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., seventy-fifth meridian time, daily, 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 such cases *the record is broken at the end of each 50 minutes*, the accumulated amounts being recorded on successive lines until the excessive rate ends.

At stations 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.

Table III gives, for about 30 stations of the Canadian Meterological 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., seventy-fifth meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading and (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 31 years (1873 to 1903) and are published in Weather Bureau Bulletin "R," Washington, 1908. 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. observations, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in the Annual Report of the Chief of the Weather Bureau, 1900–1901, volume 2, Table 27, pages 140–164.

The isotherms on the 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.

TABLE I.—*Climatological data for United States Weather Bureau stations, October, 1914.*

Districts and stations.	Elevation of instruments.			Pressure in inches.			Temperature of the air, in degrees Fahrenheit.												Precipitation, inches.			Wind.										
	Barometer above sea level, feet.	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, per cent.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
New England.							**53.1**	**+ 2.7**										**76**	**2.46**	**− 1.2**										**5.5**		
Eastport	76	67	85	29.97	30.05	+0.05	49.2	+ 2.6	76	3	56	24	28	42	28	45	41	75	2.56	− 1.3	9	7,891	sw.	41	ne.	19	11	10	10	5.7	T.	....
Greenville	1,070	6	....	28.84	30.04	.....	46.6	.....	76	4	57	16	28	36	42	....	....	....	3.07	.....	10	....	....	....	....	....	....	....	....	....	1.5	....
Portland, Me.	103	82	117	29.96	30.09	+ .05	51.2	+ 2.1	81	5	60	22	28	42	38	46	41	71	2.05	− 1.6	5	6,660	sw.	30	sw.	24	14	8	9	4.9	T.	....
Concord	288	70	79	29.79	30.10	+ .05	51.2	+ 2.5	81	4	63	21	28	39	40	....	....	....	1.12	− 2.1	6	3,288	nw.	28	nw.	27	8	9	14	6.0	....	....
Burlington	404	11	48	29.64	30.08	+ .04	50.2	+ 3.3	76	5	59	22	27	41	35	....	....	....	1.10	− 2.1	8	8,163	s.	36	s.	10	8	8	15	6.3	0.6	....
Northfield	876	12	60	29.14	30.10	+ .06	47.9	+ 4.3	77	4	60	17	28	36	44	43	41	84	1.00	− 1.5	7	4,713	s.	25	nw.	31	7	8	16	6.5	0.1	....
Boston	125	115	188	29.95	30.09	+ .04	57.0	+ 4.7	83	3	66	29	28	49	31	51	47	75	1.54	− 2.3	5	6,766	sw.	28	nw.	27	15	7	9	4.7	T.	....
Nantucket	12	14	90	30.08	30.09	+ .04	56.2	+ 1.7	74	4	62	33	28	50	24	52	50	84	2.15	− 1.2	7	10,787	sw.	43	sw.	29	7	16	8	5.5	....	....
Block Island	26	11	46	30.06	30.09	+ .04	56.4	+ 1.1	70	5	62	34	27	51	18	53	50	81	3.33	− 0.8	5	11,989	sw.	53	nw.	30	7	10	14	6.2	....	....
Narragansett Pier	....	9	....	....	....	.....	55.2	+ 3.1	75	3	63	24	28	48	27	....	....	....	4.26	.....	4	....	sw.	....	....	....	16	11	4	....	....	....
Providence	160	215	251	29.92	30.09	+ .02	55.6	+ 3.4	79	3	64	27	28	47	30	50	46	74	2.97	− 0.9	5	7,737	sw.	44	nw.	27	12	15	4	4.3	....	....
Hartford	159	122	140	29.91	30.09	+ .03	56.4	+ 5.2	82	3	66	26	28	47	41	49	44	71	3.05	− 0.8	5	4,725	s.	27	nw.	30	9	11	11	5.5	T.	....
New Haven	106	117	155	29.98	30.10	+ .04	57.0	+ 4.2	79	11	66	28	28	49	30	51	46	72	3.81	− 0.1	5	5,892	s.	30	sw.	29	11	10	10	5.2	T.	....
Middle Atlantic States.							**58.8**	**+ 3.4**										**77**	**1.91**	**− 1.2**										**5.4**		
Albany	97	102	115	29.98	30.09	+ .03	54.6	+ 4.2	82	11	64	30	28	45	36	48	44	74	0.84	− 2.2	5	5,039	s.	28	s.	10	13	9	9	4.7	T.	....
Binghamton	871	10	69	29.16	30.10	+ .04	54.0	+ 4.8	82	10	63	28	27	44	38	....	....	....	1.47	− 1.6	11	3,136	s.	18	nw.	27	7	12	12	5.9	T.	....
New York	314	414	454	29.76	30.09	+ .03	59.0	+ 3.4	80	11	66	31	28	52	23	52	47	70	1.92	− 1.8	4	10,814	sw.	52	nw.	27	8	11	12	5.6	....	....
Harrisburg	374	94	104	29.71	30.12	+ .04	58.2	+ 4.2	81	10	66	32	27	50	27	52	48	74	1.36	− 1.6	8	3,896	e.	25	n.	26	10	8	13	5.6	....	....
Philadelphia	117	123	190	29.99	30.12	+ .05	61.2	+ 4.9	85	10	68	33	28	54	22	54	51	75	1.49	− 1.6	4	6,243	sw.	33	nw.	27	11	8	12	5.3	....	....
Reading	325	81	98	29.76	30.11	.....	58.6	.....	82	10	67	31	27	50	31	51	47	72	1.40	− 1.9	6	4,082	se.	29	nw.	27	8	7	16	6.3	T.	....
Scranton	805	111	119	29.24	30.11	+ .04	55.8	+ 4.4	82	10	64	29	27	48	36	51	49	85	1.05	− 1.9	5	4,428	n.	26	nw.	26	7	15	9	5.7	T.	....
Atlantic City	52	37	48	30.05	30.11	+ .04	59.8	+ 2.4	75	11	65	32	28	54	21	55	51	77	2.25	− 1.0	6	5,534	sw.	23	nw.	27	12	5	14	5.6	....	....
Cape May	18	13	49	30.11	30.13	+ .06	61.5	+ 1.9	82	11	68	37	27	56	21	....	....	....	2.15	− 1.2	6	6,293	e.	34	nw.	27	10	14	7	5.2	....	....
Trenton	190	159	183	29.89	30.09	.....	59.0	.....	84	10	68	31	28	50	31	52	48	75	1.74	− 1.7	3	7,120	s.	36	nw.	30	10	9	12	5.7	T.	....
Baltimore	123	100	113	29.98	30.11	+ .03	61.4	+ 3.9	85	10	69	33	28	54	23	55	51	73	1.24	− 1.8	3	4,728	sw.	30	n.	26	11	10	10	5.2	....	....
Washington	112	62	85	29.98	30.10	+ .02	60.2	+ 3.6	86	10	69	33	28	51	33	54	51	78	1.65	− 1.4	7	3,802	s.	27	nw.	30	13	6	12	5.4	....	....
Lynchburg	681	153	188	29.35	30.10	+ .01	60.9	+ 4.0	85	9	71	29	28	51	33	53	50	78	4.42	+ 1.0	10	4,082	ne.	30	n.	27	10	12	9	5.4	....	....
Mount Weather	1,725	10	75	28.26	30.08	− .01	55.9	+ 4.4	77	10	62	26	27	49	23	50	47	77	2.40	0.0	11	9,940	e.	52	nw.	26	7	11	13	6.6	....	....
Norfolk	91	170	205	30.01	30.11	+ .04	63.9	+ 2.6	84	9	70	37	28	58	25	58	55	80	2.39	− 1.5	9	8,880	ne.	42	n.	27	11	11	9	5.5	....	....
Richmond	144	11	52	29.96	30.11	+ .03	61.8	+ 2.0	85	9	71	29	28	52	32	55	51	76	1.67	− 1.6	8	5,000	ne.	30	nw.	27	14	9	8	4.5	....	....
Wytheville	2,293	40	47	27.73	30.11	+ .02	55.4	+ 1.8	81	9	65	24	28	46	35	50	48	87	3.04	− 0.1	16	2,605	e.	19	nw.	30	16	8	7	4.4	....	....
