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, seventy-fifth meridian time, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

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

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

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

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

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

Table III gives, for about 30 stations of the Canadian Meteorological Service, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values except in the case of snowfall.

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

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

Chart III.—Tracks of centers of low areas. The roman numerals show the chronological order of the centers. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., 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 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.

[Charts XLIII–71 to XLIII–83 illustrate the article, by W. H. Alexander, pp. 322–340.]

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

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.										
	Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles.								0-10		
New England.							67.4	− 1.4										82	5.87	+ 2.3										6.0		
Eastport	76	67	85	29.84	29.92	−0.01	58.1	− 1.7	80	18	66	46	6	50	31	53	50	79	3.75	+ 0.3	12	4,958	s.	51	ne.	9	7	10	11	6.4		
Greenville	1,070	6		28.78	29.92		63.6		82	25	74	45	6	54	33				8.98		17											
Portland, Me.	103	82	117	29.82	29.94	− .01	64.4	− 3.6	81	13	71	53	9	58	24	60	57	80	10.84	+ 7.6	17	5,364	e.	38	nw.	9	8	10	13	6.3		
Concord	288	70	79	29.62	29.92	− .04	68.2	− 0.9	89	13	78	49	7	58	33				10.29	+ 6.5	16	3,324	se.	21	nw.	9	6	14	11	5.9		
Burlington	404	11	48	29.48	29.90	− .04	67.6	− 0.6	87	31	76	50	21	59	27				5.46	+ 1.7	15	5,645	s.	31	s.	5	6	15	10	5.9		
Northfield	876	12	60	29.00	29.93	− .01	64.6	− 2.0	86	31	76	45	7	54	33	60	58	82	5.22	+ 1.5	18	3,793	s.	21	s.	5	2	15	14	6.8		
Boston	125	115	188	29.79	29.92	− .04	70.1	− 1.2	90	13	77	58	25	63	27	64	61	79	8.85	+ 5.5	15	5,995	e.	33	nw.	9	8	14	9	5.2		
Nantucket	12	14	90	29.92	29.93	− .05	66.8	− 0.7	83	30	73	55	26	60	18	63	62	90	1.32	− 1.4	9	9,674	sw.	36	s.	8	5	16	10	5.6		
Block Island	26	11	46	29.89	29.92	− .05	68.3	+ 0.2	82	31	74	59	26	63	16	65	64	91	1.59	− 1.7	9	9,436	sw.	36	nw.	9	6	12	13	6.4		
Narragansett Pier		9					67.8	− 2.1	85	19	75	50	7	61	26				2.02		12		sw.				16	8	7			
Providence	160	215	251	29.75	29.92	− .05	70.1	− 3.3	89	17	78	54	25	62	26	64	61	77	6.35	+ 2.8	14	7,510	s.	40	nw.	5	8	16	7	5.8		
Hartford	159	122	140	29.75	29.92	− .05	71.7	+ 0.1	89	17	81	55	23	62	29	65	61	76	6.97	+ 2.9	16	4,784	s.	37	ne.	14	4	19	8	5.9		
New Haven	106	117	155	29.81	29.92	− .05	71.4	− 0.5	91	17	80	55	25	63	25	66	64	80	3.90	− 0.9	14	5,426	s.	27	nw.	8	6	13	12	6.2		
Middle Atlantic States.							73.8	− 0.8										75	4.20	− 0.1										5.4		
Albany	97	102	115	29.81	29.91	− .05	71.4	− 0.6	91	31	80	53	7	62	29	64	61	74	5.05	+ 1.2	14	4,567	s.	32	n.	8	13	13	5	4.6		
Binghamton	871	10	69	29.01	29.92	− .05	68.9	− 1.0	87	31	79	50	22	59	30				8.13	+ 4.6	17	2,806	nw.	24	w.	3	2	16	13	6.5		
New York	314	414	454	29.60	29.93	− .05	72.5	− 1.0	92	31	80	59	9	65	23	65	61	73	4.60	+ 0.1	15	9,184	sw.	77	nw.	17	6	10	15	6.8		
Harrisburg	374	94	104	29.55	29.94	− .04	74.2	− 0.3	93	19	83	57	22	65	25	66	62	69	4.03	+ 0.2	13	3,837	w.	33	n.	8	6	18	7	5.7		
Philadelphia	117	123	190	29.82	29.94	− .04	76.0	+ 0.2	93	17	84	61	25	68	22	69	66	74	5.02	+ 0.7	16	6,310	nw.	38	n.	13	7	16	8	5.4		
Reading	325	81	98	29.60	29.94		74.0		93	19	84	57	7	65	27	66	62	70	4.56	+ 0.3	15	4,175	se.	24	n.	8	4	8	19	6.7		
Scranton	805	111	119	29.10	29.95	− .03	70.4	− 1.4	89	30	80	51	10	61	29	64	61	74	2.60	− 1.2	15	4,064	sw.	31	sw.	8	4	15	12	6.7		
Atlantic City	52	37	48	29.89	29.94	− .04	72.6	+ 0.1	93	31	79	58	9	66	26	68	66	82	2.37	− 1.4	15	4,977	sw.	23	sw.	8	8	10	13	5.9		
Cape May	18	13	49	29.95	29.97	− .01	72.8	− 0.6	92	31	79	60	25	66	21				4.11	+ 0.3	16	4,835	s.	32	nw.	17	9	18	4	4.9		
Sandy Hook	22	10	57	29.91	29.93		72.9		91	31	80	61	26	66	21	68	67	88	3.46		16	8,358	s.	54	n.	8	7	17	7	5.2		
Trenton	190	159	183	29.73	29.92		73.7		92	30	83	57	25	65	27	66	63	75	7.20	+ 2.4	16	6,619	w.	46	sw.	19	7	14	10	6.2		
Baltimore	123	100	113	29.81	29.94	− .06	76.9	− 0.4	95	31	85	61	22	69	25	69	65	69	2.22	− 2.6	11	4,739	sw.	26	n.	8	9	16	6	4.9		
Washington	112	62	85	29.82	29.94	− .06	76.1	− 0.7	95	31	86	58	25	66	28	68	65	72	3.21	− 1.4	13	3,868	nw.	49	nw.	16	6	15	10	5.5		
Lynchburg	681	153	188	29.23	29.95	− .06	76.2	− 1.1	95	31	87	54	6	65	31	68	65	73	3.05	− 1.0	12	4,311	w.	36	nw.	29	6	22	3	5.1		
Norfolk	91	170	205	29.87	29.96	− .04	77.4	− 1.0	96	16	85	63	10	70	24	70	67	75	5.72	− 0.1	11	8,505	sw.	65	ne.	29	11	12	8	4.8		
Richmond	144	11	52	29.82	29.96	− .05	78.0	− 1.2	99	16	88	60	6	68	28	69	66	72	2.42	− 2.0	7	5,174	sw.	35	nw.	17	9	18	4	4.5		
Wytheville	2,293	40	47	27.67	29.97	− .04	70.2	− 2.4	91	31	81	49	6	59	31	64	62	80	2.88	− 1.6	15	2,923	w.	23	w.	8	18	11	2	3.2		
South Atlantic States.							79.8	+ 0.7										77	4.98	− 1.1										4.8		
Asheville	2,255	70	84	27.72	29.99	− .03	72.0	+ 0.3	92	31	83	52	6	62	27	65	63	79	2.78	− 2.1	14	3,848	nw.	25	w.	19	10	16	5	4.7		
Charlotte	773	153	161	29.16	29.97	− .05	79.4	+ 0.7	100	31	89	62	23	69	25	69	66	70	3.08	− 2.4	9	6,504	sw.	62	nw.	12	8	16	7	5.3		
Hatteras	11	12	50	29.96	29.97	− .04	77.8	− 0.8	89	14	83	68	27	73	16	74	73	87	4.75	− 1.4	14	9,751	sw.	40	nw.	20	10	11	10	6.0		
Manteo	12	4	46				77.8		96	16	86	55	10	70					9.58	+ 3.5	8		sw.				15	8	8			
Raleigh	376	103	110	29.58	29.96	− .06	79.6	+ 1.1	98	15	89	61	26	70	29	70	66	71	2.83	− 3.3	12	5,374	sw.	33	nw.	8	12	14	5	4.5		
Wilmington	78	81	91	29.90	29.98	− .03	79.5	+ 0.8	95	13	88	65	10	72	25	74	72	82	8.12	+ 1.2	14	5,473	sw.	35	w.	19	11	15	5	4.9		
Charleston	48	11	92	29.94	29.99	− .04	82.2	+ 0.9	97	13	89	70	27	75	21	76	74	79	2.98	− 4.3	10	6,933	s.	38	w.	9	11	14	6	4.5		
Columbia, S. C.	351	41	57	29.61	29.98	− .04	81.3	+ 0.2	100	18	92	64	25	71	27	72	68	70	2.31	− 3.8	8	4,739	sw.	25	w.	20	17	12	2	3.0		
Augusta	180	89	97	29.79	29.98	− .04	82.0	+ 1.5	98	18	92	65	26	72	27	73	69	69	1.03	− 3.7	9	4,158	ne.	28	w.	19	15	12	4	4.3		
Savannah	65	150	194	29.92	29.99	− .04	82.0	+ 1.5	98	18	91	67	25	73	24	75	73	82	7.40	+ 1.2	15	7,269	sw.	52	w.	6	10	13	8	4.9		
Jacksonville	43	209	245	29.96	30.01	− .02	81.8	+ 0.9	98	18	90	69	10	74	25	75	73	82	9.36	+ 3.2	16	8,186	sw.	52	w.	20	9	16	6	5.4		
Florida Peninsula.							83.0	+ 1.1										74	5.15	− 1.3										5.8		
Key West	22	10	64	29.98	30.00	− .03	84.4	+ 0.7	92	20	90	72	22	79	18	76	74	71	3.84	+ 0.2	14	5,611	se.	40	w.	22	6	21	4	5.4		
Miami	25	71	79	30.00	30.03		81.9	0.0	91	17	87	72	25	77	15	76	74	76	6.54	− 0.7	15	4,980	se.	25	se.	28	3	13	15	6.8		
Sand Key	23	39	72	29.96	29.99	− .04	83.8		91	21	87	73	23	81	15	77	75	74	1.37		6	7,032	se.	36	w.	23	10	19	2	4.7		
Tampa	35	79	96	29.98	30.01	− .03	82.6	+ 2.6	93	16	90	72	24	75	20	75	73	76	5.08	− 3.4	14	4,205	se.	25	ne.	25	1	23	7	6.2		
East Gulf States.							81.2	+ 0.9										73	4.00	− 1.3										4.0		
Atlanta	1,174	190	216	28.81	30.02	.00	78.6	+ 1.0	97	31	88	61	6	70	23	70	66	69	3.22	− 1.5	8	6,378	nw.	36	nw.	20	18	5	8	4.4		
Macon	370	78	87	29.60	29.98	− .04	81.8	+ 2.1	100	18	92	64	22	71	27	72	68	67	1.88	− 2.8	7	3,848	s.	44	w.	1	9	17	5	4.5		
Thomasville	273	8	57	29.71	30.00	− .03	82.6	+ 0.8	100	18	94	63	26	71	32	74	72	80	4.68	− 0.6	12	3,224	sw.	32	sw.	19	11	15	5	4.6		
Pensacola	56	140	182	29.94	30.00	− .01	81.8	+ 0.4	94	18	88	68	23	75	22	75	72	77	3.41	− 3.9	12	7,846	sw.	50	ne.	10	11	14	6	5.0		
Anniston	741	9	57	29.24	30.02	.00	78.3	+ 0.4	99	31	90	58	22	67	30				3.88	− 0.8	11	2,985	s.	26	nw.	19	19	9	3	2.8		
Birmingham	700	11	48	29.27	30.02	+ .01	79.4	− 2.1	99	31	89	59	6	70	26	71	67	72	5.72	+ 1.0	8	3,691	s.	24	nw.	1	13	11	7	4.7		
Mobile	57	125	161	29.94	30.00	− .01	82.9	+ 2.4	97	28	91	67	22	75	22	75	72	75	5.82	− 1.2	9	6,278	sw.	35	nw.	16	12	17	2	4.0		
Montgomery	223	100	112	29.76	30.00	− .02	81.8	+ 0.8	98	18	92	65	22	72	25	73	69	70	4.73	0.0	7	4,191	sw.	31	se.	17	18	9	4	3.2		
Meridian	375	85	93	29.61	29.99	− .03	80.6	+ 0.6	98	28	90	60	23	71	29	72	69	71	1.71	− 2.8	5	3,336	sw.	24	sw.	4	15	13	3	4.0		
Vicksburg	247	65	74	29.74	30.01	+ .01	80.8	+ 0.4	95	30	89	62	22	73	23	73	71	77	1.44	− 3.0	7	4,202	sw.	27	sw.	1	19	8	4	3.5		
New Orleans	51	76	84	29.94	29.99	− .01	84.7	+ 3.4	100	28	93	69	3	76	27	75	72	72	7.55	+ 1.1	9	3,927	sw.	35	nw.	3	17	11	3	3.6		
West Gulf States.							81.5	− 0.4										71	1.49	− 1.7										3.3		
Shreveport	249	77	93	29.73	29.99	+ .01	81.4	− 0.7	99	29	90	64	22	72	26	72	68	70	2.44	− 1.3	4	4,684	s.	24	nw.	2	24	1	6	3.0		
Bentonville	1,303	11	44	28.63	29.97	.00	74.8	− 3.7	93	30	85	49	5	64	28				1.68	− 2.6	8	3,546	s.	21	s.	10	18	11	2	3.3		
Fort Smith	457	79	94	29.48	29.95	− .02	79.6	− 1.4	100	29	90	57	5	69	28	70	66	66	1.08	− 2.8	5	4,817	e.	31	sw.	7	20	6	5	3.1		
Little Rock	357	139	147	29.61	29.97	− .02	80.0	− 0.6	100	30	89	60	5	71	26	72	69	74	0.96	− 3.0	4	5,826	sw.	38	w.	8	18	7	6	3.6		
Brownsville	57	3	40				85.0		98	29	94	64	25	76	30				0.15		2		se.	28		10						
Corpus Christi	20	69	77	29.93	29.95	− .01	82.8	+ 0.1	92	21	87	73	23	78	16	77	75	82	0.03	− 1.6	2	13,072	se.	42	se.	7	17	11	3	3.7		
Dallas	512	109	117	29.42	29.96		82.2		98	29	92	59	5	72	26				0.12		2	7,861	se.	30	n.	4	18	9	4	3.3		
Fort Worth	670	106	114	29.23	29.93	− .03	81.9	− 1.8	98	29	92	60	5	72	27	69	63	58	0.30	− 2.7	2	8,359	s.	28	sw.	7	16	12	3	3.6		
Galveston	54	106	114	29.94	30.00	+ .02	83.0	0.0	91	20	87	70	4	79	14	76	73	75	2.45	− 1.5	6	8,335	s.	35	n.	20	23	5	3	2.5		
Houston	138	111	121	29.83	29.97		83.6	+ 0.6	99	17	93	67	25	74	26				2.92		5	5,866	s.	32	se.	26	20	9	2	3.1		
Palestine	510	64	72	29.44	29.96	− .01	81.6	+ 0.1	95	29	91	63	23	72	27	74	71	76	3.91	+ 0.9	3	5,512	s.	24	nw.	20	18	9	4	3.9		
San Antonio	701	109	132	29.22	29.92	− .03	84.8	+ 2.4	101	1	96	67	24	74	27	72	67	64	0.92	− 1.3	2	7,399	s.	34	s.	3	24	7	0	2.9		
Taylor	582	55	63	29.38	29.99	+ .03	83.3	+ 0.6	98	20	94	65	24	73	27				1.17	− 1.4	4	7,883	s.	27	s.	7	12	17	2	3.8		

