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	0.08

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 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. 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 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.*

TABLE I.—*Climatological data for Weather Bureau Stations, October, 1916.*

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 inch 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.
New England.							**51.9**	**+ 1.5**										**77**	**1.79**	**− 1.8**										**4.9**		
Eastport	76	67	85	30.00	30.09	+0.09	48.4	+ 1.8	73	6	56	30	18	41	29	44	40	78	2.73	− 1.1	8	7,296	s.	46	se.	20	11	9	11	5.5	....	....
Greenville	1,070	6	....	28.90	30.08	....	45.7	....	81	5	57	22	19	35	40	....	....	....	2.87	....	7	....	....	....	....	....	....	....	....	....	0.5	....
Portland, Me.	103	82	117	30.01	30.13	+ .09	50.4	+ 1.3	79	6	59	32	18	42	31	45	39	70	1.29	− 2.4	10	11,497	sw.	63	nw.	14	15	7	9	4.4	....	....
Concord	288	70	79	29.82	30.14	+ .09	49.6	+ 0.9	83	5	63	27	27	36	44	....	....	....	1.34	− 1.9	7	3,772	n.	40	w.	17	14	7	10	5.0	....	....
Burlington	404	11	48	29.67	30.12	+ .08	48.2	+ 1.3	76	5	58	27	18	38	32	....	....	....	1.43	− 1.7	10	8,993	s.	48	s.	13	10	11	10	5.2	T.	....
Northfield	876	12	60	29.17	29.13	+ .09	45.8	+ 2.2	82	5	60	23	23	32	49	40	37	80	2.09	− 0.4	8	5,708	s.	46	sw.	17	10	13	8	5.3	0.1	....
Boston	125	115	188	29.99	30.13	+ .08	55.5	+ 3.2	84	8	64	36	18	47	36	50	46	75	0.94	− 2.9	7	7,489	sw.	42	nw.	17	14	9	8	4.4	....	....
Nantucket	12	14	90	30.12	30.13	+ .08	54.6	+ 0.1	70	9	61	39	18	48	23	51	48	82	1.92	− 1.5	10	12,812	sw.	48	sw.	13	12	8	11	5.7	....	....
Block Island	26	11	46	30.11	30.14	+ .09	55.1	− 0.2	72	9	61	39	18	49	22	52	49	82	2.48	− 1.6	8	12,568	ne.	57	nw.	17	15	4	12	5.2	....	....
Narragansett Pier	....	9	....	....	....	....	52.7	+ 0.6	74	9	62	30	18	44	32	....	....	....	2.78	....	10	....	ne.	....	....	....	17	4	10	....	....	....
Providence	160	215	251	29.96	30.13	+ .08	53.9	+ 1.7	83	9	64	33	18	44	38	49	46	77	2.39	− 1.4	7	9,239	sw.	60	nw.	17	13	11	7	4.5	....	....
Hartford	159	122	140	29.96	30.13	+ .07	53.8	+ 2.6	83	8	65	33	18	43	36	47	42	72	1.08	− 2.8	5	5,388	s.	37	nw.	17	13	9	9	4.7	....	....
New Haven	106	117	155	30.03	30.15	+ .09	55.2	+ 2.4	84	9	66	36	18	45	36	49	46	75	2.05	− 1.9	5	7,105	n.	38	s.	19	14	10	7	3.8	....	....
Middle Atlantic States.							**56.2**	**+ 0.5**										**74**	**1.51**	**− 1.7**										**4.2**		
Albany	97	102	115	30.02	30.13	+0.07	51.4	+ 1.0	77	6	62	31	27	41	30	46	42	76	1.54	− 1.4	6	5,204	s.	35	se.	13	15	8	8	4.7	....	....
Binghamton	871	10	69	29.21	30.15	+ .09	50.9	+ 1.7	84	8	64	26	27	38	41	....	....	....	1.82	− 1.3	6	3,253	e.	26	w.	17	11	11	9	4.9	....	....
New York	314	414	454	29.80	30.14	+ .08	57.2	+ 1.6	84	9	65	39	10	50	34	50	44	67	0.63	− 3.1	3	11,864	nw.	63	nw.	17	15	7	9	4.3	....	....
Harrisburg	374	94	104	29.76	30.17	+ .09	54.4	+ 0.4	85	8	65	34	18	44	34	48	43	72	1.90	− 1.0	7	3,978	nw.	28	n.	9	18	6	7	3.6	....	....
Philadelphia	117	123	190	30.04	30.17	+ .10	58.6	+ 2.3	86	9	68	40	1	50	32	51	45	67	1.21	− 1.9	3	7,099	sw.	35	n.	10	16	8	7	4.0	....	....
Reading	325	81	98	29.81	30.17	+ .10	54.9	....	84	8	66	33	18	44	35	48	43	72	1.24	− 2.0	4	4,416	sw.	31	se.	19	18	6	7	3.8	....	....
Scranton	805	111	119	29.28	30.16	+ .10	52.2	+ 0.8	81	8	64	30	27	40	38	46	42	76	0.91	− 2.0	7	4,714	sw.	36	w.	17	13	11	7	4.9	....	....
Atlantic City	52	37	48	30.10	30.16	+ .09	56.7	− 0.7	77	9	63	40	22	50	26	53	49	76	1.28	− 2.0	4	6,047	sw.	28	s.	19	14	7	10	4.7	....	....
Cape May	18	13	49	30.16	30.18	+ .11	57.5	− 2.1	82	9	65	39	18	50	26	53	....	....	0.90	− 2.4	7	6,361	ne.	34	se.	19	13	12	6	4.3	....	....
Sandy Hook	22	10	57	30.12	30.14	....	57.4	....	84	9	64	43	18	51	29	52	48	74	0.92	....	4	11,491	s.	54	s.	19	17	8	6	3.9	....	....
Trenton	190	159	183	29.94	30.14	....	56.1	....	84	9	66	36	1	46	34	49	44	72	0.96	− 2.4	4	8,081	n.	41	nw.	17	14	11	6	3.9	....	....
Baltimore	123	100	113	30.03	30.16	+ .08	57.6	+ 0.1	86	8	67	40	1	48	28	51	46	71	1.61	− 1.4	7	4,770	n.	27	n.	10	17	6	8	3.9	....	....
Washington	112	62	85	30.03	30.15	+ .07	56.6	0.0	87	8	68	35	27	45	32	50	46	75	1.76	− 1.3	9	3,967	n.	26	sw.	20	17	8	6	3.9	....	....
Lynchburg	681	153	188	29.41	30.16	+ .07	57.7	+ 0.8	89	7	71	33	11	45	36	49	45	72	2.22	− 1.2	6	4,545	n.	63	ne.	18	17	8	6	4.6	....	....
Norfolk	91	170	205	30.04	30.14	+ .07	63.0	+ 1.7	86	9	69	44	15	57	23	57	53	76	2.62	− 1.3	4	10,505	ne.	44	s.	19	10	14	7	4.8	....	....
Richmond	144	11	52	30.00	30.16	+ .08	60.2	+ 0.4	90	9	72	37	12	49	35	53	49	76	1.44	− 1.9	4	5,875	ne.	32	s.	20	14	8	9	4.3	....	....
Wytheville	2,293	49	55	27.77	30.16	+ .07	52.6	− 1.0	81	8	65	29	27	40	35	47	44	81	2.18	− 1.0	9	3,697	nw.	29	w.	13	16	8	7	3.7	....	....
South Atlantic States.							**64.5**	**+ 0.8**										**79**	**3.20**	**− 0.7**										**4.8**		
Asheville	2,255	70	84	27.79	30.15	+0.06	56.3	+ 1.0	80	7	68	33	22	44	39	49	45	76	2.86	− 0.1	9	5,832	se.	48	e.	18	16	8	7	3.8	....	....
Charlotte	773	153	161	29.29	30.13	+ .05	61.0	− 0.1	85	9	71	39	11	51	26	54	49	71	2.64	− 0.5	6	8,864	ne.	46	sw.	20	15	10	6	3.7	....	....
Hatteras	11	12	50	30.10	30.10	+ .04	66.5	+ 0.5	79	9	71	50	15	62	18	62	60	83	4.16	− 1.8	9	12,318	ne.	48	n.	10	9	9	13	5.8	....	....
Manteo	12	4	46	....	....	....	64.5	....	83	9	71	42	15	58	....	....	....	....	1.84	− 4.2	4	....	ne.	....	....	....	14	6	11	....	....	....
Raleigh	376	103	110	29.73	30.13	+ .06	61.8	+ 1.3	85	9	72	38	11	52	30	55	51	74	2.68	− 1.4	5	6,486	ne.	28	sw.	20	16	8	7	4.0	....	....
Wilmington	78	81	91	30.01	30.09	+ .03	65.0	+ 1.7	85	9	74	43	11	57	25	60	58	86	5.12	+ 1.4	7	7,018	ne.	32	ne.	4	13	8	10	4.7	....	....
