DESCRIPTION OF TABLES AND CHARTS.

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

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

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

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.

Table IV gives the heights of rivers referred to zeros of gages. These zeros are arbitrarily fixt, but, as a rule, are set at the plane of lowest water, if possible. The river gages are read once daily (8 a. m., seventy-fifth meridian time), and in times of emergency more frequently. The table shows the highest and lowest of all readings taken, the means of the regular daily readings, and the absolute monthly ranges.

The publication of the data from cooperative observers, heretofore appearing as Table II, was discontinued with the issue for December, 1907. The values will continue to be published in the monthly reports of the climatological services of the several states, and in the usual manner in the Annual Report of the Chief of Bureau.

Chart I.—Hydrographs for seven 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 number and 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 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.—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 the 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 V.—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, which does not relate to the nighttime.

Chart VI.—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 twenty-four 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 8 p. m. observation, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in Table 27, Volume II, Annual Report of the Chief of Weather Bureau, 1900–1901, pp. 140–164.

The isotherms on the sea-level plane have been constructed by means of the data summarized in chapter 8 of the Annual Report of the Chief of the Weather Bureau for 1900–1901, Volume II. The correction $t_0 - t$, or temperature on the sea-level plane minus the station temperature, as given by Table 48 of the above 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 VII.—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.—Depth of snow on ground at the end of month, exprest in inches and tenths.

