DESCRIPTION OF TABLES AND CHARTS.

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

Table II gives a record of precipitation, the intensity of which at some period of the storm's continuance equaled or exceeded the following rates:

Duration (minutes).....	5	10	15	20	25	30	35	40	45	50	60
Rates per hour (inches).....	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

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

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

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

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

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

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

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

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

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

TABLE I.—*Climatological data for United States Weather Bureau stations, April, 1915.*

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.							**47.8**	**+ 4.2**										**73**	**1.99**	**− 1.1**										**6.0**		
Eastport	76	67	85	29.94	30.03	+0.10	39.6	+ 1.3	67	20	45	27	4	34	33	37	34	80	3.58	+ 0.6	17	7,952	s.	42	ne.	2	3	10	17	7.6	11.6	....
Greenville	1,070	6	....	28.84	30.02	.....	40.8	.....	72	26	50	15	3	31	38	....	....	....	3.49	.....	11	.....	.....	.....	.....	.....	.....	.....	.....	.....	3.0	....
Portland, Me.	103	82	117	29.92	30.04	+ .08	45.8	+ 2.8	68	26	54	29	3	38	30	40	34	68	3.43	+ 0.3	12	7,242	n.	33	ne.	4	7	5	18	6.8	8.6	....
Concord	288	70	79	29.71	30.03	+ .04	48.4	+ 4.6	85	26	60	24	5	37	45	....	....	....	2.62	− 0.2	8	4,399	nw.	28	ne.	3	11	10	9	4.9	3.3	....
Burlington	404	11	48	29.59	30.03	+ .04	48.3	+ 7.6	82	26	58	24	3	38	35	....	....	....	0.73	− 1.1	9	8,297	n.	39	s.	28	7	10	13	5.8	0.9	....
Northfield	876	12	60	29.08	30.04	+ .05	45.5	+ 5.3	82	26	58	19	5	33	39	40	35	71	1.06	− 1.0	11	6,246	s.	34	sw.	12	9	7	14	6.3	1.4	....
Boston	125	115	188	29.88	30.02	+ .05	50.8	+ 5.5	84	26	59	30	3	42	42	44	39	70	1.86	− 1.7	6	7,699	nw.	36	ne.	3	10	8	12	5.8	6.1	....
Nantucket	12	14	90	30.00	30.01	+ .04	45.5	+ 1.3	74	20	52	34	4	39	32	42	40	87	1.72	− 0.9	10	11,800	sw.	79	ne.	3	10	10	10	6.0	T.	....
Block Island	26	11	46	29.98	30.01	+ .03	47.0	+ 3.2	78	27	53	30	4	41	34	44	42	88	1.83	− 1.8	10	11,569	sw.	65	ne.	3	10	8	12	5.7	2.6	....
Narragansett	....	9	....	.....	.....	.....	47.4	.....	86	27	56	29	5	39	38	....	....	....	1.54	.....	9	.....	s.	.....	.....	.....	15	5	10	7.5	.....	....
Providence	160	215	251	29.84	30.02	+ .04	50.4	+ 3.8	86	27	60	30	3	41	43	43	37	68	1.58	− 2.2	7	9,655	nw.	46	ne.	3	10	14	6	5.2	4.6	....
Hartford	159	122	140	29.85	30.03	+ .04	52.3	+ 5.6	90	27	63	28	3	42	41	44	37	62	1.58	− 2.0	7	6,118	s.	31	sw.	12	8	14	8	5.4	7.5	....
New Haven	106	117	155	29.92	30.03	+ .04	51.8	+ 5.4	91	27	62	29	3	42	40	44	37	65	1.86	− 1.7	9	6,824	n.	42	n.	3	9	12	9	5.2	8.0	....
Middle Atlantic States.							**55.7**	**+ 5.2**										**65**	**1.90**	**− 1.2**										**4.7**		
Albany	97	102	115	29.92	30.03	+ .03	52.7	+ 6.9	91	27	63	28	5	42	35	46	40	67	2.15	− 0.2	7	6,627	s.	31	s.	22	12	8	10	4.9	1.3	....
Binghamton	871	10	69	29.12	30.06	+ .04	51.4	+ 7.0	88	27	63	25	5	40	39	....	....	....	1.75	− 0.5	8	2,631	nw.	25	nw.	27	10	8	12	5.7	T.	....
New York	314	414	454	29.69	30.02	+ .02	53.4	+ 5.3	91	27	63	28	3	44	42	45	38	62	2.10	− 1.2	11	11,959	nw.	70	sw.	11	7	14	9	5.7	10.2	....
Harrisburg	374	94	104	29.66	30.06	+ .04	57.0	+ 6.3	93	25	68	32	2	46	34	47	39	57	2.13	− 0.4	8	4,665	n.	42	sw.	10	12	10	8	4.7	T.	....
Philadelphia	117	123	190	29.93	30.05	+ .04	57.3	+ 6.5	93	27	68	30	3	47	39	49	42	61	4.23	+ 1.3	11	7,901	nw.	46	ne.	3	11	14	5	4.9	19.4	....
Reading	325	81	98	29.70	30.06	.....	56.4	.....	94	25	68	30	3	45	40	47	39	59	2.61	− 0.6	10	5,196	nw.	32	nw.	27	10	10	10	5.6	4.8	....
Scranton	805	111	119	29.13	30.06	+ .05	53.9	+ 6.8	88	25	64	29	3	43	36	46	41	67	1.65	− 1.0	8	4,807	nw.	32	nw.	27	9	12	9	5.5	T.	....
Atlantic City	52	37	48	29.99	30.05	+ .05	51.8	+ 4.2	85	27	60	30	3	44	33	46	42	76	2.17	− 0.8	9	6,016	sw.	49	ne.	3	7	13	10	6.0	6.0	....
Cape May	18	13	49	30.05	30.07	+ .08	53.0	+ 4.6	83	27	61	31	3	45	25	....	....	....	1.90	− 1.1	8	6,488	s.	32	nw.	4	11	15	4	4.9	8.8	....
Sandy Hook	22	10	57	30.02	30.04	.....	51.8	.....	89	27	60	31	3	44	40	49	48	93	2.00	.....	10	10,643	nw.	66	s.	11	9	12	9	5.4	5.5	....
Trenton	190	159	183	29.83	30.04	.....	54.9	.....	93	27	66	29	3	44	40	47	41	66	3.04	− 0.2	10	8,343	nw.	52	ne.	3	10	13	7	5.2	16.0	....
Baltimore	123	100	113	29.93	30.06	+ .05	59.2	+ 6.2	89	25	69	32	3	49	30	50	41	57	1.37	− 1.9	8	5,722	n.	35	n.	20	15	10	5	4.1	4.5	....
Washington	112	62	85	29.93	30.05	+ .03	59.4	+ 6.3	95	27	72	32	3	47	36	49	41	56	0.90	− 2.4	7	5,399	nw.	29	ne.	3	11	13	6	4.4	3.5	....
Lynchburg	681	153	188	29.31	30.05	+ .03	59.8	+ 4.2	93	27	73	30	2	46	40	51	45	64	0.87	− 2.3	4	5,534	n.	35	ne.	2	13	14	3	4.1	2.3	....
Norfolk	91	170	205	29.97	30.06	+ .05	60.2	+ 4.2	93	27	70	32	3	50	33	51	45	65	0.91	− 2.9	4	10,493	sw.	62	ne.	3	19	6	5	3.3	T.	....
Richmond	144	11	52	29.91	30.07	+ .07	59.9	+ 2.7	96	27	72	31	1	48	37	51	44	62	1.68	− 1.8	5	6,202	sw.	39	sw.	11	17	11	2	3.1	10.0	....
Wytheville	2,293	40	47	27.71	30.09	+ .06	53.5	+ 1.5	87	27	67	24	2	40	38	46	40	67	1.02	− 2.6	9	3,542	w.	26	nw.	4	18	6	6	3.2	0.5	....
South Atlantic States.							**62.7**	**+ 1.4**										**69**	**1.59**	**− 1.8**										**3.4**		
Asheville	2,255	70	84	27.74	30.10	+ .07	56.4	+ 2.5	86	27	69	25	4	44	37	47	40	61	1.09	− 3.0	9	5,138	nw.	36	e.	21	16	9	5	3.8	0.3	....
Charlotte	773	68	76	29.24	30.08	+ .05	61.8	+ 2.6	92	26	74	31	4	50	32	51	43	57	0.63	− 2.8	5	4,956	ne.	34	w.	11	15	10	5	4.0	0.6	....
Hatteras	11	12	50	30.05	30.06	+ .05	59.2	+ 1.2	79	28	65	38	3	53	22	54	51	80	3.99	− 0.4	4	10,956	sw.	50	ne.	3	11	13	6	4.5	.....	....
Manteo	12	4	46	.....	.....	.....	58.2	.....	92	27	69	30	5	47	....	....	....	....	3.19	− 1.4	5	.....	sw.	48	ne.	3	24	3	3	.....	.....	....
Raleigh	376	103	110	29.67	30.07	+ .04	61.8	+ 2.8	92	26	73	31	4	50	33	52	44	59	2.26	− 1.2	4	5,874	sw.	35	n.	7	19	8	3	3.2	10.0	....
