
Point Reyes Light	490	7	18	29.38	29.90	.....	45.2	− 4.2	54	4	49	35	10	41	15	....	....	....	9.51	.....	28	17,351	s.	104	nw.	27	3	11	17	7.1	T.	....
Red Bluff	332	50	56	29.57	29.93	− .19	41.0	− 4.4	53	25	45	29	28	37	19	39	36	84	7.25	+ 3.3	22	5,496	se.	26	s.	8	5	6	20	7.7	11.0	....
Sacramento	69	106	117	29.90	29.97	− .15	43.6	− 2.0	57	2	49	31	1	38	23	41	38	83	9.35	+ 5.7	20	7,746	se.	50	se.	2	2	11	18	7.2	3.5	....
San Francisco	155	209	213	29.79	29.96	− .15	47.0	− 2.5	58	2	52	37	27	42	18	44	41	81	14.59	+10.3	26	6,346	se.	48	sw.	2	4	2	25	8.2	T.	....
San Jose	141	12	110	29.85	30.00	.....	46.2	− 2.1	60	23	52	29	31	40	22	....	....	....	8.71	+ 5.8	20	6,474	se.	46	se.	3	2	2	27	8.4	T.	....
South Atlantic Coast Region.							49.0	− 1.8										82	11.06	+ 8.3										6.8		
Fresno	327	89	98	29.65	30.02	− .08	45.6	+ 0.2	66	17	53	28	31	38	23	42	39	78	5.17	+ 3.6	19	4,887	e.	52	sw.	27	4	10	17	7.3	0.7	....
Los Angeles	338	159	191	29.66	30.03	− .05	50.8	− 2.3	64	7	57	38	31	45	23	48	45	83	13.30	+10.5	19	5,821	ne.	34	sw.	27	8	3	20	6.8	....	....
San Diego	87	62	70	29.95	30.05	− .02	52.5	− 1.5	65	23	58	36	13	47	22	49	46	82	7.56	+ 5.6	14	6,399	s.	54	s.	27	10	5	16	6.2	....	....
San Luis Obispo	201	32	40	29.82	30.05	− .04	47.3	− 3.7	62	4	54	29	12	40	25	45	43	85	18.21	+13.5	20	3,257	nw.	25	w.	27	9	2	20	7.1	T.	....
West Indies.																																
San Juan	82	8	54	29.99	30.08	.....	74.8	.....	83	17	79	66	28	71	14	....	....	....	3.79	− 0.8	22	16,438	ne.	48	ne.	10	2	19	10	6.2	....	....
Panama.																																
Balboa Heights	118	7	97	29.75	29.87	.....	80.3	.....	90	5	88	68	28	72	22	73	72	87	1.41	+ 0.4	11	5,488	n.	25	n.	9	5	21	5	5.8	....	....
Colon	25	5	71	29.85	29.88	.....	81.0	.....	86	9	85	74	29	77	11	76	75	86	2.33	− 1.6	11	11,323	ne.	33	n.	23	20	6	5	3.8	....	....

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 0.80 in 1 hour, during January, 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.	20			0.16														0.16			
Albany, N. Y.	2			0.67														*			
Alpena, Mich.	1-2			0.51														*			
Amarillo, Tex.	16-17			0.17														*			
Anniston, Ala.	31-Feb. 2	3:13 p. m.	D. N. a. m.	3.09	4:43 p. m.	5:07 p. m.	0.12	0.18	0.29	0.46	0.52	0.60									
Asheville, N. C.	22			0.59														.46			
Atlanta, Ga.	31			0.84														.30			
Atlantic City, N. J.	2			0.37														.19			
Augusta, Ga.	13			0.31														.24			
Baker, Oreg.	14			0.20														*			
Baltimore, Md.	22			0.19														.14			
Bentonville, Ark.	20-21	7:42 p. m.	7:30 a. m.	1.98	12:22 a. m.	1:03 a. m.	.20	.15	.37	.44	.48	.56	0.62	0.69	0.76	0.81					
Binghamton, N. Y.	12-13			0.28														.13			
Birmingham, Ala.	21-22	8:35 p. m.	7:21 a. m.	2.54	12:46 a. m.	1:45 a. m.	.59	.12	.25	.34	.48	.54	.61	.70	.88	.98	1.08	1.21			
Bismarck, N. Dak.	28-29			0.31														*			
Block Island, R. I.	10			0.74														.21			
Boise, Idaho.	25			0.35														*			
Boston, Mass.	2			0.50														.11			
Buffalo, N. Y.	1			0.63														*			
Burlington, Vt.	2			0.43														*			
Cairo, Ill.	30-31	7:05 p. m.	3:45 a. m.	2.54	7:57 p. m.	8:47 p. m.	.17	.10	.21	.32	.38	.42	.50	.58	.71	.75	.81				
Canton, N. Y.	13			0.58														*			
Charles City, Iowa.	26-27			0.93														*			
Charleston, S. C.	16			0.28														.20			
Charlotte, N. C.	6			0.26														.14			
Chattanooga, Tenn.	21-22			1.83														.54			
Cheyenne, Wyo.	23			0.18														*			
Chicago, Ill.	19-21			2.01														*			