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

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.									
	Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles.								0-10		
Ohio Valley and Tennessee.							74.9	− 1.9										72	4.25	+ 0.2										5.3		
Chattanooga	762	189	213	29.21	30.00	−0.02	78.2	+ 0.4	97	31	88	57	6	69	26	70	66	72	5.20	+ 1.3	11	4,611	sw.	34	sw.	1	12	11	8	5.0	.....	.....
Knoxville	996	93	100	28.96	29.99	− .03	76.8	+ 0.6	99	31	86	56	6	67	26	69	66	74	3.72	− 0.5	15	3,315	sw.	26	n.	17	9	13	9	5.5	.....	.....
Memphis	399	76	97	29.59	30.01	+ .01	79.8	− 0.9	97	30	88	62	5	72	24	72	68	71	1.16	− 2.4	7	5,890	sw.	46	n.	17	15	11	5	3.8	.....	.....
Nashville	546	168	191	29.43	30.00	− .01	78.6	− 0.8	99	31	89	56	6	68	28	69	65	67	2.03	− 2.3	11	5,407	sw.	36	sw.	8	13	15	3	4.2	.....	.....
Lexington	989	193	230	28.93	29.97	− .04	74.5	− 2.1	93	31	83	55	5	66	22	.....	.....	.....	5.72	+ 1.3	12	6,391	sw.	58	nw.	30	11	17	3	4.5	.....	.....
Louisville	525	219	255	29.41	29.98	− .02	76.1	− 2.5	97	31	86	56	5	67	24	68	64	70	3.73	0.0	12	6,801	sw.	48	nw.	10	7	14	10	5.5	.....	.....
Evansville	431	72	82	29.51	29.96	− .04	77.0	− 2.3	96	31	86	57	5	68	22	69	66	73	2.92	− 0.9	12	4,209	sw.	33	s.	7	8	15	8	5.4	.....	.....
Indianapolis	822	194	230	29.09	29.96	− .03	73.0	− 3.2	91	15	82	52	5	64	24	65	62	73	7.94	+ 3.8	14	6,213	sw.	44	n.	20	5	12	14	6.0	.....	.....
Terre Haute	575	96	129	29.34	29.94	.....	74.1	.....	93	16	83	53	5	65	24	68	65	78	7.87	.....	17	5,389	sw.	42	w.	2	1	22	8	6.5	.....	.....
Cincinnati	628	11	51	29.29	29.96	− .04	73.5	− 4.2	95	31	84	54	22	64	28	67	64	74	4.93	+ 1.4	14	2,992	sw.	44	nw.	7	12	10	9	5.2	.....	.....
Columbus	824	173	222	29.10	29.96	− .04	73.0	− 2.3	93	16	82	55	5	64	26	66	63	75	6.85	+ 3.2	15	5,875	s.	52	w.	15	14	13	4	4.3	.....	.....
Dayton	899	181	216	29.01	29.94	.....	72.8	− 3.4	92	16	82	54	5	64	26	66	63	75	4.34	+ 1.1	13	5,355	sw.	35	n.	16	12	13	6	4.6	.....	.....
Pittsburgh	842	353	410	29.07	29.95	− .05	72.0	− 2.6	89	31	80	54	9	64	26	64	60	69	3.37	− 1.0	13	6,242	nw.	39	n.	8	7	10	14	6.1	.....	.....
Elkins	1,940	41	50	27.99	29.98	− .03	69.0	− 1.5	91	31	81	46	9	58	35	63	60	82	3.40	− 1.2	19	2,291	w.	15	sw.	11	3	13	15	7.1	.....	.....
Parkersburg	638	77	84	29.34	29.99	− .02	73.7	− 1.9	94	31	84	55	6	64	27	66	63	75	4.21	− 0.4	17	3,290	se.	34	n.	31	9	15	7	5.6	.....	.....
Lower Lake Region.							69.4	−2.3										77	5.16	+1.8										5.9		
Buffalo	767	247	280	29.12	29.93	−0.4	67.8	−2.4	84	10	74	51	6	62	23	63	60	79	3.37	0.0	16	8,680	sw.	60	sw.	5	6	13	12	6.1	.....	.....
Canton	448	10	61	29.44	29.91	.....	67.2	−3.3	87	16	77	49	21	57	31	.....	.....	.....	5.92	+2.7	15	5,582	sw.	44	w.	5	18	6	7	4.1	.....	.....
Oswego	335	76	91	29.56	29.92	−0.4	67.1	−2.5	82	16	74	53	6	60	23	62	59	78	3.63	+0.4	12	5,133	w.	39	nw.	3	7	13	11	5.6	.....	.....
Rochester	523	97	113	29.38	29.94	−0.3	69.0	−1.4	85	14	78	52	6	60	26	62	59	74	2.68	−0.4	9	4,713	sw.	36	sw.	5	6	13	12	6.2	.....	.....
Syracuse	597	97	113	29.31	29.95	−0.2	68.9	−1.9	84	31	77	53	22	61	25	64	62	83	7.37	+3.7	14	5,981	s.	31	ne.	2	6	13	12	6.3	.....	.....
Erie	714	130	166	29.18	29.93	−0.5	69.3	−2.5	86	16	76	56	4	63	24	64	62	77	5.14	+1.9	16	7,664	s.	43	sw.	5	9	11	11	5.8	.....	.....
Cleveland	762	190	201	29.14	29.95	−0.4	69.8	−2.7	89	16	76	55	23	64	22	64	61	75	4.73	+1.2	14	7,051	s.	42	ne.	8	4	15	12	6.1	.....	.....
Sandusky	629	62	103	29.28	29.94	−0.5	71.0	−2.6	92	16	78	53	6	64	25	65	62	77	6.19	+2.4	16	6,674	sw.	31	sw.	15	8	11	12	5.9	.....	.....
Toledo	628	208	243	29.28	29.95	−0.4	71.4	−2.3	91	16	80	53	6	63	25	65	62	76	5.54	+2.3	15	8,127	sw.	42	sw.	4	7	15	9	5.7	.....	.....
Fort Wayne	856	113	124	29.05	29.96	.....	71.0	−2.5	88	13	80	52	5	62	25	65	63	79	4.81	.....	17	5,100	sw.	38	sw.	4	6	12	13	6.2	.....	.....
Detroit	730	218	245	29.17	29.95	−0.3	70.4	−1.6	87	16	78	51	6	63	24	63	60	75	6.99	+3.5	17	6,485	w.	48	sw.	4	5	15	11	6.4	.....	.....
Upper Lake Region.							64.8	−3.2										76	3.12	0.00										5.7		
Alpena	609	13	92	29.29	29.96	−0.1	63.2	−2.6	86	16	72	44	6	55	31	59	56	79	3.37	+0.3	13	6,047	nw.	45	w.	5	7	14	10	5.9	.....	.....
Escanaba	612	54	60	29.28	29.94	−0.3	62.6	−3.9	82	16	71	45	6	54	26	58	54	74	1.88	−1.5	12	6,149	s.	30	nw.	5	15	7	9	4.5	.....	.....
Grand Haven	632	54	92	29.26	29.93	−0.5	66.2	−3.5	82	10	73	51	23	59	23	62	59	77	2.89	+0.3	10	6,062	w.	30	w.	5	11	15	5	4.6	.....	.....
Grand Rapids	707	70	87	29.19	29.94	−0.4	69.4	−2.8	90	31	78	51	6	61	27	63	59	71	4.00	+1.4	13	3,689	w.	34	w.	1	6	14	11	6.5	.....	.....
Houghton	684	62	72	29.21	29.93	−0.3	60.6	−4.7	84	13	70	43	26	51	31	.....	.....	.....	2.91	−0.2	9	5,031	w.	30	w.	23	10	15	6	4.7	.....	.....
Lansing	878	11	62	29.00	29.93	.....	67.9	−3.2	87	16	78	47	6	58	31	62	60	79	5.17	+2.0	16	2,889	sw.	18	se.	1	4	18	9	6.2	.....	.....
Ludington	637	60	66	29.25	29.94	.....	64.0	.....	79	10	72	50	9	57	28	60	57	78	2.77	.....	6	5,427	s.	27	w.	5	13	9	9	4.7	.....	.....
Marquette	734	77	111	29.18	29.98	+0.2	60.2	−4.7	80	10	68	45	25	52	30	56	53	79	1.78	−1.3	11	4,895	e.	30	nw.	5	9	13	9	5.9	.....	.....
Port Huron	638	70	120	29.26	29.94	−0.4	67.4	−1.6	86	14	75	49	6	60	25	63	60	80	4.69	+2.0	16	5,677	ne.	35	ne.	16	8	15	8	5.9	.....	.....
Saginaw	641	48	82	29.26	29.94	.....	68.8	.....	90	16	78	47	6	59	30	62	58	72	2.39	−1.3	12	4,761	w.	30	sw.	5	7	10	14	6.5	.....	.....