TABLE I.—*Climatological data for U. S. Weather Bureau stations, January, 1908.*

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.									Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness during daylight, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.					
New England.							27.0	+ 2.3										70	2.89	— 0.6										5.3	
Eastport	76	69	85	29.77	29.86	— .14	22.9	— 2.8	52	8	32	—11	31	14	35	22	16	78	4.17	+ 0.3	13	11,772	w.	60	e.	12	4	6	21	7.7	18.4
Greenville							13.4		45	8	24	—20	20	3	38				2.63				n.								
Portland, Me.	103	81	117	29.78	29.91	— .14	25.8	+ 3.8	53	22	34	— 4	31	17	28	22	15	65	2.42	— 1.4	10	8,895	sw.	48	se.	7	11	12	8	4.8	1.6
Concord	288	70	79	29.60	29.92	— .13	25.6	+ 4.4	53	21	35	— 4	30	16	37				2.07	— 1.3	9	5,679	nw.	40	nw.	5	24	3	4	2.6	4.3
Burlington	404	12	47	29.49	29.96	— .09	17.4	— 1.9	43	22	28	—15	30	7	40				1.54	— 0.3	9	10,856	s.	51	s.	20	5	8	18	7.1	14.8
Northfield	876	16	70	28.95	29.94	— .11	16.3	+ 1.2	48	22	29	—14	30	4	51	14	10	78	1.93	— 0.6	16	6,783	s.	44	nw.	22	5	11	15	6.8	15.2
Boston	125	115	188	28.79	29.94	— .11	31.0	+ 4.0	57	21	40	1	30	22	30	26	19	68	2.47	— 1.4	8	10,329	w.	48	sw.	7	14	6	11	4.9	4.3
Nantucket	12	14	90	29.92	29.93	— .11	32.8	+ 0.7	52	7	40	5	31	26	23	30	27	83	3.78	+ 0.4	10	15,569	sw.	83	ne.	24	13	11	7	5.0	12.6
Block Island	26	11	46	29.98	29.96	— .11	32.6	+ 1.2	54	7	40	4	31	25	26	30	24	71	2.80	— 1.1	9	18,488	sw.	74	n.	24	11	13	7	4.7	6.6
Narragansett		9					30.7	+ 2.3	53	7	40	— 2	31	21	37				3.03		9		sw.				24	0	7		5.5
Providence	160	57	67	29.78	29.96	— .10	29.9	+ 2.7	54	22	39	— 2	31	21	30	26	18	65	2.93	— 0.9	10	7,105	w.	37	e.	7	14	8	9	4.6	7.4
Hartford	159	122	132	29.79	29.97	— .10	28.9	+ 3.4	54	21	38	— 2	31	20	31	25	18	67	3.47	— 0.4	12	6,822	nw.	32	nw.	5	7	13	11	5.7	6.1
New Haven	106	116	155	29.86	29.98	— .10	30.4	+ 3.1	54	22	39	1	31	22	30	26	19	64	4.18	+ 0.3	12	7,703	sw.	38	ne.	23	13	9	9	4.7	7.8
Mid. Atlantic States.							33.1	+ 1.3										72	3.17	— 0.1										5.3	
Albany	97	102	115	29.87	29.99	— .08	25.0	+ 2.5	50	22	34	— 6	30	16	31	23	18	75	1.36	— 1.2	8	5,710	s.	27	s.	15	8	11	12	6.2	5.1
Binghamton	871	78	90	29.02	29.98	— .10	25.0	+ 1.9	50	21	34	— 8	31	16	32				2.12	+ 0.1	13	5,675	nw.	30	w.	22	3	9	19	7.4	17.3
New York	314	108	350	29.64	29.99	— .11	32.0	+ 1.8	53	21	39	4	31	25	26	29	23	69	3.84	0.0	9	11,033	nw.	48	w.	27	9	14	8	4.9	10.6
Harrisburg	374	94	104	29.61	30.03	— .07	31.4	+ 2.7	53	21	38	6	30	24	28	22	22	68	1.78	— 1.0	6	6,753	w.	35	w.	27	13	6	12	5.1	3.4
Philadelphia	117	116	184	29.89	30.02	— .09	34.8	+ 3.0	57	22	41	9	31	28	24	31	26	73	3.14	— 0.3	9	8,781	nw.	38	s.	12	14	8	9	4.8	6.9
Scranton	805	111	119	29.10	29.99	— .10	27.4	+ 1.9	55	21	36	— 1	31	19	31	24	19	71	2.27	— 0.5	11	6,356	sw.	42	e.	12	4	13	14	6.7	12.0
Atlantic City	52	87	48	29.97	30.03	— .08	34.1	+ 1.6	59	22	42	7	31	27	27	31	26	72	3.13	— 0.3	10	7,731	nw.	41	sw.	7	10	10	11	5.4	8.0
Cape May	17	48	52	30.03	30.05	— .07	35.4	+ 1.3	57	22	42	8	31	29	28	32			4.27	+ 0.9	10	8,351	nw.	38	s.	7	10	14	7	4.9	2.2
Baltimore	123	69	117	29.89	30.03	— .09	35.0	+ 1.6	57	22	42	10	31	28	22	30	24	67	3.49	+ 0.3	9	5,761	sw.	40	ne.	12	11	9	11	5.4	2.6
Washington	112	59	76	29.92	30.04	— .09	34.2	+ 1.3	58	22	43	11	31	26	28	29	22	64	3.45	+ 0.1	10	6,806	nw.	39	nw.	7	10	12	9	5.4	2.8
Cape Henry	18	11	58	30.03	30.05	— .08	40.6	+ 0.4	63	22	48	18	24	33	25				2.31	— 1.0	11	11,984	sw.	75	e.	7	16	6	9	4.2	1.0
Lynchburg	681	83	88	29.30	30.07	— .06	36.5	+ 0.7	61	22	46	16	30	27	36	31	26	71	4.37	+ 0.6	6	3,261	nw.	27	nw.	24	10	11	10	5.2	0.8
Mount Weather	1,725	10	57	28.12	30.02	— .11	28.8	+ 1.5	53	21	36	4	31	22	25	26	22	79	3.94	+ 0.6	7	14,520	nw.	60	nw.	5	13	11	7	5.0	1.8
Norfolk	91	102	111	29.96	30.06	— .07	41.5	+ 1.1	64	7	49	20	25	34	26	36	31	70	2.92	— 0.4	11	7,674	s.	56	se.	12	15	4	12	4.8	1.5
Richmond	144	145	153	29.91	30.07	— .06	38.1	+ 0.1	64	22	47	17	30	29	32				4.39	+ 1.4	9	7,293	s.	48	s.	26	13	7	11	4.6	3.2
Wytheville	2,293	40	47	27.61	30.09	— .05	30.4	— 2.6	58	20	40	3	10	21	39	26	24	83	3.97	— 0.3	12	5,238	w.	40	nw.	27	12	6	13	5.5	9.2
S. Atlantic States.							45.2	0.0										76	4.20	+ 0.3										5.0	
Asheville	2,255	53	75	27.66	30.10	— .05	34.6	— 0.8	59	20	44	11	24	26	37	31	28	82	3.63	— 1.0	5	7,234	nw.	44	e.	11	10	10	11	5.5	7.4
Charlotte	773	68	76	29.22	30.08	— .07	40.5	+ 0.1	63	22	48	21	30	32	26	35	28	67	6.18	+ 1.9	7	5,961	sw.	36	sw.	26	11	6	14	5.6	0.8
Hatteras	11	12	47	30.05	30.06	— .08	46.4	+ 0.6	68	7	54	24	24	39	23	42	40	85	2.85	— 2.1	11	12,772	ne.	60	sw.	7	16	6	9	4.4	0.5
Manteo							48.7		63	7	52	22	24	36					3.91	— 0.7	6		ne.				22	4	5		0.8
Raleigh	376	71	79	29.66	30.08	— .05	40.4	0.0	64	22	49	19	24	32	32	34	28	67	4.26	+ 0.7	10	5,385	nw.	40	sw.	27	14	9	8	4.4	T.
Wilmington	78	81	91	30.00	30.09	— .05	45.6	0.0	65	23	55	23	25	36	29	39	34	73	2.92	— 0.6	9	6,659	w.	42	sw.	7	12	10	9	4.5	
Charleston	48	14	92	30.03	30.08	— .07	49.4	+ 0.1	67	4	57	27	24	42	27	45	41	81	2.49	— 1.0	9	8,820	nw.	44	sw.	12	11	13	7	4.5	
Columbia, S. C.	351	41	57	29.69	30.08	— .0,	44.6	— 0.5	66	22	54	23	24	35	32	38	33	71	6.27	+ 3.0	10	6,002	sw.	44	sw.	26	10	12	9	5.5	T.
Augusta	180	89	97	29.89	30.09	— .07	45.6	— 0.3	66	4	56	24	24	36	35	40	36	77	7.23	+ 3.1	10	5,243	nw.	57	sw.	26	13	10	8	4.7	
Savannah	65	81	89	30.02	30.09	— .06	50.6	+ 0.7	68	1	59	28	24	42	29	43	38	70	4.19	+ 1.1	10	6,425	w.	36	w.	7	13	6	12	5.3	
Jacksonville	43	101	129	30.05	30.10	— .05	54.6	+ 0.7	72	29	63	30	24	46	26	50	47	82	2.24	— 0.9	4	7,944	sw.	59	sw.	11	10	13	8	5.3	
Florida Peninsula.							64.4	+ 0.9										80	1.87	— 0.7										4.1	
Jupiter	28	10	48	30.05	30.08	— .02	64.6	+ 0.3	82	5	72	40	25	57	25	59	57	83	4.04	+ 0.5	9	8,868	nw.	45	w.	13	10	14	7	5.5	
Key West	22	10	53	30.05	30.07	— .03	68.6	— 0.2	83	6	74	51	25	64	16	63	60	80	0.63	— 1.4	6	8,158	ne.	50	w.	12	16	12	3	3.6	
Sand Key	25	41	71	30.04	30.07	— .03	69.2		82	30	72	53	25	66	13				0.67	— 1.3	6	12,103	ne.	54	sw.	12	13	13	5	4.3	
Tampa	35	79	96	30.07	30.11	— .01	59.9	+ 2.5	79	1	69	35	25	51	26	53	50	78	2.14	— 0.7	9	6,720	ne.	40	w.	13	20	7	4	3.0	