South Atlantic States.							**65.4**	**+ 1.7**										**81**	**3.84**	**− 0.1**										**5.5**		
Asheville	2,255	70	84	27.76	30.11	+ .02	57.8	+ 2.5	81	7	67	23	28	48	39	52	49	82	5.83	+ 2.0	9	5,060	se.	29	e.	3	8	10	13	6.0	....	....
Charlotte	773	68	76	29.26	30.10	+ .02	62.2	+ 1.1	81	7	70	30	28	54	25	56	53	80	3.11	0.0	6	4,547	ne.	22	sw.	17	10	6	15	6.0	....	....
Hatteras	11	12	50	30.07	30.08	+ .02	67.0	+ 1.0	79	11	72	44	28	62	22	62	60	82	5.78	− 0.2	8	8,939	ne.	47	n.	27	11	8	12	5.3	....	....
Manteo	12	4	46	....	....	.....	65.0	.....	83	11	72	33	29	58	....	....	....	....	2.20	− 3.8	7	....	ne.	....	....	....	17	6	8	....	....	....
Raleigh	376	103	110	29.69	30.09	+ .02	63.2	+ 2.7	84	9	71	32	28	55	28	57	53	77	1.17	− 2.3	9	4,752	ne.	28	nw.	26	12	6	13	5.6	....	....
Wilmington	78	81	91	30.00	30.08	+ .02	65.8	+ 2.5	86	11	74	34	28	58	27	60	58	82	4.84	+ 1.1	11	4,745	ne.	30	n.	27	11	8	12	5.6	....	....
Charleston	48	11	92	30.01	30.06	.00	68.4	+ 1.3	84	11	74	40	28	62	22	63	61	82	4.14	+ 0.2	11	6,735	ne.	36	e.	3	13	5	13	5.3	....	....
Columbia, S. C.	351	41	57	29.70	30.08	+ .01	64.4	+ 0.4	86	11	73	34	28	56	33	58	54	76	2.70	− 0.2	8	4,648	ne.	26	n.	27	14	6	11	4.9	....	....
Augusta	180	89	97	29.88	30.07	.00	65.0	+ 1.4	86	11	74	34	29	56	34	59	57	84	2.89	+ 0.6	9	3,849	ne.	27	nw.	27	12	7	12	5.4	....	....
Savannah	65	150	194	29.98	30.05	.00	68.8	+ 2.5	88	11	76	40	28	62	22	63	61	84	7.28	+ 3.7	9	7,246	ne.	31	ne.	2	11	8	12	5.6	....	....
Jacksonville	43	96	129	29.98	30.03	+ .01	71.5	+ 1.9	86	11	79	46	28	64	21	66	64	85	2.34	− 2.7	8	5,771	ne.	37	sw.	15	12	6	13	5.7	....	....
Florida Peninsula.							**74.7**	**− 1.2**										**79**	**7.80**	**+ 2.8**										**5.7**		
Key West	22	10	64	29.92	29.94	.00	78.3	− 0.4	88	16	83	70	3	74	17	73	70	79	9.20	+ 3.8	12	6,946	ne.	49	w.	3	11	9	11	5.3	....	....
Miami	25	71	79	29.94	29.97	.....	76.0	− 1.8	85	16	81	64	28	71	15	71	69	79	6.92	− 3.6	20	5,962	e.	38	sw.	1	4	13	14	6.9	....	....
Sand Key	23	39	72	29.90	29.93	− .01	78.3	.....	85	16	81	70	17	76	12	73	71	77	10.64	.....	15	10,297	e.	52	w.	3	12	10	9	4.9	....	....
Tampa	35	79	96	29.95	29.99	+ .01	74.2	+ 1.6	88	10	82	52	28	66	24	67	65	81	4.45	+ 1.5	11	4,794	ne.	27	ne.	22	8	13	10	5.6	....	....
Titusville	44	6	....	....	....	.....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
East Gulf States.							**65.8**	**+ 0.2**										**80**	**2.54**	**− 0.2**										**5.1**		
Atlanta	1,174	190	216	28.85	30.09	+ .02	62.4	0.0	80	9	70	35	28	55	24	56	53	77	6.14	+ 3.8	9	6,703	e.	38	w.	13	12	5	14	5.6	....	....
Macon	370	78	87	29.66	30.06	.00	63.6	− 0.1	84	11	73	33	29	54	35	58	56	83	3.29	+ 1.2	10	3,859	ne.	26	nw.	26	23	6	12	5.2	....	....
Thomasville	273	8	57	29.74	30.03	− .01	68.2	0.0	88	12	79	34	28	58	34	61	59	87	2.17	− 1.3	7	3,025	ne.	23	s.	13	14	8	9	4.6	....	....
Pensacola	56	140	182	29.96	30.02	− .01	68.8	− 0.6	83	10	75	38	28	62	24	62	59	76	1.06	− 3.0	3	8,384	ne.	36	ne.	27	9	13	9	5.5	....	....
Anniston	741	9	57	29.29	30.09	+ .02	62.6	+ 0.2	83	9	72	27	28	53	40	....	....	....	3.26	+ 0.9	8	3,283	se.	23	e.	2	10	9	12	5.3	....	....
Birmingham	700	11	48	29.32	30.08	+ .01	63.8	− 0.6	84	5	72	30	28	55	32	57	54	79	2.52	+ 0.2	6	4,174	e.	25	nw.	10	10	11	10	5.1	....	....
Mobile	57	125	161	29.97	30.03	− .01	68.8	+ 1.7	85	6	77	37	28	61	27	62	59	79	0.75	− 2.4	7	6,304	ne.	35	n.	27	11	12	8	4.6	....	....
Montgomery	223	100	112	29.81	30.06	.00	65.2	− 0.5	85	10	74	35	28	56	31	59	55	77	3.46	+ 1.0	7	4,293	ne.	25	ne.	10	10	11	10	5.1	....	....
Meridian	375	85	93	29.66	30.06	.00	64.0	+ 1.0	87	10	72	30	28	56	32	58	56	84	1.71	− 1.0	6	3,398	ne.	18	n.	27	11	8	12	5.7	....	....
Vicksburg	247	65	74	29.78	30.06	.00	66.3	+ 1.0	86	10	75	36	28	58	26	60	57	81	0.90	− 1.9	6	4,550	e.	17	s.	12	14	10	7	4.6	....	....
New Orleans	51	90	121	29.96	30.01	− .02	70.3	+ 0.8	90	10	77	45	28	64	22	64	62	82	2.63	− 0.3	5	5,768	ne.	33	ne.	11	11	12	8	5.0	....	....
West Gulf States.							**67.8**	**+ 1.2**										**76**	**2.38**	**− 0.4**										**5.1**		
Shreveport	249	77	93	29.78	30.05	.00	66.8	+ 1.2	91	10	76	35	28	57	34	59	55	75	0.32	− 2.9	3	4,790	se.	23	nw.	12	10	9	12	5.6	....	....
Bentonville	1,303	11	44	28.68	30.05	.00	59.7	+ 1.7	84	6	70	28	27	50	36	....	....	....	3.01	+ 0.2	7	3,356	se.	19	n.	26	13	4	14	5.6	....	....
Fort Smith	457	79	94	29.56	30.04	− .01	63.1	+ 1.4	87	8	72	34	28	54	35	55	51	75	1.38	− 1.4	6	5,451	e.	31	nw.	9	11	4	16	5.6	....	....
Little Rock	357	139	147	29.68	30.06	.00	63.2	+ 0.3	84	8	72	34	28	55	32	58	55	80	1.47	− 1.1	9	5,629	e.	39	n.	9	13	7	11	5.4	....	....
Brownsville	57	3	40	....	....	.....	75.1	.....	95	10	85	54	16	65	32	....	....	....	2.58	.....	7	....	e.	....	....	....	....	....	....	....	....	....
Corpus Christi	20	69	77	29.97	29.99	− .01	72.8	+ 0.2	85	7	79	52	15	66	27	67	65	82	5.19	+ 3.1	9	8,590	s.e	50	se.	12	10	11	10	4.9	....	....
Dallas	512	109	117	29.49	30.03	.....	66.4	.....	89	17	77	37	27	56	40	....	....	....	0.35	.....	4	6,423	se.	26	s.	9	10	12	9	5.1	....	....
Fort Worth	670	106	114	29.30	30.01	− .02	66.2	− 0.1	90	17	76	37	27	56	38	58	53	69	0.28	− 2.2	6	7,005	se.	34	sw.	12	11	9	911	5.3	....	....
Galveston	54	106	114	29.96	30.02	− .01	71.7	− 0.7	85	9	76	54	15	67	16	67	64	81	2.95	− 1.2	9	8,725	n.	36	s.	19	17	8	6	3.8	....	....
Houston	138	111	121	29.86	30.00	.....	70.7	+ 0.8	93	10	79	44	28	62	28	....	....	....	2.53	.....	9	5,729	se.	29	e.	12	11	7	13	5.5	....	....
Palestine	510	64	72	29.49	30.02	− .01	67.3	+ 1.1	89	10	76	39	28	58	32	60	56	76	1.37	− 2.2	5	4,850	se.	22	s.	9	10	9	12	5.1	....	....
San Antonio	701	109	132	29.28	30.00	− .01	70.2	+ 1.0	93	10	80	45	15	60	31	62	58	74	5.78	+ 4.3	5	4,895	ne.	25	ne.	23	11	10	10	5.1	....	....
Taylor	582	55	63	29.43	30.04	+ .02	68.0	− 0.3	91	10	79	38	28	57	38	....	....	....	3.69	+ 1.1	5	5,601	nw.	25	e.	11	11	14	6	4.6	....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, October, 1914*—Continued.