Sault Ste. Marie	614	11	61	29.27	29.95	−0.2	62.0	+0.1	83	1	73	40	6	51	32	56	52	75	3.89	+1.1	11	4,615	w.	35	w.	5	7	12	12	6.3	.....	.....
Chicago	823	140	310	29.08	29.95	−0.3	70.2	−2.2	88	15	76	53	5	64	23	63	60	73	5.57	+1.9	14	6,766	w.	30	ne.	7	7	10	14	6.4	.....	.....
Green Bay	617	109	144	29.28	29.93	−0.4	65.8	−3.7	88	13	75	48	25	57	29	60	58	78	2.62	−0.9	14	6,419	se.	35	nw.	20	4	17	10	6.5	.....	.....
Milwaukee	681	119	133	29.21	29.94	−0.3	66.8	−2.9	87	12	74	53	5	60	25	60	57	72	1.91	−1.1	10	5,742	ne.	26	ne.	7	7	13	11	5.8	.....	.....
Duluth	1,133	11	47	28.76	29.96	+0.1	59.8	−6.2	85	13	70	42	25	50	34	56	53	80	1.60	−2.0	14	7,575	ne.	42	sw.	2	11	11	9	5.1	.....	.....
North Dakota.							63.0	−6.0										71	2.38	−0.5										5.0		
Moorhead	940	8	57	28.96	29.96	+0.2	65.2	−3.5	87	13	75	44	5	55	29	59	57	78	2.22	−1.5	13	4,677	nw.	24	nw.	4	19	7	5	3.2	.....	.....
Bismarck	1,674	8	57	28.23	30.00	+0.7	62.6	−7.6	86	9	73	39	5	52	34	56	52	71	4.02	+1.9	17	6,070	e.	42	sw.	9	11	12	8	5.0	.....	.....
Devils Lake	1,482	11	44	28.39	29.94	+0.1	62.4	−5.7	86	12	74	40	5	51	36	56	51	70	1.00	−2.8	11	6,565	ne.	34	w.	16	8	8	15	6.1	.....	.....
Williston	1,872	40	47	27.98	29.94	+0.2	62.0	−7.4	87	9	73	42	20	52	34	54	49	66	2.21	+0.2	12	5,120	e.	32	nw.	1	6	14	11	6.0	.....	.....
Upper Mississippi Valley.							71.6	−3.8										76	6.24	+2.6										6.2		
Minneapolis	918	10	208	28.96	29.93	.....	67.2	.....	88	12	76	50	4	59	22	.....	.....	.....	5.92	+2.1	11	7,077	nw.	36	nw.	4	6	10	15	6.5	.....	.....
St. Paul	837	201	236	29.03	29.92	−0.3	67.1	−5.0	88	13	76	49	4	59	23	.....	.....	.....	4.53	+1.1	11	7,215	nw.	37	nw.	4	3	20	8	5.8	.....	.....
La Crosse	714	11	48	29.16	29.91	−0.5	68.7	−3.9	89	15	78	50	3	59	28	.....	.....	.....	5.28	+1.2	14	2,892	s.	16	e.	18	4	10	17	7.1	.....	.....
Madison	974	70	78	28.92	29.95	−0.2	67.7	−4.7	88	13	76	50	5	59	23	62	59	76	5.04	+1.0	16	5,182	w.	40	ne.	21	2	11	18	7.6	.....	.....
Charles City	1,015	10	49	28.88	29.94	−0.2	67.9	−5.6	90	15	77	47	3	59	28	63	61	80	6.50	+2.9	14	3,927	nw.	24	nw.	4	6	14	11	6.0	.....	.....
Davenport	606	71	79	29.28	29.94	−0.3	71.9	−3.5	89	17	80	52	5	63	25	65	62	75	8.05	+4.5	16	4,258	sw.	28	s.	13	5	16	10	5.8	.....	.....
Des Moines	861	84	97	29.04	29.92	−0.4	71.0	−4.5	91	15	80	51	3	63	24	65	62	75	9.39	+5.5	15	4,371	nw.	33	se.	10	5	14	12	6.7	.....	.....
Dubuque	698	81	96	29.21	29.95	−0.2	69.6	−5.1	87	31	78	51	5	61	27	64	60	76	5.08	+0.8	20	3,644	nw.	24	se.	10	4	10	17	7.0	.....	.....
Keokuk	614	64	78	29.29	29.95	−0.3	72.9	−4.1	91	17	81	53	5	64	23	67	64	77	6.34	+2.3	17	4,305	nw.	30	n.	18	8	12	11	6.0	.....	.....
Cairo	356	87	93	29.58	29.95	−0.5	78.1	−0.5	97	30	87	60	5	69	23	70	67	73	3.51	+0.1	8	5,187	s.	37	se.	1	11	14	6	4.5	.....	.....
Peoria	644	10	91	29.30	29.96	−0.2	71.9	−3.5	91	14	81	51	5	63	29	67	65	81	6.91	+3.9	17	3,246	s.	26	nw.	18	6	14	11	5.8	.....	.....
Springfield, Ill.	644	10	91	29.27	29.94	−0.4	74.0	−2.5	92	15	83	51	5	65	25	67	64	74	5.72	+2.8	15	4,871	s.	35	w.	10	5	14	12	6.2	.....	.....
Hannibal	534	74	109	29.37	29.94	−0.4	73.4	−4.0	92	14	82	52	5	64	25	.....	.....	.....	9.00	+5.2	17	5,288	sw.	37	w.	30	9	9	13	5.8	.....	.....
St. Louis	567	265	303	29.35	29.95	−0.4	76.4	−2.7	94	15	85	55	5	68	27	70	67	77	6.02	+2.6	10	8,052	sw.	42	nw.	10	9	12	10	5.3	.....	.....
Missouri Valley.							71.2	− 4.5										76	6.15	+ 2.3										5.2		
Columbia, Mo.	781	11	84	29.12	29.93	− .05	74.1	− 3.3	93	30	83	50	5	65	27	.....	.....	.....	3.55	− 0.1	13	4,507	nw.	31	ne.	14	4	11	16	6.9	.....	.....
Kansas City	963	161	181	28.93	29.94	− .03	74.6	− 3.0	90	14	83	56	5	66	23	67	64	74	6.67	+ 1.8	16	7,508	s.	56	nw.	18	9	15	7	5.5	.....	.....
St. Joseph	967	11	49	28.92	29.94	.....	73.3	.....	91	15	82	54	4	64	26	67	64	78	12.92	.....	17	4,953	nw.	46	nw.	18	10	10	11	5.3	.....	.....
Springfield, Mo.	1,324	98	104	28.60	29.98	.00	74.0	− 2.4	92	30	83	51	5	65	27	67	63	72	1.82	− 3.0	8	6,259	s.	44	s.	12	21	8	2	2.5	.....	.....
Iola	984	11	50	28.91	29.92	− .05	75.0	− 3.1	94	18	85	49	5	65	29	.....	.....	.....	6.07	+ 2.2	15	4,598	s.	37	ne.	18	11	16	4	4.2	.....	.....
Topeka	983	85	101	.....	.....	.....	74.0	− 3.6	93	18	83	54	5	65	28	.....	.....	.....	7.86	+ 3.0	12	6,292	s.	37	ne.	12	11	13	7	5.0	.....	.....
Drexel	1,299	10	53	28.58	29.94	.....	69.6	.....	90	15	79	48	4	60	27	65	62	81	8.23	.....	15	5,996	se.	68	se.	18	9	15	7	5.3	.....	.....
Lincoln	1,189	11	84	28.68	29.92	− .03	71.7	− 4.7	95	15	81	48	4	62	29	65	62	77	6.74	+ 2.9	19	6,201	se.	53	nw.	15	11	13	7	5.2	.....	.....
Omaha	1,105	115	121	28.78	29.93	− .02	71.3	− 5.2	92	15	79	51	4	63	25	65	62	75	7.75	+ 3.4	18	4,960	nw.	42	nw.	15	11	11	9	5.1	.....	.....
Valentine	2,598	47	54	27.28	29.96	+ .03	67.6	− 5.6	92	6	79	39	5	56	41	60	56	73	7.40	+ 4.0	15	6,577	ne.	38	w.	6	5	21	5	5.5	.....	.....
Sioux City	1,135	94	164	28.74	29.93	− .02	69.8	− 4.4	90	23	78	48	4	61	28	64	62	79	7.45	+ 3.8	15	7,147	nw.	44	w.	29	12	10	9	5.1	.....	.....
Huron	1,306	59	74	28.58	29.96	+ .02	66.0	− 5.5	92	12	76	43	4	56	30	62	59	79	4.14	+ 1.2	13	6,426	nw.	46	se.	13	7	14	10	5.7	.....	.....
Pierre	1,572	70	75	28.32	29.97	+ .04	67.5	− 7.7	89	12	77	44	5	58	31	61	56	70	6.12	+ 3.8	16	6,274	se.	45	n.	15	11	14	6	5.2	.....	.....
Yankton	1,233	49	57	28.62	29.92	− .02	69.0	− 5.6	90	12	78	46	4	60	29	.....	.....	.....	8.21	+ 4.7	14	4,719	nw.	32	nw.	17	3	20	8	6.5	.....	.....