Charleston	48	11	92	30.01	30.06	.00	67.4	+ 0.3	84	17	74	48	22	61	24	62	60	82	4.37	+ 0.4	9	10,331	n.	44	ne.	10	14	8	9	4.5	....	....
Columbia, S. C.	351	41	57	29.72	30.10	+ .03	64.4	+ 0.4	85	9	74	41	22	55	29	56	52	70	1.33	− 1.5	5	6,101	ne.	34	sw.	20	13	9	9	4.5	....	....
Augusta	180	62	77	29.89	30.08	+ .01	65.6	+ 2.0	85	16	76	40	22	56	31	58	55	75	1.10	− 1.2	7	4,941	ne.	27	sw.	20	14	6	11	4.6	....	....
Savannah	65	150	194	29.99	30.06	+ .01	67.9	+ 1.6	88	17	75	43	22	60	25	62	60	84	4.94	+ 1.4	10	9,469	ne.	46	e.	10	7	9	15	6.3	....	....
Jacksonville	43	209	245	29.97	30.02	.00	69.5	− 0.1	86	10	75	43	22	64	22	65	64	88	4.77	− 0.3	20	11,165	n.	38	ne.	27	8	8	15	6.5	....	....
Florida Peninsula.							**77.2**	**+ 0.8**										**78**	**3.06**	**− 3.2**										**4.9**		
Key West	22	10	64	29.87	29.89	−0.05	79.3	+ 0.6	88	8	84	69	22	75	14	73	70	77	3.38	− 2.0	12	8,485	ne.	33	nw.	21	13	14	4	4.3	....	....
Miami	25	71	79	29.89	29.92	....	77.2	− 0.6	86	7	82	62	23	72	18	72	70	80	5.03	− 5.5	15	7,472	ne.	32	e.	28	11	13	7	5.2	....	....
Sand Key	23	39	72	29.84	29.88	− 0.6	78.8	....	87	20	81	70	22	76	9	74	72	80	1.36	....	10	12,722	ne.	43	nw.	21	14	12	5	4.0	....	....
Tampa	35	79	96	29.93	29.97	− 0.1	75.0	+ 2.4	89	9	83	49	22	67	27	68	65	77	0.77	− 2.2	7	6,191	ne.	23	ne.	28	6	11	14	6.2	....	....
East Gulf States.							**66.6**	**+ 1.0**										**72**	**2.50**	**− 0.3**										**3.2**		
Atlanta	1,174	190	216	28.87	30.11	+0.04	62.3	− 0.1	86	9	71	36	21	53	26	55	50	71	2.11	− 0.2	5	7,471	e.	34	e.	18	18	3	10	3.9	....	....
Macon	370	78	87	29.69	30.08	+ .02	65.2	+ 1.5	86	10	75	38	22	55	33	58	53	74	1.72	− 0.4	7	5,352	ne.	31	n.	4	16	5	10	4.1	....	....
Thomasville	273	49	58	29.74	30.04	.00	68.9	+ 0.7	88	10	78	39	22	59	34	61	57	74	4.88	+ 1.4	6	4,111	se.	28	se.	18	16	6	9	4.4	....	....
Pensacola	56	140	182	29.98	30.04	+ .01	69.6	+ 0.2	85	10	78	42	21	62	27	61	57	70	1.32	− 2.8	7	10,529	ne.	120	se.	18	19	6	6	3.3	....	....
Anniston	741	9	57	29.32	30.12	+ .05	63.9	+ 1.5	87	9	76	29	22	52	36	....	....	....	1.38	− 1.0	3	4,172	e.	28	w.	20	21	5	5	2.7	....	....
Birmingham	700	11	48	29.34	30.11	+ .04	65.6	+ 1.2	89	8	77	33	22	54	33	55	49	67	0.83	− 1.5	4	4,733	e.	30	se.	18	19	8	4	3.2	....	....
Mobile	57	125	161	29.98	30.03	− .01	68.8	+ 1.7	90	9	78	41	22	59	33	61	57	72	2.52	− 0.7	2	7,399	n.	115	e.	18	21	6	4	2.9	....	....
Montgomery	223	100	112	29.83	30.08	+ .02	66.2	+ 0.5	90	9	77	38	22	56	36	58	52	66	1.75	− 0.7	4	4,970	ne.	37	e.	18	18	10	3	3.0	....	....
Corinth	469	6	....	....	....	....	61.1	....	90	6	77	29	22	45	49	....	....	....	1.70	....	6	....	....	....	....	....	....	....	....	....	....	....
Jackson	304	5	....	....	....	....	65.9	....	94	9	81	31	22	50	48	....	....	....	0.96	....	6	....	se.	....	....	....	20	6	5	....	....	....
Meridian	375	85	93	29.67	30.07	+ .01	64.6	+ 1.6	87	15	77	32	22	52	38	57	54	78	0.93	− 1.8	6	3,625	ne.	25	e.	18	21	7	3	2.5	....	....
Vicksburg	247	65	74	29.80	30.09	+ .03	66.1	+ 0.8	88	9	77	40	21	55	31	58	54	74	1.55	− 1.2	4	4,446	e.	30	nw.	19	25	3	3	2.0	....	....
New Orleans	51	76	84	29.98	30.03	.00	71.6	+ 2.1	87	9	79	50	20	64	25	64	60	76	8.51	+ 5.6	7	5,284	ne.	25	e.	17	22	3	6	2.7	....	....
West Gulf States.							**68.0**	**+ 1.3**										**69**	**1.51**	**− 1.3**										**3.0**		
Shreveport	249	77	93	29.80	30.07	+0.02	67.4	+ 1.8	89	13	80	36	20	55	41	57	52	67	2.17	− 1.0	2	4,711	se.	35	w.	19	25	4	2	2.0	....	....
Bentonville	1,303	11	44	28.69	30.06	+ .01	59.2	+ 1.2	87	8	71	26	21	47	36	....	....	....	1.45	− 1.4	7	2,094	s.	17	s.	2	20	4	7	3.7	....	....
Fort Smith	457	79	94	29.57	30.05	.00	63.6	+ 1.9	90	8	75	32	20	52	35	54	49	68	1.49	− 1.3	7	5,951	e.	33	nw.	19	17	6	8	3.8	....	....
Little Rock	357	139	147	29.70	30.08	+ .02	63.3	+ 0.4	87	7	74	35	20	52	32	54	49	66	2.92	+ 0.4	6	5,791	e.	42	w.	19	22	3	6	2.7	....	....
Brownsville	57	3	40	....	....	....	74.8	....	91	3	85	53	20	64	31	....	....	....	2.23	....	9	....	e.	....	....	....	....	....	....	....	....	....
Corpus Christi	20	69	77	30.01	30.03	+ .03	73.4	+ 0.8	92	19	79	49	20	68	34	67	64	78	0.06	− 2.0	3	8,491	se.	38	n.	19	14	12	5	4.0	....	....
Dallas	512	109	117	29.50	30.04	....	67.8	....	90	7	80	34	20	56	33	....	....	....	3.75	....	4	6,554	se.	39	w.	19	14	10	7	3.8	....	....
Fort Worth	670	106	114	29.32	30.02	− .01	68.1	+ 1.8	91	8	80	35	20	57	33	58	51	62	1.89	− 0.6	5	7,496	s.	40	nw.	19	16	8	7	3.9	....	....
Galveston	54	106	114	29.99	30.05	+ .02	72.5	+ 0.1	84	5	78	45	20	68	28	66	62	74	0.99	− 3.2	1	7,540	se.	40	n.	19	28	2	1	1.3	....	....
Houston	138	111	121	29.90	30.05	....	71.0	+ 1.1	90	7	82	40	20	60	38	....	....	....	1.05	....	4	5,369	se.	28	nw.	19	25	5	1	2.0	....	....
Palestine	510	64	72	29.51	30.04	+ .01	69.2	+ 3.0	90	13	80	34	20	58	33	58	53	67	0.51	− 3.1	3	4,881	s.	24	nw.	19	21	5	5	2.7	....	....
San Antonio	701	119	132	29.31	30.03	+ .02	70.9	+ 1.7	89	13	82	42	20	60	36	61	56	70	2.57	+ 1.1	4	5,175	sw.	34	n.	19	22	7	2	2.5	....	....
Taylor	582	55	63	29.46	30.07	+ .05	69.2	+ 0.9	90	13	82	37	20	57	35	....	....	....	1.05	− 1.5	2	5,593	se.	28	n.	19	14	15	2	3.4	....	....

TABLE I.—*Climatological data for Weather Bureau Stations, October, 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 inch 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.							**57.5**	**+ 0.9**										**70**	**2.20**	**− 0.3**										**3.8**		
Chattanooga	762	189	213	29.31	30.13	+0.04	61.7	+ 0.9	86	7	72	36	21	51	31	53	48	69	4.12	+ 1.3	8	4,620	ne.	36	w.	20	16	8	7	3.8	....	....