Districts and stations.	Elevation of instruments.			Pressure in inches.			Temperature of the air, in degrees Fahrenheit.												Precipitation, inches.			Wind.										
	Barometer above sea level, feet.	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, per cent.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
Ohio Valley and Tennessee.							**59.7**	**+ 2.9**										**78**	**3.03**	**+ 0.5**										**5.9**		
Chattanooga	762	189	213	29.28	30.10	+ .01	62.4	+ 1.6	83	8	71	31	28	54	31	55	52	75	2.93	+ 0.1	6	4,485	w.	33	nw.	26	9	10	12	5.6	.....	....
Knoxville	996	93	100	29.03	30.08	− .01	61.2	+ 3.1	84	9	70	28	28	52	32	55	53	81	3.57	+ 1.0	7	3,137	ne.	23	n.	26	10	7	14	6.2	.....	....
Memphis	399	76	97	29.67	30.10	+ .03	63.3	+ 0.8	82	9	71	35	27	56	23	57	54	77	1.81	− 0.9	10	5,275	s.	28	sw.	10	11	5	15	6.0	.....	....
Nashville	546	168	191	29.50	30.09	+ .01	61.9	+ 1.6	83	1	71	28	28	53	31	56	53	78	2.80	+ 0.3	8	5,084	w.	40	nw.	26	10	8	13	5.8	.....	....
Lexington	989	75	102	29.00	30.07	− .01	58.9	+ 2.4	84	7	67	26	27	51	25	.....	.....	.....	5.32	+ 3.1	11	5,738	ne.	31	nw.	26	9	9	13	6.0	.....	....
Louisville	525	219	255	29.50	30.09	+ .01	60.7	+ 2.3	84	6	69	30	27	52	26	55	53	81	2.42	− 0.2	10	6,592	n.	44	w.	10	8	8	15	5.8	.....	....
Evansville	431	72	82	29.60	30.07	.00	60.8	+ 2.8	84	6	69	30	27	53	24	54	51	78	2.75	− 0.4	8	4,284	s.	34	s.	9	11	6	14	5.8	.....	....
Indianapolis	822	154	164	29.19	30.08	+ .01	58.4	+ 3.4	82	6	67	29	27	50	30	52	49	78	1.67	− 1.1	9	5,346	sw.	34	sw.	10	9	6	16	6.1	T.	....
Terre Haute	575	96	129	29.44	30.06	.....	59.0	.....	83	6	68	28	27	50	30	53	50	80	2.46	.....	6	5,533	s.	36	nw.	26	9	9	13	5.9	.....	....
Cincinnati	628	152	160	29.40	30.08	.00	60.5	+ 3.5	86	7	68	29	27	52	28	54	51	77	3.59	+ 1.3	9	3,730	se.	25	w.	10	8	6	17	6.5	.....	....
Columbus	824	173	222	29.21	30.09	+ .01	57.7	+ 3.6	82	5	66	25	27	49	30	52	48	77	4.44	+ 2.1	13	6,745	se.	42	n.	26	9	9	13	5.5	.....	....
Dayton	899	181	216	29.10	30.06	.....	58.4	+ 4.3	84	6	67	26	27	50	33	52	49	78	3.48	+ 1.1	14	6,067	s.	42	s.	10	12	9	10	5.2	.....	....
Pittsburgh	842	353	410	29.19	30.10	+ .02	58.4	+ 3.5	84	10	67	30	27	50	30	51	47	73	3.07	+ 0.7	15	7,165	w.	54	w.	10	11	9	11	5.6	T.	....
Elkins	1,940	41	50	28.06	30.13	+ .03	55.2	+ 3.8	86	10	67	24	28	44	40	48	45	85	2.25	− 0.2	15	2,305	w.	22	w.	17	8	13	10	5.9	0.5	....
Parkersburg	638	77	84	29.45	30.11	+ .03	59.2	+ 4.6	84	6	69	29	27	49	33	52	48	77	2.91	+ 0.5	11	3,126	se.	30	sw.	10	9	8	14	6.1	.....	....
Lower Lake Region.							**55.2**	**+ 3.4**										**79**	**2.11**	**− 0.7**										**5.7**		
Buffalo	767	247	280	29.24	30.08	+ 0.3	55.2	+ 3.7	78	10	62	28	27	49	28	51	49	84	1.80	− 1.7	10	11,679	sw.	64	sw.	10	6	8	17	7.0	T.	....
Canton	448	10	61	29.59	30.07	.....	50.4	+ 3.2	79	9	60	24	14	40	37	.....	.....	.....	1.82	− 1.5	12	7,281	sw.	40	w.	11	12	7	12	5.4	0.5	....
Oswego	335	76	91	29.70	30.07	+ .02	53.2	+ 2.0	79	9	61	30	27	46	25	48	45	76	1.34	− 2.0	10	6,908	s.	38	ne.	24	11	7	13	5.6	T.	....
Rochester	523	97	113	29.52	30.10	+ .05	54.6	+ 3.8	81	9	62	30	27	47	30	49	45	76	2.04	− 0.8	10	5,378	sw.	31	sw.	11	10	7	14	5.9	0.8	....
Syracuse	597	97	113	29.45	30.10	+ .04	53.8	+ 2.8	79	10	62	25	27	46	27	48	45	76	1.21	− 2.0	12	6,925	s.	30	sw.	28	10	7	14	5.7	2.4	....
Erie	714	92	102	29.30	30.08	+ .03	56.2	+ 3.1	81	10	63	32	27	50	23	51	46	74	3.50	− 0.3	12	7,130	s.	31	se.	14	8	9	14	5.9	0.1	....
Cleveland	762	190	201	29.26	30.08	+ .02	56.8	+ 3.7	78	8	63	33	28	51	20	52	49	79	2.39	− 0.3	10	9,113	se.	51	n.	26	10	7	14	5.7	T.	....
Sandusky	629	62	103	29.39	30.08	+ .02	57.2	+ 3.3	80	8	64	33	27	50	26	52	49	80	1.58	− 0.8	12	8,165	sw.	40	n.	26	11	6	14	5.5	.....	....
Toledo	628	208	246	29.40	30.09	+ .04	56.5	+ 3.9	80	21	64	26	27	49	27	52	49	82	2.68	+ 0.4	8	9,601	sw.	44	sw.	10	10	9	12	5.2	.....	....
Fort Wayne	856	113	124	29.15	30.08	.....	56.3	+ 2.6	81	7	65	25	27	47	29	51	48	79	2.76	.....	9	5,421	sw.	31	sw.	28	9	8	14	5.5	T.	....
Detroit	730	218	245	29.28	30.08	+ .03	56.6	+ 4.9	78	5	64	26	27	49	24	51	48	81	2.12	− 0.3	10	8,201	sw.	34	sw.	28	11	7	13	5.7	T.	....
Upper Lake Region.							**53.7**	**+ 6.1**										**83**	**2.14**	**− 0.7**										**5.5**		
Alpena	609	13	92	29.40	30.07	+ .04	51.4	+ 5.5	78	20	58	26	27	45	35	48	45	84	2.92	− 0.5	11	7,204	se.	33	w.	11	9	6	16	6.1	T.	....
Escanaba	612	54	60	29.38	30.05	+ .04	51.4	+ 6.3	70	21	59	23	27	44	24	48	45	84	0.55	− 2.5	8	6,608	ne.	35	n.	23	12	8	11	5.2	0.2	....
Grand Haven	632	54	92	29.37	30.05	+ .02	54.8	+ 4.6	76	7	62	29	26	48	29	51	48	83	2.55	+ 0.1	10	7,422	w.	42	w.	10	13	8	10	4.5	T.	....
Grand Rapids	707	70	87	29.29	30.06	+ .02	56.5	+ 6.4	82	7	65	28	27	48	29	51	48	80	2.72	+ 0.2	9	3,779	e.	24	w.	10	8	9	14	6.1	T.	....
Houghton	684	62	72	29.30	30.03	+ .03	51.6	+ 6.5	80	4	60	25	26	43	30	.....	.....	.....	1.18	− 2.0	8	5,656	w.	37	n.	23	8	8	15	6.2	1.0	....
Lansing	878	11	62	29.12	30.07	.....	54.6	+ 5.9	81	7	65	23	27	44	38	48	46	87	2.81	+ 0.6	11	3,566	sw.	19	n.	26	12	7	12	5.2	T.	....
Ludington	637	60	68	29.35	30.05	.....	54.5	.....	75	6	61	30	26	48	27	51	49	86	3.00	.....	11	7,202	s.	32	w.	27	14	5	12	4.9	T.	....
Marquette	734	77	111	29.26	30.07	+ .06	52.9	+ 5.4	80	20	61	25	27	45	35	47	43	77	1.03	− 2.2	9	7,185	sw.	35	nw.	23	10	4	17	6.4	2.0	....
Port Huron	638	70	120	29.37	30.06	+ .02	54.0	+ 4.5	78	21	62	25	27	46	29	50	47	84	1.66	− 1.1	11	7,341	sw.	34	ne.	24	11	9	11	5.3	.....	....