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

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.										
	Barometer above sea level.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles.								0-10		
Northern Slope.							62.8	− 5.3										66	3.09	+ 1.5										5.1	.....	....
Havre	2,505	11	44	27.36	29.96	+0.05	62.4	− 5.7	91	22	74	37	4	50	39	56	52	74	3.17	+ 1.2	15	3,988	e.	30	sw.	9	13	11	7	4.9	.....	....
Helena	4,110	87	114	25.83	29.97	+ .04	61.1	− 5.5	92	22	72	39	2	50	36	52	45	61	2.88	+ 1.8	19	5,726	sw.	38	sw.	27	10	12	9	5.3	.....	....
Kalispell	2,962	11	34	26.94	29.95	+ .02	60.0	− 4.3	90	22	73	39	11	47	39	52	47	68	2.74	+ 1.9	13	2,703	w.	18	sw.	11	10	13	8	4.7	.....	....
Miles City	2,371	26	48	27.48	29.99	+ .07	67.5	− 5.4	93	23	79	42	2	56	36	58	53	66	5.51	+ 4.1	19	3,653	n.	30	sw.	28	6	20	5	4.8	.....	....
Rapid City	3,259	50	58	26.62	29.99	+ .06	63.8	− 6.4	87	13	74	41	5	54	35	56	51	66	4.62	+ 2.1	18	5,662	n.	37	sw.	12	5	21	5	5.4	.....	....
Cheyenne	6,088	81	101	24.07	29.92	.00	62.3	− 5.1	89	11	75	33	4	50	39	53	47	66	1.71	− 0.3	10	8,008	s.	50	w.	6	6	20	5	5.6	.....	....
Lander	5,372	60	68	24.68	29.92	.00	63.0	− 5.0	93	22	78	38	10	48	46	50	40	50	0.75	− 0.1	11	3,758	sw.	42	nw.	23	8	21	2	4.4	.....	....
Sheridan	3,790	10	47	26.13	29.98	.....	61.2	.....	89	22	74	36	2	48	43	54	49	69	1.44	.....	13	3,890	nw.	38	sw.	31	11	10	10	5.2	T.	....
Yellowstone Park	6,200	11	48	23.94	29.96	+ .04	55.8	− 5.7	85	22	70	31	4	42	41	46	41	67	1.77	+ 0.6	15	5,020	nw.	37	nw.	22	6	13	12	6.1	.....	....
North Platte	2,821	11	51	27.09	29.97	+ .04	69.4	− 4.5	92	17	81	41	4	58	36	62	59	76	4.66	+ 2.0	15	4,913	se.	37	nw.	9	12	10	9	4.9	.....	....
Middle Slope.							73.7	− 3.1										66	2.87	− 0.1										4.6	.....	....
Denver	5,291	129	172	24.77	29.92	+ .01	68.7	− 3.1	96	11	82	46	2	55	38	56	48	56	1.28	− 0.3	10	5,313	sw.	41	ne.	1	12	11	8	4.7	.....	....
Pueblo	4,685	80	86	25.31	29.91	.00	71.1	− 3.1	99	11	84	51	7	58	42	56	48	56	1.91	− 0.1	9	4,980	se.	34	nw.	13	16	11	4	4.1	.....	....
Concordia	1,392	50	58	28.49	29.93	− .02	73.7	− 4.4	95	15	83	52	4	61	26	67	64	74	5.10	+ 1.5	17	5,264	s.	34	nw.	10	5	17	9	6.2	.....	....
Dodge	2,509	11	51	27.36	29.89	− .04	74.3	− 3.4	98	18	86	51	4	63	31	65	61	69	3.92	+ 0.5	13	7,070	s.	42	nw.	8	11	14	6	5.0	.....	....
Wichita	1,358	139	158	28.51	29.91	− .05	76.1	− 2.9	94	18	86	55	5	67	25	68	64	70	3.82	+ 0.2	11	9,239	s.	40	sw.	10	18	10	3	3.8	.....	....
Oklahoma	1,214	10	47	28.69	29.94	− .02	78.2	− 1.6	95	29	88	55	5	69	26	69	65	68	1.19	− 2.5	4	9,908	s.	38	s.	6	13	18	0	3.6	.....	....
Southern Slope.							79.8	− 0.6										59	2.31	− 0.5										3.3		
Abilene	1,738	10	52	28.15	29.90	− .03	81.6	− 0.6	100	18	93	55	5	71	29	68	61	55	0.80	− 1.6	4	8,321	s.	31	sw.	30	21	2	8	3.4	.....	....
Amarillo	3,676	10	49	26.27	29.92	.00	74.6	− 1.5	102	11	86	52	5	64	32	64	59	66	4.14	+ 1.0	14	8,893	s.	44	sw.	9	15	10	6	4.0	.....	....
Del Rio	944	64	71	28.92	29.88	− .02	85.5	+ 0.8	101	2	96	67	25	75	32	.....	.....	.....	3.85	+ 1.6	4	8,503	se.	32	sw.	31	22	9	0	2.8	.....	....
Roswell	3,566	75	85	26.34	29.86	− .02	77.6	− 1.3	102	10	90	60	4	65	37	63	55	55	0.45	− 3.0	9	5,687	s.	38	se.	8	4	21	6	5.9	.....	....
Southern Plateau.							80.4	− 1.4										46	1.66	+ 0.4										3.1		
El Paso	3,762	110	133	26.14	29.78	− .06	81.1	+ 0.6	103	9	94	64	11	69	35	64	53	48	2.45	+ 0.3	13	8,156	nw.	54	nw.	11	9	20	2	4.7	.....	....
Santa Fe	7,013	57	62	23.34	29.84	− .04	67.6	− 1.1	88	16	79	50	4	56	31	53	43	51	4.37	+ 1.7	11	5,356	se.	38	s.	5	11	14	6	5.1	.....	....
Flagstaff	6,908	8	57	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	....
Phoenix	1,108	76	81	28.64	29.75	− .03	87.3	− 3.1	107	1	100	66	7	75	37	68	56	40	1.12	0.0	5	4,109	e.	24	sw.	27	20	5	6	2.9	.....	....
Yuma	141	9	54	29.59	29.73	− .03	90.0	− 0.9	110	24	105	63	6	75	41	71	62	45	0.34	+ 0.2	1	4,328	w.	22	se.	27	26	4	1	1.1	.....	....
Independence	3,910	11	42	25.88	29.76	− .07	76.2	− 2.3	98	24	92	45	6	60	40	.....	.....	.....	0.04	0.0	1	4,774	se.	34	nw.	5	24	6	1	1.5	.....	....
Middle Plateau.							72.1	− 0.8										36	0.32	− 0.2										2.7		
Reno	4,532	74	81	25.46	29.86	− .01	69.2	+ 1.7	95	24	85	42	7	53	43	52	39	43	0.04	− 0.1	2	5,666	w.	34	w.	13	22	1	8	2.3	.....	....
Tonopah	6,090	12	20	24.08	29.86	.....	71.0	.....	89	25	83	46	6	59	30	51	36	31	0.21	− 0.1	3	6,157	w.	37	nw.	5	18	11	2	2.8	.....	....
Winnemucca	4,344	18	56	25.57	29.88	− .02	69.7	− 1.9	98	21	87	42	7	52	42	51	36	39	0.05	− 0.1	3	4,316	sw.	28	nw.	30	26	3	2	2.1	.....	....
Modena	5,479	10	43	24.61	29.83	− .03	69.2	− 0.5	91	21	84	45	6	54	38	50	34	36	1.41	+ 0.2	5	9,248	sw.	51	e.	24	18	8	5	3.0	.....	....
Salt Lake City	4,360	147	189	25.56	29.82	− .08	75.2	− 1.0	94	22	86	56	18	64	30	55	40	31	0.07	− 0.5	1	6,154	nw.	31	se.	28	21	7	3	2.8	.....	....
Grand Junction	4,602	82	96	25.33	29.82	− .07	77.1	− 2.1	97	11	91	56	4	64	35	56	40	31	0.16	− 0.3	3	5,932	e.	36	w	28	16	14	1	3.2	.....	....
Northern Plateau.							69.3	− 1.6										45	0.85	+ 0.4										4.1		
Baker	3,471	48	53	26.45	29.99	+ .04	63.1	− 1.9	96	21	78	38	17	49	44	50	41	52	1.09	+ 0.7	9	4,153	nw.	20	sw.	4	15	11	5	4.1	.....	....
Boise	2,739	78	86	27.10	29.90	− .03	70.6	− 2.2	100	21	85	45	17	56	40	54	40	41	0.63	+ 0.4	6	3,917	nw	32	nw.	16	18	7	6	3.5	.....	....
Lewiston	757	40	48	29.12	29.91	− .04	72.7	− 0.9	104	21	87	50	18	59	44	.....	.....	.....	0.89	+ 0.5	9	2,595	e.	20	nw.	16	15	6	10	4.2	.....	....
Pocatello	4,477	46	54	25.45	29.88	− .04	67.8	− 3.4	94	22	82	43	18	53	42	51	38	43	0.98	+ 0.4	8	4,578	se.	32	s.	31	11	18	2	4.0	.....	....
Spokane	1,929	101	110	27.91	29.92	− .04	68.7	− 0.1	98	21	80	47	14	57	38	55	44	49	0.85	+ 0.2	10	4,715	sw.	26	sw.	9	9	15	7	5.0	.....	....
Walla Walla	1,000	57	65	28.85	29.90	− .07	73.0	− 1.1	101	21	85	53	18	61	40	57	45	42	0.65	+ 0.3	4	3,927	s.	22	n.	3	15	12	4	3.7	.....	....
North Pacific Coast Region.							61.9	+ 0.7										76	1.12	+ 0.4										5.7		
North Head	211	11	56	29.84	30.07	− .01	57.6	− 0.1	65	19	60	51	23	56	10	56	55	90	1.61	+ 1.1	19	10,454	nw.	44	se.	8	3	7	21	7.3	.....	....
Port Crescent	259	8	53	29.78	30.06	.00	56.4	+ 0.1	85	1	63	40	18	49	33	.....	.....	.....	0.97	+ 0.4	11	3,302	w.	16	nw.	14	6	17	8	5.6	.....	....
Seattle	125	215	250	29.90	30.03	− .01	64.3	+ 0.8	89	20	72	52	13	56	27	58	54	72	0.84	+ 0.2	6	5,849	s.	30	sw.	12	9	8	14	5.6	.....	....
Tacoma	213	113	120	29.80	30.02	− .04	64.2	+ 0.8	90	20	73	51	9	55	31	57	53	71	0.91	+ 0.2	9	4,154	sw.	20	w.	12	9	8	14	5.5	.....	....
Tatoosh Island	109	7	57	29.94	30.03	− .02	55.8	+ 0.7	76	1	60	48	7	52	24	54	54	94	1.37	− 0.4	12	7,335	s.	36	s.	25	4	5	22	7.4	.....	....
Portland, Oreg.	153	68	106	29.85	30.01	− .04	67.2	+ 0.9	100	20	76	54	18	58	34	59	54	66	1.52	+ 1.0	8	3,896	nw.	21	w.	16	11	8	12	4.9	.....	....
Roseburg	510	9	57	29.48	30.02	− .01	67.8	+ 1.7	98	20	80	46	18	56	43	58	52	64	0.64	+ 0.3	5	2,725	n.	14	n.	17	13	13	5	3.8	.....	....
Middle Pacific Coast Region.							65.8	+ 0.3										61	0.04	0.0										2.6		
Eureka	62	73	89	29.98	30.05	.00	56.8	+ 1.5	66	7	60	48	17	53	13	54	52	86	0.26	+ 0.2	4	5,387	n.	29	n.	14	6	17	8	5.5	.....	....
Mount Tamalpais	2,375	11	18	27.50	29.94	− .01	68.7	− 1.8	91	24	76	46	5	61	21	54	41	43	0.03	0.0	2	13,005	nw.	72	nw.	30	28	2	1	0.7	.....	....
Point Reyes Light	490	7	18	29.39	29.91	.....	54.4	+ 0.7	64	6	58	47	18	51	12	.....	.....	.....	0.04	.....	1	18,591	nw.	72	nw.	13	6	11	14	6.3	.....	....
Red Bluff	332	50	56	29.49	29.83	− .06	80.5	− 1.6	109	22	95	53	5	66	38	61	48	37	T.	0.0	0	3,648	s.	23	n.	17	29	1	1	0.8	.....	....
Sacramento	69	106	117	29.78	29.85	− .03	72.8	+ 0.3	102	21	87	51	3	58	40	60	51	55	T.	0.0	0	6,486	s.	24	s.	4	29	2	0	0.5	.....	....
San Francisco	155	209	213	29.76	29.93	− .02	60.2	+ 2.9	79	17	67	51	31	53	24	55	52	82	0.01	0.0	1	8,901	sw.	36	sw.	26	19	8	4	3.1	.....	....
San Jose	141	12	110	29.79	29.94	.....	67.1	+ 0.2	93	21	80	49	19	54	38	.....	.....	.....	0.00	0.0	0	4,854	nw.	29	nw.	6	30	1	0	1.2	.....	....
South Pacific Coast Region.							70.3	+ 0.4										66	T.	0.0										2.4		
Fresno	327	89	98	29.49	29.84	+ .01	80.3	− 1.7	108	25	96	54	6	64	37	60	45	36	0.00	0.0	0	6,950	nw.	26	nw.	6	30	1	0	0.6	.....	....
Los Angeles	338	159	191	29.54	29.90	.00	70.0	+ 2.6	88	21	79	57	6	61	25	62	58	73	0.00	0.0	0	3,582	sw.	15	w.	19	17	13	1	3.2	.....	....
San Diego	87	62	70	29.81	29.90	− .02	67.5	+ 0.6	82	21	72	56	7	63	18	63	60	80	T.	0.0	0	4,804	w.	19	nw.	19	24	7	0	2.7	.....	....
San Luis Obispo	201	32	40	29.74	29.96	+ .01	63.3	+ 0.1	87	20	75	48	30	52	33	56	52	75	0.01	0.0	1	3,005	nw.	20	w.	7	17	14	0	3.3	.....	....
West Indies.																																
San Juan	82	8	54	29.93	30.01	+ .02	81.2	.....	91	17	86	71	20	77	15	.....	.....	.....	5.50	− 0.9	24	11,191	e.	35	e.	8	12	16	3	4.6	.....	....
Panama.																																
Balboa Heights	116	7	97	29.71	29.84	.....	79.8	.....	90	29	85	70	17	74	15	76	76	92	6.93	− 0.8	22	4,375	nw.	33	nw.	28	0	0	31	9.2	.....	....
Colon	25	5	71	29.80	29.83	.....	80.2	.....	89	20	84	72	1	76	12	78	77	92	20.72	+ 4.4	29	5,590	w.	26	w.	1	0	0	31	9.3	.....	....