Knoxville	996	93	100	29.06	30.12	+ .03	59.4	+ 1.3	87	7	71	33	22	48	35	52	48	73	1.97	− 0.6	9	3,136	ne.	23	w.	20	15	9	7	3.8	....	....
Memphis	399	76	97	29.69	30.12	+ .05	64.0	+ 1.5	90	7	74	34	21	54	30	54	48	62	2.28	− 0.5	4	5,334	se.	49	w.	19	22	6	3	2.5	....	....
Nashville	546	168	191	29.54	30.13	+ .05	60.8	+ 0.5	90	7	73	32	22	48	38	52	46	68	2.67	+ 0.2	5	5,380	ne.	38	sw.	20	18	5	8	3.4	....	....
Lexington	989	193	230	29.05	30.13	+ .05	57.6	+ 1.1	88	7	68	33	22	47	32	....	....	....	2.04	− 0.2	6	9,449	se.	46	sw.	20	21	3	7	3.2	T.	....
Louisville	525	219	255	29.55	30.13	+ .05	58.3	− 0.1	89	7	70	31	22	47	32	50	43	64	2.02	− 0.6	5	7,390	s.	50	sw.	20	19	5	7	3.4	....	....
Evansville	431	139	175	29.64	30.11	+ .03	60.0	+ 2.0	91	7	71	35	22	48	33	51	45	65	2.05	− 1.0	8	7,527	s.	48	sw.	20	18	7	6	3.5	....	....
Indianapolis	822	194	230	29.22	30.11	+ .04	56.1	+ 1.1	87	7	66	30	22	46	30	47	41	64	1.47	− 1.3	9	8,421	s.	40	nw.	13	16	6	9	4.2	0.4	....
Terre Haute	575	96	129	29.47	30.09	+ .01	56.4	....	89	8	68	32	22	45	32	48	41	66	1.53	....	10	6,858	se.	37	sw.	20	16	8	7	4.4	0.2	....
Cincinnati	628	11	51	29.44	30.13	+ .05	54.9	+ 1.9	88	6	67	27	22	42	37	48	43	71	1.81	− 0.5	7	4,715	ne.	36	sw.	20	17	6	8	3.6	....	....
Columbus	824	173	222	29.25	30.13	+ .05	55.2	+ 1.1	86	8	66	35	21	44	33	47	41	67	1.84	− 0.5	9	7,383	sw.	46	nw.	13	17	6	8	3.8	....	....
Dayton	899	181	216	29.14	30.10	....	54.8	+ 0.7	85	6	66	33	22	43	36	48	44	74	1.42	− 1.0	8	6,750	sw.	44	sw.	20	16	8	7	3.8	T.	....
Pittsburgh	842	353	410	29.23	30.15	+ .07	54.8	− 0.1	86	8	66	33	23	43	35	47	42	72	2.31	0.0	10	7,311	w.	45	se.	19	16	4	11	4.4	....	....
Elkins	1,940	41	50	28.10	30.20	+ .10	51.6	+ 0.2	86	8	68	21	27	39	44	43	40	81	2.32	− 0.1	12	2,519	w.	23	se.	19	17	6	8	4.3	T.	....
Parkersburg	638	77	84	29.50	30.16	+ .08	55.3	+ 0.7	88	8	69	31	27	42	41	47	44	77	2.73	+ 0.1	8	3,240	se.	28	nw.	25	17	5	9	4.6	....	....
Lower Lake Region.							**52.2**	**+ 0.5**										**70**	**2.37**	**− 0.9**										**4.9**		
Buffalo	767	247	280	29.26	30.10	+0.05	52.6	+ 1.1	77	4	61	34	18	44	29	46	40	79	2.33	− 1.2	10	13,536	sw.	70	w.	25	12	6	13	5.5	....	....
Canton	448	10	61	29.62	30.10	....	48.2	+ 1.6	79	8	59	24	18	37	36	....	....	....	2.22	− 1.1	10	8,455	sw.	54	w.	17	9	9	13	5.7	T.	....
Oswego	335	76	91	29.72	30.10	+ .05	51.2	0.0	82	8	60	31	18	42	32	45	40	71	2.16	− 1.2	9	8,291	s.	45	w.	17	9	9	13	5.5	....	....
Rochester	523	97	113	29.54	30.12	+ .07	51.9	+ 1.1	84	8	62	22	1	42	34	43	39	67	1.92	− 0.9	10	6,155	sw.	38	w.	16	10	8	13	5.5	....	....
Syracuse	597	97	113	29.47	30.12	+ .06	51.9	+ 0.9	83	8	67	32	18	42	39	45	40	69	1.44	− 1.8	7	8,401	s.	50	nw.	17	9	10	12	5.5	....	....
Erie	714	130	166	29.32	30.10	+ .05	52.7	+ 0.4	81	8	62	35	23	44	32	46	41	70	2.88	− 0.9	12	11,981	sw.	61	se.	19	10	12	9	4.8	....	....
Cleveland	762	190	201	29.26	30.11	+ .05	52.7	+ 0.4	83	8	62	36	21	43	31	46	41	69	2.19	− 0.5	9	10,492	sw.	48	nw.	13	12	11	8	4.4	....	....
Sandusky	629	62	103	29.41	30.10	+ .04	53.2	− 0.7	87	8	62	37	21	44	27	46	41	68	1.24	− 1.2	9	9,253	sw.	44	sw.	20	14	9	8	4.2	....	....
Toledo	628	208	243	29.42	30.10	+ .05	53.7	+ 1.1	86	8	64	33	20	44	23	46	41	69	2.46	+ 0.2	8	10,630	sw.	60	sw.	20	18	5	8	3.8	T.	....
Fort Wayne	856	113	124	29.17	30.10	....	53.0	− 0.7	86	8	64	31	22	42	36	46	41	71	1.66	....	10	6,773	sw.	46	sw.	20	15	4	12	4.4	0.2	....
Detroit	730	218	245	29.29	30.09	+ .05	52.9	+ 1.2	85	8	62	34	20	44	30	46	42	73	2.48	+ 0.1	12	9,068	sw.	54	sw.	20	14	7	10	4.7	T.	....
Upper Lake Region.							**47.6**	**+ 0.1**										**76**	**3.42**	**+ 0.0**										**5.9**		
Alpena	609	13	92	29.37	30.04	+0.01	46.0	+ 0.1	85	5	54	30	24	38	42	42	39	80	3.34	− 0.1	17	9,872	nw.	52	nw.	16	9	10	12	6.0	T.	....
Escanaba	612	54	60	29.35	30.02	+ .01	44.8	− 0.3	67	7	52	27	24	38	27	41	37	76	3.55	+ 0.5	12	8,801	s.	40	nw.	16	10	5	16	6.1	T.	....
Grand Haven	632	54	92	29.36	30.05	+ .02	49.2	+ 1.0	76	4	58	33	22	41	31	44	40	75	3.30	+ 0.8	14	9,611	s.	49	w.	25	13	9	9	4.6	....	....
Grand Rapids	707	70	87	29.29	30.07	+ .03	51.1	+ 1.0	83	5	60	33	18	42	33	44	40	71	3.73	+ 1.2	14	4,900	s.	32	w.	25	9	9	13	5.7	T.	....
Houghton	684	62	99	29.25	29.98	+ .02	44.6	− 0.5	83	4	52	26	24	38	34	....	....	....	2.82	− 0.4	16	7,741	e.	42	nw.	25	6	4	21	7.6	7.2	....
Lansing	878	11	62	29.12	30.07	....	49.7	+ 1.0	84	8	61	20	28	38	38	43	40	80	2.53	+ 0.3	12	4,800	sw.	30	nw.	16	13	7	11	5.0	0.3	....
Ludington	637	60	66	29.34	30.04	....	48.0	....	74	4	55	32	22	41	25	44	40	77	3.94	....	16	9,145	s.	44	w.	25	11	8	12	5.1	T.	....
Marquette	734	77	111	29.22	30.03	+ .02	45.6	− 0.1	80	4	53	27	24	38	31	40	36	77	4.89	+ 1.7	18	9,510	nw.	49	sw.	14	5	3	23	7.8	2.5	....
Port Huron	638	70	120	29.38	30.08	+ .04	49.9	+ 0.4	85	8	60	32	10	40	29	44	41	77	2.15	− 0.6	11	9,121	sw.	42	sw.	20	11	10	10	4.9	....	....
Saginaw	641	48	82	29.36	30.06	....	50.0	....	85	8	60	32	28	40	30	44	40	77	2.69	− 0.1	14	7,626	s.	39	nw.	16	9	7	15	5.8	T.	....