Cincinnati, Ohio.	12	3:15 p. m.	8:00 p. m.	0.91	3:44 p. m.	4:05 p. m.	.08	.21	.27	.33	.41	.45									
Cleveland, Ohio.	5			0.30														.18			
Columbia, Mo.	26-27			1.88														*			
Columbia, S. C.	13			0.33														.18			
Columbus, Ohio.	9-12			2.00														.36			
Concord, N. H.	2			0.47														*			
Concordia, Kans.	25-26			0.35														*			
Corpus Christi, Tex.	19			0.08														.03			
Davenport, Iowa.	19-21			1.29														*			
Dayton, Ohio.	11-12			1.68														*			
Del Rio, Tex.	20			0.44														.40			
Denver, Colo.	17			0.23														*			
Des Moines, Iowa.	1			0.61														.27			
Detroit, Mich.	29-31			1.35														*			
Devils Lake, N. Dak.	28-29			0.22														*			
Dodge City, Kans.	31			0.10														*			
Dubuque, Iowa.	26-27			0.89														*			
Duluth, Minn.	25-27			1.41														*			
Durango, Colo.	27-28			2.56														*			
Eastport, Me.	2-3			0.66														*			
Elkins, W. Va.	10-11			1.64														.29			
El Paso, Tex.	19-20			0.61														.19			
Erie, Pa.	1-2			0.42														*			
Escanaba, Mich.	12-13			0.59														*			
Eureka, Cal.	22-23			2.28														.31			
Evansville, Ind.	28-29			3.46														.61			
Flagstaff, Ariz.	25-28			3.92														*			
Fort Smith, Ark.	26-27	12:16 p. m.	D. N. a. m.	2.68	9:18 p. m.	9:42 p. m.	1.56	.10	.21	.30	.55	.62									
Fort Wayne, Ind.	29-31			1.97														*			
Fort Worth, Tex.	19-21			1.19														.51			
Fresno, Cal.	5			0.35														.28			
Galveston, Tex.	2			0.51														.45			
Grand Haven, Mich.	19-21			1.02														*			
Grand Junction, Colo.	28			0.15														.11			
Grand Rapids, Mich.	20-22			1.07														.27			
Green Bay, Wis.	26-27			0.73														*			
Hannibal, Mo.	11-12			1.94														*			
Harrisburg, Pa.	29-30			0.36														*			
Hartford, Conn.	2			0.50														*			
Hatteras, N. C.	13-14			0.40														.18			
Havre, Mont.	24-26			0.88														*			
Helena, Mont.	3-4			0.43														*			
Houghton, Mich.	1			0.93														*			
Houston, Tex.	2			1.02														.35			
Huron, S. Dak.	1			0.95														*			
Independence, Cal.	1-2			2.41														*			
Indianapolis, Ind.	28-31			2.60														*			
Iola, Kans.	20-21			1.82														*			
Jacksonville, Fla.	13			0.42														.42			
Kalispell, Mont.	3-4			0.61														*			
Kansas City, Mo.	20-21	9:40 p. m.	4:45 a. m.	0.93	10:14 p. m.	10:30 p. m.	.04	.10	.30	.38	.42										
Keokuk, Iowa.	20-21			1.43														*			
Key West, Fla.	5	D. N. a. m.	D. N. a. m.	0.56	4:28 a. m.	4:42 a. m.	.04	.12	.39	.52											
Knoxville, Tenn.	5-7			1.57														*			
La Crosse, Wis.	26-27			0.85														*			
Lander, Wyo.	27-28			0.91														*			
Lansing, Mich.	11-12			0.87														*			
Lewiston, Idaho.	24-25			0.52														*			
Lexington, Ky.	28-29			1.13														*			
Lincoln, Nebr.	25-27			0.76														*			
Little Rock, Ark.	27-28			3.47														.54			
Los Angeles, Cal.	16-18	1:05 p. m.	9:30 a. m.	5.74	3:17 a. m.	3:29 a. m.	2.13	.20	.42	.46											
Louisville, Ky.	28-29			2.72														.50			
Ludington, Mich.	26-27			1.03														*			
Lynchburg, Va.	11			0.21														.16			
Macon, Ga.	13			1.15														.49			
Madison, Wis.	26-27			1.27														*			
Marquette, Mich.	12-13			1.13														*			

* 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 0.80 in 1 hour, during January, 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.