Saginaw	641	48	82	29.37	30.07	.....	54.6	.....	79	7	64	24	27	45	33	50	48	87	1.75	− 1.0	9	5,785	s.	27	nw.	26	10	9	12	5.5	.....	....
Sault Sainte Marie	614	11	61	29.37	30.07	+ .06	50.2	+ 6.8	75	5	58	22	27	42	30	46	43	85	1.47	− 1.8	12	5,261	e.	37	w.	11	8	7	16	6.6	0.1	....
Chicago	823	140	310	29.17	30.06	+ .02	59.4	+ 6.2	81	7	65	28	27	54	24	54	50	75	2.89	+ 0.3	10	7,810	sw.	34	n.	26	14	5	12	4.8	T.	....
Green Bay	617	109	144	29.38	30.04	+ .02	54.8	+ 7.7	79	6	63	23	27	46	31	49	46	81	1.73	− 0.6	11	7,902	s.	48	n.	23	12	6	13	6.1	T.	....
Milwaukee	681	119	133	29.31	30.05	+ .02	56.2	+ 6.0	80	7	63	27	27	50	31	52	48	80	4.75	+ 2.4	10	6,865	sw.	40	e.	13	14	5	12	5.2	T.	....
Duluth	1,133	11	47	28.82	30.05	+ .05	49.2	+ 4.0	78	4	56	20	26	42	29	45	43	88	1.14	− 1.6	7	9,606	ne.	39	w.	27	13	8	10	5.1	T.	....
North Dakota.							**50.8**	**+ 8.2**										**74**	**0.83**	**− 0.2**										**4.6**		
Moorhead	940	8	57	28.99	30.02	+ .02	52.8	+10.0	86	1	65	21	27	41	39	46	43	80	0.99	− 1.1	7	6,203	se.	28	n.	23	18	7	6	3.3	.....	....
Bismarck	1,674	8	57	28.24	30.04	+ .05	51.0	+ 6.9	89	1	65	21	23	37	48	42	37	73	0.79	− 0.2	8	6,582	nw.	34	se.	5	15	6	10	4.3	T.	....
Devils Lake	1,482	11	44	28.39	29.97	+ .02	50.8	+10.3	89	1	62	19	28	39	36	42	38	74	1.15	− 0.1	7	7,421	sw.	31	n.	23	14	8	9	4.9	.....	....
Williston	1,872	40	47	27.98	29.98	.00	48.8	+ 5.9	83	17	62	17	26	36	45	41	35	68	0.38	− 0.4	6	4,262	sw.	30	nw.	31	8	12	11	5.8	T.	....
Upper Mississippi Valley.							**57.5**	**+ 4.7**										**81**	**2.96**	**+ 0.5**										**5.0**		
Minneapolis	918	10	208	29.02	30.00	.....	55.4	.....	81	1	65	26	27	46	29	.....	.....	.....	1.58	− 1.0	5	8,187	s.	36	s.	4	16	10	5	4.0	.....	....
St. Paul	837	201	236	29.12	30.03	+ .02	55.4	+ 7.3	80	1	65	24	27	46	32	.....	.....	.....	1.88	− 0.5	7	8,092	s.	44	s.	4	15	8	8	4.5	.....	....
La Crosse	714	11	48	29.27	30.05	+ .03	56.0	+ 6.1	79	20	66	24	27	46	31	.....	.....	.....	2.79	+ 0.3	9	3,511	s.	21	n.	26	10	11	10	5.5	T.	....
Madison	974	70	78	29.01	30.06	+ .03	55.4	+ 6.6	78	6	64	25	27	47	27	50	47	80	3.09	+ 0.7	8	6,792	s.	44	ne.	24	12	8	11	5.6	T.	....
Charles City	1,015	10	49	28.96	30.05	+ .03	54.9	+ 6.7	78	1	65	22	27	45	33	50	48	87	3.96	+ 1.9	10	4,665	se.	28	n.	26	11	11	9	4.9	.....	....
Davenport	606	71	79	29.39	30.05	+ .01	58.0	+ 5.4	81	6	67	25	27	49	29	52	49	80	2.15	− 0.2	9	4,160	e.	27	n.	26	15	5	11	4.9	T.	....
Des Moines	861	84	97	29.11	30.02	+ .01	57.4	+ 4.9	79	1	66	24	27	48	31	52	49	80	3.57	+ 0.9	10	5,270	s.	29	sw.	31	14	4	13	5.1	.....	....
Dubuque	698	81	96	29.31	30.06	+ .02	56.7	+ 4.7	78	6	65	26	27	48	28	50	47	78	2.88	+ 0.2	10	3,760	s.	26	n.	26	12	7	12	5.5	T.	....
Keokuk	614	64	78	29.38	30.06	+ .01	58.8	+ 4.3	83	6	68	24	27	50	30	53	50	80	1.65	− 0.8	7	4,213	se.	22	nw.	26	16	6	9	4.5	.....	....
Cairo	356	87	93	29.67	30.06	− .01	61.5	+ 2.4	84	6	70	32	27	54	27	56	53	82	2.45	− 0.2	7	4,938	s.	37	sw.	9	12	6	13	5.5	.....	....
Peoria	609	11	45	29.40	30.07	+ .02	57.2	+ 5.2	84	7	68	22	27	47	33	51	48	84	2.15	− 0.4	10	3,662	s.	26	n.	26	11	10	10	5.1	.....	....
Springfield, Ill	644	10	91	29.37	30.06	+ .01	58.1	+ 3.5	81	7	67	27	27	49	28	52	48	77	2.08	− 0.5	8	4,770	s.	28	nw.	26	12	7	12	5.4	.....	....
Hannibal	534	74	109	29.48	30·05	.00	58.8	+ 2.9	83	6	68	26	27	50	33	.....	.....	.....	3.69	+ 2.0	8	5,257	sw.	26	n.	26	15	8	8	4.5	.....	....
St. Louis	567	265	303	29.44	30·05	− .01	60.8	+ 2.4	82	6	69	31	27	53	26	55	52	79	7.45	+ 5.0	7	7,599	s.	36	n.	26	12	9	10	5.1	.....	....
Missouri Valley.							**57.6**	**+ 4.9**										**74**	**3.04**	**+ 1.2**										**4.8**		
Columbia, Mo	781	11	84	29.21	30.04	− .01	58.8	+ 4.0	84	6	68	25	27	50	36	.....	.....	.....	5.14	+ 2.7	8	4,712	se.	25	nw.	26	11	4	16	6.1	.....	....
Kansas City	963	161	181	29.01	30.05	+ .01	60.0	+ 4.2	80	6	68	30	27	52	28	53	48	71	5.65	+ 3.4	12	8,566	se.	42	n.	9	12	7	12	5.2	.....	....
St. Joseph	967	11	49	29.01	30.05	.....	58.8	.....	82	6	67	25	27	50	33	52	49	78	3.16	.....	10	5,763	se.	32	nw.	12	12	9	10	5.1	.....	....
Springfield, Mo	1,324	98	104	28.66	30.07	+ .02	58.8	+ 1.5	82	8	67	28	27	51	26	52	48	76	2.84	0.0	6	6,864	se.	44	nw.	9	14	3	14	4.8	.....	....
Iola	984	11	50	29.01	30.06	+ .02	58.9	+ 2.0	84	7	69	26	27	49	38	.....	.....	.....	4.65	+ 2.4	12	4,607	s.	24	nw.	9	10	10	11	5.1	.....	....
Topeka	983	85	101	.....	.....	.....	58.6	+ 2.3	81	6	68	26	27	49	38	.....	.....	.....	3.05	+ 1.1	10	6,856	s.	30	nw.	12	12	8	11	5.1	.....	....
Lincoln	1,189	11	84	28.76	30.03	.00	57.2	+ 3.9	82	2	47	24	27	68	39	51	47	78	2.75	+ 0.9	11	7,710	s.	33	nw.	28	15	4	12	4.6	.....	....
Omaha	1,105	115	121	28.85	30.04	+ .01	57.8	+ 3.6	81	2	67	27	27	49	34	51	47	76	3.70	+ 1.4	10	6,179	s.	31	n.	26	16	3	12	4.7	.....	....
Valentine	2,598	47	54	27.31	30.04	+ .03	52.0	+ 3.5	85	18	65	26	29	47	45	43	37	68	1.79	+ 0.5	7	6,993	w.	33	se.	22	15	7	9	4.3	.....	....
Sioux City	1,135	94	164	28.81	30.03	+ .01	55.6	+ 4.5	80	2	66	23	27	45	39	49	45	76	1.81	0.0	7	9,010	se.	42	s.	3	16	5	10	4.3	.....	....
Huron	1,306	59	74	28.64	30.05	+ .04	53.0	+ 8.3	85	2	66	20	27	40	40	45	41	76	2.35	+ 1.0	7	8,015	se.	36	se.	3	15	9	7	4.0	.....	....
Pierre	1,572	70	75	28.38	30.05	+ .04	54.0	+ 4.9	89	2	66	27	14	42	45	44	38	63	1.95	+ 1.1	7	6,381	se.	34	ne.	23	19	5	7	3.6	.....	....
Yankton	1,233	49	57	28.70	30.02	+ .01	55.5	+ 5.0	85	18	67	22	27	44	46	.....	.....	.....	0.70	− 0.9	7	5,396	nw.	28	n.	12	16	3	12	4.8	.....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, October, 1914*—Continued.