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 July, 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	31			0.53														0.20			
Albany, N. Y	7-8			2.95														.61			
Alpena, Mich	11-12	10:50 p.m.	1:30 a.m.	1.42	12:43 a.m.	1:05 a.m.	0.11	0.27	0.68	1.11	1.28	1.29									
Amarillo, Tex	13	D. N. a.m.	D. N. a.m.	0.79	1:52 a.m.	2:10 a.m.	.08	.15	.31	.47	.55										
	15-16	11:15 p.m.	2:00 a.m.	1.69	11:37 p.m.	11:58 p.m.	.03	.09	.16	.39	.57	.58									
					12:55 a.m.	1:19 a.m.	.99	.06	.17	.23	.49	.64									
Anniston, Ala	5			1.72														.43			
Asheville, N. C	4	5:00 p.m.	5:50 p.m.	0.67	5:07 p.m.	5:38 p.m.	.03	.09	.16	.25	.41	.51	0.56	0.61							
Atlanta, Ga	20	10:40 a.m.	12:00 m.	0.81	11:01 a.m.	11:34 a.m.	.04	.07	.23	.46	.57	.59	.65	.72							
Atlantic City, N. J	17			0.43														.38			
Augusta, Ga	19-20	11:15 p.m.	D. N. a.m.	1.04	11:34 p.m.	12:03 a.m.	.20	.18	.30	.46	.52	.58	.65	.78							
Baker, Oreg	8-9			0.40														.13			
Baltimore, Md	11	8:55 p.m.	9:25 p.m.	0.72	9:05 p.m.	9:21 p.m.	.05	.11	.43	.64	.67										
Bentonville, Ark	18-19	12:12 p.m.	9:10 a.m.	1.05	10:27 p.m.	10:52 p.m.	.01	.10	.18	.37	.46	.53									
Binghamton, N. Y	8	8:37 a.m.	3:30 p.m.	3.12	8:43 a.m.	9:43 a.m.	.03	.05	.09	.14	.22	.32	.50	.60	0.71	0.79	0.82	.96			
Birmingham, Ala	1	1:45 a.m.	D. N. a.m.	0.90	1:49 a.m.	2:15 a.m.	.01	.12	.37	.56	.66	.82	.86								
	9	5:44 p.m.	9:55 p.m.	1.27	6:17 p.m.	6:47 p.m.	.01	.23	.61	.83	1.02	1.11	1.17								
Bismarck, N. Dak	13-14	10:05 p.m.	D. N. a.m.	1.40	11:21 p.m.	11:52 p.m.	.39	.07	.23	.35	.49	.66	.74	.78							
Block Island, R. I	19			0.22														.21			
Boise, Idaho	9			0.28														.23			
Boston, Mass	1	2:00 a.m.	7:30 a.m.	3.37	3:53 a.m.		.35	.09	.43	.19	.26	.35	.46	.59	.70	.80	1.00				
								1.11	1.20	1.25	1.30	1.40	1.54	1.66	1.74	1.83	1.89				
								1.97	2.07	2.19	2.25	2.33	2.44	2.51	2.64	2.76	2.81				
						6:43 a.m.		2.86	2.91	2.96	3.01										
Buffalo, N. Y	28			0.80														.62			
Burlington, Vt	17	D. N. a.m.	9:00 a.m.	0.69	7:43 a.m.	8:04 a.m.	.16	.05	.13	.25	.41	.45									
Cairo, Ill	7	9:50 p.m.	D. N. p.m.	2.00	10:00 p.m.	10:48 p.m.	.01	.16	.33	.63	1.26	1.56	1.74	1.76	1.78	1.92	1.98				
Canton, N. Y	17	12:46 p.m.	1:40 p.m.	1.01	12:46 p.m.	1:07 p.m.	.00	.28	.73	.90	.97	.99									
Charles City, Iowa	15	5:26 p.m.	8:30 p.m.	1.10	5:26 p.m.	6:01 p.m.	.00	.08	.27	.50	.55	.60	.65	.73							
	18	1:50 a.m.	4:00 a.m.	0.98	1:56 a.m.	2:21 a.m.	.02	.06	.20	.44	.54	.63									
	30	10:14 a.m.	12:40 p.m.	1.31	10:49 a.m.	11:19 a.m.	.03	.12	.39	.59	.90	1.03	1.11								
Charleston, S. C	5	5:45 p.m.	6:45 p.m.	0.63	5:48 p.m.	6:10 p.m.	.01	.15	.31	.39	.51	.57									
Charlotte, N. C	8	3:37 p.m.	4:33 p.m.	0.61	3:47 p.m.	4:03 p.m.	.03	.23	.29	.52	.55										
	13	12:18 p.m.	1:42 p.m.	0.70	12:30 p.m.	1:03 p.m.	.05	.10	.20	.35	.46	.62									
Chattanooga, Tenn	4-5	3:49 p.m.	6:29 a.m.	2.39	12:57 a.m.	1:47 a.m.	1.04	.09	.17	.33	.51	.57	.62								
Cheyenne, Wyo	13	12:50 p.m.	1:41 p.m.	0.56	1:18 p.m.	1:41 p.m.	.01	.11	.19	.31	.52	.55	.73	.80	.91	1.10					
	29	1:46 p.m.	2:10 p.m.	0.50	1:46 p.m.	2:01 p.m.	.00	.17	.32	.48											
Chicago, Ill	7	2:45 p.m.	8:45 p.m.	0.81	3:41 p.m.	3:54 p.m.	.19	.20	.33	.45											
Cincinnati, Ohio	7	8:55 p.m.	D. N. p.m.	1.05	9:21 p.m.	9:40 p.m.	.08	.06	.13	.56	.65										
	28	11:52 a.m.	12:59 p.m.	0.93	11:53 a.m.	12:13 p.m.	.01	.18	.46	.61	.89										
Cleveland, Ohio	14-15	10:45 p.m.	5:15 a.m.	0.96	2:59 a.m.	3:25 a.m.	.02	.07	.14	.32	.47	.67	.72								
	25	8:02 p.m.	10:42 p.m.	0.87	8:19 p.m.	8:44 p.m.	.02	.05	.22	.46	.67	.72									
Columbia, Mo	12	7:42 a.m.	10:03 a.m.	0.92	8:31 a.m.	9:06 a.m.	.05	.22	.33	.39	.43	.51	.59	.73							
Columbia, S. C	19-20			0.99														.58			
Columbus, Ohio	4	6:35 p.m.	9:35 p.m.	0.86	6:55 p.m.	7:34 p.m.	.03	.19	.28	.39	.47	.53	.55	.62	.69						
	15	4:30 p.m.	6:15 p.m.	0.67	4:53 p.m.	5:07 p.m.	.02	.28	.49	.57											
	20	3:25 p.m.	7:15 p.m.	1.08	3:51 p.m.	4:05 p.m.	.05	.21	.66	.82											
Concord, N. H	8			3.05														.77			
Concordia, Kans	16	2:28 a.m.	4:54 a.m.	1.56	2:30 a.m.	3:30 a.m.	.01	.14	.29	.50	.62	.77	.85	.90	1.00	1.04	1.08	1.16			
	30	1:05 a.m.	3:30 a.m.	0.78	1:12 a.m.	1:29 a.m.	.01	.23	.31	.51	.56										
Corpus Christi, Tex	26			0.02														.02			
Davenport, Iowa	7	3:55 p.m.	5:24 p.m.	2.74	4:19 p.m.	5:05 p.m.	.05	.29	.54	.81	1.07	1.35	1.64	2.11	2.42	2.63	2.69				
	13	7:31 p.m.	8:00 p.m.	1.38	7:34 p.m.	7:56 p.m.	.01	.37	.66	.92	1.30	1.37									
Dayton, Ohio	7	6:20 p.m.	11:10 p.m.	2.13	8:55 p.m.	9:50 p.m.	.29	.13	.21	.41	.48	.55	.60	.81	1.08	1.33	1.48	1.64			
Del Rio, Tex	21	11:55 a.m.	3:50 p.m.	2.46	12:42 p.m.	1:30 p.m.	.44	.19	.26	.33	.48	.85	1.06	1.19	1.34	1.47	1.52				
	31	4:50 p.m.	7:20 p.m.	1.02	4:52 p.m.	5:33 p.m.	.01	.14	.34	.50	.57	.61	.64	.74	.85	.96					
Denver, Colo	2-3	9:35 p.m.	D. N. a.m.	0.35	9:38 p.m.	9:46 p.m.	.01	.23	.32												
Des Moines, Iowa	7	12:40 a.m.	4:30 a.m.	1.28	1:56 a.m.	2:22 a.m.	.08	.18	.51	.85	1.04	1.08									
	10	6:04 a.m.	9:35 a.m.	0.97	7:16 a.m.	7:33 a.m.	.09	.16	.34	.63	.70										
	18	1:50 a.m.	3:45 a.m.	0.67	1:58 a.m.	2:18 a.m.	.01	.17	.35	.44	.50										
Detroit, Mich	16	12:18 p.m.	12:35 p.m.	0.82	12:20 p.m.	12:31 p.m.	.01	.33	.76	.81											
	30	D. N. a.m.	D. N. a.m.	1.75	1:23 a.m.	2:13 a.m.	.01	.17	.25	.35	.57	.83	.99	1.24	1.39	1.58	1.72				
Devils Lake, N. Dak	12			0.22														.14			
Dodge City, Kans	8	10:55 p.m.	11:40 p.m.	0.60	11:00 p.m.	11:26 p.m.	.02	.07	.10	.18	.33	.48	.50								
	16	7:55 p.m.	9:55 p.m.	0.98	8:41 p.m.	9:29 p.m.	.01	.06	.14	.42	.58	.63	.68	.72	.79	.86	.91				
Dubuque, Iowa	7	D. N. a.m.	10:45 a.m.	1.72	5:42 a.m.	6:12 a.m.	.35	.06	.17	.27	.41	.50	.56								
Duluth, Minn	20			0.21														.19			
Eastport, Me	8-9			2.02														.51			
Elkins, W. Va	11			0.36														.34			
El Paso, Tex	23			0.59														.50			
Erie, Pa	12	5:00 a.m.	6:10 a.m.	0.86	5:16 a.m.	5:51 a.m.	.02	.17	.34	.52	.64	.67	.76	.81							
Escanaba, Mich	4			0.76														.22			
Eureka, Cal	6			0.17														.03			
Evansville, Ind	12	4:30 p.m.	6:00 p.m.	0.75	5:26 p.m.	5:48 p.m.	.21	.15	.30	.42	.53	.54									
	17	D. N. a.m.	6:30 a.m.	0.63	4:34 a.m.	4:51 a.m.	.02	.10	.31	.51	.55										
Fort Smith, Ark	19			0.39														.30			
Fort Wayne, Ind	14-15	7:05 p.m.	7:10 a.m.	1.00	7:58 p.m.	8:23 p.m.	.09	.06	.14	.36	.55	.60									
Fort Worth, Tex	4			0.15														.12			
Fresno, Cal	‡																				
Galveston, Tex	21	1:55 p.m.	4:10 p.m.	1.30	2:21 p.m.	2:51 p.m.	.03	.23	.65	.91	1.06	1.13	1.19								
Grand Haven, Mich	15			0.46														.38			
Grand Junction, Colo	29			0.13														.13			
Grand Rapids, Mich	1	12:38 p.m.	2:00 p.m.	1.41	12:42 p.m.	1:22 p.m.	.01	.11	.39	.67	.91	1.10	1.15	1.28	1.38						
Green Bay, Wis	24			0.76														.35			
Hannibal, Mo	7	1:47 p.m.	2:32 p.m.	1.30	2:06 p.m.	2:25 p.m.	.02	.22	.53	1.07	1.28										
	10	10:42 a.m.	1:18 p.m.	0.71	10:58 a.m.	11:16 a.m.	.01	.14	.31	.47	.55										
		8:43 p.m.	D. N. p.m.	1.00	9:19 p.m.	9:44 p.m.	.12	.19	.37	.45	.61	.74									
	30	4:09 p.m.	6:10 p.m.	1.53	4:11 p.m.	4:35 p.m.	.01	.31	.76	1.04	1.16										
Harrisburg, Pa	8	9:30 a.m.	1:25 p.m.	1.75	11:37 a.m.	12:13 p.m.	.15	.16	.37	.58	.73	.89	1.37	1.55	1.60						
Hartford, Conn	14	6:27 p.m.	6:55 p.m.	0.51	6:29 p.m.	6:42 p.m.	.01	.17	.43	.50											
	31	6:15 p.m.	7:40 p.m.	1.00	6:15 p.m.	7:26 p.m.	.00	.05	.11	.20	.23	.30	.38	.50	.57	.65	.70	.86	1.00		
Hatteras, N. C	5	11:30 a.m.	12:40 p.m.	0.68	11:37 a.m.	11:45 a.m.	.01	.24	.35												
Havre, Mont	9			0.50														.34			
Helena, Mont	26-27			0.68														.42			
Houghton, Mich	4-5			0.68														*			
Houston, Tex	3	9:10 a.m.	12:05 p.m.	0.78	9:26 a.m.	9:52 a.m.	.03	.20	.31	.44	.47	.64	.71								
	20	6:05 p.m.	D. N. p.m.	1.24	6:17 p.m.	7:07 p.m.	.06	.13	.26	.32	.50	.56	.57	.63	.76	.91	1.03				
Huron, S. Dak	26			1.21														*			
Independence, Cal	21			0.04														.04			