Sault Ste. Marie	614	11	61	29.32	30.03	+ .02	44.0	+ 0.6	79	4	51	28	17	37	33	41	38	85	5.49	+ 2.2	16	7,562	se.	37	nw.	13	5	4	22	7.9	5.9	....
Chicago	823	140	310	29.18	30.07	+ .03	54.4	+ 1.2	87	5	62	35	20	47	31	47	41	66	3.88	+ 1.3	11	10,208	sw.	41	w.	23	18	6	7	4.0	T.	....
Green Bay	617	109	144	29.35	30.02	.00	47.6	+ 0.5	80	4	56	27	17	40	29	42	38	76	4.73	+ 2.4	14	9,763	s.	52	nw.	16	10	6	15	6.6	0.3	....
Milwaukee	681	119	133	29.30	30.05	+ .02	50.1	− 0.1	83	7	58	31	23	43	31	44	40	76	3.78	+ 1.3	13	8,167	sw.	39	nw.	20	14	7	10	4.6	T.	....
Duluth	1,133	11	47	28.77	30.01	+ .01	42.0	− 3.2	71	14	50	19	17	34	28	37	33	78	1.13	− 1.6	10	9,612	w.	54	nw.	16	9	4	18	6.6	3.4	....
North Dakota.							**40.5**	**− 2.0**										**74**	**0.47**	**− 0.8**										**5.7**		
Moorhead	940	8	57	29.01	30.04	+0.04	42.0	− 0.8	73	3	53	16	24	31	41	37	34	82	0.41	+ 1.7	5	6,518	nw.	35	n.	16	16	5	10	4.6	T.	....
Bismarck	1,674	8	57	28.26	30.08	+ .09	41.8	− 2.3	75	6	54	13	20	30	44	35	29	70	0.18	− 0.8	5	7,259	nw.	42	nw.	16	12	7	12	5.4	0.2	....
Devils Lake	1,482	11	44	28.41	30.02	+ .03	38.4	− 2.1	73	6	48	6	20	28	39	33	29	77	0.67	− 0.6	7	8,233	sw.	42	ne.	2	7	8	16	6.5	3.5	....
Grand Forks	835	12	89	....	....	....	38.6	....	70	6	49	9	20	28	38	34	....	....	0.64	....	7	....	nw.	37	se.	16	12	11	8	....	1.8	....
Williston	1,872	41	48	28.02	30.04	+ .06	40.0	− 2.9	72	13	50	20	9	29	38	34	29	69	0.63	− 0.1	4	6,053	w.	36	nw.	16	7	9	15	6.2	0.6	....
Upper Mississippi Valley.							**53.2**	**+ 0.2**										**72**	**2.27**	**− 0.2**										**4.9**		
Minneapolis	918	10	208	29.01	30.00	....	46.9	....	79	3	55	22	21	38	30	....	....	....	1.60	− 1.0	7	9,569	s.	48	nw.	16	8	7	16	6.2	4.3	....
St. Paul	837	201	236	29.09	30.00	−0.01	46.4	− 1.7	79	3	55	22	21	38	31	....	....	....	1.26	− 1.1	8	10,161	nw.	52	nw.	16	8	15	8	5.2	3.5	....
La Crosse	714	11	48	29.24	30.03	+ .01	48.6	− 1.3	86	7	58	28	24	39	33	....	....	....	2.60	+ 0.2	9	4,316	s.	28	nw.	16	11	11	9	5.3	....	....
Madison	974	70	78	29.00	30.06	+ .03	49.2	+ 0.4	83	7	58	30	26	40	33	43	38	72	2.97	+ 0.6	13	7,886	s.	40	sw.	16	8	11	12	5.7	T.	....
Wausau	1,247	4	....	28.67	30.02	....	45.2	....	81	7	54	24	24	36	32	....	....	....	2.60	....	11	....	nw.	....	....	....	9	12	10	5.6	T.	....
Charles City	1,015	10	49	28.95	30.04	+ .02	47.8	− 0.4	86	7	58	18	21	37	34	41	38	78	2.08	0.0	12	5,863	s.	28	se.	3	11	10	10	5.4	3.0	....
Davenport	606	71	79	29.39	30.05	+ .01	53.8	− 1.2	86	7	64	29	21	44	33	46	41	71	3.52	+ 1.1	12	5,668	sw.	28	nw.	25	15	5	11	4.7	....	....
Des Moines	861	84	97	29.12	30.03	.00	53.2	+ 0.7	87	4	63	22	21	43	33	45	39	66	2.11	− 0.6	9	6,223	s.	30	sw.	12	15	4	12	5.0	1.3	....
Dubuque	698	81	96	29.32	30.08	+ .04	51.6	− 0.4	85	7	61	32	11	42	35	44	39	71	3.32	+ 0.6	13	5,113	s.	35	nw.	16	11	9	11	5.3	....	....
Keokuk	614	64	78	29.38	30.06	+ .01	55.2	+ 0.7	87	8	66	24	21	45	30	48	44	71	2.75	+ 0.3	8	5,622	s.	28	w.	20	15	6	10	4.3	2.0	....
Cairo	356	87	93	29.70	30.09	+ .02	60.6	+ 1.5	89	7	72	34	21	50	31	52	47	68	1.29	− 1.3	4	5,482	n.	36	sw.	20	17	9	5	3.4	....	....
Peoria	606	11	45	29.41	30.08	+ .03	54.2	+ 2.2	87	7	66	29	11	43	34	47	43	78	2.93	+ 0.4	7	4,935	s.	26	w.	20	14	7	10	4.5	0.3	....
Springfield, Ill.	644	10	91	29.39	30.07	+ .02	55.4	+ 0.8	87	8	65	31	20	45	32	48	43	72	1.97	− 0.6	10	5,952	s.	37	sw.	20	16	4	11	4.5	1.8	....
Hannibal	534	74	109	29.50	30.08	+ .03	55.8	− 0.1	88	8	67	24	21	44	37	....	....	....	1.59	0.0	9	6,479	sw.	30	w.	25	18	2	11	4.0	1.8	....
St. Louis	567	265	303	29.46	30.07	+ .01	59.2	+ 0.8	86	7	69	30	21	49	27	51	45	67	1.64	− 0.8	8	9,538	s.	44	w.	30	16	8	7	3.8	0.1	....
Missouri Valley.							**53.1**	**+4.1**										**66**	**1.52**	**−0.4**										**4.4**		
Columbia, Mo.	781	11	84	29.23	30.07	+0.02	58.0	+3.2	89	8	69	25	21	47	33	....	....	....	1.55	−0.9	7	5,684	se.	30	w.	20	14	6	11	4.6	T.	....
Kansas City	963	161	181	29.01	30.05	+ .01	57.4	+1.6	88	8	67	26	20	48	30	49	43	66	4.17	+2.0	11	8,828	s.	37	nw.	20	16	5	10	4.2	T.	....
St. Joseph	967	11	49	29.00	30.04	....	56.1	....	89	8	67	24	20	46	36	47	41	65	1.78	....	7	6,255	se.	38	nw.	20	16	6	9	4.3	T.	....
Springfield, Mo.	1,324	98	104	28.68	30.08	+ .03	59.4	+2.1	87	5	70	27	21	48	32	49	42	62	1.24	−1.6	6	8,194	se.	37	nw.	20	17	5	9	4.2	T.	....
Iola	984	11	50	28.99	30.04	.00	58.9	+2.0	89	8	71	26	21	47	38	....	....	....	1.67	−0.6	8	5,232	s.	25	s.	28	15	8	8	4.1	T.	....
Topeka	983	85	101	....	....	....	57.4	+1.1	90	8	68	25	20	47	35	....	....	....	3.14	+1.2	8	7,779	s.	37	s.	2	16	7	8	4.2	0.1	....
Drexel	1,299	10	53	28.64	30.04	....	52.0	....	91	3	64	18	20	40	36	43	38	69	1.17	....	3	8,533	ne.	39	s.	3	16	7	8	4.2	5.0	....
Lincoln	1,189	11	84	28.76	30.03	.00	54.2	+0.9	92	3	66	18	20	43	36	44	37	61	1.11	−0.7	4	8,912	s.	37	s.	3	15	10	6	4.0	3.1	....
Omaha	1,105	105	122	28.85	30.04	+ .01	53.8	−0.4	88	7	64	20	20	44	34	45	39	65	1.17	−1.2	6	6,944	s.	34	nw.	19	16	6	9	4.3	4.1	....
Valentine	2,598	47	54	27.32	30.07	+ .06	46.4	−2.1	81	6	59	11	20	33	44	38	32	68	0.65	−0.7	7	7,341	nw.	40	s.	17	11	13	7	5.0	3.6	....
Sioux City	1,135	94	164	28.81	30.04	+ .02	49.8	−1.3	89	3	61	17	20	39	38	42	37	68	1.52	−0.3	7	10,029	s.	43	nw.	30	16	5	10	4.6	5.0	....