Districts and stations.	Elevation of instruments.			Pressure in inches.			Temperature of the air, in degrees Fahrenheit.									Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Precipitation, inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
	Barometer above sea level, feet.	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.				Total.	Departure from normal.	Days with 0.01 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.						
Northern Slope.							**47.3**	**+ 2.6**										**70**	**1.67**	**+ 0.4**										**5.4**		
Havre	2,505	11	44	27.33	29.99	+0.01	46.2	+ 2.6	79	16	57	25	29	35	41	41	38	80	2.82	+ 2.3	12	5,568	sw.	32	sw.	2	9	9	13	6.3	9.4	....
Helena	4,110	87	114	25.82	30.05	+ .02	44.6	+ 0.6	71	16	53	20	8	36	29	39	35	77	2.08	+ 1.3	11	4,795	sw.	32	sw.	18	9	6	16	6.3	13.1	....
Kalispell	2,962	11	34	26.95	30.04	+ .03	43.2	+ 0.7	68	1	51	28	24	36	29	39	37	85	3.40	+ 2.2	14	1,884	sw.	16	sw.	19	6	7	18	6.9	1.1	....
Miles City	2,371	26	48	27.49	30.06	+ .06	51.2	+ 4.7	84	15	64	30	13	38	43	43	39	74	1.96	+ 1.2	6	3,139	s.	20	nw.	4	16	9	6	4.2	....	....
Rapid City	3,259	50	58	26.63	30.06	+ .05	51.2	+ 4.6	83	1	63	27	14	39	39	42	34	60	1.65	+ 0.6	4	5,953	w.	31	s.	21	13	6	12	5.0	T.	....
Cheyenne	6,088	84	101	24.05	30.02	+ .01	47.6	+ 2.3	74	16	59	25	14	36	38	38	31	60	1.29	+ 0.6	7	8,187	w.	40	w.	4	12	11	8	4.9	0.2	....
Lander	5,372	60	68	24.68	30.06	+ .02	47.2	+ 5.1	76	1	62	25	4	32	43	37	29	57	0.42	− 0.6	6	3,143	sw.	33	sw.	10	10	13	8	5.0	....	....
Sheridan	3,790	10	47	26.13	30.06	.....	46.6	.....	81	16	63	21	26	30	51	37	31	67	0.65	.....	4	3,206	s.	27	nw.	3	10	9	12	5.1	T.	....
Yellowstone Park	6,200	11	48	23.91	30.07	+ .05	42.0	+ 0.5	68	15	53	22	7	31	36	35	31	73	1.51	+ 0.4	12	5,165	s.	36	s.	2	9	9	13	5.8	T.	....
North Platte	2,821	11	51	27.13	30.07	+ .05	53.4	+ 3.4	87	17	68	26	15	39	50	44	38	70	0.92	− 0.2	4	5,416	n.	25	n.	23	15	7	9	4.1	....	....
Middle Slope.							**57.4**	**+ 1.8**										**66**	**1.75**	**+ 0.3**										**4.3**		
Denver	5,291	129	172	24.76	30.02	+ .01	53.2	+ 2.2	79	3	67	30	14	40	39	42	32	53	3.05	+ 2.1	6	5,500	sw.	38	nw.	4	16	11	4	3.5	0.8	....
Pueblo	4,685	80	86	25.32	30.01	+ .02	53.6	+ 1.3	83	17	69	38	25	14	51	42	34	56	1.66	+ 1.0	4	3,969	nw.	29	nw.	4	15	13	3	3.4	T.	....
Concordia	1,398	42	50	28.57	30.05	+ .02	58.6	+ 3.2	83	6	69	23	27	48	40	50	46	74	2.49	+ 0.5	5	5,288	s.	24	se.	3	11	7	13	5.3	....	....
Dodge	2,509	11	51	27.45	30.05	+ .03	57.8	+ 3.1	87	6	71	24	27	44	46	48	42	67	0.43	− 1.0	5	8,057	s.	33	nw.	11	18	8	5	3.7	....	....
Wichita	1,358	139	158	28.59	30.02	− .01	59.3	+ 0.5	80	8	68	28	27	50	31	53	49	74	1.38	− 0.9	9	9,157	s.	42	n.	9	14	8	9	4.5	....	....
Oklahoma	1,214	10	47	28.76	30.05	+ .02	61.6	+ 0.3	88	9	71	28	27	52	43	54	50	74	1.50	− 0.3	4	9,719	s.	36	n.	26	10	8	13	5.6	....	....
Southern Slope.							**62.6**	**+ 0.2**										**66**	**4.64**	**+ 2.7**										**4.8**		
Abilene	1,738	10	52	28.22	30.02	+ .01	63.8	− 0.4	92	9	75	33	27	52	41	55	51	73	4.08	+ 1.8	5	6,226	s.	25	s.	4	10	9	12	5.3	....	....
Amarillo	3,676	10	49	26.35	30.02	+ .02	58.0	+ 1.9	86	17	71	30	27	45	41	48	43	71	4.46	+ 2.8	7	8,184	s.	30	s.	6	14	9	8	4.9	....	....
Del Rio	944	64	71	28.99	29.97	− .01	70.0	+ 0.1	93	9	80	44	15	60	36	....	....	....	6.67	+ 4.7	7	6,595	se.	39	se.	20	10	12	9	4.7	....	....
Roswell	3,566	75	85	26.40	30.00	+ .04	58.4	− 1.1	86	2	72	32	28	44	44	46	35	53	3.37	+ 1.8	7	5,118	s.	26	nw.	19	14	9	8	4.2	....	....
Southern Plateau.							**60.1**	**+ 0.3**										**54**	**1.36**	**+ 0.7**										**2.8**		
El Paso	3,672	110	133	26.20	29.93	+ .01	63.5	+ 1.1	88	11	75	43	28	52	34	50	39	49	0.80	− 0.2	5	7,064	se.	48	s.	3	16	12	3	3.6	....	....
Santa Fe	7,013	57	62	23.31	30.01	+ .05	49.4	− 0.6	73	1	60	31	23	39	28	39	32	61	2.40	+ 1.3	10	4,764	se.	29	se.	3	20	6	5	3.5	....	....
Flagstaff	6,908	8	57	.....	.....	.....	45.6	+ 0.9	69	13	59	26	27	32	42	38	....	....	1.73	.....	6	.....	e.	36	ne.	23	16	9	6	....	....	....
Phoenix	1,108	76	81	28.73	29.88	.00	71.2	+ 1.0	96	1	84	50	23	59	36	58	48	49	2.30	+ 2.0	5	3,895	e.	25	w.	21	21	5	5	2.5	....	....
Yuma	141	9	58	29.71	29.86	+ .01	73.6	+ 1.2	99	1	88	49	23	60	38	60	51	53	0.89	+ 0.7	3	3,204	ne.	22	w.	21	27	2	2	1.2	....	....
Independence	3,910	11	42	25.95	29.92	− .03	57.2	− 2.1	82	14	72	38	13	42	42	47	40	59	0.03	− 0.3	1	4,017	se.	33	se.	2	19	8	4	3.4	....	....
Middle Plateau.							**51.9**	**+ 1.4**										**56**	**1.59**	**+ 0.7**										**3.8**		
Reno	4,532	74	81	25.47	29.97	.....	51.8	+ 2.1	80	15	67	27	22	37	43	43	33	54	0.16	− 0.2	3	4,214	w.	31	w.	19	16	9	6	3.6	....	....
Tonopah	6,090	12	20	24.08	29.95	.....	53.2	.....	73	13	62	31	22	44	24	42	32	46	0.00	− 0.8	0	6,269	se.	36	nw.	3	20	7	4	3.1	....	....
Winnemucca	4,344	18	56	25.62	30.01	− .04	50.2	+ 1.6	83	14	66	24	4	35	44	41	33	60	0.63	+ 1.1	6	4,181	ne.	28	sw.	19	15	5	11	4.5	....	....
Modena	5,479	10	43	24.64	29.98	+ .02	49.9	− 0.2	73	1	66	29	5	34	41	40	30	53	0.30	− 0.5	3	7,401	w.	50	s.	2	18	10	3	2.9	....	....
Salt Lake City	4,360	147	189	25.63	29.99	− .02	55.8	+ 3.6	76	1	65	35	4	46	27	47	41	62	2.61	+ 1.2	8	5,552	se.	37	e.	24	14	7	10	4.9	....	....
Durango	6,546	10	....	.....	.....	.....	48.6	− 0.3	78	12	63	28	5	34	46	....	....	....	5.55	+ 3.8	6	.....	nw.	....	.....	....	20	6	5	....	....	....
Grand Junction	4,602	82	96	25.42	30.00	+ .01	53.6	+ 0.3	74	20	65	35	31	42	33	45	38	61	1.89	+ 1.0	6	5,028	e.	35	w.	8	15	10	6	3.9	....	....
Northern Plateau.							**52.0**	**+ 2.6**										**68**	**1.59**	**+ 0.5**										**5.7**		
Baker	3,471	48	53	26.45	30.04	− .04	49.4	+ 3.9	79	15	61	30	11	38	35	42	35	64	1.14	+ 0.2	7	4,980	se.	27	s.	16	9	14	8	4.8		
Boise	2,739	78	86	27.18	30.04	− .02	54.4	+ 4.1	83	14	65	34	4	44	37	46	39	61	1.20	− 0.1	10	3,195	nw.	25	se.	19	12	7	12	5.3	....	....
Lewiston	757	40	48	29.18	29.99	− .08	53.7	+ 1.9	78	14	64	36	7	43	33	....	....	....	1.71	+ 0.5	12	1,604	e.	19	w.	4	10	6	15	6.0	....	..
Pocatello	4,477	46	54	25.50	30.02	− .02	50.4	+ 2.4	77	15	61	35	23	40	36	43	37	68	2.02	+ 1.0	8	4,730	se.	28	s.	19	9	7	15	5.6		....
Spokane	1,929	101	110	27.95	30.01	− .05	49.6	+ 2.3	73	16	59	32	23	40	33	45	41	74	1.48	0.0	13	3,704	ne.	26	s.	18	5	11	15	6.7	....	....
Walla Walla	1,000	57	65	28.92	30.00	− .07	54.4	+ 0.7	83	16	63	39	24	46	35	48	44	72	1.99	+ 0.5	13	2,751	s.	19	se.	18	10	6	15	6.0	....	....
North Pacific Coast Region.							**54.5**	**+ 3.4**										**84**	**6.55**	**+ 2.6**										**7.3**		
North Head	211	11	56	29.71	29.93	− .12	55.6	+ 2.7	72	27	59	47	20	52	20	53	51	87	7.90	+ 4.0	18	13,271	se.	78	se.	16	5	6	20	7.5	....	....
Port Crescent	259	8	53	29.64	29.92	− .10	49.8	+ 2.4	66	14	57	33	3	43	21	....	....	....	6.00	+ 2.5	15	3,570	s.	15	se.	18	2	8	21	8.0	....	....
Seattle	125	215	250	29.82	29.95	− .10	54.6	+ 3.8	71	13	61	43	22	49	24	52	49	83	4.37	+ 1.5	14	5,259	se.	39	sw.	18	4	2	25	7.8	....	....
Tacoma	213	113	120	29.73	29.95	− .09	54.2	+ 3.6	72	13	61	37	22	47	27	51	49	83	4.98	+ 1.6	13	2,912	sw.	25	sw.	18	4	9	18	7.5	....	....
Tatoosh Island	109	7	57	29.78	29.87	− .14	53.8	+ 3.9	65	27	57	45	1	50	14	52	51	91	15.60	+ 7.6	21	13,401	e.	56	sw.	18	2	7	22	8.2	....	....
Portland, Oreg.	153	68	106	29.79	29.95	− .11	57.4	+ 4.1	72	14	64	43	22	51	26	53	50	79	3.47	− 0.2	14	3,794	se.	27	sw.	18	8	10	13	6.5	....	....
Roseburg	510	9	57	29.42	29.97	− .11	56.3	+ 3.5	75	14	65	39	22	47	26	51	48	79	3.56	+ 1.0	13	1,551	s.	20	w.	9	1	23	7	5.8	....	....
Middle Pacific Coast Region.							**59.3**	**+ 0.6**										**70**	**1.52**	**0.0**										**4.1**		
Eureka	62	73	89	29.94	30.01	− .05	54.8	+ 1.7	67	8	62	42	22	48	20	52	50	87	3.79	+ 1.1	13	4,224	se.	36	sw.	9	12	9	10	5.2	....	....
Mount Tamalpais	2,375	11	18	27.54	30.01	.00	56.2	− 2.5	80	14	61	43	1	51	17	49	42	66	2.18	+ 0.3	9	11,444	nw.	72	nw.	17	20	4	7	3.9	....	....
Point Reyes Light	490	7	18	29.45	29.97	.....	56.8	+ 2.1	76	14	61	49	5	53	21	....	....	....	1.53	.....	10	12,127	nw.	49	s.	17	13	6	12	5.0	....	....
Red Bluff	332	50	56	29.60	29.96	− .07	62.2	− 1.6	90	14	74	43	22	50	38	53	45	60	1.56	0.0	6	3,268	nw.	23	se.	19	16	5	10	4.2	....	....
Sacramento	69	106	117	29.90	29.97	− .04	62.2	0.0	86	14	74	40	22	51	34	54	47	64	0.82	− 0.2	4	4,787	s.	22	sw.	9	23	4	4	2.9	....	....
San Francisco	155	209	213	29.82	29.99	− .02	62.0	+ 3.6	89	14	69	50	22	55	35	55	51	74	0.29	− 1.0	3	3,861	w.	30	sw.	28	16	9	6	4.0	....	....
San Jose	141	12	110	29.84	30.00	.....	60.8	+ 0.5	90	14	74	39	22	48	42	....	....	....	0.50	− 0.4	3	3,830	nw.	24	sw.	9	20	5	6	3.2	....	....
South Pacific Coast Region.							**65.8**	**+ 3.5**										**64**	**0.42**	**− 0.4**										**3.2**	....	....
Fresno	327	89	98	29.61	29.97	+ .01	64.6	− 0.1	92	14	78	43	22	52	39	53	44	54	0.26	− 0.5	4	4,495	nw.	25	nw.	3	21	6	4	2.8	....	....
Los Angeles	338	159	191	29.58	29.94	− .01	68.6	+ 6.3	97	13	78	54	22	59	34	57	51	62	0.31	− 0.5	3	3,996	s.	18	s.	26	19	4	8	3.2	....	....
San Diego	87	62	70	29.83	29.92	− .03	66.0	+ 3.0	90	25	73	54	23	59	28	59	55	74	1.05	+ 0.6	5	4,074	nw.	20	nw.	23	16	11	4	3.6	....	....
San Luis Obispo	201	32	40	29.77	29.99	.00	64.2	+ 5.0	98	13	77	42	5	51	47	54	47	64	0.08	− 1.2	3	2,454	nw.	15	w.	19	20	6	5	3.2	....	....
West Indies.																																
San Juan	82	8	54	29.86	29.94	+ .04	80.2	.....	91	13	86	70	22	74	16	....	....	....	4.34	− 1.8	12	5,843	s.	30	e.	1	15	13	3	4.1	....	....
Panama.																																
Balboa Heights *	118	6	69	29.75	29.85	.....	79.7	.....	90	14	86	70	1	74	18	75	75	93	6.44	− 4.1	20	4,357	nw.	27	s.	7	0	10	21	8.1	....	....
Colon	10	5	71	29.84	29.85	.....	79.8	.....	91	4	84	73	11	76	15	76	75	89	22.16	+ 6.0	22	5,074	se.	26	w.	15	5	9	17	6.9	....	....