Memphis, Tenn	30-31			1.73														0.50			
	12	12:50 p.m.	2:05 p.m.	0.70	1:26 p.m.	1:54 p.m.	0.01	0.07	0.27	0.35	0.42	0.60	0.69								
		4:30 p.m.	9:30 p.m.	0.79	4:54 p.m.	5:04 p.m.	.01	.24	.38												
Meridian, Miss	21-22	8:40 p.m.	6:30 a.m.	2.07	8:58 p.m.	9:38 p.m.	.01	.28	.39	.45	.53	.59	.70	0.79	0.84						
Miami, Fla	9	3:02 p.m.	3:55 p.m.	0.57	3:08 p.m.	3:25 p.m.	.01	.09	.30	.48	.52										
Milwaukee, Wis	11-12			0.93														*			
Minneapolis, Minn	28-29			0.74														*			
Mobile, Ala	22	D. N. a.m.	8:28 a.m.	0.89	2:55 a.m.	3:31 a.m.	.01	.12	.26	.35	.39	.43	.49	.57	.59						
Modena, Utah	17-18			1.63														*			
	22	D. N. a.m.	10:40 a.m.	0.81	3:27 a.m.	3:44 a.m.	.05	.15	.26	.36	.40										
Montgomery, Ala	31-Feb. 1	6:25 p.m.	D. N. a.m.	1.72	7:24 p.m.	7:43 p.m.	.37	.07	.35	.46	.54										
Moorhead, Minn	28-29			0.52														*			
Mount Tamalpais, Cal	13-14			1.75														.28			
Nantucket, Mass	10			0.66														.15			
Nashville, Tenn	21-22	5:45 p.m.	7:35 a.m.	1.35	7:55 p.m.	8:24 p.m.	.03	.18	.32	.42	.49	.53	.59								
New Haven, Conn	10-11			0.56														.19			
	12-13	6:18 p.m.	D. N. a.m.	1.02	6:20 p.m.	6:34 p.m.	.01	.30	.54	.64											
New Orleans, La	21-22	11:20 p.m.	D. N. a.m.	1.51	12:29 a.m.	12:56 a.m.	.01	.11	.17	.53	.76	.95	1.00								
New York, N. Y	12-13			0.35														*			
Norfolk, Va	6-7			0.98														*			
Northfield, Vt	2			0.29														*			
North Head, Wash	20-23			1.75														*			
North Platte, Nebr	25-26			0.33														*			
Oklahoma, Okla	25-26			1.34														.58			
Omaha, Nebr	25-27			0.86														*			
Oswego, N. Y	12-13			0.76														*			
Palestine, Tex	21	1:35 a.m.	11:28 a.m.	1.95	3:00 a.m.	3:23 a.m.	.03	.09	.34	.48	.53	.58									
Parkersburg, W. Va	28-29			1.09														.34			
Pensacola, Fla	22			0.66														.46			
Peoria, Ill	11-12			1.72														*			
Philadelphia, Pa	1-2			0.33														.10			
Phoenix, Ariz	14-17			1.74														.15			
Pierre, S. Dak	1			0.34														*			
Pittsburgh, Pa	29-30			0.75														.16			
Pocatello, Idaho	10-11			0.58														*			
Point Reyes Light, Cal	2-3	9:30 a.m.	12:30 p.m.	2.39	7:42 p.m.	8:11 p.m.	.98	.20	.29	.34	.41	.46	.51								
Port Huron, Mich	30-31			0.98														*			
Portland, Me	10-11			0.91														.20			
Portland, Oreg	20-23			1.84														.17			
Providence, R. I	10			0.45														*			
Pueblo, Colo	30			0.08														*			
Raleigh, N. C	15-16			0.76														*			
Rapid City, S. Dak	14-15			0.22														*			
Reading, Pa	12-13			0.38														.21			
Red Bluff, Cal	2			2.02														.28			
Reno, Nev	2-3			2.50														*			
Richmond, Va	7			0.70														*			