Huron	1,306	59	74	28.65	30.07	+ .06	45.0	+0.3	82	3	58	14	20	32	41	37	33	73	0.49	−0.8	5	8,742	nw.	44	nw.	30	10	15	6	5.2	2.8	....
Pierre	1,572	70	75	28.38	30.07	+ .06	47.8	−1.3	82	17	60	20	20	36	48	39	33	65	0.67	−0.1	5	6,562	nw.	34	w.	26	13	13	5	4.9	....	....
Yankton	1,233	49	57	28.70	30.03	+ .02	49.3	−1.2	92	3	61	17	20	38	42	....	....	....	0.91	−0.7	7	6,214	w.	29	nw.	30	12	11	8	5.0	4.0	....

TABLE I.—*Climatological data for Weather Bureau Stations, October, 1916*—Continued.

ts 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 inch 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.							42.1	−2.6										68	1.76	+0.5										5.2		
Billings	3,140	5	....	....	....	....	41.8	....	77	17	54	7	19	29	44	....	....	....	1.72	....	....	....	....	....	....	....	14	8	9	....	....	....
Havre	2,505	11	44	27.39	30.06	+0.08	39.9	−3.7	74	13	51	4	5	28	40	36	31	75	1.01	+0.5	5	5,782	sw.	36	sw.	29	9	8	14	6.0	8.4	....
Helena	4,110	87	114	25.86	30.12	+ .09	41.2	−2.8	73	10	51	15	19	31	33	34	28	67	2.06	+1.2	7	5,976	sw.	38	sw.	30	10	10	11	5.4	20.5	....
Kalispell	2,962	11	34	27.00	30.11	+ .10	40.5	−2.0	67	16	53	19	19	28	36	34	29	69	0.62	−0.6	8	2,918	w.	23	n.	17	11	9	11	5.4	T.	....
Miles City	2,371	26	48	27.54	30.13	+ .13	45.0	−1.5	78	13	56	26	9	34	42	38	33	73	0.58	−0.2	10	4,174	se.	27	w.	31	13	12	6	4.4	1.7	....
Rapid City	3,259	50	58	26.65	30.12	+ .11	44.4	−2.2	81	17	56	20	20	32	45	36	28	58	0.52	−0.6	9	6,370	n.	37	n.	16	10	10	11	5.7	1.1	....
Cheyenne	6,088	84	101	24.03	30.05	+ .04	42.9	−2.4	73	6	54	12	19	32	42	35	29	65	1.95	+1.2	10	9,205	w.	53	w.	1	13	11	7	4.6	9.6	....
Lander	5,372	60	68	24.68	30.10	+ .06	40.4	−1.7	75	17	55	3	24	26	40	33	26	64	1.96	+0.9	8	3,364	sw.	34	sw.	30	12	9	10	5.4	17.4	....
Sheridan	3,790	10	47	26.16	30.13	.....	39.6	.....	74	13	53	7	24	27	46	33	29	73	2.85	.....	13	3,614	nw.	46	nw.	30	14	3	14	5.6	13.2	....
Yellowstone Park	6,200	11	48	23.91	30.13	+ .11	35.4	−6.1	65	16	46	7	19	25	32	29	24	79	3.47	+2.3	11	5,600	s.	46	nw.	17	10	8	13	5.8	21.8	....
North Platte	2,821	11	51	27.13	30.08	+ .06	49.4	−0.6	90	3	64	14	20	35	49	39	33	66	0.81	−0.3	5	6,511	w.	31	sw.	3	19	3	9	3.7	6.3	....
Middle Slope.							55.5	0.0										63	1.42	−0.1										4.0		
Denver	5,292	106	113	24.76	30.04	+0.03	48.2	−2.8	80	6	60	18	19	36	38	39	30	58	1.92	+1.0	9	5,751	se.	34	nw.	15	16	7	8	4.2	6.	....
Pueblo	4,685	80	86	25.32	30.01	+ .02	51.6	−0.7	83	2	66	20	20	37	52	40	31	56	0.71	0.0	4	4,409	nw.	43	w.	3	18	6	7	3.7	4.9	....
Concordia	1,392	50	58	28.56	30.04	+ .01	56.1	+0.7	91	4	68	21	20	44	37	46	40	64	1.06	−0.9	4	7,164	s.	32	s.	2	13	9	9	4.5	1.8	....
Dodge City	2,509	11	51	27.46	30.07	+ .05	56.2	+1.5	90	2	69	22	20	44	47	46	41	68	0.79	−0.6	6	8,699	s.	37	s.	1	19	7	5	3.4	0.	....
Wichita	1,358	139	158	28.58	30.02	− .01	58.8	0.0	88	4	69	26	20	49	33	50	43	65	2.32	0.0	7	10,330	s.	41	nw.	19	15	8	8	4.5	T	....
Altus	1,410	5	....	....	....	....	63.3	.....	91	5	76	29	20	51	26	....	....	....	4.20	.....	9	.....	nw.	....	....	....	....	....	....	....	....	....
Muskogee	652	4	....	....	....	....	63.2	.....	94	5	77	29	21	50	40	....	....	....	2.44	.....	8	.....	s.	....	....	....	18	2	11	....	....	....
Oklahoma	1,214	10	47	28.76	30.05	+ .02	62.4	+1.1	91	5	74	28	20	51	39	52	47	68	1.73	−0.1	5	9,842	s.	44	n.	19	19	5	7	3.7		
Southern Slope.							62.7	+0.3										64	2.24	+0.4										3.0		
Abilene	1,738	10	52	28.22	30.02	+0.01	65.8	+1.6	88	8	78	32	20	54	34	55	48	63	3.31	+1.0	3	7,377	s.	34	sw.	22	20	6	5	3.1	....	....
Amarillo	3,676	10	49	26.31	30.04	+ .04	57.2	+1.1	89	3	70	27	19	45	39	47	42	69	2.90	+1.2	7	8,091	s.	37	nw.	18	19	4	8	3.4	....	....
Del Rio	944	64	71	29.02	30.00	+ .02	70.2	+0.3	88	31	80	41	21	60	34	....	....	....	0.42	−1.6	3	6,980	e.	36	nw.	19	18	11	2	2.7	....	....
Roswell	3,566	75	85	26.40	30.00	+ .04	57.6	−1.9	88	2	72	31	20	43	43	47	39	60	2.31	+0.8	7	5,522	s.	32	nw.	28	20	5	6	3.0	....	....
Southern Plateau.							57.5	−2.3										52	1.06	+0.5										2.2		
El Paso	3,762	110	133	26.20	29.93	+0.01	64.7	+2.3	89	5	77	40	26	52	38	51	40	49	1.07	+0.1	7	8,166	e.	41	nw.	12	23	7	1	1.9	....	....
Santa Fe	7,013	57	66	23.29	29.97	+ .01	50.8	+0.8	71	3	60	30	25	41	28	40	32	57	2.76	+1.7	10	6,614	se.	36	se.	23	14	12	5	3.7	....	....
Flagstaff	6,908	8	57	29.36	29.95	+ .03	44.1	−0.6	69	31	57	21	30	32	47	....	....	....	3.61	.....	9	.....	w.	40	sw.	2	18	9	4	2.8	....	....
Phoenix	1,108	76	81	28.76	29.91	+ .03	66.2	−4.0	89	21	81	41	30	51	43	54	48	60	0.65	+0.3	2	3,304	e.	19	e.	25	24	5	2	2.0	....	....
Yuma	141	9	54	29.75	29.90	+ .03	68.5	−3.9	95	17	84	46	27	53	40	53	39	42	0.00	−0.2	0	3,782	w.	20	nw.	15	31	0	0	0.2	....	....
Independence	3,910	11	42	26.00	30.00	+ .05	50.9	−8.4	78	16	66	26	3	35	41	41	30	50	0.84	+0.5	5	3,777	nw.	24	nw.	2	20	4	7	2.6	....	....
Middle Plateau.							47.5	− 3.3										58	1.78	+ 1.0										3.2		
Reno	4,532	74	81	25.50	30.05	+0.06	46.9	− 2.8	76	21	61	24	24	33	44	37	27	53	1.13	+ 0.7	7	3,837	w.	36	w.	1	20	2	9	3.4	0.4	....
Tonopah	6,090	12	20	24.08	30.00	.....	46.0	.....	69	17	55	24	23	37	27	37	27	52	1.35	+ 0.5	6	5,687	w.	37	nw.	18	16	10	5	3.4	6.0	....
Winnemucca	4,344	18	56	25.66	30.08	+ .03	44.9	− 3.7	74	16	60	18	23	30	46	36	28	62	1.42	+ 0.9	8	4,447	ne.	27	sw.	1	21	4	6	2.8	0.5	....