* Formerly Ancon; station moved to Balboa Heights Oct. 1, 1914. Culebra meterological station discontinued Sept. 12, 1914.

TABLE II.—*Accumulated amounts of precipitation for each five minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes, or 0.80 in one hour, during October, 1914, 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.	12	D. N. a. m.	D. N. a. m.	1.05	3.33 a. m.	4.00 a. m.	0.01	0.20	0.61	0.82	0.89	0.96	1.00								
Albany, N. Y.	19			0.37														0.10			
Alpena, Mich.	17			0.90														.34			
Amarillo, Tex.	22–23	6.30 p. m.	7.43 a. m.	2.16	8.45 p. m.	9.17 p. m.	.13	.22	.41	.56	.64	.69	.77	.79							
Anniston, Ala.	10	6.40 a. m.	10.00 a. m.	0.76	7.55 a. m.	8.20 a. m.	.19	.09	.19	.29	.40	.51									
Asheville, N. C.	13	2.55 p. m.	4.15 p. m.	0.66	2.57 p. m.	3.15 p. m.	.01	.09	.32	.50	.56										
Atlanta, Ga.	14–15	7.45 p. m.	11.40 a. m.	3.30	2.21 a. m.	3.20 a. m.	.39	.17	.33	.42	.50	.60	.71	.90	1.02	1.13	1.24	1.48			
Atlantic City, N. J.	16			1.52														.39			
Augusta, Ga.	14	3.20 p. m.	6.50 p. m.	0.69	3.28 p. m.	3.41 p. m.	.04	.17	.46	.56											
Baker, Oreg.	17			0.38														.20			
Baltimore, Md.	16			1.04														.27			
Bentonville, Ark.	20–21	10.15 p. m.	2.40 a. m.	1.56	12.52 a. m.	1.52 a. m.	.43	.13	.29	.41	.44	.48	.55	.57	.58	.62	.78	1.05			
Binghamton, N. Y.	16			1.10														.42			
Birmingham, Ala.	10	5.28 p. m.	6.35 p. m.	0.85	5.30 p. m.	6.00 p. m.	.01	.12	.37	.49†	.60†	.71†	.80†								
Bismarck, N. Dak.	22			0.42														.12			
Block Island, R. I.	17			0.90														.35			
Boise, Idaho.	1			0.19														.17			
Boston, Mass.	17			0.76														.18			
Buffalo, N. Y.	9			0.39														.23			
Burlington, Vt.	17			0.54														.07			
Cairo, Ill.	9	10.50 a. m.	12.15 p. m.	0.60	11.07 a. m.	11.17 a. m.	.04	.23	.44												
Canton, N. Y.	18			0.42														.30			
Charles City, Iowa.	9	3.17 p. m.	4.50 p. m.	0.59	3.41 p. m.	3.58 p. m.	.14	.06	.26	.35	.42										
Charleston, S. C.	2			2.36														.55			
Charlotte, N. C.	4			1.25														.54			
Chattanooga, Tenn.	10	12.10 p. m.	2.29 p. m.	0.51	12.33 p. m.	12.50 p. m.	.01	.14	.24	.36	.41										
Cheyenne, Wyo.	21			0.69														.27			
Chicago, Ill.	16			0.75														.37			
Cincinnati, Ohio.	15			1.59														.42			
Cleveland, Ohio.	18			0.73														.38†			
Columbia, Mo.	7	6.15 p. m.	10.00 p. m.	1.40	8.31 p. m.	9.05 p. m.	.26	.15	.33	.40	.52	.77	.91	1.00							
	9–10	8.40 p. m.	D. N. a. m.	1.21	10.25 p. m.	11.10 p. m.	.19	.31	.41	.43	.54	.67	.75	.79	.86	.91					
Columbia, S. C.	14			0.55														.29			
Columbus, Ohio.	8			0.64														.36			
Concord, N. H.	29			0.31														.31			
Concordia, Kans.	9	12.51 p. m.	1.53 p. m.	0.99	12.58 p. m.	1.16 p. m.	.01	.15	.65	.84	.90										
Corpus Christi, Tex.	23–24	6.57 p. m.	7.35 a. m.	3.54	10.35 p. m.	10.54 p. m.	.31	.14	.36	.50	.57										
					11.34 p. m.	12.49 a. m.	1.05	.10	.17	.20	.32	.38	.44	.50	.60	.68	.76	.86	1.04		
Davenport, Iowa.	10			0.43														.20			
Dayton, Ohio.	14			1.08														.47			
Del Rio, Tex.	12	4.55 p. m.	6.55 p. m.	1.12	4.55 p. m.	5.46 p. m.	.00	.10	.29	.55	.71	.77	.81	.86	.88	.94	1.04	1.11			
	20	5.50 p. m.	9.15 p. m.	1.06	5.50 p. m.	6.43 p. m.	.00	.19	.36	.49	.50	.53	.55	.59	.60	.65	.87	.98			
	24–25	2.50 p. m.	12.50 a. m.	2.52	5.36 p. m.	6.56 p. m.	.25	.07	.18	.36	.43	.53	.79	1.04	1.18	1.24	1.31	1.55	1.94		
Denver, Colo.	22			0.91														.63			
Des Moines, Iowa.	7	6.36 a. m.	3.37 p. m.	0.92	1.20 p. m.	1.39 p. m.	.21	.14	.26	.42	.55										
Detroit, Mich.	10			0.80														.41			
Devils Lake, N. Dak.	8			0.44														.17			
Dodge City, Kans.	11			0.21														.21			
Dubuque, Iowa.	23			0.30														.30			
Duluth, Minn.	10			0.67														.22			
Durango, Colo.																					
Eastport, Me.	19			0.52														.16			
Elkins, W. Va.	24			0.53														.17			
El Paso, Tex.	20			0.61														.45			
Erie, Pa.	9			0.51														.24			
Escanaba, Mich.	7			0.19														.11			
Eureka, Cal.	18–19			1.07														.35			
Evansville, Ind.	10	4.10 a. m.	6.05 a. m.	0.69	4.20 a. m.	4.44 a. m.	.03	.09	.18	.36	.44	.48									
Flagstaff, Ariz.																					
Fort Smith, Ark.	20	11.47 a. m.	1.22 p. m.	0.45	12.42 p. m.	12.50 p. m.	.04	.19	.40												
Fort Wayne, Ind.	10	D. N. a. m.	8.55 a. m.	1.40	6.14 a. m.	7.25 a. m.	.09	.06	.18	.36	.44	.50	.55	.62	.68	.73	.79	.83	1.15		
Fort Worth, Tex.	12			0.11														.09			
Fresno, Cal.	29			0.15														.06			
Galveston, Tex.	22			0.75														.34			
Grand Haven, Mich.	16			0.87														.38			
Grand Junction, Colo.	22			0.49														.30			
Grand Rapids, Mich.	10			1.44														.71			
Green Bay, Wis.	7			0.32														.18			
Hannibal, Mo.	7–8	3.22 p. m.	9.58 a. m.	2.75	8.46 p. m.	9.11 p. m.	.82	.08	.12	.34	.67	.80									
Harrisburg, Pa.	7			0.32														.26			
Hartford, Conn.	19			0.43														.33			
Hatteras, N. C.	3–4	D. N. p. m.	D. N. a. m.	0.64	10.24 p. m.	10.52 p. m.	.03	.07	.16	.30	.40	.43	.50								
Havre, Mont.	3–4			1.32														(*)			
Helena, Mont.	4–5			1.00														(*)			
Houghton, Mich.	10			0.41														.27			
Houston, Tex.	12	11.56 a. m.	3.27 p. m.	1.21	12.59 p. m.	1.23 p. m.	.47	.13	.26	.39	.55	.61									
Huron, S. Dak.	9			0.56														.24			
Independence, Cal.	1			0.03														.03			
Indianapolis, Ind.	9–10	10.30 p. m.	7.20 a. m.	0.85	5.24 a. m.	5.44 a. m.	.07	.19	.32	.41	.55										
Iola, Kans.	9	6.18 p. m.	8.50 p. m.	1.13	7.10 p. m.	7.35 p. m.	.04	.14	.19	.36	.69	.92									
Jacksonville, Fla.	4	11.13 a. m.	2.20 p. m.	0.84	12.18 p. m.	12.37 p. m.	.09	.06	.22	.46	.56										
Kalispell, Mont.	1			0.54														.32			
Kansas City, Mo.	8	4.05 a. m.	9.15 a. m.	0.96	4.14 a. m.	4.43 a. m.	.03	.08	.21	.33	.42	.50	.57								
	9–10	7.04 p. m.	D. N. a. m.	2.22	7.52 p. m.	8.44 p. m.	.16	.13	.28	.51	.85	.90	.99	1.35	1.60	1.73	1.78	1.84			
Keokuk, Iowa.	7			0.70														.28			
Key West, Fla.	1–2	6.55 p. m.	D. N. a. m.	1.62	7.02 p. m.	7.58 p. m.	.01	.15	.25	.36	.53	.73	.91	1.05	1.09	1.19	1.32	1.35			
	3	4.57 a. m.	7.30 a. m.	1.82	5.53 a. m.	7.02 a. m.	.18	.16	.35	.56	.72	.85	.93	.97	1.07	1.11	1.19	1.48	1.64		
	17	D. N. a. m.	12.10 p. m.	1.02	6.03 a. m.	6.26 a. m.	.13	.05	.10	.15	.36	.53									
Knoxville, Tenn.	15			2.06														.39			
La Crosse, Wis.	6			0.93														.48			
Lander, Wyo.	22			0.19														.05			
Lansing, Mich.	16			1.79														.32			
Lewiston, Idaho.	30			0.25														.16			
Lexington, Ky.	10	3.30 p. m.	3.55 p. m.	0.62	3.42 p. m.	3.49 p. m.	.02	.35	.60												
Lincoln, Nebr.																					
Little Rock, Ark.	9	7.58 a. m.	8.55 a. m.	0.73	8.02 a. m.	8.36 a. m.	.01	.12	.18	.24	.40	.50	.62	.67							
Los Angeles, Cal.	3			0.19														.04			
Louisville, Ky.	10			0.31														.25			
Ludington, Mich.	10	D. N. a. m.	D. N. a. m.	0.62	2.08 a. m.	2.28 a. m.	.02	.21	.32	.41	.47										
Lynchburg, Va.	15–16	10.00 a. m.	D. N. a. m.	1.37	1.10 a. m.	1.33 a. m.	.78	.11	.26	.39	.46	.52									