* Self-register not working.

‡ No precipitation occurred during month.

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

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive rate began.	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.
Indianapolis, Ind	7	2:46 p. m.	9:20 p. m.	4.13	3:13 p. m.	4:13 p. m.	0.01	0.08	0.14	0.22	0.42	0.65	0.79	0.87	0.97	1.15	1.45	1.71			
					6:13 p. m.	6:42 p. m.	2.05	.19	.59	.95	1.23	1.36	1.40								
Iola, Kans	28	3:46 p. m.	4:30 p. m.	0.77	4:06 p. m.	4:20 p. m.	.01	.23	.47	.70											
	12	7:35 a. m.	9:38 a. m.	1.18	8:01 a. m.	8:36 a. m.	.01	.23	.53	.70	.77	.88	.93	.98							
	15	12:40 a. m.	3:43 a. m.	0.78	12:43 a. m.	1:12 a. m.	.01	.13	.29	.41	.50	.62	.68								
	18	6:38 p. m.	7:35 p. m.	0.87	6:41 p. m.	7:24 p. m.	.01	.14	.26	.37	.44	.56	.61	.71	.81	.85					
Jacksonville, Fla	5	5:40 p. m.	7:50 p. m.	1.53	5:47 p. m.	6:04 p. m.	.01	.16	.41	.62	.71										
					7:03 p. m.	7:32 p. m.	.82	.07	.23	.32	.46	.60	.70								
	6	2:50 p. m.	3:35 p. m.	0.62	3:10 p. m.	3:24 p. m.	.03	.12	.34	.58											
	7	1:35 p. m.	3:20 p. m.	1.22	1:56 p. m.	2:19 p. m.	.01	.34	.76	.98	1.13	1.20									
	10	11:41 a. m.	2:15 p. m.	1.45	11:43 a. m.	12:11 p. m.	.01	.20	.50	.84	1.08	1.34	1.40								
	14	2:58 p. m.	7:15 p. m.	1.34	3:01 p. m.	3:26 p. m.	.01	.27	.62	.98	1.16	1.25									
Kalispel, Mont	27			0.36														.23			
Kansas City, Mo	12	5:18 a. m.	7:45 a. m.	1.02	5:20 a. m.	5:59 a. m.	.01	.06	.16	.48	.52	.56	.62	.74	.81						
	24	1:25 a. m.	5:45 a. m.	1.19	3:04 a. m.	3:25 a. m.	.04	.20	.30	.41	.55	.60									
Keokuk, Iowa	7	3:50 a. m.	5:30 a. m.	0.94	4:01 a. m.	4:33 a. m.	.03	.08	.31	.32	.36	.58	.69	.74							
		2:50 p. m.	3:12 p. m.	0.53	2:56 p. m.	3:12 p. m.	.01	.07	.26	.51	.52										
	10	10:32 a. m.	1:00 p. m.	1.92	10:45 a. m.	11:11 a. m.	.05	.28	.74	.93	1.26	1.76	1.78								
	30	5:00 p. m.	5:45 p. m.	0.67	5:05 p. m.	5:29 p. m.	.02	.10	.28	.41	.53	.64									
Key West, Fla	24	9:00 a. m.	9:40 a. m.	0.90	9:05 a. m.	9:33 a. m.	.01	.07	.26	.52	.68	.76	.88								
	28	4:25 a. m.	5:20 a. m.	0.59	4:38 a. m.	5:08 a. m.	.04	.19	.26	.29	.34	.45	.54								
Knoxville, Tenn	4-5			1.35														.46			
La Crosse, Wis	18	2:16 a. m.	D. N. a. m.	1.15	3:38 a. m.	3:56 a. m.	.19	.05	.26	.43	.49										
Lander, Wyo	27			0.32														.13			
Lansing, Mich	1	3:13 p. m.	4:30 p. m.	0.65	3:24 p. m.	3:49 p. m.	.02	.06	.15	.35	.48	.57									
	18	6:25 p. m.	7:30 p. m.	0.73	6:47 p. m.	7:09 p. m.	.06	.09	.21	.48	.58	.66									
Lewiston, Idaho	16			0.37														.21			
Lexington, Ky	1	3:00 p. m.	8:00 p. m.	1.22	5:46 p. m.	6:01 p. m.	.36	.12	.52	.75											
	7-8	D. N. p. m.	D. N. a. m.	2.09	10:43 p. m.	11:17 p. m.	.03	.15	.49	.70	.87	1.01	1.14	1.21							
Lincoln, Nebr	6-7	11:00 p. m.	12:25 a. m.	0.62	11:13 p. m.	11:45 p. m.	.02	.18	.23	.29	.44	.47	.54	.58							
	15-16	8:42 p. m.	1:00 a. m.	1.43	8:55 p. m.	10:01 p. m.	.05	.06	.08	.14	.21	.33	.40	.52	.60	.71	.76	1.01	1.27		
	31	3:40 p. m.	5:35 p. m.	0.91	4:02 p. m.	4:38 p. m.	.03	.07	.09	.28	.37	.49	.64	.75	.78						
Little Rock, Ark	8	3:10 p. m.	3:50 p. m.	0.51	3:18 p. m.	3:42 p. m.	.02	.08	.24	.32	.38	.48									
Los Angeles, Cal	‡																				
Louisville, Ky	30	3:46 p. m.	4:03 p. m.	0.43	3:49 p. m.	3:58 p. m.	.01	.27	.41												
Ludington, Mich	27	8:13 p. m.	11:15 p. m.	1.64	9:31 p. m.	11:00 p. m.	.16	.20	.28	.28	.29	.36									
Lynchburg, Va	4	6:20 p. m.	8:40 p. m.	1.39	6:41 p. m.	6:59 p. m.	.02	.45	.76	1.08	1.11										
Macon, Ga	1	2:20 p. m.	4:05 p. m.	0.51	2:22 p. m.	2:36 p. m.	.01	.19	.40	.46	.58	.63	.63	.64	.69	.81	1.32	1.47			
Madison, Wis	31	8:25 p. m.	9:30 p. m.	1.59	8:30 p. m.	8:58 p. m.	.02	.15	.38	.67	1.05	1.33	1.38								
Marquette, Mich	11			0.67														.30			
Memphis, Tenn	17			0.39														.39			
Meridian, Miss	5			0.42														.32			
Miami, Fla	25	10:45 a. m.	1:50 p. m.	1.10	11:50 a. m.	12:15 p. m.	.14	.09	.40	.71	.81	.91									
	27	9:02 p. m.	9:40 p. m.	0.61	9:08 p. m.	9:27 p. m.	.01	.06	.27	.43	.59										
	31	3:26 p. m.	D. N. p. m.	0.99	4:12 p. m.	4:38 p. m.	.12	.06	.23	.37	.43	.50	.53								
Milwaukee, Wis	7			0.86														.29			
Minneapolis, Minn	14	D. N.	D. N.	2.42	2:28 a. m.	3:38 a. m.	.03	.08	.23	.44	.65	.81	.95	1.01	1.05	1.09	1.20	1.63	2.38		
Mobile, Ala	2-3	9:45 p. m.	12:20 p. m.	3.77	10:40 p. m.	11:02 p. m.	.31	.41	.49	.73	.93	.97									
					11:53 p. m.	12:43 a. m.	1.41	.13	.36	.43	.45	.49	.52	.54	.71	.98	1.08				
Modena, Utah	24	7:56 p. m.	D. N. p. m.	0.70	8:34 p. m.	9:05 p. m.	.12	.08	.14	.16	.23	.33	.51	.54							
Montgomery, Ala	2	1:00 p. m.	2:25 p. m.	1.01	1:13 p. m.	1:47 p. m.	.04	.16	.39	.55	.71	.81	.87	.91							
	5	6:05 a. m.	2:25 p. m.	1.14	6:32 a. m.	7:00 a. m.	.07	.06	.15	.22	.48	.56	.63								
		4:20 p. m.	6:10 p. m.	0.56	4:37 p. m.	4:55 p. m.	.01	.17	.36	.47	.53										
	17	12:15 p. m.	2:10 p. m.	0.61	1:18 p. m.	1:42 p. m.	.03	.14	.31	.47	.53	.58									
Moorhead, Minn	15	3:55 p. m.	5:00 p. m.	0.52	4:00 p. m.	4.17 p. m.	.02	.13	.26	.40	.44										
Mount Tamalpais, Cal	4-5			0.03														.01			
Nantucket, Mass	21			0.50														.16			
Nashville, Tenn	2-3			0.45														.38			
New Haven, Conn	5			0.60														.51			
New Orleans, La	3	6:20 a. m.	11:00 a. m.	2.51	6:25 a. m.	7:14 a. m.	.01	.10	.52	.93	1.22	1.48	1.58	1.68	2.06	2.20	2.39				
	19	5:29 p. m.	7:25 p. m.	1.61	5:29 p. m.	6:17 p. m.	.00	.10	.33	.80	1.07	1.17	1.29	1.37	1.46	1.52	1.56				
New York, N. Y	5	7:58 a. m.	10:50 a. m.	0.97	8:05 a. m.	8:30 a. m.	.02	.05	.36	.51	.68	.81									
	22	11:55 a. m.	1:25 p. m.	1.06	11:55 a. m.	12:25 p. m.	.00	.21	.48	.57	.61	.64	.87								
Norfolk, Va	20	11:35 a. m.	1:30 p. m.	1.91														1.75*			
		7:25 p. m.	9:00 p. m.	1.14														1.02*			
	29	6:50 p. m.	8:30 p. m.	1.16	7:21 p. m.	7:51 p. m.	.11	.28	.55	.75	.92	.98	1.03								
Northfield, Vt	7-8			1.81														*			
North Head, Wash	13			0.46														.15			
North Platte, Nebr	9-10	11:20 p. m.	D. N. a. m.	1.02	11:34 p. m.	12:23 a. m.	.01	.12	.21	.22	.27	.48	.61	.71	.82	.88	.92				
	31-1[1]	11:38 p. m.	D. N. a. m.	1.53	11:43 p. m.	12:33 a. m.	.01	.19	.49	.72	.84	.91	1.06	1.18	1.31	1.36	1.41				
Oklahoma, Okla	4			0.48														.40			
Omaha, Nebr	11-12	11:55 p. m.	3:45 a. m.	2.33	12:25 a. m.	1:55 a. m.	.15	.09	.19	.31	.37	.43	.57	.62	.68	.74	.86	.96	1.37		
					3:03 a. m.	3:36 a. m.	1.69	.10	.26	.40	.47	.52	.59	.63							
	18	11:15 a. m.	12:30 p. m.	0.79	11:31 a. m.	11:44 a. m.	.01	.26	.68	.76											
Oswego, N. Y	3	4:47 p. m.	9:40 p. m.	1.45	5:17 p. m.	5:32 p. m.	T.	.74	1.21	1.28											
Palestine, Tex	3	5:30 p. m.	7:40 p. m.	2.71	5:32 p. m.	7:22 p. m.	.01	.13	.17	.19	.21	.31	.47	.61	.67	.69	.73	1.25	1.96	2.55	2.70
Parkersburg, W. Va	31	5:45 p. m.	6:10 p. m.	0.43	5:51 p. m.	6:02 p. m.	.01	.25	.40	.41											
Pensacola, Fla	10	2:00 p. m.	3:55 p. m.	0.76	2:17 p. m.	2:39 p. m.	.07	.11	.21	.42	.52	.57									
Peoria, Ill	7	3:25 p. m.	6:10 p. m.	1.25	4:50 p. m.	5:50 p. m.	.08	.21	.27	.41	.63	.71	.83	.88	.92	.98	1.02	1.15			
	30	8:27 p. m.	9:20 p. m.	0.80	8:32 p. m.	8:41 p. m.	.01	.42	.54												
Philadelphia, Pa	13	9:35 p. m.	10:40 p. m.	0.70	9:55 p. m.	10:13 p. m.	.09	.26	.41	.48	.56										
	28-29	8:25 p. m.	1:00 a. m.	1.20	9:28 p. m.	9:58 p. m.	.02	.11	.32	.35	.49	.76	.88								
Phoenix, Ariz	27	8:27 p. m.	10:00 p. m.	0.54	8:57 p. m.	9:13 p. m.	.06	.09	.24	.36	.40										
Pierre, S. Dak	13	1:03 a. m.	3:55 a. m.	0.78	1:04 a. m.	1:32 a. m.	T.	.08	.22	.32											
Pittsburgh, Pa	2			1.04														.57			
Pocatello, Idaho	9			0.32														.14			
Point Reyes Light, Cal	5			0.04														.01			
Port Huron, Mich	16	1:39 p. m.	2:40 p. m.	0.71	2:00 p. m.	2:20 p. m.	.01	.08	.09	.39	.62										
Portland, Me	3	1:12 a. m.	9:45 a. m.	3.22	2:29 a. m.	3:24 a. m.	.05	.05	.10	.15	.29	.47	.63	.74	.77	.78	.87	1.06			
					6:34 a. m.	7:22 a. m.	1.95	.07	.18	.36	.45	.60	.71	.93	1.03	1.13	1.17				
	8	6:34 a. m.	11:25 p. m.	3.66	7:50 p. m.	8:40 p. m.	2.08	.09	.17	.24	.29	.34	.37	.45	.54	.63	.70				
Portland, Oreg	6-7			0.71														.27			
Providence, R. I	1	12:10 a. m.	4:45 a. m.	3.36	1:35 a. m.	4:17 a. m.	0.06	.10	.23	.33	.49	.70	.99	1.17	1.26	1.31	1.39				
								1.49	1.57	1.74	1.83	1.89	1.96	2.09	2.21	2.25	2.30				
								2.36	2.52	2.58	2.62	2.65	2.78	2.92	2.99	3.04	3.06				
								3.10	3.20	3.25											
Pueblo, Colo	15	5:33 p. m.	6:32 p. m.	0.86	5:52 p. m.	6:21 p. m.	.07	.15	.34	.51	.63	.72	.78								