East Gulf States.							47.2	— 0.1										73	5.34	+ 0.3										5.6	
Atlanta	1,174	190	216	28.82	30.08	— .07	41.4	— 0.8	61	22	49	17	24	34	28	36	30	70	4.64	— 0.7	11	10,486	nw.	50	nw.	23	16	4	11	4.7	2.5
Macon	370	55	66	29.69	30.10	— .06	45.2	— 0.4	66	4	55	22	24	36	32				6.53	+ 1.4	11	4,128	nw.	22	nw.	23	13	5	13	4.9	T.
Thomasville	273	8	58	29.80	30.11	— .05	50.4	— 0.6	71	2	61	26	24	40	32	44	41	76	4.73	+ 0.6	9	4,899	nw.	32	s.	31	8	10	13	6.0	
Pensacola	56	79	96	30.04	30.10	— .04	51.4	— 0.9	68	29	59	28	24	44	28				5.86	+ 1.8	9	8,201	n.	41	nw.	31	8	7	16	6.1	
Anniston	741	9	58	29.31	30.12	— .04	42.2	0.0	66	26	51	17	24	33	38				4.70	— 0.6	12	5,573	nw.	40	se.	31	9	5	17	6.5	T.
Birmingham	700	136	144	29.32	30.11	— .05	43.8	— 1.5	68	26	52	17	24	35	30	38	33	71	4.15	— 1.2	10	6,262	nw.	36	se.	10	10	9	12	5.7	
Mobile	57	98	106	30.04	30.10	— .05	50.8	+ 1.0	69	31	60	28	24	42	28	46	42	77	9.49	+ 4.6	11	5,970	n.	30	e.	10	11	10	10	5.4	
Montgomery	223	100	112	29.86	30.12	— .04	46.6	— 1.1	69	26	55	22	24	38	30	41	36	71	5.05	— 0.1	13	5,808	n.	28	nw.	31	8	10	13	5.9	
Meridian	375	84	93	29.70	30.11	— .05	45.8	+ 0.8	73	26	56	21	24	36	35	41	37	75	5.46	— 0.1	10	4,950	n.	30	e.	10	12	7	12	5.3	
Vicksburg	247	62	74	29.83	30.12	— .03	48.7	+ 1.7	73	28	57	26	24	40	27	42	36	67	3.59	— 2.1	11	5,772	se.	41	w.	31	8	12	11	5.6	
New Orleans	51	88	121	30.04	30.10	— .03	53.4	+ 0.4	77	28	62	32	24	45	29	48	45	78	4.50	— 0.1	11	7,338	n.	36	n.	7	10	10	11	5.4	
West Gulf States.							49.0	+ 3.5										69	1.89	— 1.1										4.9	
Shreveport	249	77	84	29.84	30.12	— .02	48.4	+ 2.2	71	28	57	24	17	40	27	42	36	68	2.20	— 2.2	8	5,999	se.	34	ne.	23	11	8	12	5.3	T
Bentonville	1,303	11	44	28.68	30.08	— .06	37.0	+ 2.9	61	21	47	12	16	26	33				2.62	0.0	7	5,637	s.	24	w.	31	17	6	8	4.1	10.0
Fort Smith	457	79	94	29.60	30.10	— .04	41.8	+ 3.5	65	21	51	18	17	32	32	36	30	69	1.91	— 0.6	7	7,418	e.	48	w.	31	12	10	9	4.5	T.
Little Rock	357	139	147	29.72	30.11	— .04	42.9	+ 3.3	68	28	52	23	24	36	26	38	31	67	5.03	+ 0.2	10	7,351	nw.	43	w.	31	12	10	9	4.8	
Corpus Christi	20	48	53	30.10	30.12	+ .02	59.2	+ 5.7	81	31	67	35	12	52	29	53	49	76	0.40	— 1.8	4	6,248	se.	33	nw.	10	9	7	15	5.9	
Fort Worth	670	106	114	29.40	30.12	.00	48.6	+ 4.3	76	21	59	22	17	38	40				0.96	0.0	5	9,317	nw.	50	nw.	10	13	14	4	4.2	
Galveston	54	106	112	30.07	30.13	.00	55.0	+ 2.3	74	28	60	34	17	50	26	51	48	82	2.15	— 1.5	8	9,447	se.	46	w.	10	11	10	10	5.3	
Palestine	510	73	79	29.56	30.10	— .02	50.0	+ 3.5	74	1	59	25	17	41	31	44	39	71	1.76	— 2.1	8	7,291	n.	36	n.	10	13	4	14	5.2	T.
San Antonio	701	80	91	29.38	30.12	+ .02	54.6	+ 3.5	78	26	64	22	17	45	31	47	39	62	1.01	— 0.7	7	5,767	ne.	47	nw.	10	13	9	9	4.8	
Taylor	583	55	63	29.50	30.12	+ .01	51.4	+ 3.9	78	26	61	20	17	42	33				0.83	— 2.0	7	7,071	n.	43	nw.	10	15	6	10	4.5	
Ohio Val. and Tenn.							34.3	+ 0.8										72	2.57	— 1.3										5.9	
Chattanooga	762	106	112	29.28	30.12	— .04	39.8	— 0.8	64	26	48	16	24	32	30	35	29	68	3.64	— 1.9	12	5,269	nw.	42	nw.	26	11	7	13	5.8	0.2
Knoxville	1,004	93	100	29.01	30.09	— .06	36.8	— 0.7	60	26	44	15	24	29	28	33	28	72	4.04	— 0.9	10	4,228	ne.	34	w.	26	5	9	17	6.9	0.6
Memphis	399	76	97	29.69	30.13	— .03	42.0	+ 1.7	65	26	49	18	24	35	24	37	31	69	4.71	— 0.5	8	7,382	s.	40	w.	31	11	6	14	5.7	0.1
Nashville	546	79	91	29.52	30.12	— .04	38.6	+ 0.6	63	26	47	15	24	30	29	34	28	67	3.02	— 1.8	8	4,990	nw.	30	nw.	26	10	7	14	5.7	T.
Lexington	989	75	102	28.99	30.10	— .03	33.0	0.0	55	21	41	10	30	26	24				1.85	— 2.0	9	9,181	sw.	49	w.	26	4	11	16	6.8	1.7
Louisville	525	111	132	29.49	30.10	— .04	35.6	+ 1.3	55	21	43	14	24	28	24	31	26	69	1.98	— 1.9	10	6,778	sw.	48	w.	26	15	5	11	5.3	0.8
Evansville	431	72	82	29.61	30.09	— .05	35.2	+ 2.9	54	20	42	15	24	28	22				1.80	— 1.9	9	6,314	s.	28	w.	26	12	9	10	5.2	0.9
Indianapolis	822	154	164	29.14	30.06	— .06	31.1	+ 2.9	52	21	38	10	29	24	25	27	23	74	2.47	— 0.3	9	8,384	s.	32	nw.	23	7	12	12	5.9	1.6
Cincinnati	628	152	160	29.38	30.08	— .04	33.6	+ 1.3	54	21	41	11	30	26	28	29	23	65	1.40	— 2.0	9	5,848	sw.	34	w.	26	11	7	13	5.5	0.6
Columbus	824	173	224	29.14	30.05	— .06	30.0	+ 1.4	50	21	37	7	30	22	24	27	22	73	1.40	— 1.6	9	10,392	nw.	53	w.	27	12	9	10	5.1	3.0
Pittsburg	842	336	352	29.10	30.04	— .07	30.4	— 0.3	54	21	38	8	30	23	26	26	21	72	1.65	— 1.2	16	8,587	nw.	48	w.	27	4	14	13	6.2	6.9
Parkersburg	638	77	84	29.39	30.07	— .05	32.0	+ 0.7	55	21	41	9	30	23	31	28	24	78	1.44	— 1.8	11	5,291	s.	38	nw.	27	9	7	15	6.5	1.4
Elkins	1,940	41	50	27.94	30.10	— .02	28.1	— 0.9	55	20	39	— 8	10	17	42	24	21	80	4.02	+ 0.7	19	3,385	w.	34	ne.	12	9	5	17	6.2	22.5
Lower Lake Region.							25.4	+ 1.4										77	2.37	— 0.7										6.8	
Buffalo	767	178	206	29.11	29.97	— .10	26.5	+ 1.8	46	21	33	0	30	20	22	24	21	82	2.90	— 0.4	19	14,107	w.	59	sw.	18	1	13	17	7.8	13.1
Canton	448	10	71	29.45	29.96		15.2	+ 1.1	45	22	26	—28	30	4	49				2.05	— 1.1	16	10,732	sw.	54	w.	22	8	9	14	6.6	19.3
Oswego	335	76	91	29.58	29.96	— .11	24.6	+ 0.7	46	22	32	—12	30	17	28	23	20	83	2.17	— 1.0	15	10,377	s.	39	nw.	27	0	12	19	8.1	12.1
Rochester	523	81	102	29.32	29.97	— .10	25.6	+ 1.6	45	22	32	— 1	31	19	24	23	19	75	2.27	— 0.9	18	8,121	sw.	36	w.	27	3	7	21	7.8	16.5
Syracuse	597	97	113	29.31	29.97	— .10	24.8	+ 1.8	48	22	33	—12	30	17	34				2.22	+ 0.1	19	10,987	s.	56	s.	26	5	8	18	7.4	23.3
Erie	713	92	102	29.19	29.98	— .10	27.9	+ 1.4	50	21	34	2	31	22	24	25	20	72	1.54	— 1.5	11	10,026	sw.	44	se.	31	7	9	15	6.4	10.4
Cleveland	762	190	201	29.16	30.01	— .08	28.0	+ 1.8	50	21	34	9	30	22	22	25	20	70	2.78	+ 0.3	16	13,054	s.	56	nw.	23	3	12	16	6.9	15.1
Sandusky	629	62	70	29.32	30.02	— .07	28.1	+ 1.8	50	21	34	9	30	22	23				2.09	0.0	11	7,314	sw.	35	nw.	23	11	7	13	5.7	10.1
Toledo	628	207	246	29.32	30.02	— .07	27.8	+ 2.2	47	21	34	6	30	21	22	25	20	75	2.80	+ 0.9	10	12,344	sw.	42	ne.	12	13	7	11	5.4	8.0
Detroit	730	218	258	29.18	30.01	— .07	25.9	+ 1.6	45	21	32	2	30	19	20	24	21	83	2.84	+ 0.9	7	12,072	sw.	40	sw.	24	8	8	15	6.2	12.2
Upper Lake Region.							22.0	+ 4.0										78	1.49	— 0.5										6.0	
Alpena	609	13	92	29.26	29.96	— .08	21.2	+ 2.5	50	20	29	—13	30	13	29	19	16	82	1.56	— 0.6	11	9,140	sw.	36	nw.	4	6	10	15	6.7	13.3