Rochester, N. Y	1-2			0.82														*			
Roseburg, Oreg	7-9			2.05														*			
Roswell, N. Mex	20			0.38														.17			
Sacramento, Cal	2-3			3.41														.40			
Saginaw, Mich	12-13			0.66														*			
St. Joseph, Mo	20			0.86														*			
St. Louis, Mo	10-12			3.75														*			
St. Paul, Minn	28-29			0.61														*			
Salt Lake City, Utah	27-29			0.59														*			
San Antonio, Tex	20-21	9:15 p.m.	4:00 a.m.	1.12	12:04 a.m.	12:40 a.m.	.06	.23	.28	.43	.45	.49	.65	.88	.92						
San Diego, Cal	15-18			2.90														*			
Sand Key, Fla	9-10	4:43 p.m.	12:23 a.m.	0.66	11:02 p.m.	11:29 p.m.	.04	.06	.12	.23	.34	.46	.50								
Sandusky, Ohio	12			0.91														*			
San Francisco, Cal	2-3			3.67														*			
San Jose, Cal	3			2.31														.39			
San Luis Obispo, Cal	16-17			3.39														.58			
Santa Fe, N. Mex	15-19			1.38														*			
Sault Ste. Marie, Mich	27			0.66														*			
Savannah, Ga	16-17			0.71														.20			
Scranton, Pa	16			0.46														*			
Seattle, Wash	21-22			2.34														.25			
Sheridan, Wyo	27-28			0.57														*			
Shreveport, La	27-28			2.65														.52			
Sioux City, Iowa	28-29			0.54														*			
Spokane, Wash	3			0.38														*			
Springfield, Ill	11-12			1.86														*			
Springfield, Mo	11-12			2.71														.49			
Syracuse, N. Y	1-2			1.00														*			
Tacoma, Wash	20-23			2.00														.12			
Tampa, Fla	17			0.12														.12			
Tatoosh Island, Wash	21-23			3.34														.22			
Taylor, Tex	20-21	2:28 p.m.	7:28 a.m.	1.31	2:01 a.m.	2:16 a.m.	.23	.25	.45	.54	.58										
Terre Haute, Ind	28-31			4.49														.51			
Thomasville, Ga	7			0.49														.48			
Toledo, Ohio	30-31			1.29														.39			
Tonopah, Nev	18			0.65														*			
Topeka, Kans	20-21			0.92														.28			
Valentine, Nebr	1			0.36														*			
Vicksburg, Miss	12	9:25 a.m.	10:05 a.m.	0.61	9:41 a.m.	9:52 a.m.	.05	.24	.45	.51											
	27	7:15 a.m.	1:50 p.m.	1.12	8:29 a.m.	8:54 a.m.	.05	.10	.18	.30	.42	.48									
Walla Walla, Wash	22-24			0.94														*			
Washington, D. C	29-30			0.59														.10			
Wichita, Kans	25-26			0.91														*			
Williston, N. Dak	28			0.34														*			
Wilmington, N. C	22			0.22														.20			
Winnemucca, Nev	8			0.59														*			
Wytheville, Va	6-7			1.98														*			
Yankton, S. Dak	11-12			0.43														*			
Yellowstone Park, Wyo	3-4			0.80														*			

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

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

Stations.	Altitude above M. S. L.* (Jan. 1, 1916.)	Pressure.			Temperature.						Precipitation.		