[1] Aug. 1. * Self-register not working. ‡ No precipitation occurred during month.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during July, 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.
Raleigh, N. C.	8	3:03 p.m.	4:55 p.m.	1.35	3:28 p.m.	4:14 p.m.	0.09	0.35	0.52	0.59	0.70	0.70	0.71	0.85	1.04	1.10	1.12				
Rapid City, S. Dak.	30	4:16 p.m.	8:40 p.m.	0.95	4:31 p.m.	4:46 p.m.	.02	.25	.49	.59											
Reading, Pa.	8	1:27 p.m.	2:36 p.m.	1.12	1:37 p.m.	2:27 p.m.	.02	.19	.27	.45	.62	.67	.73	.86	.97	1.02	1.08				
	26	8:13 p.m.	11:35 p.m.	1.08	8:54 p.m.	9:56 p.m.	.03	.15	.26	.31	.34	.36	.37	.42	.59	.74	.79	0.82	0.98		
Red Bluff, Cal.	6			T.														T.			
Reno, Nev.	2			0.03														.02			
Richmond, Va.	21	5:01 p.m.	5:40 p.m.	0.81	5:11 p.m.	5:38 p.m.	.02	.06	.20	.42	.60	.77	.79								
Rochester, N. Y.	26			0.40														.29			
Roseburg, Oreg.	6–7			0.49														*			
Roswell, N. Mex.	19–20			0.25														.14			
Sacramento, Cal.	6			T.														T.			
Saginaw, Mich.	4			0.80														.64			
St. Joseph, Mo.	13	4:15 a.m.	8:30 a.m.	2.50	4:21 a.m.	5:25 a.m.	.01	.14	.30	.44	.62	.81	1.07	1.36	1.61	1.82	1.98	2.18	2.29		
		2:47 p.m.	3:45 p.m.	0.82	2:53 p.m.	3:19 p.m.	.02	.23	.49	.56	.61	.65	.70								
	18	4:47 p.m.	6:00 p.m.	0.62	4:50 p.m.	5:06 p.m.	.01	.24	.39	.51	.55										
	26	2:55 p.m.	5:45 p.m.	1.68	3:25 p.m.	3:32 p.m.	.01	.50	.59												
					4:29 p.m.	4:46 p.m.	.86	.18	.52	.70	.77										
St. Louis, Mo.	7	6:48 a.m.	8:20 a.m.	0.56	6:53 a.m.	7:13 a.m.	.01	.18	.36	.44	.50										
	18	4:10 p.m.	5:15 p.m.	0.85	4:31 p.m.	5:01 p.m.	.13	.05	.11	.15	.29	.48	.66								
		8:40 a.m.	9:05 a.m.	0.62	8:48 a.m.	9:01 a.m.	.06	.11	.42	.56											
		2:02 p.m.	5:30 p.m.	0.95	2:55 p.m.	3:17 p.m.	.08	.32	.52	.64	.70	.75									
	30	5:40 a.m.	10:25 a.m.	1.65	7:46 a.m.	8:29 a.m.	.58	.13	.28	.45	.50	.54	.62	.65	.83	.90					
St. Paul, Minn.	14	3:10 a.m.	4:30 a.m.	1.13	3:15 a.m.	3:58 a.m.	.01	.06	.27	.49	.69	.78	.86	.91	1.03	1.08					
Salt Lake City, Utah	5			0.07														.07			
San Antonio, Tex.	4	5:55 a.m.	8:45 a.m.	0.81	6:16 a.m.	6:31 a.m.	.08	.12	.26	.37											
San Diego, Cal.	10			T.														T.			
Sand Key, Fla.	23	1:01 a.m.	3:50 a.m.	0.83	2:08 a.m.	2:23 a.m.	.36	.18	.33	.43											
Sandusky, Ohio	11	D. N. a.m.	10:20 a.m.	1.06	8:26 a.m.	9:11 a.m.	.25	.05	.11	.26	.35	.47	.51	.55	.62	.69					
San Francisco, Cal.	4			0.01														.01			
San Jose, Cal.	‡																				
San Luis Obispo, Cal.	5			0.01														.01			
Santa Fe, N. Mex.	3			0.67														.54			
Sault Ste. Marie, Mich.	4–5			1.21														*			
Savannah, Ga.	4	2:00 p.m.	4:00 p.m.	0.61	2.36 p.m.	2:56 p.m.	.01	.22	.33	.49	.58										
	6	4:50 p.m.	6:05 p.m.	1.54	4:52 p.m.	5:25 p.m.	.01	.18	.53	.96	1.26	1.37	1.45	1.50							
	9	11:37 a.m.	12:10 p.m.	0.52	11:42 a.m.	11:56 a.m.	.01	.23	.38	.51											
	9	3:52 p.m.	5:05 p.m.	0.98	3:54 p.m.	4:29 p.m.	.01	.09	.15	.23	.27	.53	.75	.87							
	10	2:57 p.m.	7:05 p.m.	1.39	3:13 p.m.	3:34 p.m.	.07	.13	.41	.68	1.01	1.05									
Scranton, Pa.	19			0.36														.32			
Seattle, Wash.	13–14			0.47														.37			
Sheridan, Wyo.	31	3:20 p.m.	5:00 p.m.	0.72	4:40 p.m.	4:53 p.m.	.17	.15	.43	.54											
Shreveport, La.	4			2.10														.69			
Sioux City, Iowa	6–7	10:10 p.m.	1:00 a.m.	1.34	10:39 p.m.	10:56 p.m.	.03	.11	.52	.82	.89										
	17–18	10:45 p.m.	12:30 a.m.	1.72	11:06 p.m.	12:03 a.m.	.03	.19	.34	.38	.51	.57	.67	.95	1.25	1.49	1.53	1.69			
Spokane, Wash.	9			0.26														.26			
Springfield, Ill.	30–31	10:19 p.m.	D. N. a.m.	2.07	10:21 p.m.	11:39 p.m.	.01	.20	.38	.38	.39	.39	.40	.46	.72	.90	1.13	1.25	1.81		
Springfield, Mo.	18–19	8:50 p.m.	D. N. a.m.	0.66	9:00 p.m.	9:17 p.m.	.01	.12	.30	.43	.48										
Syracuse, N. Y.	2	5:05 p.m.	8:45 p.m.	2.63	5:09 p.m.	7:09 p.m.	T.	.24	.48	.65	.79	.95	1.02	1.23	1.28	1.29	1.29	1.32	1.96	2.27	2.48
	13	1:32 p.m.	3:00 p.m.	1.13	1:58 p.m.	2:22 p.m.	.03	.30	.52	.78	.89	1.01									
		6:10 p.m.	7:25 p.m.	0.67	6:36 p.m.	7:01 p.m.	.02	.15	.34	.48	.54	.60									
Tacoma, Wash.	16			0.23														.21			
Tampa, Fla.	21	D. N. a.m.	D. N. a.m.	0.85	1:11 a.m.	2:11 a.m.	.01	.09	.18	.25	.32	.41	.45	.46	.50	.59	.69	.80			
	22–23	D. N. p.m.	1:15 p.m.	1.41	10:56 a.m.	11:27 a.m.	.65	.08	.15	.18	.24	.52	.62	.64							
	31	1:13 p.m.	2:03 p.m.	0.65	1:13 p.m.	1:36 p.m.	.00	.05	.30	.49	.59	.63									
Tatoosh Island, Wash.	7–8			0.43														.14			
Taylor, Tex.	27	8:01 a.m.	10:10 a.m.	0.83	8:01 a.m.	8:46 a.m.	.00	.05	.09	.17	.28	.40	.46	.54	.69	.78					
Terre Haute, Ind.	7	2:30 p.m.	8:30 p.m.	3.46	5:03 p.m.	6:14 p.m.	.49	1.05	1.32	1.38	1.56	1.70	1.80	1.98	2.18	2.38	2.46	2.57	2.94		
	28	3:20 p.m.	4:28 p.m.	0.78	3:39 p.m.	4:09 p.m.	.01	.21	.24	.28	.44	.61	.71								
Thomasville, Ga.	2	8:10 a.m.	8:53 a.m.	0.94	8:19 a.m.	8:39 a.m.	.01	.16	.44	.77	.91										
	3	11:26 a.m.	1:42 p.m.	0.81	11:33 a.m.	11:47 a.m.	.01	.26	.58	.66											
Toledo, Ohio	28	5:56 a.m.	6:17 a.m.	0.76	5:58 a.m.	6:10 a.m.	.01	.45	.70	.75											
	31	1:10 p.m.	2:12 p.m.	0.70	1:19 p.m.	1:48 p.m.	.01	.09	.24	.41	.47	.53	.59								
Tonopah, Nev.	22			0.15														.10			
Topeka, Kans.	13	2:17 a.m.	9:45 a.m.	1.27	2:20 a.m.	2:32 a.m.	.01	.37	.49	.53											
	14	8:21 p.m.	11:00 p.m.	1.06	8:31 p.m.	9:08 p.m.	.04	.07	.11	.25	.56	.63	.67	.75	.83						
	18	3:17 p.m.	5:40 p.m.	1.34	3:30 p.m.	4:16 p.m.	.01	.14	.26	.33	.37	.42	.47	.58	.68	.76	.79				
Valentine, Nebr.	6–7	5:12 p.m.	7:40 a.m.	4.02	5:44 p.m.	6:29 p.m.	.02	.10	.30	.57	1.19	1.94	2.44	2.62	2.74	2.79					
	24	11:43 a.m.	2:05 p.m.	1.25	11:54 a.m.	12:24 p.m.	T.	.05	.19	.57	.80	1.14	1.19								
	30	9:24 p.m.	11:35 p.m.	0.79	9:50 p.m.	10:15 p.m.	.16	.07	.16	.32	.42	.53									
Vicksburg, Miss.	2			0.74														.21			
Walla Walla, Wash.	29			0.26														.09			
Washington, D. C.	16	3:35 p.m.	5:35 p.m.	0.77	3:39 p.m.	3:58 p.m.	.03	.24	.49	.64	.70										
	19	2:13 p.m.	3:50 p.m.	1.14	2:29 p.m.	3:14 p.m.	.05	.10	.12	.23	.38	.47	.51	.64	.86	1.06					
Wichita, Kans.	19	3:08 a.m.	D. N. a.m.	1.09	3:19 a.m.	4:20 a.m.	.01	.17	.32	.44	.57	.70	.78	.83	.88	.93	.99	1.03			
	30–31	10:45 p.m.	5:50 a.m.	1.19	11:20 p.m.	11:57 p.m.	.03	.09	.28	.49	.61	.69	.76	.84	.88						
Williston, N. Dak.	10			0.64														.30			
Wilmington, N. C.	8–9	7:56 p.m.	D. N. a.m.	2.44	1:07 a.m.	1:38 a.m.	1.86	.10	.15	.18	.31	.42	.51								
					7:58 p.m.	8:39 p.m.	.01	.07	.14	.28	.43	.51	.60	.74	.85	.88					
					11:18 p.m.	11:30 p.m.	1.29	.32	.49	.54											
	19	12:03 p.m.	12:55 p.m.	0.61	12:06 p.m.	12:27 p.m.	.01	.20	.36	.46	.58	.60									
	20–21	8:02 p.m.	D. N. a.m.	2.42	8:02 p.m.	8:29 p.m.	.00	.21	.42	.61	.67	.69	.74	.76							
					9:23 p.m.	9:49 p.m.	.75	.12	.43	.64	.71										
Winnemucca, Nev.	6			0.03														.02			
Wytheville, Va.	4–5	8:05 p.m.	5:55 a.m.	0.85	2:45 a.m.	2:55 a.m.	.36	.22	.34												
Yankton, S. Dak.	10	2:25 a.m.	4:40 a.m.	1.04	2:28 a.m.	3:03 a.m.	.01	.35	.47	.51	.59	.72	.82								
	14	6:10 a.m.	9:15 a.m.	1.86	6:15 a.m.	6:49 a.m.	.02	.75	1.01	1.22	1.37	1.47	1.51								
	15	2:50 p.m.	4:45 p.m.	0.66	3:00 p.m.	3:13 p.m.	.01	.49	.53												
	17	9:20 p.m.	9:55 p.m.	0.90	9:22 p.m.	9:45 p.m.	.01	.31	.48	.69	.87										
Yellowstone Park, Wyo.	26			0.20														.20			