TABLE I.—*Climatological data for U. S. Weather Bureau stations, January, 1908*—Continued.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.											Precipitation, in inches.			Wind.								
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	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 .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 during daylight, tenths.	Total snowfall.
Up. Lake Reg—Cont.																															
Escanaba	612	40	82	29.28	29.97	— .08	20.4	+ 5.9	47	20	28	—12	30	13	28	18	15	74	0.77	— 0.8	8	8,462	sw.	37	nw.	28	12	4	15	5.7	6.4
Grand Haven	632	54	92	29.28	29.98	— .09	27.0	+ 2.5	42	21	23	0	30	22	24	25	22	73	1.67	— 1.1	10	11,040	sw.	48	w.	21	6	8	17	7.0	15.2
Grand Rapids	707	121	162	29.20	30.00	— .06	26.4	+ 2.6	45	21	32	2	30	20	21	24	21	83	1.49	— 1.3	10	9,787	sw.	39	w.	22	8	4	19	6.9	11.7
Houghton	668	66	74	29.18	29.94	— .11	19.2	+ 4.7	48	19	28	—19	30	10	39	....	....	....	0.95	— 1.1	13	5,630	nw.	34	n.	22	3	13	15	7.0	11.5
Marquette	734	77	116	29.12	29.96	— .08	21.5	+ 5.6	53	20	28	— 9	29	14	26	19	13	71	2.10	+ 0.1	14	9,649	w.	38	sw.	21	4	12	15	6.7	21.5
Port Huron	638	70	120	29.26	29.98	— .08	24.0	+ 2.2	43	21	31	— 9	30	17	22	22	18	80	1.95	+ 0.1	11	10,756	sw.	50	nw.	23	15	4	12	5.1	14.0
Sault Sainte Marie	614	40	61	29.28	29.96	— .07	16.2	+ 2.9	46	20	25	—25	29	7	30	15	12	81	0.89	— 1.3	14	7,705	nw.	41	w.	22	7	4	20	7.4	8.1
Chicago	823	140	310	29.11	30.03	— .07	28.6	+ 4.9	49	21	35	0	29	22	25	27	23	80	2.05	0.0	7	12,930	sw.	44	nw.	26	11	10	10	5.2	13.2
Milwaukee	681	122	139	29.26	30.02	— .06	24.5	+ 4.7	44	21	32	— 6	29	18	24	22	18	77	3.24	+ 1.2	6	9,269	w.	43	ne.	12	14	10	7	4.3	28.8
Green Bay	617	49	86	29.29	29.98	— .08	19.8	+ 5.2	44	21	28	—15	30	11	32	18	14	76	0.90	— 0.8	4	8,897	sw.	47	ne.	12	12	7	12	6.0	8.4
Duluth	1,133	11	47	28.70	29.98	— .11	14.9	+ 4.5	46	20	25	—29	29	5	30	12	9	79	0.33	— 0.6	6	10,369	sw.	48	nw.	15	16	9	6	4.1	4.2
North Dakota.							16.7	+12.6										79	0.14	— 0.5										6.0	
Moorhead	940	8	57	28.98	30.05	— .09	15.7	+13.0	54	20	27	—29	29	5	37	14	12	88	0.16	— 0.6	4	6,758	nw.	33	nw.	15	10	11	10	5.0	1.6
Bismarck	1,674	8	57	28.20	30.07	— .06	21.4	+14.7	60	19	34	—14	29	8	43	17	12	70	0.24	— 0.3	4	8,016	nw.	43	nw.	6	8	10	13	5.9	1.2
Devils Lake	1,482	11	44	28.33	29.98	— .14	12.9	+12.6	51	19	25	—28	29	1	44	10	6	76	0.10	— 0.5	2	8,057	w.	40	nw.	6	10	14	7	5.0	1.0
Williston	1,875	14	56	27.97	30.04	— .07	16.8	+10.3	48	19	29	—22	29	5	46	14	11	82	0.04	— 0.5	3	6,952	nw.	52	nw.	6	13	9	9	4.8	0.4
Upper Miss. Valley.							26.9	+ 5.3										75	0.96	— 0.3										4.9	
Minneapolis		102	208				19.8		52	20	30	—25	29	10	36	....	....	....	0.49	— 0.2	5	9,563	nw.	44	w.	21	16	11	4	3.8	8.0
St. Paul	837	171	179	29.09	30.03	— .08	19.6	+ 8.0	49	20	30	—24	29	9	35	17	12	72	0.52	— 0.4	5	8,269	nw.	46	nw.	21	7	14	10	6.0	4.7
La Crosse	714	71	87	29.24	30.05	— .06	21.6	+ 6.4	50	21	31	—13	29	12	29	....	....	....	0.34	— 0.7	3	4,965	s.	25	nw.	21	8	10	13	5.8	4.1
Madison	974	70	78	28.93	30.03	— .07	22.2	+ 5.7	46	21	30	—10	29	15	26	20	16	77	0.97	— 0.6	5	9,125	nw.	42	n.	12	12	11	8	4.9	9.4
Charles City	1,015	8	58	28.93	30.06	— .08	20.2	+ 8.8	46	21	31	—14	29	9	39	18	16	87	0.40	— 0.6	1	6,115	nw.	28	nw.	21	8	12	11	5.7	5.7
Davenport	606	71	79	29.37	30.07	— .05	26.6	+ 5.8	52	21	35	— 2	29	18	26	24	19	75	0.69	— 0.9	4	6,457	nw.	32	nw.	26	13	6	12	4.9	8.1
Des Moines	861	84	101	29.12	30.07	— .07	27.0	+ 6.6	53	21	37	— 7	29	17	37	24	19	74	0.46	— 0.8	3	7,272	sw.	32	sw.	19	10	13	8	5.2	6.0
Dubuque	698	100	117	29.29	30.08	— .04	24.8	+ 6.5	50	21	33	— 6	29	16	31	22	18	75	0.70	— 0.8	3	6,141	nw.	30	nw.	26	13	7	11	5.1	7.9
Keokuk	614	64	77	29.38	30.09	— .05	30.4	+ 6.7	55	21	39	0	29	22	28	25	21	75	0.51	— 1.2	5	6,457	nw.	31	nw.	26	16	8	7	4.0	5.0
Cairo	356	87	93	29.71	30.11	— .05	36.8	+ 2.0	59	1	44	16	24	30	24	33	27	72	2.84	— 1.0	11	7,476	n.	35	ne.	11	14	5	12	5.1	1.3
La Salle	536	56	64	29.43	30.08	— .03	26.9	+ 4.6	50	21	35	— 1	29	19	24	....	....	....	0.96	— 1.2	6	7,163	sw.	34	w.	26	12	10	9	5.0	6.2
Peoria	609	11	45	29.38	30.07	— .05	26.8	+ 3.7	53	21	36	1	29	18	26	24	20	77	0.59	— 1.6	5	7,692	s.	36	nw.	26	14	7	10	4.5	3.4
Springfield, Ill	644	10	92	29.36	30.08	— .05	29.8	+ 3.5	56	21	38	6	29	22	24	26	22	74	1.77	— 0.5	8	7,976	s.	29	nw.	15	13	6	12	4.8	7.5
Hannibal	534	75	109	29.49	30.09	— .04	30.2	+ 3.5	57	21	40	4	29	21	28	....	....	....	1.04	— 1.2	6	8,008	sw.	40	w.	7	14	8	9	4.5	9.3
St. Louis	567	208	217	29.44	30.07	— .07	34.0	+ 3.0	61	21	42	9	29	26	26	30	25	72	2.08	— 0.2	7	9,710	s.	36	nw.	27	15	7	9	4.7	6.0
Missouri Valley.							30.0	+ 8.9										67	0.47	— 0.5										4.1	
Columbia, Mo	784	11	84	29.23	30.10	— .03	32.0	+ 4.8	58	21	42	5	29	22	32	....	....	....	1.13	— 1.1	4	7,326	s.	35	nw.	31	16	7	8	4.0	6.5
Kansas City	963	116	181	29.04	30.11	— .04	34.2	+ 8.0	59	20	44	4	29	25	27	29	21	61	0.13	— 1.0	2	11,553	s.	49	nw.	31	18	7	6	3.5	0.1
Springfield, Mo	1,324	98	104	28.64	30.08	— .06	33.9	+ 2.6	59	21	43	10	16	25	28	30	25	74	2.20	— 0.5	9	9,029	s.	38	w.	31	19	6	6	3.4	8.4
Iola	984	40	47	29.03	30.12	— .02	35.7	+ 8.1	59	21	47	11	31	25	30	....	....	....	0.65	— 0.3	2	7,227	sw.	33	n.	10	13	13	5	4.7	0.5
Topeka	....	85	89	....	....	....	34.0	+ 8.4	60	20	45	8	29	23	33	....	....	....	0.09	— 0.8	2	7,691	s.	34	nw.	31	17	8	6	3.6	0.3
Lincoln	1,189	11	84	28.79	30.10	— .05	31.0	+ 9.8	59	20	42	4	29	20	34	25	17	60	0.28	— 0.3	2	9,145	s.	54	nw.	7	16	11	4	3.8	4.2
Omaha	1,105	115	121	28.88	30.10	— .05	30.2	+ 9.7	55	20	40	1	29	20	31	25	18	65	0.28	— 0.4	2	8,150	nw.	40	n.	28	13	10	8	4.6	3.7
Valentine	2,598	47	54	27.29	30.10	— .02	29.0	+10.8	63	20	42	— 3	31	16	43	23	18	70	0.16	— 0.4	4	8,905	nw.	44	nw.	7	13	14	4	4.1	1.6
Sioux City	1,135	96	164	28.82	30.09	— .06	25.4	+ 9.8	51	18	36	— 7	29	15	38	....	....	....	0.22	— 0.3	2	10,124	nw.	50	nw.	15	14	10	7	4.0	2.1
Pierre	1,572	70	75	28.36	30.09	— .04	26.6	+12.7	60	20	38	— 4	31	15	43	22	15	64	0.22	— 0.2	5	7,398	nw.	46	nw.	14	11	13	7	4.5	2.8
Huron	1,306	56	67	28.64	30.09	— .07	21.4	+11.9	63	20	35	—15	29	8	51	18	13	75	0.19	— 0.3	2	7,229	nw.	39	nw.	6	14	11	6	4.2	2.2
Yankton	1,233	49	57	28.71	30.08	— .08	26.0	+10.5	57	20	38	— 5	29	15	44	....	....	....	0.12	— 0.4	2	7,221	w.	36	nw.	15	15	7	9	4.7	1.6