Modena	5,479	10	43	24.62	29.99	+ .03	45.0	− 5.1	69	21	59	20	25	31	42	36	27	57	2.18	+ 1.4	7	7,904	sw.	42	s.	2	20	7	4	2.7	0.2	....
Salt Lake City	4,360	147	189	25.64	30.02	+ .01	49.8	− 2.4	72	17	60	31	24	40	30	42	34	60	2.45	+ 1.0	8	5,345	nw.	34	se.	6	20	3	8	3.3	T	....
Grand Junction	4,602	82	96	25.40	30.00	+ .01	51.0	− 2.3	75	6	63	29	19	39	34	43	36	62	2.12	+ 1.2	11	5,284	se.	38	sw.	18	18	7	6	3.4	....	....
Northern Plateau.							47.9	− 1.6										55	0.66	− 0.9										3.8		
Baker	3,471	48	53	26.51	30.13	+0.05	44.0	− 1.5	75	16	58	19	23	30	38	36	27	57	0.21	− 0.7	5	4,998	se.	22	n.	17	19	5	7	3.5	T.	....
Boise	2,739	78	86	27.22	30.10	+ .04	48.7	− 1.8	75	16	60	26	23	37	33	41	33	58	0.84	− 0.4	3	3,269	nw.	25	nw.	27	15	7	9	4.0	....	....
Lewiston	757	40	48	29.32	30.14	+ .07	48.9	− 2.9	77	13	64	25	23	34	42	....	....	....	0.27	− 0.9	3	1,546	w.	18	w.	31	18	6	7	3.6	....	....
Pocatello	4,477	60	68	25.50	30.05	+ .01	46.4	− 1.6	69	16	58	22	19	35	35	38	31	62	2.11	− 1.1	10	5,795	se.	35	sw.	18	12	10	9	5.0	0.4	....
Spokane	1,929	101	110	28.04	30.12	+ .06	47.0	− 0.3	75	16	60	25	22	34	39	38	27	50	0.17	− 1.3	2	3,924	sw.	32	sw.	21	13	13	5	4.0	....	....
Walla Walla	991	57	65	29.03	30.10	+ .03	52.4	− 1.3	80	16	64	32	8	41	31	43	32	48	0.38	− 1.1	3	3,067	s.	21	w.	30	21	4	6	3.0	....	....
North Pacific Coast Region.							50.0	− 1.7										78	1.81	− 2.2										5.1		
North Head	211	11	56	29.90	30.14	+0.09	50.0	− 2.9	65	10	54	43	18	46	19	48	46	87	1.77	− 2.1	7	8,328	n.	72	s.	29	13	5	13	5.5	....	....
Seattle	125	215	250	30.03	30.16	+ .11	49.1	− 1.7	69	9	56	34	4	42	28	46	42	78	1.18	− 1.7	9	5,661	n.	51	s.	29	9	9	13	6.0	....	....
Tacoma	213	113	120	29.93	30.16	+ .12	48.6	− 2.0	68	9	57	32	3	41	27	45	41	78	1.95	− 1.4	8	3,847	n.	28	sw.	30	9	11	11	6.0	....	....
Tatoosh Island	109	7	57	30.03	30.13	+ .12	48.3	− 1.6	64	7	52	41	29	44	16	46	44	88	4.30	− 3.7	12	8,946	ne.	76	s.	28	11	7	13	5.5	....	....
Medford	1,425	4	....	....	....	....	51.0	.....	84	16	69	25	4	33	48	....	....	....	0.28	.....	6	.....	e.	....	....	....	19	4	8	....	....	....
North Yakima	1,076	4	....	....	....	....	50.4	.....	78	16	66	24	23	35	42	....	....	....	0.05	.....	1	.....	nw.	....	....	....	23	5	3	....	....	....
Portland, Oreg	153	68	106	29.96	30.12	+ .06	53.2	− 0.1	73	10	63	34	4	43	29	47	41	67	1.26	− 2.4	4	4,123	nw.	30	ne.	8	11	12	8	5.0	....	....
Roseburg	510	9	57	29.56	30.12	+ .04	50.9	− 1.9	76	13	65	29	23	36	42	44	38	68	0.43	− 2.2	5	1,591	nw.	18	se.	30	19	10	2	2.7	....	....
Middle Pacific Coast Region.							55.1	− 3.6										71	1.01	− 0.6										4.7		
Eureka	62	73	89	30.01	30.08	+0.02	50.2	− 2.9	65	5	56	38	5	45	27	48	46	86	0.47	− 2.2	5	3,321	se.	30	n.	5	8	7	16	6.5	....	....
Mount Tamalpais	2,375	11	18	27.57	30.04	+ .03	53.4	− 5.3	70	26	59	38	4	48	20	46	39	63	0.85	− 1.1	9	10,566	nw.	57	nw.	2	20	4	7	3.0	....	....
Point Reyes Light	490	7	18	29.49	30.01	.....	52.1	− 2.6	66	25	56	45	4	49	20	....	....	....	0.33	.....	5	12,030	nw.	56	nw.	27	7	5	19	7.0	....	....
Red Bluff	332	50	56	29.65	30.01	− .02	59.4	− 4.4	83	13	71	38	29	48	36	50	41	57	2.60	+ 1.0	5	2,859	se.	18	s.	1	22	5	4	2.3	....	....
Sacramento	69	106	117	29.95	30.02	+ .03	58.2	− 4.0	79	16	70	37	29	46	34	51	45	68	0.79	− 0.2	5	4,499	s.	27	sw.	1	20	8	3	3.1	....	....
San Francisco	155	209	213	29.87	30.04	+ .03	56.9	− 1.5	77	25	63	46	29	51	26	52	49	82	0.52	− 0.8	7	5,101	sw.	25	sw.	13	7	11	13	5.9	....	....
San Jose	141	12	110	29.90	30.05	.....	55.8	− 4.5	78	25	65	35	29	46	40	....	....	....	0.84	− 0.1	8	3,264	nw.	24	nw.	29	10	9	12	5.3	....	....
South Pacific Coast Region.							59.0	− 3.2										76	1.64	+ 0.8										4.1		
Fresno	327	89	98	29.66	30.02	+0.06	59.8	− 4.9	80	21	71	39	29	48	33	52	47	67	1.16	+ 0.4	6	3,411	nw.	19	nw.	28	18	7	6	3.0	....	....
Los Angeles	338	159	191	29.64	30.01	+ .06	59.7	− 2.6	90	25	67	44	31	52	32	53	49	78	2.71	+ 1.9	6	3,744	sw.	27	s.	2	9	14	8	5.0	....	....
San Diego	87	62	70	29.90	29.99	+ .04	59.3	− 3.7	78	26	65	46	31	54	25	55	53	83	0.87	+ 0.4	6	4,286	nw.	26	s.	6	17	10	4	3.7	....	....
San Luis Obispo	201	32	40	29.83	30.05	+ .06	57.4	− 1.8	88	25	66	40	5	48	36	51	47	78	1.82	+ 0.5	6	2,863	nw.	24	ne.	31	14	8	9	4.6	....	....
West Indies.																																	
San Juan, P. R.	82	8	54	29.79	29.87	−0.03	79.2	.....	90	28	84	71	21	74	16	....	....	....	9.62	+ 3.5	24	6,934	se.	52	n.	9	5	14	12	6.2	....	....
Panama Canal.																																	
Balboa Heights	118	7	97	29.74	29.86	.....	78.0	.....	86	18	83	71	22	73	13	74	73	91	10.17	− 0.3	23	6,283	s.	33	s.	10	0	2	29	8.7	....	....
Colon	25	5	71	29.82	29.85	.....	80.3	.....	89	3	86	73	21	74	15	75	74	89	17.59	+ 2.8	23	5,831	se.	33	w.	10	3	6	22	7.8	....	....