		Station reduced to mean of 24 hours.	Sea-level 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	29.58	29.72	−0.14	21.8	− 2.0	27.6	15.9	46	4	2.91	−3.00	16.0
Sydney, C. B. I.	48	29.94	*29.98*	+ .*03*	23.8	+ 3.3	31.8	15.9	46	− 3	1.62	−3.48	12.0
Halifax, N. S.	88	29.97	*30.08*	+ .*11*	23.8	+ 2.0	33.0	14.6	55	− 5	2.87	−2.90	14.9
Yarmouth, N. S.	65	30.02	30.09	+ .09	26.8	+ 0.5	33.3	20.3	45	5	2.90	−2.51	21.3
Charlottetown, P. E. I.	38	29.99	30.03	+ .07	19.2	+ 2.2	26.2	12.1	41	− 8	2.67	−1.29	19.4
Chatham, N. B.	28	30.04	*30.07*	+ .*10*	15.0	+ 5.2	25.4	4.5	49	−14	2.47	−1.12	16.7
Father Point, Que.	20	30.04	30.07	+ .09	13.4	+ 5.4	22.0	4.9	43	−12	2.02	−0.83	17.0
Quebec, Que.	296	29.77	30.11	+ .09	12.4	+ 3.3	21.4	3.5	44	−18	4.45	+0.44	29.3
Montreal, Que.	187	29.89	30.11	+ .07	19.1	+ 7.4	27.4	10.8	45	− 9	4.15	+0.42	17.7
Stonecliffe, Ont.	489	29.45	*30.08*	+ .*06*	13.8	+ 7.4	26.5	1.2	44	−25	3.53	+1.21	26.7
Ottawa, Ont.	236	29.84	*30.19*	+ .*16*	17.6	+ 8.0	27.3	7.9	44	−16	3.97	+0.98	15.0
Kingston, Ont.	285	29.81	30.14	+ .09	25.6	+ 8.5	33.1	18.2	44	− 7	3.87	+0.42	9.7
Toronto, Ont.	379	29.69	*30.09*	+ .*04*	30.1	+ 8.7	37.1	23.0	53	1	2.50	−0.42	3.1
White River, Ont.	1,244	28.62	*30.01*	.*00*	3.0	+ 0.7	16.8	−10.9	39	−51	4.50	+2.81	45.0
Port Stanley, Ont.	592	29.48	30.14	+ .07	29.0	+ 6.8	35.8	22.2	48	− 2	5.56	+2.57	6.2
Southampton, Ont.	656	29.34	*30.07*	+ .*04*	27.8	+ 7.4	35.4	20.3	59	1	5.25	+1.20	15.1
Parry Sound, Ont.	688	29.33	30.06	+ .05	22.4	+ 9.6	31.5	13.3	46	−15	6.10	+2.02	42.8
Port Arthur, Ont.	644	29.32	30.07	.00	6.6	+ 3.5	17.5	− 4.4	37	−27	1.95	+1.13	19.5
Winnipeg, Man.	760	29.28	30.18	+ .07	− 6.8	0.0	1.8	−15.4	22	−41	3.36	+2.48	33.6
Minnedosa, Man.	1,690	28.20	30.16	+ .06	− 9.6	− 2.4	− 0.9	−18.6	20	−40	1.18	+0.38	11.8
Qu'Appelle, Sask.	2,115	27.72	30.17	+ .09	−12.9	− 9.1	− 4.6	−21.2	20	−46	1.10	+0.60	11.0
Medicine Hat, Alberta.	2,144	27.77	*30.24*	+ .*17*	−11.5	−17.0	− 2.0	−21.0	30	−48	0.53	−0.04	5.3
Swift Current, Sask.	2,392	27.41	*30.21*	+ .*12*	−12.6	−15.7	− 3.4	−21.9	27	−49	2.70	+2.06	27.0
Calgary, Alberta.	3.428	26.40	*30.25*	+ .*22*	− 7.8	−16.2	1.7	−17.2	36	−41	0.79	+0.26	7.9
Banff, Alberta.	4,521	25.22	*30.23*	+ .*23*	−13.1	−25.2	− 1.0	−25.2	19	−46	2.85	+1.66	28.5
Edmonton, Alberta.	2,150	27.77	*30.26*	+ .*23*	−12.6	−14.4	− 3.5	−21.6	29	−45	1.09	+0.41	10.9
Prince Albert, Sask.	1,450	28.50	*30.20*	+ .*11*	−15.0	− 6.6	− 6.9	−23.1	17	−58	0.96	−0.01	9.6
Battleford, Sask.	1,592	28.37	*30.27*	+ .*19*	−15.6	− 9.7	− 7.0	−24.1	20	−61	0.76	+0.36	7.6
Kamloops, B. C.	1,262	28.83	30.23	+ .27	− 3.0	−26.0	3.3	− 9.5	32	−28	0.65	−0.17	6.5
Victoria, B. C.	230	29.59	29.85	− .12	29.5	− 9.0	33.8	25.2	48	15	4.21	−1.18	30.2
Barkerville, B. C.	4,180	25.51	30.08	+ .19	− 9.0	−26.8	− 1.5	−16.4	21	−40	1.40	−1.20	14.0
Hamilton, Bermuda.	151	30.16	30.33	+ .20	60.0	− 2.0	65.9	54.1	71	46	1.70	−3.24	.....

*The altitudes given above were furnished by the Director of the Canadian Meteorological Service, March 9, 1916, and refer to cisterns of barometers at the respective stations. Where sea-level pressures and departures are *omitted* new reduction factors are in course of computation.—C. A., jr.

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