Northern Slope.							25.8	+ 6.8										69	0.57	— 0.3										4.4	
Havre	2,505	11	44	27.32	30.03	— .07	26.2	+12.7	54	19	39	—13	31	14	42	23	19	78	0.16	— 0.5	3	7,723	sw.	52	sw.	5	21	6	4	3.6	1.6
Miles City	2,371	26	48	27.48	30.13	+ .01	26.9	+12.4	55	19	39	—25	31	15	44	21	16	70	0.63	0.0	6	4,719	se.	36	w.	6	14	11	6	4.0	5.7
Helena	4,110	8	56	25.82	30.16	+ .01	25.8	+ 5.8	51	19	35	— 8	31	17	31	22	16	67	0.50	— 0.4	6	4,894	sw.	44	sw.	11	10	16	5	4.9	7.4
Kalispell	2,962	8	34	26.98	30.15	+ .03	24.4	+ 4.8	45	7	33	—14	31	16	25	22	19	80	1.70	+ 0.1	9	3,262	nw.	30	sw.	5	8	9	14	6.3	16.2
Rapid City	3,234	46	50	26.60	30.13	+ .03	29.5	+ 8.0	61	18	42	— 9	31	17	43	25	19	67	0.22	— 0.2	5	4,729	w.	30	nw.	7	18	4	9	4.4	2.0
Cheyenne	6,088	56	64	23.96	30.12	+ .07	28.0	+ 2.4	51	8	39	—13	31	16	39	23	14	56	0.36	0.0	6	10,100	nw.	50	nw.	9	13	12	6	4.2	4.1
Lander	5,372	26	36	24.65	30.22	+ .10	20.0	+ 2.6	50	7	34	—13	31	6	41	16	12	73	0.59	+ 0.2	4	2,159	ne.	35	w.	9	11	17	3	4.1	5.9
Sheridan	3,790	5	...	26.09	30.13	.....	24.4	.....	57	20	40	—19	31	9	44	20	12	63	0.17	.....	3	2,983	nw.	42	nw.	9	16	7	8	4.1	5.0
Yellowstone Park	6,200	11	48	23.87	30.23	+ .09	20.3	+ 2.7	38	13	29	—20	31	11	31	17	11	69	0.85	— 1.4	11	7,019	s.	34	sw.	20	10	11	10	5.2	10.4
North Platte	2,821	11	51	27.12	30.15	+ .03	31.3	+ 9.9	62	20	46	— 1	31	16	47	23	17	68	0.16	— 0.3	3	6,286	nw.	46	se.	10	18	7	6	3.5	1.7
Middle Slope.							36.2	+ 7.1										59	0.36	— 0.5										3.4	
Denver	5,291	129	186	24.72	30.11	+ .06	34.0	+ 4.9	62	8	47	— 3	31	21	45	26	16	52	0.53	+ 0.1	3	5,927	s.	52	n.	9	17	11	3	3.5	7.8
Leadville	....	....	....	....	....	....	17.8	.....	42	18	30	—10	16	6	44	....	....	....	0.68	.....	14	.....	ne.	....	....	....	....	....	....	....	17.0
Pueblo	4,685	80	86	25.30	30.11	+ .06	33.4	+ 4.3	63	8	49	— 8	16	18	54	25	12	47	0.18	— 0.2	2	6,176	nw.	44	w.	9	20	9	2	2.5	2.3
Concordia	1,398	42	50	28.61	30.13	— .01	34.6	+10.2	59	25	46	7	29	23	33	29	24	72	0.01	— 0.6	1	6,184	n.	29	n.	15	13	14	4	4.0	0.1
Dodge	2,509	44	54	27.45	30.13	+ .02	36.5	+ 9.2	68	9	50	2	31	23	41	27	19	56	0.04	— 0.4	2	8,029	nw.	45	nw.	10	22	7	2	2.6	0.6
Wichita	1,358	78	86	28.66	30.14	+ .01	37.6	+ 7.9	60	7	49	10	29	26	35	31	23	59	0.16	— 0.6	1	8,139	s.	38	n.	10	17	12	2	3.4	T.
Oklahoma	1,214	10	47	28.79	30.11	.00	40.8	+ 1.6	71	9	57	13	17	24	52	32	25	63	1.25	— 0.1	3	13,535	s.	61	n.	10	10	17	4	4.1	T.
Southern Slope.							45.2	+ 3.7										62	0.41	— 0.5										4.3	
Abilene	1,738	45	54	28.29	30.14	+ .05	47.6	+ 5.0	72	27	60	22	16	36	40	39	30	57	0.63	— 0.3	5	7,199	s.	42	nw.	10	15	9	7	4.6	
Amarillo	3,676	10	49	26.30	30.11	+ .05	38.8	+ 4.9	70	9	52	7	16	25	44	30	24	65	0.26	— 0.3	2	10,222	s.	62	sw.	9	18	10	3	4.1	0.4
Del Rio	944	8	57	29.12	30.13	+ .07	53.6	+ 8.4	79	26	66	17	17	42	38	....	....	....	0.50	— 1.2	4	5,808	se.	45	nw.	10	13	13	5	4.3	
Roswell	3,578	9	57	26.41	30.12	+ .08	40.8	+ 1.6	71	9	57	13	17	24	52	32	25	63	0.26	— 0.3	2	4,445	n.	38	nw.	10	16	7	8	4.1	T.
Southern Plateau.							42.4	+ 1.6										56	0.64	— 0.4										3.6	
El Paso	3,762	10	110	26.27	30.10	+ .09	45.8	+ 1.7	68	14	58	21	18	34	41	36	23	44	0.10	— 0.4	3	7,819	nw.	43	w.	5	17	10	4	3.4	
Santa Fe	7,013	33	39	23.26	30.17	+ .13	30.4	+ 1.9	50	21	42	10	11	19	32	24	17	61	0.36	— 0.2	8	6,914	ne.	44	nw.	9	19	9	3	3.2	3.5
Flagstaff	6,907	8	57	23.36	30.08	+ .03	30.8	+ 4.1	54	11	43	3	6	18	46	26	21	78	1.21	— 0.8	10	4,616	sw.	34	sw.	14	14	5	12	4.9	14.8
Phoenix	1,108	50	56	28.91	30.08	+ .05	53.4	+ 3.4	72	10	67	32	10	40	40	43	30	47	0.35	— 0.8	6	2,870	e.	22	w.	14	18	16	2	3.8	
Yuma	141	16	46	29.92	30.07	+ .02	56.2	+ 1.5	75	22	69	35	31	43	36	45	31	42	0.16	— 0.3	2	4,776	n.	37	nw.	14	25	2	4	2.2	
Independence	3,910	11	42	26.05	30.11	+ .04	37.8	— 2.7	64	9	49	14	30	26	36	32	26	69	1.64	+ 0.1	5	3,450	nw.	30	se.	24	17	8	6	4.1	12.2
Middle Plateau.							31.1	+ 3.7										74	0.95	— 0.1										5.4	
Reno	4,582	56	63	25.50	30.13	.00	35.6	+ 3.1	58	8	45	16	6	26	33	31	26	71	0.83	— 1.1	10	2,877	w.	26	w.	8	8	10	13	6.0	1.9
Tonopah	6,089	12	20	24.08	30 20	.....	33.6	+ 8.7	48	8	39	14	31	28	15	29	23	70	1.10	+ 0.4	7	6,324	se.	34	nw.	4	9	13	9	5.1	10.7
Winnemucca	4,344	18	56	25.67	30.15	— .01	33.6	+ 4.8	53	18	43	9	31	24	32	30	27	80	0.56	— 0.5	5	4,550	ne.	32	sw.	8	6	8	17	6.5	2.7
Modena	5,479	10	43	24.66	30.13	+ .03	31.0	+ 3.5	55	8	42	6	31	20	41	27	23	80	1.62	+ 0.9	7	5,625	w.	36	sw.	24	5	9	17	6.6	8.1
Salt Lake City	4,366	105	110	25.71	30.20	+ .05	31.2	+ 2.4	46	24	38	11	31	24	19	28	24	75	0.63	— 0.7	9	2,933	se.	32	n.	9	12	7	12	5.5	3.9
Durango	6,546	18	56	23.69	30.21	+ .16	26.2	+ 1.7	46	18	38	— 1	17	14	37	21	16	71	1.48	+ 0.2	9	3,942	nw.	30	nw.	9	15	9	7	4.1	13.1
Grand Junction	4,608	43	51	25.52	30.22	+ .16	26.6	+ 1.9	46	22	37	4	8	16	34	22	17	71	0.43	— 0.2	5	2,568	w.	20	w.	31	18	4	9	4.1	5.0
Northern Plateau.							32.7	+ 3.9										78	0.76	— 0.9										6.6	
Baker City	3,471	48	58	26.52	30.19	+ .03	30.0	+ 6.1	43	25	37	— 4	31	23	21	27	23	75	0.39	— 1.0	4	4,766	se.	24	nw.	30	4	13	14	6.5	3.9
Boise	2,739	78	86	27.29	30.22	+ .03	35.2	+ 5.9	51	8	42	9	31	29	21	31	25	68	0.57	— 1.3	7	3,810	se.	33	w.	9	1	12	18	7.9	0.4
Lewiston	757	10	51	29.32	30.15	— .01	36.9	+ 2.4	56	8	44	7	31	30	22	....	....	....	0.37	— 1.2	8	4,119	e.	35	w.	5	6	6	19	6.9	0.2
Pocatello	4,477	46	54	25.58	30.26	+ .06	27.0	+ 1.9	45	1	36	— 9	31	18	30	24	21	78	0.68	0.0	9	5,478	se.	40	sw.	9	12	11	8	4.5	5.1
Spokane	1,929	101	110	28.05	30.16	+ .04	30.4	+ 3.7	45	5	36	— 2	31	24	22	29	26	32	1.87	— 0.4	11	3,840	ne.	33	sw.	5	2	15	14	7.2	13.3
Walla Walla †	1,000	71	79	29.06	30.16	+ .01	36.6	+ 3.4	58	8	44	7	31	30	26	35	33	86	0.67	— 1.3	12	3,943	s.	38	s.	8	8	9	14	6.4	2.4
N. Pac. Coast Reg.							42.0	+ 2.5										86	5.45	— 1.2										7.1	
North Head	211	11	56	29.79	30.02	— .03	44.8	+ 3.0	54	26	49	26	31	41	13	43	42	89	6.08	— 0.6	23	14,465	e.	84	se.	19	3	4	24	8.2	
Port Crescent	259	12	29	29.71	30.00	+ .01	39.0	+ 3.0	58	5	45	24	30	33	27	....	....	....	5.18	— 0.4	17	4,434	e.	80	s.	5	3	10	18	7.4	0.6
Seattle	128	185	224	29.94	30.07	+ .02	41.8	+ 2.5	54	28	46	25	31	37	14	41	39	89	4.10	+ 0.4	17	6,990	se.	48	s.	20	4	7	20	7.4	
Tacoma	213	113	120	29.82	30.05	+ .01	40.7	+ 2.6	53	5	46	28	30	36	17	40	39	92	4.44	— 1.3	18	5,340	sw.	38	e.	31	7	9	15	6.8	T.