Wilmington	78	81	91	30.01	30.09	+ .06	61.8	+ 1.4	86	28	72	33	1	52	32	54	51	76	1.85	− 1.0	4	5,984	sw.	42	ne.	2	17	11	2	3.1	T.	....
Charleston	48	11	92	30.04	30.09	+ .06	63.3	− 0.5	84	30	71	37	1	56	24	57	53	77	1.13	− 1.9	4	7,087	s.	40	ne.	2	23	4	3	2.3	.....	....
Columbia, S. C.	351	41	57	29.70	30.08	+ .05	64.8	+ 2.0	90	30	77	32	4	53	31	53	46	59	1.22	− 1.6	3	4,918	s.	33	sw.	11	21	5	4	3.2	T.	....
Augusta	180	89	97	29.89	30.08	+ .05	65.8	+ 2.6	90	30	78	33	4	54	34	55	49	61	0.65	− 2.8	2	4,084	se.	24	sw.	11	19	7	4	3.2	.....	....
Savannah	65	150	194	30.02	30.09	+ .06	64.8	+ 0.1	91	30	74	37	2	56	28	58	55	82	0.98	− 2.0	3	8,551	s.	34	n.	2	20	6	4	3.0	.....	....
Jacksonville	43	96	129	30.04	30.09	+ .05	66.9	− 0.7	89	30	76	41	4	58	27	60	57	81	0.49	− 2.2	2	.....	se.	....	.....	....	19	8	3	3.2	.....	....
Florida Peninsula.							**70.1**	**− 3.3**										**72**	**1.34**	**− 0.6**										**3.6**		
Key West	22	10	64	30.01	30.03	+0.01	72.2	− 3.3	82	26	77	56	3	67	14	65	61	71	1.52	+ 0.2	4	9,189	e.	46	nw.	3	21	6	3	2.7	.....	....
Miami	25	71	79	30.02	30.05	+ .03	69.5	− 4.7	81	18	75	45	4	64	22	63	59	70	1.32	− 1.3	6	8,660	e.	32	nw.	3	7	16	7	5.3	.....	....
Sand Key	23	39	72	29.98	30.01	− .01	71.0	.....	82	19	73	58	4	69	13	66	63	75	1.82	.....	6	13,590	e.	50	nw.	3	20	7	3	3.0	.....	....
Tampa	35	79	96	30.04	30.07	+ .01	68.6	− 2.0	86	21	78	43	5	59	28	60	56	70	1.18	− 0.7	5	5,181	ne.	23	ne.	23	20	7	3	3.3	.....	....
Titusville	44	6	....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....	....	....	.....	.....	....	.....	.....	....	.....	....	....	....	....	.....	.....	....
East Gulf States.							**66.1**	**+ 1.5**										**65**	**0.54**	**− 3.5**										**3.6**		
Atlanta	1,174	190	216	28.85	30.09	+ .06	64.4	+ 3.3	88	27	75	31	4	54	28	55	48	61	0.35	− 3.3	4	7,332	nw.	34	nw.	3	21	5	4	3.2	.....	....
Macon	370	78	87	29.68	30.07	+ .04	65.6	+ 2.5	89	30	78	34	1	53	35	56	49	60	0.32	− 3.1	2	3,696	s.	28	s.	28	21	7	2	2.4	.....	....
Thomasville	273	8	57	29.78	30.08	+ .05	66.4	− 0.3	93	30	80	34	4	53	35	56	52	71	0.57	− 3.1	4	3,565	e.	15	sw.	5	18	10	2	3.1	.....	....
Pensacola	56	140	182	30.03	30.09	+ .07	66.0	− 1.7	85	17	73	40	1	59	23	59	55	75	0.06	− 3.1	2	8,349	se.	36	se.	23	11	13	6	4.5	.....	....
Anniston	741	9	57	29.32	30.11	+ .08	64.4	+ 4.0	89	29	78	29	4	51	37	....	....	....	0.07	− 3.6	2	3,765	n.	23	w.	30	22	6	2	2.5	.....	....
Birmingham	700	11	48	29.34	30.10	+ .08	66.0	+ 2.5	89	29	78	32	4	54	32	53	44	53	1.05	− 2.6	4	4,528	n.	35	s.	21	18	9	3	3.4	.....	....
Mobile	57	125	161	30.02	30.08	+ .06	66.5	+ 0.5	89	29	75	39	4	58	28	58	53	70	0.14	− 4.2	2	6,628	s.	28	nw.	3	15	11	4	3.9	.....	....
Montgomery	223	100	112	29.84	30.09	+ .06	67.3	+ 2.1	90	30	79	37	4	56	30	55	46	54	0.38	− 3.9	5	4,295	s.	30	w.	30	21	6	3	2.6	.....	....
Meridian	375	85	93	29.68	30.08	+ .03	65.0	+ 0.9	90	29	78	30	4	52	36	57	52	68	0.79	− 4.2	4	3,522	s.	22	nw.	28	14	9	7	4.5	.....	....
Vicksburg	247	65	74	29.81	30.09	+ .09	67.0	+ 1.8	90	29	77	40	4	57	29	56	49	62	2.21	− 3.0	4	4,961	se.	34	e.	29	7	12	11	5.5	.....	....
New Orleans	51	76	84	30.02	30.07	+ .07	68.8	+ 0.9	90	29	78	42	3	60	25	60	57	73	0.04	− 4.9	2	5,054	se.	23	nw.	2	12	15	3	3.8	.....	....
West Gulf States.							**66.3**	**+ 0.5**										**76**	**6.23**	**+ 2.7**										**6.4**		
Shreveport	249	77	93	29.78	30.05	+ .08	67.3	+ 1.5	88	29	77	35	3	58	28	58	51	65	6.42	+ 1.8	10	5,636	se.	30	s.	9	9	6	15	6.0	.....	....
Bentonville	1,303	11	44	28.66	30.02	+ .06	62.0	+ 5.1	85	28	72	26	3	52	33	....	....	....	3.21	− 0.7	10	3,660	s.	26	sw.	30	8	7	15	5.9	.....	....
Fort Smith	457	79	94	29.53	30.01	+ .05	65.3	+ 3.6	90	29	75	32	3	55	32	56	50	65	4.77	+ 0.9	11	5,782	e.	37	se.	22	6	9	15	6.4	.....	....
Little Rock	357	139	147	29.68	30.05	+ .07	65.5	+ 2.8	89	29	75	36	3	56	27	59	56	76	2.92	− 1.6	6	6,314	s.	33	w.	30	12	10	8	4.7	T.	....
Brownsville	57	3	40	.....	.....	.....	71.4	.....	86	29	79	39	2	64	31	....	....	....	1.04	.....	3	.....	s.	36	.....	....	....	....	....	.....	.....	....
Corpus Christi	20	69	77	29.97	29.99	+ .04	68.4	− 2.5	81	11	72	44	2	65	21	65	64	90	1.58	− 0.2	3	11,506	e.	50	se.	30	2	10	18	7.4	.....	....
Dallas	512	109	117	29.47	30.01	.....	66.4	.....	86	29	75	34	3	58	29	....	....	....	3.86	.....	11	7,171	se.	39	s.	4	4	11	15	6.8	.....	....
Fort Worth	670	106	114	29.26	29.97	+ .03	66.2	+ 0.9	86	29	76	31	3	57	35	58	52	68	4.98	+ 2.3	9	7,997	s.	36	s.	4	3	8	19	7.2	.....	....
Galveston	54	106	114	29.99	30.06	+ .09	66.1	− 2.6	77	29	70	44	2	63	13	63	61	89	3.37	+ 0.2	6	9,035	se.	61	se.	23	7	16	7	5.6	.....	....
Houston	138	111	121	29.88	30.03	.....	67.8	− 1.8	86	29	76	40	3	60	27	....	....	....	1.90	.....	9	7,416	se.	54	se.	23	5	9	16	6.4	.....	....
Palestine	510	64	72	29.48	30.02	+ .06	67.0	+ 1.1	87	29	76	38	3	58	27	59	55	75	7.22	+ 3.1	11	5,904	s.	26	s.	22	7	4	19	6.9	.....	....
San Antonio	701	109	132	29.25	29.98	+ .05	67.5	− 1.5	85	21	76	39	2	59	31	61	58	79	11.64	+ 8.7	10	6,664	s.	58	se.	18	6	11	13	6.2	.....	....
Taylor	582	55	63	29.42	30.03	+ .08	66.0	− 1.5	84	29	75	34	3	57	32	....	....	....	16.18	+12.2	14	7,248	se.	34	sw.	22	4	9	17	6.8	.....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, April, 1915*—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.							59.5	+ 4.8										60	1.20	− 2.4										4.6		
Chattanooga	762	189	213	29.29	30.10	+0.07	64.7	+ 4.7	88	26	76	32	4	53	35	52	42	50	1.72	− 2.7	3	5,705	w.	36	nw.	11	12	14	4	4.3	.....	...
Knoxville	996	93	100	29.03	30.08	+ .05	62.0	+ 4.6	89	27	74	27	4	49	36	52	44	58	1.45	− 3.2	5	3,566	ne.	30	sw.	10	12	10	8	4.6	.....	....
Memphis	399	76	97	29.67	30.10	+ .10	65.9	+ 4.1	87	29	75	33	1	57	26	56	49	60	1.67	− 3.2	6	6,146	s.	29	sw.	5	17	5	8	4.0	.....	....
Nashville	546	168	191	29.51	30.09	+ .08	63.5	+ 4.4	88	29	75	31	4	52	37	53	44	56	0.72	− 3.6	6	6,579	s.	30	n.	3	14	12	4	3.9	.....	....
Lexington	989	75	102	29.02	30.09	+ .07	59.2	+ 5.5	88	25	70	26	1	48	32	.....	.....	.....	0.65	− 2.7	6	7,336	s.	40	sw.	10	15	12	3	3.8	.....	....
Louisville	525	219	255	29.51	30.09	+ .08	61.6	+ 5.4	89	26	72	30	1	51	32	52	45	59	1.02	− 3.0	6	8,114	s.	48	sw.	10	15	8	7	4.5	.....	....
Evansville	431	72	82	29.60	30.07	+ .07	61.9	+ 5.5	89	25	72	30	3	51	33	52	44	57	0.40	− 3.1	4	4,166	s.	23	s.	10	16	8	6	4.1	.....	....