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

TABLE III.—*Data furnished by the Canadian Meteorological Service, July, 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.	29.85	29.99	+0.02	56.1	−3.2	63.8	48.2	79	39	3.09	+0.80	.....
Sydney, C. B. I.	29.91	29.95	+ .02	61.4	−0.9	71.4	51.5	79	44	3.44	−0.21	.....
Halifax, N. S.	29.84	29.94	− .02	63.5	+0.1	72.8	54.2	84	48	3.23	−0.82	.....
Yarmouth, N. S.	29.86	29.93	− .02	60.2	+0.7	67.8	52.6	77	44	1.28	−2.34	.....
Charlottetown, P. E. I.	29.88	29.92	+ .02	64.2	+0.1	72.5	55.9	81	48	2.16	−1.33	.....
Chatham, N. B.	29.88	29.90	+ .02	65.0	0.0	75.9	54.0	86	46	5.81	+1.62	.....
Father Point, Que.	29.84	29.86	+ .01	58.2	+0.6	66.7	49.7	85	44	2.52	−0.52	.....
Quebec, Que.	29.59	29.91	.00	66.0	+0.5	77.0	55.1	88	50	1.43	−2.83	.....
Montreal, Que.	29.69	29.89	− .04	69.6	+1.1	78.4	60.9	90	55	1.01	−3.28	.....
Stonecliffe, Ont.	29.32	29.92	− .02	64.8	−0.8	78.9	50.8	90	42	0.76	−2.36	.....
Ottawa, Ont.	29.64	29.96	+ .02	67.6	−1.9	77.6	57.6	88	50	2.07	−1.40	.....
Kingston, Ont.	29.62	29.92	− .05	67.3	−0.9	75.4	59.2	83	52	3.61	+0.72	.....
Toronto, Ont.	29.52	29.88	− .09	68.4	+0.4	77.5	59.3	86	51	4.50	+1.58	.....
White River, Ont.	28.62	29.92	− .02	56.0	−3.5	73.0	39.9	84	30	2.79	−0.01	.....
Port Stanley, Ont.	29.31	29.94	− .04	66.8	−1.0	75.0	58.6	83	46	4.03	+0.99	.....
Southampton, Ont.	29.25	.....	.....	63.9	−0.8	71.9	55.9	83	46	2.31	+1.33	.....
Parry Sound, Ont.	29.24	29.92	− .04	65.6	−0.4	76.8	54.5	86	48	2.22	−0.40	.....
Port Arthur, Ont.	29.25	29.96	+ .02	60.5	−1.5	70.0	51.0	84	41	2.86	−0.62	.....
Winnipeg, Man.	29.12	29.94	+ .01	62.8	−3.2	74.1	51.5	86	38	1.83	−1.25	.....
Minnedosa, Man.	28.17	29.96	+ .03	59.6	−2.6	70.7	48.4	82	38	2.66	+0.06	.....
Qu'Appelle, Sask.	27.71	29.94	+ .02	58.3	−5.2	69.5	47.1	84	34	2.81	+0.33	.....
Medicine Hat, Alberta	27.67	29.91	+ .01	61.2	−6.6	77.8	52.5	90	43	3.58	+1.49	.....
Swift Current, Sask.	27.39	29.93	+ .02	60.0	−6.5	71.3	45.7	86	36	2.37	−0.07	.....
Calgary, Alberta	26.39	29.86	− .04	58.8	−1.8	70.6	47.1	81	38	3.98	+1.30	.....
Banff, Alberta	25.44	29.97	+ .07	54.6	−2.0	66.1	43.1	79	35	3.96	+0.72	.....
Edmonton, Alberta	27.69	29.96	+ .06	58.5	−2.1	69.5	47.5	78	37	4.24	+1.31	.....
Prince Albert, Sask.	28.38	29.92	+ .01	58.4	−3.5	67.5	49.3	78	40	3.17	+1.12	.....
Battleford, Sask.	28.25	29.97	+ .07	62.2	−2.5	74.2	50.3	85	40	3.18	+0.84	.....
Kamloops, B. C.	28.71	29.97	+ .03	68.6	+0.1	81.2	55.9	94	46	1.15	−0.46	.....
Victoria, B. C.	29.75	30.00	− .05	59.9	−0.1	67.2	52.6	87	50	0.84	+0.44	.....
Barkerville, B. C.	25.65	29.90	− .01	54.0	−1.1	65.5	42.5	74	32	4.90	+1.88	.....
Hamilton, Bermuda	30.00	30.16	+ .02	77.8	−0.9	82.8	72.7	85	69	4.42	−0.02	.....

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