TABLE I.—*Climatological data for U. S. Weather Bureau stations, January, 1908*—Continued.

Stations.	Elevation of instruments.			Pressure, in inches.			Temperature of the air, in degrees Fahrenheit.									Mean wet thermometer.	Mean temperature of the dew-point.	Mean relative humidity, per cent.	Precipitation, in inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness during daylight, tenths.	Total snowfall.
	Barometer above sea level, feet.	Thermometers above ground.	Anemometer above ground.	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hrs.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with .01, or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.					
N. P. Coast Reg—Cont.																															
Tatoosh Island	86	7	57	29.86	29.96	— .02	43.4	+ 2.2	51	5	47	32	31	40	10	41	37	79	10.31	— 1.8	21	17,836	e.	76	s.	5	7	3	21	7.1	
Portland, Oreg.	153	68	106	29.91	30.08	.00	42.2	+ 3.1	54	24	47	27	31	37	18	40	36	80	4.73	— 1.8	18	5,073	nw.	29	e.	31	7	5	19	7.0	T.
Roseburg	510	9	57	29.52	30.08	— .02	42.0	+ 1.2	57	11	48	25	31	36	22	40	38	87	3.31	— 2.4	14	1,724	s.	19	se.	8	5	15	11	6.1	
Mid. Pac. Coast Reg.							48.8	+ 1.7										84	5.13	+ 0.5										6.8	
Eureka	62	62	80	30.02	30.09	— .01	49.0	+ 2.1	67	17	55	34	25	43	25	46	44	84	7.23	— 0.4	18	5,037	se.	36	n.	14	4	14	13	6.5	
Mount Tamalpais	2,375	11	18	27.59	30.09	— .02	44.2	.....	60	10	48	34	24	40	16	42	40	88	7.65	+ 3.3	17	13,194	se.	53	nw.	29	7	6	18	6.7	T.
Point Reyes Light	490	7	18	29.52	30.04	.....	51.4	.....	67	11	56	40	24	47	20	.....	.....	.....	4.85	.....	16	12,550	s.	74	nw.	14	7	6	18	6.9	
Red Bluff	332	50	56	29.74	30.11	— .01	47.0	+ 1.6	69	11	54	31	30	40	27	44	41	82	5.35	+ 1.4	14	3,427	nw.	22	se.	19	5	9	17	7.4	
Sacramento	69	106	117	30.04	30.11	— .01	47.5	1.9	61	2	53	34	5	42	19	46	44	88	3.84	+ 0.2	14	4,762	se.	34	sw.	23	5	9	17	7.2	
San Francisco	155	200	204	29.93	30.10	— .01	50.8	+ 1.3	64	11	56	40	8	46	16	47	44	80	4.88	+ 0.6	16	4,151	s.	28	s.	23	5	11	15	6.5	
San Jose	141	78	88	29.94	30.09	.....	49.8	+ 1.5	66	11	58	31	7	41	27	.....	.....	.....	2.63	— 1.6	15	3,829	se.	27	nw.	14	8	10	13	5.7	
Southeast Farallon	30	9	17	30.04	30.07	.....	52.2	.....	60	11	55	43	24	50	9	.....	.....	.....	4.30	0.0	18	9,765	ne.	49	nw.	14	4	10	17	7.3	
S. Pac. Coast Reg.							53.4	+ 2.5										72	4.08	+ 1.3										5.6	
Fresno	330	67	70	29.76	30.13	+ .03	47.8	+ 2.4	65	21	55	32	8	40	24	45	41	82	1.78	+ 0.2	8	2,815	e.	20	s.	24	6	6	19	7.2	
Los Angeles	338	116	123	29.70	30.06	— .02	56.5	+ 3.4	84	10	66	41	9	47	35	49	41	63	5.04	+ 2.2	8	2,835	ne.	26	sw.	14	8	9	14	5.7	
San Diego	87	94	102	29.97	30.07	.00	56.9	+ 2.9	80	11	64	44	5	50	25	50	44	68	2.80	+ 0.8	10	4,419	ne.	34	w.	14	24	2	5	3.7	
San Luis Obispo	201	47	54	29.88	30.10	+ .01	52.3	+ 1.3	76	11	62	34	3	42	34	47	43	74	6.69	+ 2.0	11	3,693	n.	22	w.	14	7	11	13	6.0	
West Indies.							75.9																								
Grand Turk	11	6	20	30.00	30.01	+ .02	76.0	.....	86	13	82	64	25	70	.....	.....	.....	.....	6.63	.....	20	.....	.....	.....	.....	.....	.....	.....	.....	.....	
San Juan	82	48	90	29.93	30.02	.00	75.8	.....	85	23	81	67	3	70	15	70	68	82	4.70	+ 1.7	22	6,494	e.	34	ne.	27	17	13	1	3.2	
Panama.							79.4											83	1.39											4.5	
Ancon	74	.....	.....	29.80	29.88	.....	81.4	.....	93	7	91	69	13	72	22	73	71	82	0.12	.....	1	6,855	nw.	28	nw.	8	18	13	0	3.5	
Bas Obispo	40	.....	.....	29.72	29.90	.....	77.3	.....	88	31	86	63	26	69	22	77	71	88	0.20	.....	8	4,239	nw.	21	ne.	26	5	17	9	5.7	
Naos	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	
Christobal	.....	.....	.....	29.88	29.90	.....	79.5	.....	84	11	82	72	27	77	12	78	73	80	3.84	.....	17	10,627	ne.	31	ne.	14	8	23	0	4.4	