Indianapolis	822	154	164	29.19	30.08	+ .08	58.0	+ 5.6	87	25	68	29	4	48	30	49	41	58	0.99	− 2.5	10	6,906	sw.	38	sw.	11	12	10	8	4.8	T.	....
Terre Haute	575	96	129	29.44	30.06	.....	59.7	.....	86	25	70	28	3	49	31	50	43	61	1.23	.....	7	6,874	s.	28	nw.	11	7	20	3	4.9	.....	....
Cincinnati	628	11	51	29.40	30.08	+ .07	58.4	+ 4.1	89	26	69	23	1	48	34	50	44	66	0.84	− 2.1	8	5,299	ne.	36	sw.	10	11	14	5	4.5	.....	....
Columbus	824	173	222	29.21	30.09	+ .07	56.3	+ 5.3	90	25	67	22	1	46	33	48	41	62	0.95	− 1.9	9	7,687	sw.	50	w.	11	10	11	9	5.3	T.	....
Dayton	899	181	216	29.10	30.06	.....	57.2	+ 5.5	89	25	68	25	1	47	31	48	42	63	0.83	− 2.1	8	6,957	sw.	43	sw.	10	15	12	3	3.7	T.	....
Pittsburgh	842	353	410	29.16	30.07	+ .05	55.5	+ 4.5	87	26	66	26	4	45	37	46	38	56	1.27	− 1.6	12	7,718	nw.	53	w.	11	10	6	14	5.4	T.	....
Elkins	1,940	41	50	28.04	30.11	+ .08	51.8	+ 3.1	88	26	66	18	2	38	48	44	38	68	2.28	− 1.0	13	2,809	w.	26	w.	10	7	12	11	5.8	T.	....
Parkersburg	638	77	84	29.44	30.10	+ .07	57.3	+ 4.3	91	25	69	22	2	46	39	48	41	60	2.62	− 0.9	9	3,981	n.	37	nw.	20	13	6	11	4.9	.....	....
Lower Lake Region.							51.1	+ 5.9										67	0.77	− 1.6										5.2		
Buffalo	767	247	280	29.22	30.06	+ .05	46.8	+ 4.5	76	26	55	27	4	38	32	42	39	76	0.59	− 1.9	10	11,318	sw.	52	sw.	10	8	11	11	5.6	T.	....
Canton	448	10	61	29.55	30.03	.....	50.0	+ 7.5	84	25	60	27	4	40	31	.....	.....	.....	1.30	− 1.0	11	7,003	sw.	43	w.	12	13	9	8	4.5	0.6	....
Oswego	335	76	91	29.67	30.04	+ .03	47.6	+ 4.4	81	28	55	28	3	40	32	43	39	75	0.61	− 1.6	8	5,690	w.	31	ne.	3	10	8	12	5.2	T.	....
Rochester	523	97	113	29.49	30.06	+ .05	51.4	+ 7.5	86	25	60	29	4	43	32	44	38	64	1.06	− 1.4	9	6,020	w.	40	sw.	10	9	9	12	5.7	0.5	....
Syracuse	597	97	113	29.41	30.06	+ .05	51.0	+ 6.6	84	25	60	26	3	42	28	44	37	62	0.79	− 1.5	11	7,770	nw.	36	w.	11	11	8	11	5.8	0.8	....
Erie	714	130	166	29.28	30.06	+ .04	50.8	+ 5.1	81	24	59	26	4	43	31	44	38	66	0.74	− 1.7	11	8,795	sw.	60	sw.	11	10	13	7	5.4	0.5	....
Cleveland	762	190	201	29.25	30.08	+ .06	51.8	+ 5.8	84	26	59	28	3	44	31	45	39	66	0.65	− 1.7	4	8,347	ne.	48	w.	11	11	12	7	4.5	T.	....
Sandusky	629	62	103	29.38	30.07	+ .05	52.8	+ 5.5	87	27	61	25	4	44	33	46	40	66	0.35	− 2.2	8	8,454	sw.	47	w.	11	8	10	12	5.6	T.	....
Toledo	628	208	243	29.39	30.08	+ .07	53.8	+ 6.5	89	26	63	26	3	44	33	47	41	65	0.96	− 1.3	8	9,784	sw.	50	sw.	11	13	8	9	4.7	T.	....
Fort Wayne	856	113	124	29.14	30.07	.....	54.2	+ 4.9	87	26	65	25	1	44	32	47	41	64	1.58	.....	10	6,724	sw.	39	sw.	11	10	7	13	5.3	T.	....
Detroit	730	218	245	29.27	30.07	+ .07	52.2	+ 6.7	87	25	61	25	3	43	27	45	38	63	0.66	− 1.7	6	8,110	sw.	40	w.	11	15	6	9	4.9	T.	....
Upper Lake Region.							48.9	+ 8.1										71	1.03	− 1.3										5.3		
Alpena	609	13	92	29.37	30.04	+ .02	45.4	+ 7.4	88	24	54	21	3	36	42	40	36	76	0.90	− 1.3	8	7,511	se.	36	nw.	11	9	10	11	5.6	0.2	....
Escanaba	612	54	60	29.35	30.03	+ .01	43.4	+ 6.2	81	28	52	21	3	35	40	38	34	75	0.86	− 1.2	5	6,160	s.	35	nw.	29	13	4	13	4.9	T.	....
Grand Haven	632	54	92	29.36	30.05	+ .04	49.6	+ 5.6	84	26	58	24	3	41	29	43	38	70	0.67	− 1.8	8	8,569	s.	36	s.	18	15	8	7	3.9	T.	....
Grand Rapids	707	70	87	29.28	30.06	+ .04	53.8	+ 7.6	88	26	64	26	3	44	29	46	39	62	0.85	− 1.6	10	4,392	sw.	26	w.	29	8	11	11	5.9	0.4	....
Houghton	684	62	72	29.27	30.00	− .02	45.8	+ 8.9	82	25	56	19	3	35	42	.....	.....	.....	1.62	− 0.4	10	5,903	se.	37	nw.	29	8	10	12	5.7	1.5	....
Lansing	878	11	62	29.11	30.06	.....	51.6	+ 6.0	88	26	63	21	3	40	35	46	42	75	1.00	− 1.5	9	4,667	sw.	28	nw.	11	7	11	12	5.7	T.	....
Ludington	637	60	66	29.34	30.04	.....	47.2	.....	77	26	55	23	3	39	26	43	39	75	0.91	.....	8	7,754	s.	31	s.	18	10	10	10	5.6	T.	....
Marquette	734	77	111	29.22	30.03	+ .01	47.4	+ 9.9	84	25	59	20	3	36	40	42	38	73	0.99	− 1.0	9	7,778	nw.	36	nw.	28	9	9	12	6.2	1.8	....
Port Huron	638	70	120	29.36	30.06	+ .04	49.0	+ 6.8	87	26	59	21	4	39	33	43	39	71	0.76	− 1.3	9	7,487	sw.	36	w.	19	11	12	7	4.9	0.1	....
Saginaw	641	48	82	29.36	30.06	.....	51.6	.....	88	26	62	23	4	41	31	45	40	69	1.38	− 1.3	11	6,574	s.	36	nw.	11	10	12	8	5.2	T.	....
Sault Ste. Marie	614	11	61	29.34	30.05	+ .02	44.2	+ 8.5	83	24	54	20	3	34	35	38	34	73	1.38	− 0.7	12	5,765	w.	32	nw.	29	11	6	13	5.8	1.5	....
Chicago	823	140	310	29.16	30.06	+ .06	55.3	+10.4	88	26	64	30	4	48	28	48	43	66	1.02	− 1.9	7	8,584	s.	36	sw.	27	15	10	5	4.0	T.	....
Green Bay	617	109	144	29.34	30.01	.00	52.3	+11.6	85	26	62	26	3	42	31	44	39	66	1.33	− 1.1	8	8,263	s.	40	w.	28	7	15	8	6.1	.....	....
Milwaukee	681	119	133	29.29	30.04	+ .05	51.3	+ 9.5	86	28	60	27	3	42	32	44	39	70	0.46	− 2.2	6	7,000	sw.	32	sw.	27	12	11	7	4.8	T.	....
Duluth	1,133	11	47	28.78	30.01	.00	45.4	+ 7.0	81	18	55	24	2	36	33	41	37	77	1.23	− 0.9	9	8,899	ne.	52	w.	29	12	10	8	5.0	0.1	....
North Dakota.							50.8	+10.1										64	0.99	− 0.9										4.9		
Moorhead	940	8	57	28.95	29.97	− .02	51.6	+10.2	83	21	63	22	12	40	35	45	41	74	1.15	− 1.2	11	6,553	nw.	34	nw.	28	16	8	6	3.9	.....	....
Bismarck	1,674	8	57	28.18	29.97	.00	51.5	+ 8.9	88	14	65	14	1	38	45	43	34	61	1.04	− 0.8	5	8,400	nw.	41	s.	21	13	9	8	4.5	.....	....
Devils Lake	1,482	11	44	28.36	29.94	− .05	48.3	+10.1	83	21	62	14	1	35	43	40	33	65	1.10	− 0.9	8	8,508	s.	40	nw.	10	7	12	11	5.8	T.	....
Williston	1,872	40	47	27.94	29.92	− .04	51.6	+11.1	84	13	65	18	1	38	40	42	32	54	0.68	− 0.6	4	6,693	se.	40	nw.	10	10	12	8	5.3	.....	....
Upper Mississippi Valley.							58.8	+ 8.3										63	1.48	− 1.5										4.7		
Minneapolis	918	10	208	28.96	29.94	.....	56.0	.....	82	19	66	29	2	46	30	.....	.....	.....	1.87	− 0.6	11	8,794	s.	39	nw.	11	7	9	14	6.1	.....	....
St. Paul	837	201	236	29.08	29.99	.00	55.8	+10.1	82	19	65	30	3	46	29	.....	.....	.....	2.75	+ 0.4	12	9,281	s.	46	sw.	24	6	18	6	5.2	T.	....
La Crosse	714	11	48	29.24	30.01	+ .03	56.8	+ 9.5	84	28	68	24	3	46	32	.....	.....	.....	0.86	− 1.4	10	4,373	se.	30	w.	10	7	13	10	5.9	T.	....
Madison	974	70	78	28.98	30.04	+ .06	54.0	+ 9.5	84	28	64	25	3	44	32	46	38	61	0.92	− 1.5	6	7,310	s.	31	sw.	9	10	9	11	5.8	0.3	....
Charles City	1,015	10	49	28.92	30.00	+ .02	55.4	+ 9.1	82	28	67	26	3	44	34	49	45	77	2.75	− 0.1	8	5,681	se.	32	sw.	10	12	13	5	4.6	.....	....