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 October, 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	15	7:00 a. m.	10:30 a. m.	1.09	7:28 a. m.	7:51 a. m.	0.01	0.11	0.22	0.44	0.58	0.67									
Albany, N. Y	19			1.01														0.40			
Alpena, Mich	12			0.59														0.37			
Amarillo, Tex	12			0.82														0.44			
Anniston, Ala	17			0.60														0.52			
Asheville, N. C	16			1.08														0.35			
Atlanta, Ga	29			1.11														0.39			
Atlantic City, N. J	19			0.92														0.29			
Augusta, Ga	18			0.74														0.30			
Baker, Oreg	7			0.08														0.05			
Baltimore, Md	19			1.29														0.32			
Bentonville, Ark	15			0.97														0.24			
Binghamton, N. Y	20	5:43 p. m.	8:30 p. m.	0.71	6:48 p. m.	7:08 p. m.	0.02	0.28	0.30	0.49	0.57										
Birmingham, Ala	18			0.73														0.25			
Bismarck, N. Dak	3			0.11														0.10			
Block Island, R. I	19			1.11														0.31			
Boise, Idaho	1			0.37														0.25			
Boston, Mass	19			0.56														0.17			
Buffalo, N. Y	19			1.14														0.24			
Burlington, Vt	20			0.30														0.20			
Cairo, Ill	18			0.88														0.35			
Canton, N. Y	20			0.59														0.41			
Charles City, Iowa	12			0.31														0.29			
Charleston, S. C	19	D. N. a. m	9:50 a. m.	1.31	7:46 a. m.	8:46 a. m.	0.16	0.09	0.21	0.32	0.40	0.49	0.59	0.63	0.70	0.80	0.95	1.13			
Charlotte, N. C	9	5:15 p. m.	6:20 p. m.	1.24	5:19 p. m.	5:49 p. m.	0.02	0.33	0.64	0.80	0.84	1.00	1.17								
Chattanooga, Tenn	19			0.55														0.50			
Cheyenne, Wyo	22-23			0.82														*			
Chicago, Ill	20			1.65														0.48			
Cincinnati, Ohio	18-19			0.93														0.39			
Cleveland, Ohio	19			0.99														0.37			
Columbia, Mo	24			0.33														0.22			
Columbia, S. C	18			0.77														0.28			
Columbus, Ohio	20			0.62														0.56			
Concord, N. H	19-20			1.20														*			
Concordia, Kans	24			0.49														*			
Corpus Christi, Tex	10			0.01														0.01			
Dallas, Tex	13	12:57 p. m.	3:25 p. m.	2.01	1:59 p. m.	2:57 p. m.	0.06	0.19	0.25	0.33	0.41	0.61	0.82	1.11	1.36	1.66	1.81	1.93			
Do	13	3:59 p. m.	5:05 p. m.	0.69	4:14 p. m.	4:44 p. m.	0.03	0.14	0.30	0.37	0.43	0.55	0.64								
Davenport, Iowa	12			0.61														0.30			
Dayton, Ohio	19			0.43														0.27			
Del Rio, Tex	10			0.32														0.21			
Denver, Colo	14-15			1.24														*			
Des Moines, Iowa	28			0.76														0.16			
Detroit, Mich	19			0.90														0.26			
Devils Lake, N. Dak	16			0.13														0.06			
Dodge City, Kans	24			0.42														0.16			
Dubuque, Iowa	24			1.00														0.21			
Duluth, Minn	19			0.40														*			
Eastport, Me	20			1.20														0.49			
Elkins, W. Va	9			0.78														0.33			
El Paso, Tex	12			0.33														0.28			
Erie, Pa	20			0.26														0.23			
Escanaba, Mich	31			0.59														0.25			
Eureka, Cal	31			0.21														0.11			
Evansville, Ind	18			0.87														0.17			
Flagstaff, Ariz	5-6			1.29														*			
Fort Smith, Ark	16			0.30														0.22			
Fort Wayne, Ind	18			0.33														0.15			
Fort Worth, Tex	15			0.60														0.56			
Fresno, Cal	4			0.45														0.16			
Galveston, Tex	17			0.99														*			
Grand Haven, Mich	20			0.87														0.31			
Grand Junction, Colo	7			0.51														0.21			
Grand Rapids, Mich	20			1.11														0.41			
Green Bay, Wis	31			0.51														0.25			
Hannibal, Mo	24			0.89														0.25			
Harrisburg, Pa	19			1.21														0.34			
Hartford, Conn	19			0.88														0.22			
Hatteras, N. C	20			1.95														0.45			
Havre, Mont	2-3			0.80														*			
Helena, Mont	2-3			0.76														*			
Houghton, Mich	16			0.81														*			
Houston, Tex	10	3:45 p. m.	8:15 p. m.	0.90	4:02 p. m.	4:23 p. m.	0.06	0.08	0.23	0.42	0.58	0.63									
Huron, S. Dak	18-19			0.26														*			
Independence, Cal	6			0.40														0.16			
Indianapolis, Ind	20			0.54														0.38			
Iola, Kans	19			0.35														0.20			
Jacksonville, Fla	6			2.73														0.66			
Kalispell, Mont	27			0.21														*			
Kansas City, Mo	24	D.N. a. m.	11:05 a. m.	2.22	7:27 a. m.	8:16 a. m.	0.58	0.06	0.11	0.20	0.26	0.32	0.47	0.57	0.60	0.67	0.75				
Keokuk, Iowa	23-24			1.34														*			
Key West, Fla	1	10:35 a. m.	12:35 p. m.	1.25	11:37 a. m.	12:11 p. m.	0.11	0.08	0.13	0.28	0.52	0.86	1.08	1.14							
Knoxville, Tenn	20			0.19														0.19			
La Crosse, Wis	12			0.62														0.36			
Lander, Wyo	22-23			0.76														*			
Lansing, Mich	19			0.72														0.18			
Lewiston, Idaho	27			0.19														0.06			
Lexington, Ky	20			0.45														0.36			
Lincoln, Nebr	19			0.50														*			
	23-24			0.50														*			
Little Rock, Ark	18			2.53														0.29			
Los Angeles, Cal	5-6			0.83														0.29			
Louisville, Ky	20			0.38														0.31			
Ludington, Mich	12			0.70														0.22			
Lynchburg, Va	19			1.06														0.24			
Macon, Ga	18			0.77														0.35			
Madison, Wis	20			1.02														0.15			
Marquette, Mich	12			0.61														0.23			

* Self-register not in use. † Partly estimated. ‡ No precipitation occurred during month.

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 October, 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	19			0.31														0.28			
Meridian, Miss	9			0.33														0.20			
Miami, Fla	5	D. N. a. m.	9:38 a. m.	1.42	8:11 a. m.	9:00 a. m.	0.35	0.18	0.23	0.33	0.39	0.43	0.53	0.67	0.81	0.94	1.06				
	24	9:00 p. m.	9:45 p. m.	0.62	9:00 p. m.	9:13 p. m.	0.00	0.24	0.53	0.61											
Milwaukee, Wis	20			1.74														*			
Minneapolis, Minn	12			0.25														0.24			
Mobile, Ala	17-18	D. N. a. m.	D. N. a. m.	2.00	3:42 a. m.	4:12 a. m.	0.04	0.21	0.45	0.76	1.03	1.21	1.27								
Modena, Utah	[1]30-1			0.88														0.30			
Montgomery, Ala	18			1.61														0.67			
Moorhead, Minn	7			0.24														0.08			
Mount Tamalpais, Cal	4			0.19														0.19			
Nantucket, Mass	19			0.50														0.19			
Nashville, Tenn	18			1.81														0.25			
New Haven, Conn	19			1.66														0.45			
New Orleans, La	8	1:35 p. m.	4:00 p. m.	1.85	1:50 p. m.	2:09 p. m.	0.07	0.18	0.49	0.83	1.12										
	16	11:55 a. m.	[2]6:45 a. m.	5.67	8:24 p. m.	8:54 p. m.	1.04	0.24	0.54	0.66	0.84	0.98	1.03								
New York, N. Y	19			0.44														0.17			
Norfolk, Va	9-10	9:45 p. m.	D. N. a. m.	0.64	10:20 p. m.	10:39 p. m.	0.14	0.15	0.32	0.37	0.43										
Northfield, Vt	20-21			0.58														0.25			
North Head, Wash	29			0.48														0.91			
North Platte, Nebr	23-24			0.47														*			
Oklahoma, Okla	15			0.75														0.41			
Omaha, Nebr	19			0.50														*			
Oswego, N. Y	20	5:57 p. m.	8:15 p. m.	0.71	6:08 p. m.	6:28 p. m.	0.01	0.10	0.28	0.48	0.51										