* More than one date. † Record incomplete.

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for storms in which the rate of fall equaled or exceeded 0.25 in any 5 minutes, or 0.80 inch in 1 hour, during January, 1908, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration. From—	Total duration. To—	Total amount of precipitation.	Excessive rate. Began—	Excessive rate. Ended—	Amount before excessive 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.
Abilene, Tex.	5-6	.....	.....	0.48	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.15	.....	.....	.....
Albany, N. Y.	12	.....	.....	0.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Alpena, Mich.	31	.....	.....	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Amarillo, Tex.	2-3	.....	.....	0.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Anniston, Ala.	31	.....	.....	1.94	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.29	.....	.....	.....
Asheville, N. C.	11	.....	.....	2.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.35	.....	.....	.....
Atlanta, Ga.	31	.....	.....	2.05	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.30	.....	.....	.....
Atlantic City, N. J.	7-8	.....	.....	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.23	.....	.....	.....
Augusta, Ga.	11	9:55 a. m.	3:00 p. m.	1.20	11:45 a. m.	12:00 m.	0.35	0.17	0.45	0.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Baltimore, Md.	12	.....	.....	1.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.50	.....	.....	.....
Bentonville, Ark.	3-4	.....	.....	1.27	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.11	.....	.....	.....
Binghamton, N. Y.	27	.....	.....	0.30	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.20	.....	.....	.....
Birmingham, Ala.	11	.....	.....	1.10	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.41	.....	.....	.....
Bismarck, N. Dak.	30-31	.....	.....	0.14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Block Island, R. I.	12	.....	.....	0.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.24	.....	.....	.....
Boise, Idaho	19-20	.....	.....	0.14	.....	.....	.....	.....	.....	.....	.....	.....	0.04	.....	.....	.....	.....	.....	.....	.....	.....
Boston, Mass.	7	.....	.....	0.95	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.27	.....	.....	.....
Buffalo, N. Y.	26	.....	.....	0.66	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Cairo, Ill.	31	.....	.....	1.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.30	.....	.....	.....
Canton, N. Y.	26-27	.....	.....	0.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Charles City, Iowa	31	.....	.....	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Charleston, S. C.	11-12	.....	.....	0.90	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.33	.....	.....	.....
Charlotte, N. C.	11	10:30 a. m.	6:00 p. m.	1.41	3:58 p. m.	4:06 p. m.	0.74	0.24	0.33	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Chattanooga, Tenn.	11-12	.....	.....	1.08	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.38	.....	.....	.....
Cheyenne, Wyo.	14-15	.....	.....	0.16	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Chicago, Ill.	12	.....	.....	1.22	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Cincinnati, Ohio	11-12	.....	.....	0.49	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....	.....	.....
Cleveland, Ohio	12	.....	.....	0.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Columbia, Mo.	11-12	.....	.....	0.40	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Columbia, S. C.	11	9:25 a. m.	4:15 p. m.	1.84	1:19 p. m.	1:54 p. m.	0.75	0.06	0.10	0.17	0.23	0.29	0.51	0.59	.....	.....	.....	.....	.....	.....	.....
Columbus, Ohio	26	.....	.....	0.22	.....	.....	.....	.....	.....	.....	.....	.....	0.15	.....	.....	.....	.....	.....	.....	.....	.....
Concord, N. H.	7-8	.....	.....	0.82	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Corpus Christi, Tex.	16	.....	.....	0.11	.....	.....	.....	.....	.....	.....	.....	.....	0.09	.....	.....	.....	.....	.....	.....	.....	.....
Davenport, Iowa	12	.....	.....	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Del Rio, Tex.	2-3	.....	.....	0.29	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.23	.....	.....	.....
Denver, Colo.	15	.....	.....	0.50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Des Moines, Iowa	30-31	.....	.....	0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Detroit, Mich.	11-12	.....	.....	1.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.16	.....	.....	.....
Dodge, Kans.	15	.....	.....	0.02	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Dubuque, Iowa	31	.....	.....	0.65	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Duluth, Minn.	31	.....	.....	0.13	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Eastport, Me.	29-30	.....	.....	1.92	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.18	.....	.....	.....
Elkins, W. Va.	26-27	.....	.....	0.61	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.38	.....	.....	.....
Erie, Pa.	12	.....	.....	0.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Escanaba, Mich.	31	.....	.....	0.38	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Evansville, Ind.	31	.....	.....	0.64	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.17	.....	.....	.....
Fort Smith, Ark.	3-4	.....	.....	1.60	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.39	.....	.....	.....
Fort Worth, Tex.	30-31	.....	.....	0.70	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Galveston, Tex.	16	D. N.	D. N.	0.40	1:00 a. m.	1:10 a. m.	0.01	0.15	0.32	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Grand Haven, Mich.	31	.....	.....	0.63	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Grand Rapids, Mich.	31	.....	.....	0.68	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Green Bay, Wis.	31	.....	.....	0.52	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Hannibal, Mo.	31	.....	.....	0.35	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	*	.....	.....	.....
Harrisburg, Pa.	12	.....	.....	0.81	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.18	.....	.....	.....