Davenport	606	71	79	29.36	30.02	+ .04	58.5	+ 8.3	86	28	70	26	3	47	32	49	42	61	0.62	− 2.3	9	5,898	e.	26	nw.	11	15	13	2	3.6	T.	....
Des Moines	861	84	97	29.08	29.98	+ .01	59.4	+ 8.8	86	28	70	29	3	48	30	51	44	64	1.36	− 1.6	10	5,950	s.	30	sw.	23	12	9	9	5.0	T.	....
Dubuque	698	81	96	29.28	30.04	+ .06	57.7	+ 8.8	87	28	68	24	3	47	30	48	41	59	0.38	− 2.5	10	5,244	s.	26	nw.	11	9	11	10	5.4	T.	....
Keokuk	614	64	78	29.35	30.02	+ .04	60.4	+ 8.4	84	19	71	28	3	50	32	52	46	64	1.27	− 2.1	6	3,082	se.	26	sw.	27	17	10	3	3.5	.....	....
Cairo	356	87	93	29.67	30.05	+ .06	63.6	+ 5.1	87	28	73	30	1	54	32	54	47	60	1.01	− 2.6	5	6,470	s.	30	sw.	10	14	9	7	4.1	.....	....
Peoria	609	11	45	29.39	30.06	+ .07	58.8	+ 7.9	85	25	70	22	3	47	33	50	44	65	1.60	− 1.7	8	5,510	s.	29	w.	27	13	10	7	4.2	.....	....
Springfield, Ill	644	10	91	29.36	30.04	+ .06	60.0	+ 8.0	85	28	71	26	3	49	29	51	44	61	2.01	− 1.3	7	5,984	s.	26	w.	28	10	11	9	4.9	.....	....
Hannibal	534	74	109	29.47	30.04	+ .06	61.0	+ 7.4	84	25	71	30	3	51	31	.....	.....	.....	2.06	− 1.2	8	6,695	sw.	32	se.	4	11	13	6	4.3	T.	....
St. Louis	567	265	303	29.44	30.04	+ .06	63.2	+ 7.1	86	27	73	30	3	54	25	52	44	57	1.20	− 2.3	8	9,782	s.	50	s.	8	18	8	4	3.5	T.	....
Missouri Valley.							58.6	+ 8.2										67	2.45	− 0.4										4.6		
Columbia, Mo.	781	11	84	29.20	30.03	+0.05	62.0	+ 7.7	86	23	73	28	3	51	33	.....	.....	.....	2.04	− 1.7	8	5,772	se.	40	nw.	10	12	8	10	5.2	.....	....
Kansas City	963	161	181	28.97	30.00	+ .04	62.2	+ 7.9	86	28	71	31	1	53	30	52	45	60	2.33	− 1.0	9	7,677	s.	38	n.	10	11	11	8	4.8	T.	....
St. Joseph	967	11	49	28.96	30.00	.....	61.6	.....	90	28	72	29	3	51	31	52	45	64	2.05	.....	12	5,946	s.	37	nw.	10	10	11	9	4.8	.....	....
Springfield, Mo.	1,324	98	104	28.63	30.03	+ .06	61.8	+ 6.1	84	28	71	29	1	53	28	52	46	62	2.78	− 1.1	10	7,873	se.	42	nw.	29	20	7	3	2.9	T.	....
Iola	984	11	50	28.95	30.00	+ .05	61.0	+ 6.8	84	27	72	24	3	50	34	.....	.....	.....	5.56	+ 2.8	12	5,011	s.	32	s.	4	12	11	7	4.1	.....	....
Topeka	983	85	101	.....	.....	.....	61.0	+ 7.3	89	28	72	29	3	50	34	.....	.....	.....	3.10	+ 0.4	11	6,980	s.	36	s.	26	11	10	9	4.7	.....	....
Lincoln	1,189	11	84	28.70	29.96	+ .02	59.3	+ 8.6	90	28	70	25	1	48	34	50	45	68	1.37	− 1.4	10	7,410	s.	42	nw.	10	13	11	6	4.3	.....	....
Omaha	1,105	115	121	28.80	29.98	+ .03	60.0	+ 9.5	88	28	70	26	1	50	30	52	46	67	0.81	− 2.2	10	5,698	nw.	31	nw.	10	15	8	7	4.6	.....	....
Valentine	2,598	47	54	27.24	29.95	+ .01	52.2	+ 6.8	82	27	64	14	2	40	45	46	41	74	3.46	+ 1.1	9	7,896	w.	40	sw.	17	6	15	9	6.0	.....	....
Sioux City	1,135	94	164	28.76	29.97	+ .02	58.1	+ 9.6	84	28	69	24	1	47	32	50	44	66	1.16	− 1.6	13	9,314	s.	42	nw.	10	15	10	5	4.0	.....	....
Huron	1,306	59	74	28.57	29.98	+ .02	54.4	+ 9.8	83	14	66	18	1	42	36	48	44	74	1.80	− 0.8	9	8,355	se.	40	nw.	10	11	14	5	4.4	.....	....
Pierre	1,572	70	75	28.29	29.96	+ .01	54.8	+ 8.3	86	17	66	15	1	44	35	46	39	64	2.63	+ 0.6	7	7,449	se.	48	nw.	10	11	11	8	4.9	.....	....
Yankton	1,233	49	57	28.65	29.96	+ .01	56.9	+ 9.5	83	22	68	20	1	46	33	.....	.....	.....	2.37	− 0.4	8	6,305	w.	29	s.	23	10	12	8	5.4	.....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, April, 1915*—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.
Northern Slope.							**51.3**	**+ 8.5**										**62**	**2.10**	**+ 0.5**										**5.2**		
Havre	2,505	11	44	27.26	29.87	−0.06	53.6	+10.9	82	29	68	28	1	39	45	45	36	59	0.24	− 0.8	2	6,562	e.	38	se.	30	16	12	2	3.6	....	....
Helena	4,110	87	114	25.73	29.90	− .07	51.8	+ 9.8	77	28	63	32	5	41	35	42	34	57	0.93	− 0.2	7	5,952	sw.	45	sw.	13	9	14	7	5.2	0.1	....
Kalispell	2,962	11	34	26.86	29.89	− .07	49.2	+ 6.7	80	29	62	26	9	36	38	41	35	64	1.16	+ 0.1	10	3,430	w.	22	sw.	20	8	16	6	5.0	....	....
Miles City	2,371	26	48	27.40	29.94	− .02	56.8	+12.1	89	13	70	28	11	44	38	46	37	57	0.68	− 0.5	2	4,525	n.	30	nw.	10	9	16	5	4.4	....	....
Rapid City	3,259	50	58	26.55	29.96	+ .01	52.8	+ 9.3	80	14	63	27	2	42	40	44	36	57	2.81	+ 0.5	12	6,712	n.	37	n.	10	8	12	10	6.0	T.	....
Cheyenne	6,088	84	101	23.96	29.92	+ .01	46.0	+ 4.4	70	27	56	26	1	36	36	39	34	71	3.29	+ 1.4	12	8,492	nw.	44	nw.	4	3	15	12	6.9	T.	....
Lander	5,372	60	68	24.58	29.90	− .04	51.1	+ 8.9	77	28	64	31	2	39	42	41	34	54	1.39	− 1.1	11	3,755	sw.	27	w.	29	6	14	10	5.7	....	....
Sheridan	3,790	10	47	26.04	29.92	.....	52.0	.....	84	29	65	27	11	39	46	44	36	62	1.79	.....	10	5,104	se.	34	se.	29	7	12	11	5.5	....	....
Yellowstone Park	6,200	11	48	23.82	29.91	− .05	45.0	+ 8.0	71	28	57	23	9	33	36	37	32	67	1.29	− 0.1	12	4,535	s.	29	sw.	20	7	16	7	5.4	T.	....
North Platte	2,821	11	51	27.05	29.97	+ .05	55.0	+ 6.0	83	27	67	26	2	43	45	47	41	70	7.10	+ 5.0	10	6,026	s.	38	n.	10	14	8	8	4.8	T.	....
Middle Slope.							**57.8**	**+ 4.1**										**67**	**3.71**	**+ 1.5**										**5.6**		
Denver	5,291	129	172	24.67	29.90	.00	51.4	+ 3.7	77	27	62	28	1	41	34	44	38	66	3.66	+ 1.5	11	5,732	sw.	40	nw.	4	5	14	11	6.4	T.	....
Pueblo	4,685	80	86	25.22	29.89	+ .01	53.4	+ 2.9	80	27	66	26	1	41	39	43	35	59	3.07	+ 1.6	11	4,442	nw.	34	nw.	4	6	14	10	6.2	T.	....
Concordia	1,398	42	50	28.50	29.97	+ .04	59.6	+ 6.0	91	28	71	27	2	49	35	52	47	70	2.47	0.0	5	5,684	s.	23	s.	4	7	12	11	6.0	....	....
Dodge	2,509	11	51	27.35	29.94	+ .04	58.8	+ 4.4	89	28	71	29	2	47	35	50	44	69	2.28	+ 0.4	9	8,211	s.	34	s.	13	11	13	6	4.9	T.	....
Wichita	1,358	139	158	28.52	29.94	+ .01	60.8	+ 4.2	83	27	70	29	2	51	34	53	47	68	3.29	+ 0.6	8	9,506	s.	47	nw.	4	14	6	10	4.7	....	....
Oklahoma	1,214	10	47	28.70	29.97	+ .05	63.0	+ 3.4	85	29	72	31	3	54	32	54	49	68	7.50	+ 4.7	8	10,577	s.	46	s.	4	7	18	5	5.4	....	....
Southern Slope.							**61.6**	**− 0.8**										**67**	**5.64**	**+ 4.0**										**5.5**		
Abilene	1,738	10	52	28.15	29.95	+ .05	64.0	− 0.4	85	21	75	32	2	53	36	56	50	68	8.06	+ 5.8	13	7,965	se.	40	sw.	4	5	14	11	6.2	....	....
Amarillo	3,676	10	49	26.21	29.92	+ .05	57.0	+ 2.4	88	28	69	29	1	45	38	40	44	71	5.05	+ 3.3	15	7,997	s.	46	sw.	6	13	11	6	4.4	1.7	....
Del Rio	944	64	71	28.94	29.92	+ .03	67.2	− 2.8	86	9	75	40	2	60	30	....	....	....	3.39	+ 1.4	15	7,761	se.	38	nw.	25	9	9	12	6.0	....	....