TABLE II.—*Accumulated amounts of precipitation for each five minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes, or 0.80 in one hour, during October, 1914, 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.
Macon, Ga.	6			0.50														0.37			
Madison, Wis.	23			0.30														.29			
Marquette, Mich.	23			0.21														.16			
Memphis, Tenn.	20			0.81														.34			
Meridian, Miss.	13			0.83														.55			
Miami, Fla.	4	9.40 a.m.	2.10 p.m.	1.48	11.18 a.m.	12.09 p.m.	0.04	0.02	0.20	0.22	0.24	0.29	0.33	0.46	0.65	0.80	0.90	.96			
	14	7.38 a.m.	8.24 a.m.	0.57	7.46 a.m.	8.11 a.m.	.01	.09	.20	.28	.37	.51									
	25-26	D.N.p.m.	D.N.a.m.	0.72	11.14 p.m.	11.42 p.m.	.04	.25	.35	.43	.49	.53	.59								
Milwaukee, Wis.	16			2.30														.41			
Minneapolis, Minn.	6-7	11.03 p.m.	D.N.a.m.	0.44	11.26 p.m.	11.42 p.m.	.02	.05	.17	.40	.41										
Mobile, Ala.	5			0.28														.28			
Modena, Utah	3			0.26														.10			
Montgomery, Ala.	1-2	9.10 p.m.	7.55 a.m.	1.87	2.20 a.m.	2.47 a.m.	.85	.06	.13	.21	.38	.56	.62								
Moorhead, Minn.	8			0.45														.40			
Mount Tamalpais, Cal.	17			0.63														.28			
Mount Weather, Va.	15			0.81														.42			
Nantucket, Mass.	17			0.50														.28			
Nashville, Tenn.	9	12.45 p.m.	3.35 p.m.	0.54	2.28 p.m.	2.48 p.m.	.04	.26	.27	.36	.41										
New Haven, Conn.	16			2.71														.38			
New Orleans, La.	11	9.20 a.m.	11.55 a.m.	1.81	9.20 a.m.	9.50 a.m.	.00	.07	.39	.93	1.37	1.58	1.72								
	13	2.49 p.m.	4.39 p.m.	0.57	2.52 p.m.	3.06 p.m.	.01	.24	.44	.54											
New York, N. Y.	16			1.70														.36			
Norfolk, Va.	11-12	9.55 p.m.	D.N.a.m.	0.82	10.35 p.m.	10.54 p.m.	.04	.10	.38	.67	.74										
Northfield, Vt.	17			0.61														.09			
North Head, Wash.	20			1.84														.35			
North Platte, Nebr.	4			0.70														.29			
Oklahoma, Okla.	6			0.73														.49†			
Omaha, Nebr.	7	9.20 p.m.	D.N.p.m.	0.68	9.27 p.m.	9.56 p.m.	.01	.10	.27	.40	.48	.54	.58								
Oswego, N. Y.	9.10			0.54														(*)			
Palestine, Tex.	12	12.50 p.m.	1.40 p.m.	0.83	12.55 p.m	1.16 p.m.	.01	.08	.15	.35	.77	.81									
Parkersburg, W. Va.	13			0.80														.40			
Pensacola, Fla.	11			0.68														.68			
Peoria, Ill.	16			0.63														.40			
Philadelphia, Pa.	16			1.33														.38			
Phoenix, Ariz.	30			0.67														.37			
Pierre, S. Dak.	22			0.38														.20			
Pittsburgh, Pa.	10	3.13 p.m.	3.40 p.m.	0.29	3.13 p.m.	3.18 p.m.	.00	.26													
Pocatello, Idaho	3			0.75														.15			
Point Reyes Light, Cal.	17			0.59														.26			
Port Huron, Mich.	10			0.97														.34			
Portland, Me.	19			1.06														.28			
Portland, Oreg.	1			0.75														.21			
Providence, R. I.	17			1.50														.36			
Pueblo, Colo.	23-24			1.43														.15			
Raleigh, N. C.	11			0.30														.16			
Rapid City, S. Dak.	22			0.86														.30			
Reading, Pa.	16			1.02														.17			
Red Bluff, Cal.	9			0.46														.41†			
Reno, Nev.	29			0.12														.04			
Richmond, Va.	16			0.53														.31			
Rochester, N. Y.	9			0.43														.39			
Roseburg, Oreg.	18			1.38														.35			
Roswell, N. Mex.	21			1.25														.55			
Sacramento, Cal.	29			0.29														.16			
Saginaw, Mich.	16			1.22														.33			
St. Joseph, Mo.	8	4.16 p.m.	4.36 p.m.	0.32	4.16 p.m.	4.21 p.m.	.00	.30													
St. Louis, Mo.	8	11.38 a.m.	6.40 p.m.	1.33	1.00 p.m.	1.32 p.m.	.27	.09	.26	.36	.44	.51	.60	.64							
St. Paul, Minn.	10	1.15 a.m.	4.00 a.m.	0.57	1.18 a.m.	1.30 a.m.	.02	.07	.29	.36											
Salt Lake City, Utah	9			0.71														.17			
San Antonio, Tex.	23	1.40 a.m.	11.30 a.m.	4.62	7.06 a.m.		.24	.07	.27	.46	.60	.67	.70	.75	.78	.87	.95				
								1.02	1.05	1.12	1.16	1.18	1.31	1.45	1.47	1.50	1.52				
								1.55	1.62	1.67	1.72	1.78	1.91	2.25	2.42	2.67	2.75				
						10.23 a.m.		2.83	2.98	3.20	3.51	3.60	3.67	3.77	3.99	4.08	4.14				
San Diego, Cal.	3			0.55														.14			
Sand Key, Fla.	1	6.40 p.m.	9.37 p.m.	2.24	7.47 p.m.	8.47 p.m.	.32	.16	.22	.33	.54	.88	1.12	1.23	1.33	1.49	1.66	1.80			
	3	1.21 a.m.	5.55 p.m.	3.19	2.36 a.m.	2.51 a.m.	.04	.08	.40	.66											
					5.49 a.m.	6.49 a.m.	.91	.23	.60	.84	.94	1.00	1.09	1.31	1.43	1.50	1.58	1.79			
	17	4.00 a.m.	12.00 m.	2.18	4.48 a.m.	5.30 a.m.	.03	.07	.22	.47	.79	.97	1.16	1.39	1.54	1.57					
Sandusky, Ohio	8			0.29														.17			
San Francisco, Cal.	17			0.25														.08			
San Jose, Cal.	17			0.36														.22			
San Luis Obispo, Cal.	29			0.04														.03			
Santa Fe, N. Mex.	4			0.37														.29			
Sault Ste. Marie, Mich.	10			0.65														.24			
Savannah, Ga.	2	D.N.a.m.	5.15 p.m.	2.80	10.34 a.m.	11.45 a.m.	.52	.05	.12	.16	.21	.30	.41	.55	.60	.73	.83	.98	1.18		
	6	10.21 a.m.	1.20 p.m.	2.13	11.47 a.m.	12.28 p.m.	.07	.05	.22	.48	.63	.79	1.29	1.73	1.93	2.03					
		3.40 p.m.	5.15 p.m.	1.56	3.51 p.m.	4.31 p.m.	.01	.63	.99	1.16	1.22	1.27	1.32	1.45	1.52						
Scranton, Pa.	16			0.66														.11			
Seattle, Wash.	30			0.60														.29			
Sheridan, Wyo.	3			0.34														.14			
Shreveport, La.	19			0.12														.07			
Sioux City, Iowa	6	6.45 p.m.	8.30 p.m.	0.63	7.45 p.m.	7.55 p.m.	.07	.26	.55												
	9	7.05 p.m.	8.00 p.m.	0.95	7.16 p.m.	7.36 p.m.	.01	.19	.54	.82	.91										
Spokane, Wash.	30			0.13														.12			
Springfield, Ill.	16			0.72														.33			
Springfield, Mo.	12			0.78														(*)			
Syracuse, N. Y.	16			0.66														.18			
Tacoma, Wash.	9			0.51														.17			
Tampa, Fla.	15	8.05 a.m.	12.25 p.m.	0.85	11.07 a.m.	11.39 a.m.	.10	.05	.10	.12	.27	.35	.61	.73							
	26	6.20 p.m.	10.30 p.m.	2.06	7.20 p.m.	8.14 p.m.	.09	.12	.16	.31	.52	.65	.73	.81	.98	1.12	1.23	1.30			
Tatoosh Island, Wash.	18	5.13 a.m.	12.50 p.m.	1.47	10.33 a.m.	10.56 a.m.	.20	.19	.38	.61	.88	1.00									
Taylor, Tex.	23	12.50 p.m.	4.05 p.m.	1.63	1.28 p.m.	2.49 p.m.	.01	.20	.42	.51	.64	.80	.89	.95	1.00	1.09	1.12	1.28	1.51	1.57	
Terre Haute, Ind.	10	D.N.a.m.	6.38 a.m.	1.17	2.44 a.m.	3.05 a.m.	.27	.11	.15	.17	.44	.47									
Thomasville, Ga.	4			0.49														.47			
Toledo, Ohio	10			0.75														.24			
Tonopah, Nev.				(‡)																	
Topeka, Kans.	6			0.64														.62			
Valentine, Nebr.	11	9.45 a.m.	11.35 a.m.	0.59	10.47 a.m.	11.02 a.m.	0.14	.17	.31	.36											
Vicksburg, Miss.	2			0.68														.47			
Walla Walla, Wash.	10			0.45														.30			