Palestine, Tex	18			0.38														0.17			
Parkersburg, W. Va	19			1.03														0.25			
Pensacola, Fla	18			1.19														*			
Peoria, Ill	20			1.15														0.22			
Philadelphia, Pa	19			1.00														0.22			
Phoenix, Ariz	5			0.60														0.22			
Pierre, S. Dak	7			0.22														0.17			
Pittsburgh, Pa	19			1.56														0.38			
Pocatello, Idaho	11			0.80														0.19			
Point Reyes Light, Cal	3			0.10														0.08			
Port Huron, Mich	13			0.52														0.18			
Portland, Me	19			0.87														0.41			
Portland, Oreg	27			0.43														0.19			
Providence, R. I	19-20			1.88														0.56			
Pueblo, Colo	15			0.02														0.01			
Raleigh, N. C	19			0.95														0.51			
Rapid City, S. Dak	21			0.11														0.09			
Reading, Pa	19			0.90														0.21			
Red Bluff, Cal	3			0.70														0.39			
Reno, Nev	6			0.40														*			
Richmond, Va	19			0.95														0.25			
Rochester, N. Y	20			0.22														0.21			
Roseburg, Oreg	30			0.18														0.10			
Roswell, N. Mex	12	2:57 p. m.	5:25 p. m.	0.74	3:22 p. m.	3:41 p. m.	0.03	0.12	0.39	0.59	0.62										
Sacramento, Cal	6			0.36														0.18			
Saginaw, Mich	19			0.86														0.28			
St. Joseph, Mo	24			0.87														0.29			
St. Louis, Mo	30	6:44 p. m.	8:10 p. m.	0.68	6:44 p. m.	6:58 p. m.	0.00	0.42	0.55	0.60											
St. Paul, Minn	12			0.26														0.21			
Salt Lake City, Utah	2			0.81														0.34			
San Antonio, Tex	16			2.13														0.50			
San Diego, Cal	23			0.18														0.18			
Sand Key, Fla	6	10:50 a. m.	11:25 a. m.	0.37	11:05 a. m.	11:18 a. m.	0.01	0.07	0.27	0.35											
Sandusky, Ohio	19			0.42														0.17			
San Francisco, Cal	4			0.09														0.08			
San Jose, Cal	4			0.41														0.24			
San Luis Obispo, Cal	9			0.57														0.17			
Santa Fe, N. Mex	14			0.55														0.23			
Sault Ste. Marie, Mich	25-26			1.30														*			
Savannah, Ga	18			1.27														0.62			
Scranton, Pa	20			0.48														0.47			
Seattle, Wash	28-29			0.45														0.11			
Sheridan, Wyo	21-22			1.12														*			
Shreveport, La	17-18			2.16														0.40			
Sioux City, Iowa	19			0.72														*			
Spokane, Wash	29			0.15														0.06			
Springfield, Ill	19-20			0.70														*			
Springfield, Mo	15			0.70														0.42			
Syracuse, N. Y	20			0.56														0.50			
Tacoma, Wash	29			0.69														0.21			
Tampa, Fla	6			0.34														0.29			
Tatoosh Island, Wash	28			1.49														0.29			
Taylor, Tex	16			0.77														0.45			
Terre Haute, Ind	20			0.60														0.44			
Thomasville, Ga	18	8:20 a. m.	4:32 p. m.	4.22	12:26 p. m.	1:16 p. m.	0.55	0.07	0.14	0.20	0.28	0.33	0.38	0.43	0.49	0.64	0.78				
					1:16 p. m.	2:06 p. m.		0.86	0.91	0.95	0.97	1.07	1.16	1.27	1.41	1.62	1.77				
					2:06 p. m.	2:50 p. m.		1.89	2.13	2.34	2.52	2.60	2.76	2.83	2.88	2.93					
					3:43 p. m.	4:09 p. m.	3.60	0.13	0.24	0.26	0.43	0.56	0.59								
Toledo, Ohio	20			0.81														0.48			
Tonopah, Nev	2			0.98														*			
Topeka, Kans	24			1.65														0.34			
Valentine, Nebr	18-19			0.30														*			
Vicksburg, Miss	18			0.95														0.25			
Walla Walla, Wash	27			0.34														0.11			
Washington, D. C	19			1.24														0.33			
Wichita, Kans	15-16	8:40 p. m.	D. N. a. m.	1.16	8:48 p. m.	9:11 p. m.	0.01	0.09	0.27	0.67	1.02	1.12									
Williston, N. Dak	3			0.50														*			
Wilmington, N. C	19	9:40 a. m.	2:20 p. m.	1.74	11:20 a. m.	Noon	0.12	0.16	0.25	0.32	0.50	0.71	0.85	1.08	1.23						
Winnemucca, Nev	6			0.19														0.11			
Wytheville, Va	16			0.54														0.28			
Yankton, S. Dak	18-19			0.48														*			
Yellowstone Park, Wyo	17-18			0.93														*			

[1] Sept. 30. [2] Oct. 18. * Self-register not in use. † Record partly estimated. ‡ No precipitation occurred during month.

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

Stations.	Altitude above M. S. L.* Jan. 1, 1916.	Pressure in inches.			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	29.81	29.95	+0.04	46.5	+1.1	52.9	40.1	70	28	4.14	−1.21	.....
Sydney, C. B. I.	48	30.03	*30.07*	+ *.11*	50.2	+3.7	59.0	41.3	79	30	4.16	−0.53	.....
Halifax, N. S.	88	29.98	*30.09*	+ *.09*	49.9	+2.7	59.6	40.3	78	25	4.72	−0.83	.....
Yarmouth, N. S.	65	30.02	30.09	+ .07	48.3	+0.7	56.5	40.0	67	27	3.18	−1.52	.....
Charlottetown, P. E. I.	38	30.01	30.05	+ .09	48.6	+2.1	55.7	41.5	73	30	3.55	−1.35	.....
Chatham, N. B.	28	30.03	*30.05*	+ *.09*	46.2	+3.2	56.0	36.4	82	26	4.07	+0.21	.....
Father Point, Que.	20	30.01	30.03	+ .08	40.6	+0.8	46.9	34.2	63	23	3.23	+0.33	7.6
Quebec, Que.	296	29.75	30.08	+ .08	43.5	+1.1	50.9	36.1	71	25	5.57	+2.42	1.0
Montreal, Que.	187	29.86	30.07	+ .06	47.1	+2.3	54.9	39.3	74	28	3.84	+0.71	0.2
Stonecliffe, Ont.	489	29.44	*30.06*	+ *.05*	43.2	+0.4	52.9	33.6	83	27	2.85	+0.42	2.2
Ottawa, Ont.	236	29.81	*30.03*	+ *.07*	45.9	+2.1	55.8	35.9	78	26	2.88	+0.33	T.
Kingston, Ont.	285	29.78	30.09	+ .06	50.5	+3.5	58.8	42.1	75	28	2.67	−0.06	.....
Toronto, Ont.	379	29.67	*30.05*	+ *.01*	49.5	+2.9	59.6	39.5	85	30	3.91	+1.55	.....
White River, Ont.	1,244	28.64	*29.98*	*.00*	34.9	−2.2	44.3	25.6	72	11	1.33	−1.02	12.0
Port Stanley, Ont.	592	29.46	30.10	+ .05	47.8	0.0	57.8	37.9	69	27	3.81	+0.83	.....
Southampton, Ont.	656	29.34	.....	.....	48.1	+2.0	57.4	38.9	80	30	4.09	+0.92	.....
Parry Sound, Ont.	688	29.35	30.05	+ .04	46.1	+2.2	54.9	37.4	76	27	5.73	+1.81	0.4
Port Arthur, Ont.	644	29.27	29.98	.00	41.5	+1.6	49.0	34.0	69	20	2.40	−0.16	3.3
Winnipeg, Man.	760	29.17	30.02	+ .04	37.1	−2.0	45.1	29.2	65	14	2.32	+0.62	9.7
Minnedosa, Man.	1,690	28.16	30.02	+ .05	35.3	−2.5	43.5	27.2	64	4	3.00	+1.80	15.4
Qu'Appelle, Sask.	2,115	27.68	29.97	.00	35.6	−3.8	44.1	27.0	72	12	2.78	+1.68	25.5
Medicine Hat, Alberta	2,144	27.68	*29.98*	+ *.01*	43.0	−1.8	53.7	32.3	78	21	0.57	−0.01	5.4
Swift Current, Sask.	2,392	27.38	*29.99*	+ *.02*	38.6	−3.5	49.5	27.7	75	12	1.11	+0.23	8.7
Calgary, Alberta	3,428	26.43	*30.00*	+ *.05*	41.5	+1.4	53.3	29.7	74	18	1.20	+0.72	11.4
Banff, Alberta	4,521	25.40	*30.02*	+ *.07*	37.8	−1.5	47.0	28.5	64	14	1.24	+0.22	6.9
Edmonton, Alberta	2,150	27.63	*29.93*	*.00*	41.0	−0.1	51.1	31.0	72	20	0.34	−0.36	0.9
Prince Albert, Sask.	1,450	28.38	*29.96*	− *.01*	35.9	−1.2	45.2	26.5	64	11	1.88	+1.05	4.2
Battleford, Sask.	1,592	28.19	*29.95*	− *.02*	40.1	+0.5	50.5	29.6	71	21	0.71	+0.26	2.7
Kamloops, B. C.	1,262	28.85	30.17	+ .21	45.3	−1.7	56.1	34.4	72	24	0.06	−0.55	T.
Victoria, B. C.	230	29.88	30.14	+ .13	49.2	0.0	55.4	43.0	67	38	1.56	−0.81	.....
Barkerville, B. C.	4,180	25.75	30.11	+ .17	35.2	−4.5	43.2	27.2	46	4	1.00	−1.70	2.2
Hamilton, Bermuda	151	29.95	30.11	+ .09	74.1	+1.1	78.8	69.4	82	64	3.08	−3.63	.....

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