Roswell	3,566	75	85	26.29	29.88	+ .03	58.0	− 2.6	83	27	71	29	2	45	45	48	40	61	6.04	+ 5.6	13	5,899	s.	60	se.	16	6	17	7	5.3	T.	....
Southern Plateau.							**57.0**	**− 0.8**										**49**	**1.28**	**+ 0.9**										**3.8**		
El Paso	3,762	110	133	26.11	29.83	.00	62.7	− 1.1	85	27	75	39	1	50	34	48	34	42	0.20	0.0	5	9,087	w.	48	nw.	24	12	15	3	3.7	....	....
Santa Fe	7,013	57	62	23.19	29.87	+ .03	47.7	+ 0.1	71	28	58	31	1	37	30	39	31	62	4.82	+ 4.0	14	4,787	sw.	48	s.	29	4	18	8	5.9	1.9	....
Flagstaff	6,908	8	57	23.26	29.82	− .02	42.4	+ 0.2	66	11	55	20	15	30	41	....	....	....	3.60	.....	11	.....	sw.	39	sw.	5	7	17	6	....	19.5	14.0
Phoenix	1,108	76	81	28.60	29.84	− .03	66.4	− 0.2	91	12	79	44	30	53	34	53	41	46	0.88	+ 0.4	5	4,022	e.	33	w.	30	15	9	6	3.7	....	....
Yuma	141	9	58	29.69	29.84	− .05	69.0	− 1.1	97	12	84	47	30	54	44	55	43	46	0.08	0.0	1	4,545	w.	31	nw.	13	26	3	1	1.0	....	....
Independence	3,910	11	42	25.85	29.80	− .10	53.8	− 2.9	80	17	67	31	30	40	38	....	....	....	0.44	+ 0.3	4	5,735	se.	32	nw.	4	11	14	5	4.8	....	....
Middle Plateau.							**52.3**	**+ 3.4**										**56**	**1.93**	**+ 0.8**										**5.7**		
Reno	4,532	74	81	25.38	29.88	−0.09	50.1	+ 2.8	77	16	63	26	30	37	40	40	30	55	0.33	− 0.3	7	5,506	w.	36	se.	28	9	8	13	5.7	0.2	0.2
Tonopah	6,090	12	20	23.95	29.84	.....	46.6	.....	70	12	56	19	30	38	30	39	30	59	3.26	+ 1.6	11	7,352	se.	35	nw.	14	12	8	10	5.5	21.5	14.0
Winnemucca	4,344	18	56	25.52	29.88	− .08	50.4	+ 3.3	79	28	64	26	30	36	43	41	33	60	2.33	+ 1.4	11	4,687	ne.	31	s.	20	9	8	13	5.7	5.0	1.2
Modena	5,479	10	43	24.52	29.84	− .04	48.2	+ 1.3	72	12	62	26	30	34	42	38	28	55	2.38	+ 1.6	13	7,797	sw.	56	s.	21	7	7	16	6.4	1.6	T.
Salt Lake City	4,360	147	189	25.51	29.84	− .08	56.4	+ 6.3	83	28	67	33	30	46	30	45	37	54	1.88	− 0.4	8	5,864	se.	56	nw.	3	9	12	9	5.3	....	....
Grand Junction	4,602	82	96	25.28	29.83	− .05	56.4	+ 3.2	79	28	68	34	1	45	33	44	33	50	1.41	+ 0.6	11	5,741	se.	42	se.	13	8	15	7	5.4	....	....
Northern Plateau.							**53.9**	**+ 5.0**										**55**	**1.62**	**+ 0.2**										**5.5**		
Baker	3,471	48	53	26.39	29.97	− .03	49.4	+ 5.9	81	28	63	28	30	36	43	40	30	54	1.59	+ 0.6	6	5,048	n.	22	nw.	14	9	13	8	5.2	1.4	T.
Boise	2,739	78	86	27.07	29.91	− .07	55.3	+ 5.2	84	28	68	32	30	43	40	45	34	51	1.05	− 0.1	9	4,013	nw.	34	se.	29	10	4	16	6.2	1.8	T.
Lewiston	757	40	48	29.14	29.95	− .04	56.8	+ 3.9	87	28	69	35	9	44	43	....	....	....	1.75	+ 0.6	12	2,265	e.	28	nw.	20	10	7	13	5.6	....	....
Pocatello	4,477	46	54	25.38	29.86	− .08	52.4	+ 5.6	78	28	65	33	24	40	36	43	34	56	1.51	− 0.5	9	5,210	se.	30	sw.	13	9	12	9	5.6	....	....
Spokane	1,929	101	110	27.90	29.94	− .05	52.8	+ 5.1	78	18	64	31	9	41	35	44	36	59	1.46	+ 0.2	9	4,281	sw.	26	s.	2	8	12	10	5.8	T.	....
Walla Walla	1,000	57	65	28.86	29.94	− .07	56.9	+ 4.1	82	19	68	36	29	46	33	48	38	55	2.35	+ 0.6	11	3,414	s.	20	w.	2	13	11	6	4.7	T.	....
North Pacific Coast Region.							**51.6**	**+ 3.2**										**77**	**2.70**	**− 0.6**										**5.3**		
North Head	211	11	56	29.82	30.05	.00	49.8	+ 2.3	72	15	53	42	30	47	22	48	46	88	2.58	− 0.6	10	13,222	nw.	68	nw.	29	10	8	12	5.8	....	....
Port Crescent	259	8	53	29.75	30.03	+ .01	46.6	+ 1.9	66	15	55	30	21	38	32	....	....	....	1.44	− 1.1	8	3,789	s.	15	n.	30	7	16	7	5.4	....	....
Seattle	125	215	250	29.90	30.03	.00	52.6	+ 3.2	74	16	60	37	30	45	26	49	46	79	2.91	+ 0.2	10	5,730	se.	40	sw.	7	7	10	13	6.0	....	....
Tacoma	213	113	120	29.80	30.03	.00	52.3	+ 3.4	75	16	61	35	30	44	29	47	42	71	2.65	− 0.1	9	3,775	n.	28	sw.	12	8	12	10	5.6	....	....
Tatoosh Island	109	7	57	29.91	30.01	+ .01	49.8	+ 3.7	61	15	54	41	7	46	15	47	44	84	5.92	− 0.4	11	10,679	s.	79	sw.	7	12	5	13	5.3	....	....
Portland, Oreg.	153	68	106	29.85	30.00	− .06	55.6	+ 4.4	82	16	66	37	21	46	32	49	44	69	2.03	− 1.0	13	4,248	nw.	32	nw.	29	12	11	7	4.4	....	....
Roseburg	510	9	57	29.46	30.02	− .05	54.4	+ 3.5	83	16	66	34	14	42	43	48	42	70	1.38	− 1.1	12	2,234	n.	20	n.	29	10	16	4	4.5	....	....
Middle Pacific Coast Region.							**55.1**	**+ 1.6**										**73**	**1.06**	**− 1.0**										**5.3**		
Eureka	62	73	89	29.98	30.05	− .06	52.3	+ 2.8	69	1	57	42	14	48	18	49	46	81	1.38	− 2.6	8	6,573	n.	58	n.	29	7	8	15	6.6	....	....
Mount Tamalpais	2,375	11	18	27.50	29.98	− .07	49.2	− 0.3	68	15	55	34	30	44	20	44	40	74	1.09	− 0.3	11	12,684	nw.	68	nw.	4	9	6	15	5.8	....	....
Point Reyes Light	490	7	18	29.43	29.94	.....	52.3	+ 3.7	67	1	56	42	30	49	17	....	....	....	1.11	.....	7	18,381	nw.	110	nw.	29	7	6	17	6.4	....	....
Red Bluff	332	50	56	29.58	29.94	− .09	59.8	+ 0.7	86	15	69	40	30	50	31	52	46	67	1.71	− 0.1	6	4,054	nw.	35	nw.	14	11	8	11	5.2	....	....
Sacramento	69	106	117	29.88	29.94	− .07	58.3	+ 0.3	80	15	67	44	24	50	25	52	46	68	0.50	− 1.5	5	6,350	s.	37	nw.	29	12	14	4	4.9	....	....
San Francisco	155	209	213	29.82	29.98	− .07	57.1	+ 3.4	74	9	63	48	30	52	22	51	47	74	0.62	− 1.2	6	6,263	sw.	34	nw.	29	10	12	8	5.5	....	....
San Jose	141	12	110	29.85	30.00	.....	57.0	+ 0.3	77	15	66	42	8	48	33	....	....	....	1.07	− 0.3	8	4,427	nw.	44	w.	29	7	12	11	5.9	....	....
South Pacific Coast Region.							**59.0**	**+ 1.0**										**75**	**1.31**	**+ 0.3**										**6.0**		
Fresno	327	89	98	29.59	29.95	− .04	60.0	− 1.2	84	10	71	40	30	49	32	52	46	64	0.81	+ 0.1	7	5,545	nw.	44	nw.	13	9	10	11	5.5	....	....
Los Angeles	338	159	191	29.58	29.95	− .04	60.4	+ 2.8	86	10	68	44	30	53	30	54	51	76	0.81	− 0.3	7	4,421	sw.	30	sw.	30	4	13	13	6.8	....	....
San Diego	87	62	70	29.86	29.95	− .04	59.7	+ 1.5	74	10	65	46	30	54	21	54	51	78	1.15	+ 0.4	9	5,785	w.	46	w.	30	6	14	10	5.7	....	....
San Luis Obispo	201	32	40	29.79	29.96	− .09	56.0	+ 0.8	79	9	65	39	30	47	31	51	48	82	2.47	+ 1.0	10	3,442	w.	25	w.	30	7	10	13	6.2	....	....
West Indies.																																
San Juan	82	8	54	29.85	29.93	− .05	76.6	.....	90	4	81	69	8	72	17	....	....	....	13.17	+ 9.3	14	11,733	ne.	44	e.	10	6	9	15	6.8	....	....
Panama.																																
Balboa Heights	118	7	97	29.72	29.85	.....	80.5	.....	93	1	87	71	30	74	18	75	73	84	5.37	+ 2.5	10	6,724	n.	39	n.	5	1	18	11	7.0	....	....
Colon	25	5	71	29.83	29.86	.....	81.5	.....	89	26	86	74	28	78	14	77	75	85	10.42	+ 6.2	18	9,477	n.	46	n.	4	8	15	7	5.4	....	....