TABLE. II.—*Accumulated amounts of precipitation for each five minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes, or 0.80 in one hour, during October, 1914, 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.
Washington, D. C.	16			1.09														0.46			
Wichita, Kans.	4			0.37														.32			
Williston, N. Dak.	4			0.23														.08			
Wilmington, N. C.	23-24	9.40 a. m.	D. N. a. m.	2.50	11.45 a. m.	12.19 p. m.	0.30	0.11	0.22	0.34	0.47	0.75	1.02	1.08							
Winnemucca, Nev.	20			0.27														.09			
Wytheville, Va.	15			1.27														.33			
Yankton, S. Dak.	4			0.34														.19			
Yellowstone Park, Wyo.	2-3			0.48														(*)			

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

TABLE III.—*Data furnished by the Canadian Meteorological Service, October, 1914.*

Stations.	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.
	Inches.	*Inches.*	*Inches.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F.	29.74	29.88	−.03	42.4	− 3.0	49.2	35.7	66	24	5.65	+0.30	
Sydney, C. B. I.	29.95	29.99	+.03	46.7	+ 0.2	55.2	38.2	69	30	1.44	−3.25	
Halifax, N. S.	29.93	30.04	+.04	47.2	0.0	58.7	35.7	71	21	1.97	−3.58	
Yarmouth, N. S.	29.99	30.06	+.04	48.6	+ 1.0	55.4	41.9	67	30	2.79	−1.91	
Charlottetown, P. E. I.	29.96	30.00	+.04	47.6	+ 1.1	54.8	40.3	69	28	3.27	−1.63	T.
Chatham, N. B.	29.99	30.01	+.05	46.2	+ 3.2	55.7	36.8	78	18	3.49	−0.37	4.0
Father Point, Que.	29.96	29.98	+.03	40.8	+ 1.0	47.4	34.3	57	26	3.50	+0.60	2.3
Quebec, Que.	29.71	30.03	+.03	44.8	+ 2.4	51.9	37.7	68	23	5.17	+2.02	3.0
Montreal, Que.	29.85	30.06	+.05	49.0	+ 4.2	56.0	42.0	71	24	2.39	−0.74	0.6
Stonecliffe, Ont.	29.45	30.06	+.05	46.6	+ 3.8	57.8	35.5	78	20	2.19	−0.24	0.6
Ottawa, Ont.	29.80	30.13	+.12	48.7	+ 4.9	56.9	40.6	76	24	2.44	−0.11	0.6
Kingston, Ont.	29.77	30.08	+.05	51.2	+ 4.2	58.5	44.0	71	22	1.52	−1.21	T.
Toronto, Ont.	29.67	30.05	+.01	52.8	+ 6.2	61.4	44.1	79	26	1.53	+0.83	T.
White River, Ont.	28.71	30.04	+.06	41.8	+ 4.7	54.3	29.2	74	2	1.96	−0.39	1.0
Port Stanley, Ont.	29.41	30.05	.00	52.0	+ 4.2	60.3	43.6	70	23	1.86	−1.12	0.1
Southampton, Ont.	29.36			52.5	+ 6.4	61.2	43.8	74	25	2.39	−0.78	1.2
Parry Sound, Ont.	29.38	30.08	+.07	49.6	+ 5.7	58.9	40.3	75	18	2.37	−1.55	
Port Arthur, Ont.	29.32	30.03	+.05	46.5	+ 6.6	55.0	38.0	69	21	1.35	−1.21	T.
Winnipeg, Man.	29.13	29.96	−.02	51.0	+11.9	61.6	40.4	85	17	2.22	+0.52	
Minnedosa, Man.	28.14	29.96	−.01	47.8	+10.0	58.2	37.4	82	18	1.44	+0.24	T.
Qu'Appelle, Sask.	27.66	29.90	−.07	46.2	+ 6.8	56.6	35.9	77	9	1.43	+0.33	2.0
Medicine Hat, Alberta	27.64	29.93	−.04	47.8	+ 3.0	58.0	37.5	80	28	3.48	+2.90	
Swift Current, Sask.	27.34	29.91	−.06	45.9	+ 3.8	56.7	35.1	81	26	2.49	+1.61	2.0
Calgary, Alberta	26.36	29.90	−.05	44.6	+ 4.5	55.8	33.3	76	22	1.82	+1.34	18.2
Banff, Alberta	25.35	29.96	+.01	41.4	+ 2.1	50.6	32.1	67	22	1.69	+0.67	1.8
Edmonton, Alberta	27.60	29.90	−.03	43.3	+ 2.2	54.6	32.1	68	23	1.07	+0.37	
Prince Albert, Sask.	28.36	29.93	−.04	41.0	+ 3.9	48.5	33.6	64	17	1.37	+0.54	
Battleford, Sask.	28.20	29.94	−.03	46.2	+ 6.6	56.7	35.6	75	24	2.26	+1.81	
Kamloops, B. C.	28.70	29.92	−.04	49.9	+ 2.9	58.4	41.5	68	29	0.79	+0.18	
Victoria, B. C.	29.66	29.91	−.10	52.7	+ 3.5	58.0	47.5	67	42	2.58	+0.21	
Barkerville, B. C.	25.58	29.86	−.08	41.7	+ 2.0	50.8	32.6	59	21	2.19	−0.51	
Hamilton, Bermuda	29.92	30.08	+.06	72.4	− 0.6	78.2	66.7	80	61	4.08	−2.63	

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