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 April, 1915, 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.	18-19	8:15 p.m.	D. N. a.m.	1.76	9:17 p.m.	9:55 p.m.	0.06	0.39	0.75	1.04	1.10	1.12	1.18	1.34	1.38						
	19	12:00 noon	1:05 p.m.	0.65	12:31 p.m.	12:56 p.m.	.02	.09	.22	.34	.51	.62									
	21-22	D. N. p.m.	7:45 a.m.	1.01	10:49 p.m.	11:15 p.m.	.08	.12	.24	.37	.42	.49	.52								
	25	D. N. a.m.	8:30 a.m.	1.49	4:14 a.m.	4:39 a.m.	.06	.27	.53	.70	.78	.87									
	29-30	10:40 p.m.	D. N. a.m.	1.09	10:45 p.m.	11:09 p.m.	.01	.08	.24	.41	.47	.55									
Albany, N. Y.	28			0.65														0.43			
Alpena, Mich.	10			0.39														.14			
Amarillo, Tex.	17			1.34														.41			
Anniston, Ala.	2			0.04														.04			
Asheville, N. C.	23			0.35														.26			
Atlanta, Ga.	2			0.22														(*)			
Atlantic City, N. J.	2			1.39														(*)			
Augusta, Ga.	2-3			0.65														.12			
Baker, Oreg.	29			1.01														(*)			
Baltimore, Md.	3			0.65														(*)			
Bentonville, Ark.	9			0.87														(*)			
Binghamton, N. Y.	28	4:40 p.m.	9:10 p.m.	0.89	6:41 p.m.	7:06 p.m.	.04	.24	.47	.54	.59	.65									
Birmingham, Ala.	28	5:57 p.m.	7:07 p.m.	0.65	5:59 p.m.	6:14 p.m.	.01	.34	.50	.56											
Bismarck, N. Dak.	23-24			0.77														.16			
Block Island, R. I.	30			0.50														.26			
Boise, Idaho.	29-30			0.58														(*)			
Boston, Mass.	16			0.40														.22			
Buffalo, N. Y.	11			0.18														.11			
Burlington, Vt.	11			0.20														(*)			
Cairo, Ill.	9-10			0.86														.40			
Canton, N. Y.	11			0.40														(*)			
Charles City, Iowa.	26			1.30														.64			
Charleston, S. C.	2			0.96														.28			
Charlotte, N. C.	11			0.16														.16			
Chattanooga, Tenn.	10			0.93														.39			
Cheyenne, Wyo.	22-23			1.24														.15			
Chicago, Ill.	10			0.58														.19			
Cincinnati, Ohio.	10			0.26														.23			
Cleveland, Ohio.	10			0.37														.14			
Columbia, Mo.	22	11:35 a.m.	12:40 p.m.	0.50	11:42 a.m.	11:56 a.m.	.01	.11	.34	.45											
Columbia, S. C.	2-3			0.89														(*)			
Columbus, Ohio.	10			0.39														.37			
Concord, N. H.	30			1.40														.57			
Concordia, Kans.	24-25			1.67														.41			
Corpus Christi, Tex.	23	8:06 a.m.	11:00 a.m.	1.19	8:52 a.m.	9:27 a.m.	.12	.11	.36	.52	.64	.72	.85	.92							
Davenport, Iowa.	14			0.29														.15			
Dayton, Ohio.	21-22			0.35														.16			
Del Rio, Tex.	25	3:55 a.m.	7:05 a.m.	1.16	6:30 a.m.	6:50 a.m.	.35	.25	.55	.66	.80										
Denver, Colo.	22-23			2.00														.41			
Des Moines, Iowa.	28			0.34														.26			
Detroit, Mich.	11			0.24														.09			
Devils Lake, N. Dak.	23-24			0.75														.16			
Dodge City, Kans.	24-25			0.91														.36			
Dubuque, Iowa.	16			0.07														.07			
Duluth, Minn.	23			0.38														.36			
Eastport, Me.	3-4			1.16														(*)			
Elkins, W. Va.	23			0.63														.24			
El Paso, Tex.	6			0.08														.08			
Erie, Pa.	10			0.47														(*)			
Escanaba, Mich.	23			0.18														.17			
Eureka, Cal.	2			0.38														.15			
Evansville, Ind.	10			0.32														.27			
Flagstaff, Ariz.	21-22			0.97														(*)			
Fort Smith, Ark.	9	1:30 p.m.	4:25 p.m.	2.10	3:21 p.m.	4:16 p.m.	.09	.08	.30	.46	.53	.67	.96	1.25	1.38	1.43	.60	2.00			
	19	1:09 p.m.	7:55 p.m.	0.66	1:28 p.m.	1:43 p.m.	.01	.23	.33	.40											
Fort Wayne, Ind.	10			0.62														.29			
Fort Worth, Tex.	22-23	7:16 p.m.	7:10 a.m.	1.30	12:26 a.m.	12:47 a.m.	.11	.16	.28	.48	.52										
	25	6:21 p.m.	9:15 p.m.	0.70	7:41 p.m.	7:52 p.m.	.03	.37	.52												
Fresno, Cal.	12			0.28														.28			
Galveston, Tex.	19	11:20 a.m.	12:25 p.m.	0.73	11:33 a.m.	11:46 a.m.	.02	.19	.48	.70											
Grand Haven, Mich.	10			0.32														.11			
Grand Junction, Colo.	15			0.47														.35			
Grand Rapids, Mich.	10			0.36														.16			
Green Bay, Wis.	9			0.47														(*)			
Hannibal, Mo.	8-10			1.51														.40			
Harrisburg, Pa.	27	3:57 p.m.	5:28 p.m.	0.47	4:00 p.m.	4:11 p.m.	.01	.23	.33	.36											
Hartford, Conn.	3			0.77														(*)			
Hatteras, N. C.	2-3	12:25 p.m.	7:44 a.m.	3.24	11:46 p.m.	1:04 a.m.	1.20	.10	.17	.24	.26	.30	.34	.38	.47	.59	.72	.99	1.57		
Havre, Mont.	4			0.22														.09			
Helena, Mont.	13			0.27														.23			
Houghton, Mich.	27			0.57														.26			
Houston, Tex.	19-20			0.95														.38			
Huron, S. Dak.	7-8			0.64														.27			
Independence, Cal.	28			0.36														0.15			
Indianapolis, Ind.	10			0.39														.26			
Iola, Kans.	25-26			1.81														.55			
Jacksonville, Fla.	2			0.44														(*)			
Kalispell, Mont.	30			0.59														.10			
Kansas City, Mo.	9-10			1.11														(*)			
Keokuk, Iowa.	22			0.71														(*)			
Key West, Fla.	2	5:40 a.m.	10:35 a.m.	1.35	6:43 a.m.	7:25 a.m.	0.07	0.09	0.30	0.35	0.37	0.40	0.47	0.64	0.96	1.01					
Knoxville, Tenn.	11			0.92														.29			
La Crosse, Wis.	27			0.25														.09			
Lander, Wyo.	5			0.35														.15			
Lansing, Mich.	11			0.43														.24			
Lewiston, Idaho.	2-3			0.62														.43			
Lexington, Ky.	10-11			0.32														.17			
Lincoln, Nebr.	25			0.51														(*)			
Little Rock, Ark.	9-10	9:02 p.m.	D. N. a.m.	1.97	9:02 p.m.	10:02 p.m.	.00	.12	.34	.41	.51	.60	.64	.68	.70	.70	.71	.99			
Los Angeles, Cal.	26			0.16														.14			
Louisville, Ky.	22			0.62														.44			
Ludington, Mich.	4-5			0.31														(*)			
Lynchburg, Va.	11	1:45 p.m.	2:45 p.m.	0.36	1:58 p.m.	2:07 p.m.	.01	.26	.30												

* Self-register not working.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during April, 1915, 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.	28			0.22														0.13			
Madison, Wis.	11-12			0.65														.17			
Marquette, Mich.	4			0.33														(*)			
Memphis, Tenn.	30	5:53 p.m.	8:52 p.m.	0.86	6:47 p.m.	7:21 p.m.	0.04	0.13	0.28	0.30	0.39	0.45	0.54	0.58							
Meridian, Miss.	30			0.40														.20			
Miami, Fla.	2			0.59														.35			
Milwaukee, Wis.	11			0.25														.07			
Minneapolis, Minn.	26-27			0.82														.39			
Mobile, Ala.	29			0.07														.07			
Modena, Utah	28-30			1.25														.31			
Montgomery, Ala.	2			0.20														(*)			
Moorhead, Minn.	22			0.46														(*)			
Mount Tamalpais, Cal.	6-7			0.44														.10			
Nantucket, Mass.	3-4			1.06														(*)			
Nashville, Tenn.	21-22			0.39														.24			
New Haven, Conn.	3			0.80														(*)			
New Orleans, La.	11			0.03														.03			
New York, N. Y.	3			1.13														.15			
Norfolk, Va.	11-12			0.25														.18			
Northfield, Vt.	11			0.39														.17			
North Head, Wash.	31[1]-1			3.20														.20			
North Platte, Nebr.	21-22	9:37 p.m.	D. N. a.m.	1.57	10:00 p.m.	10:47 p.m.	.03	.09	.27	.43	.57	.69	.79	.86	.97	1.05	1.09				
Oklahoma, Okla.	7	2:15 p.m.	5:10 p.m.	0.83	3:13 p.m.	3:38 p.m.	.01	.09	.16	.40	.51	.59									
	22	12:55 p.m.	5:30 p.m.	1.72	2:43 p.m.	3:46 p.m.	.48	.12	.16	.22	.28	.34	.39	.42	0.49	0.58	0.68	1.03	1.19		
	25	1:50 p.m.	7:15 p.m.	1.86	3:41 p.m.	4:46 p.m.	.15	.08	.15	.29	.46	.66	.84	.97	1.02	1.08	1.14	1.43	1.57		
Omaha, Nebr.	20			0.17														.17			
Oswego, N. Y.	11			0.21														(*)			
Palestine, Tex.	23	1:10 p.m.	9:35 p.m.	2.50	5:35 p.m.	6:08 p.m.	1.20	.19	.44	.61	.67	.75	.83	.89							
	26	3:05 a.m.	7:20 a.m.	1.26	5:50 a.m.	6:25 a.m.	.14	.07	.15	.25	.36	.70	.95	1.04							
Parkersburg, W. Va.	22			0.73														.48			
Pensacola, Fla.	29			0.04														.04			
Peoria, Ill.	9-10			0.96														(*)			
Philadelphia, Pa.	11	5:16 p.m.	7:10 p.m.	0.55	5:48 p.m.	6:02 p.m.	.07	.34	.38												
Phoenix, Ariz.	28-29			0.52														.28			
Pierre, S. Dak.	26			1.16														.22			
Pittsburgh, Pa.	25			0.26														.19			
Pocatello, Idaho	20-21			0.59														.24			
Point Reyes Light, Cal.	25			0.79														.19			
Port Huron, Mich.	9			0.20														(*)			
Portland, Me.	30			1.53														.35			
Portland, Oreg.	1-2			1.09														(*)			
Providence, R. I.	30	9:55 p.m.	11:45 p.m.	0.46	10:59 p.m.	11:08 p.m.	.05	.14	.33												
Pueblo, Colo.	6-7			1.02														(*)			
Raleigh, N. C.	2-3			1.75														(*)			
Rapid City, S. Dak.	30			0.98														.19			
Reading, Pa.	10			0.53														.42			
Red Bluff, Cal.	2	3:03 p.m.	3:53 p.m.	0.52	3:40 p.m.	3:50 p.m.	.11	.25	.41												
Reno, Nev.	29-30			0.16														(*)			
Richmond, Va.	2-3			1.30														(*)			
Rochester, N. Y.	11			0.58														(*)			
Roseburg, Oreg.	24-25			0.43														.16			
Roswell, N. Mex.	15-16	8:08 p.m.	9:40 a.m.	2.75	3:05 a.m.	4:14 a.m.	1.00	.12	.31	.71	.99	1.09	1.13	1.15	1.19	1.26	1.31	1.54	1.66		
	16	7:35 p.m.	11:30 p.m.	0.92	8:58 p.m.	9:13 p.m.	0.08	.28	.50	.59											
Sacramento, Cal.	29			0.30														.15			
Saginaw, Mich.	10			0.28														.18			
St. Joseph, Mo.	23	3:16 p.m.	4:25 p.m.	0.78	3:32 p.m.	4:05 p.m.	.03	.11	.13	.29	.52	.60	.66	.71							
St. Louis, Mo.	8-10			0.92														.22			
St. Paul, Minn.	15	5:07 p.m.	6:20 p.m.	1.16	5:31 p.m.	6:08 p.m.	.05	.13	.22	.33	.50	.58	.96	1.10							
Salt Lake City, Utah	7-8			1.19														(*)			
San Antonio, Tex.	18	2:55 a.m.	5:15 a.m.	0.80	3:25 a.m.	3:45 a.m.	.04	.10	.20	.33	.40										
	18	12:50 p.m.	4:17 p.m.	5.59	1:39 p.m.	2:29 p.m.	.13	.07	.34	.56	1.10	1.43	1.81	2.01	2.44	2.56	2.68				
					2:29 p.m.	3:19 p.m.		2.75	2.83	2.88	2.92	3.02	3.11	3.15	3.17	3.25	3.29				
					3:19 p.m.	4:09 p.m.		2.36	3.43	3.59	4.01	4.71	4.95	4.98	5.04	5.16	5.35				
					4:09 p.m.	4:17 p.m.		5.41	5.46												
Do.	22-23	11:10 p.m.	9:40 a.m.	1.51	1:07 a.m.	1:22 a.m.	.10	.37	.52	.57											
	25	8:35 a.m.	12 noon.	1.79	10:05 a.m.	11:23 a.m.	.08	.05	.11	.21	.52	.74	.86	.93	.96	1.00	1.02	1.26	1.63		
San Diego, Cal.	21			0.34														(*)			
Sand Key, Fla.	2	5:50 a.m.	9:15 a.m.	1.67	6:59 a.m.	7:38 a.m.	.18	.11	.36	(*)	(*)	(*)	(*)	(*)	1.27						
Sandusky, Ohio	10			0.12														.10			
San Francisco, Cal.	25-26			0.30														(*)			
San Jose, Cal.	20-21			0.64														.17			
San Luis Obispo, Cal.	23			0.61														.26			
Santa Fe, N. Mex.	5-7			1.49														(*)			
Sault Ste. Marie, Mich.	28			0.27														(*)			
Savannah, Ga.	2-3			0.90														.16			
Scranton, Pa.	10			0.38														.22			
Seattle, Wash.	1-2			1.87														.22			
Sheridan, Wyo.	15			0.57														.23			
Shreveport, La.	20-21	7:30 p.m.	2:00 a.m.	1.12	10:52 p.m.	11:21 p.m.	.57	.08	.12	.18	.27	.39	.53								
	26	7:20 a.m.	4:40 p.m.	2.80	1:42 p.m.	2:08 p.m.	1.89	.05	.22	.44	.54	.64	.67								
	27-28	11:05 p.m.	12:40 a.m.	1.47	11:29 p.m.	12:03 a.m.	.08	.13	.46	.75	1.00	1.16	1.24	1.32							
Sioux City, Iowa	6-8			0.41														(*)			
Spokane, Wash.	29-30			0.97														.11			
Springfield, Ill.	9-10			1.45														.57			
Springfield, Mo.	8-10			1.96														.28			
Syracuse, N. Y.	28			0.32														.27			
Tacoma, Wash.	1-2			1.48														.15			
Tampa, Fla.	2			0.96														.40			
Tatoosh Island, Wash.	31[1]-4			4.62														.26			
Taylor, Tex.	22-23	4:28 p.m.	10:05 a.m.	2.07	5:16 p.m.	6:07 p.m.	.04	.05	.14	.26	.50	.80	1.14	1.64	1.81	1.93	2.02	2.07			
				7.77	8:18 p.m.	9:08 p.m.	2.46	.07	.14	.18	.22	.32	.38	.44	.67	.74	.93				
					9:08 p.m.	9:58 p.m.		1.10	1.20	1.53	1.68	1.86	2.08	2.25	2.37	2.45	2.56				
					9:58 p.m.	10:48 p.m.		2.63	2.68	2.73	2.81	3.06	3.39	3.77	4.21	4.44	4.61				
					10:38 p.m.	11:38 p.m.		4.66	4.77	4.91	5.03	5.20	5.32	5.42	5.45	5.49	5.53				
					11:38 p.m.	12:42 a.m.		5.58	5.66	5.74	5.78	5.85	5.87	5.87	5.87	5.89	5.95				
Do.	24-25	7:30 p.m.	D.N.a.m.	1.98	9.03 p.m.	10:16 p.m.	.35	.08	.18	.35	.51	.72	.88	1.05	1.11	1.13	1.16	1.23	1.51		
	25	7:24 a.m.	3:40 p.m.	1.90	2:34 p.m.	2:47 p.m.	1.23	.20	.48	.65											
Terre Haute, Ind.	9	6:02 p.m.	7:05 p.m.	0.36	6:21 p.m.	6:31 p.m.	.01	.19	.32												

[1] March 31.

* Self-register not working.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during April, 1915, at all stations furnished with self-registering gages*—Concluded.

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.
Thomasville, Ga.	28			0.26														0.21			
Toledo, Ohio	20			0.25														.24			
Tonopah, Nev.	28–30			2.48														(*)			
Topeka, Kans.	25–26			1.28														.53			
Valentine, Nebr.	6–9			2.14														.23			
Vicksburg, Miss.	10	5:29 p.m.	11:30 p.m.	1.16	7:27 p.m.	7:57 p.m.	0.11	0.05	0.10	0.18	0.39	0.62	0.75								
Walla Walla, Wash.	29			1.57														.27			
Washington, D. C.	3			0.44														(*)			
Wichita, Kans.	25			1.32														.33			
Williston, N. Dak.	24			0.33														.07			
Wilmington, N. C.	2–3			1.62														.30			
Winnemucca, Nev.	29–30			1.03														(*)			
Wytheville, Va.	29			0.15														.15			
Yankton, S. Dak.	6–9			1.07														.27			
Yellowstone Park, Wyo.	20–22			0.41														(*)			

* Self-register not working.

TABLE III.—*Data furnished by the Canadian Meteorological Service, April, 1915.*

Stations.	Pressure.			Temperature.						Precipitation.		
	Station reduced to mean of 24 hours.	Sea-level reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
	Inches.	*Inches.*	*Inches.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F.	29.83	29.97	+0.08	38.8	+ 4.3	45.5	31.2	65	15	1.48	−2.68	2.0
Sydney, C. B. I.	29.98	30.02	+ .13	38.2	+ 3.2	46.3	30.2	61	19	4.09	+0.14	3.5
Halifax, N. S.	29.72	30.03	+ .07	41.0	+ 3.2	48.9	33.2	70	26	5.86	+1.68	5.7
Yarmouth, N. S.	29.94	30.01	+ .05	40.8	+ 1.9	46.6	35.1	56	26	2.54	−0.85	3.7
Charlottetown, P. E. I.	29.98	30.02	+ .12	37.0	+ 1.8	43.8	30.2	58	21	2.14	−0.51	4.2
Chatham, N. B.	30.03	30.05	+ .15	38.7	+ 3.2	46.9	30.5	60	16	3.53	+0.90	8.2
Father Point, Que.	29.99	30.01	+ .08	35.0	+ 1.8	40.1	29.7	54	12	1.83	+0.25	0.1
Quebec, Que.	29.68	30.01	+ .02	41.2	+ 6.1	49.7	32.8	68	20	1.94	−0.15	T.
Montreal, Que.	29.80	30.01	+ .01	48.1	+ 8.4	57.0	39.2	82	28	1.44	−0.80	T.
Stonecliffe, Ont.	29.42	30.03	+ .01	47.2	+ 9.3	60.5	33.8	88	15	0.96	−0.60	0.1
Ottawa, Ont.	29.75	30.08	+ .06	49.0	+ 9.0	59.2	38.8	86	26	1.21	−0.29	T.
Kingston, Ont.	29.73	30.06	+ .04	46.3	+ 6.3	55.2	37.4	72	26	1.13	−0.66	0.6
Toronto, Ont.	29.64	30.02	.00	49.8	+ 9.0	59.3	40.3	84	26	1.28	−1.09	0.5
White River, Ont.	28.66	29.99	− .05	40.6	+ 7.6	54.4	26.9	78	− 2	1.50	+0.25	T.
Port Stanley, Ont.	29.42	30.06	+ .04	45.6	+ 4.6	54.4	36.9	81	23	1.25	−1.22	0.4
Southampton, Ont.	29.34			46.9	+ 8.2	55.9	37.9	81	23	1.29	−0.51	T.
Parry Sound, Ont.	29.33	30.04	+ .02	45.6	+ 8.0	57.6	33.7	83	11	1.82	−0.09	0.2
Port Arthur, Ont.	29.27	29.98	− .05	43.2	+ 9.7	52.9	33.5	77	16	0.77	−0.95	0.0
Winnipeg, Man.	29.12	29.95	− .07	48.9	+13.0	61.3	36.5	84	19	1.31	+0.26	T.
Minnedosa, Man.	28.12	29.94	− .07	47.4	+11.4	62.1	32.7	85	13	0.77	−0.29	T.
Qu'Appelle, Sask.	27.64	29.98	− .01	49.3	+11.9	64.1	34.4	83	15	0.53	−0.52	T.
Medicine Hat, Alberta	27.56	29.83	− .09	55.4	+10.9	71.3	39.5	87	29	T.	−0.74	0.0
Swift Current, Sask.	27.31	29.86	− .10	51.7	+10.4	67.3	36.0	84	23	T.	−0.93	0.0
Calgary, Alberta	26.30	29.82	− .08	49.2	+ 9.6	64.8	33.7	77	24	0.46	−0.18	0.0
Banff, Alberta	25.30	29.88	− .02	44.4	+ 9.1	58.1	30.6	69	19	1.00	−0.08	0.8
Edmonton, Alberta	27.54	29.81	− .08	48.8	+ 8.9	62.9	34.6	79	23	0.92	+0.04	5.4
Prince Albert, Sask.	28.29	29.85	− .13	46.8	+10.7	58.2	35.2	76	14	0.37	−0.46	0.0
Battleford, Sask.	28.14	29.86	− .11	51.5	+14.3	66.5	36.6	80	20	0.68	+0.21	0.0
Kamloops, B. C.	28.68	29.96	+ .03	55.9	+ 7.0	69.0	42.8	80	33	0.17	−0.22	0.0
Victoria, B. C.	29.74	29.99	− .02	51.2	+ 4.4	58.4	43.9	67	39	0.57	−1.80	0.0
Barkerville, B. C.	25.52	29.81	− .05	40.4	+ 7.3	51.5	29.4	62	22	2.62	+0.80	11.2
Hamilton, Bermuda	29.94	30.11	+ .06	62.6	− 1.3	68.6	56.7	74	53	2.36	−1.72	0.0

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