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, etc.*—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive 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.
Hartford, Conn	7-8			1.53														*			
Hatteras, N. C	7			1.41														0.44			
Huron, S. Dak	30-31			0.19														*			
Indianapolis, Ind	11-12			1.47														*			
Iola, Kans	3			0.59														0.12			
Jacksonville, Fla	6-7			1.53														0.38			
Jupiter, Fla	18-19			1.51														0.50			
Kansas City, Mo	3			0.08														*			
Keokuk, Iowa	22			0.15														*			
Key West, Fla	10-11			0.29				0.08													
Knoxville, Tenn	4			1.25														0.25			
La Crosse, Wis	31			0.31														*			
La Salle, Ill	31			0.49														*			
Lexington, Ky	11-12			0.45														0.11			
Lincoln, Nebr	31			0.26														*			
Little Rock, Ark	31			1.02														0.49			
Los Angeles, Cal	14	D. N.	5:45 a. m.	0.71	4:16 a. m.	4:23 a. m.	0.09	0.42	0.53												
Louisville, Ky	11-12			0.72														0.20			
Lynchburg, Va	7			1.76														0.30			
Macon, Ga	31			3.37														0.54			
Madison, Wis	31			0.54														*			
Marquette, Mich	15-16			0.48														*			
Memphis, Tenn	31			1.76														0.66			
Meridian, Miss	31	3:10 p. m.	6:00 p. m.	0.98	4:05 p. m.	4:18 a. m.	0.20	0.11	0.39	0.63											
Milwaukee, Wis	12			1.84														0.13			
Minneapolis, Minn	30-31			0.36														*			
Mobile, Ala	10	4:35 p. m.	D. N	2.66	7:50 p. m.	8:19 p. m.	0.58	0.20	0.47	0.69	0.95	1.20	1.30								
Do	30-31	D. N.	4:10 p. m.	2.66	7:05 a. m.	8:21 a. m.	0.75	0.06	0.12	0.21	0.30	0.43	0.45	0.48	0.50	0.51	0.58	0.69	1.15		
Do	31	7:02 p. m.	D. N.	1.20	8:16 p. m.	9:06 p. m.	0.10	0.13	0.22	0.33	0.52	0.64	0.72	0.81	0.91	0.98	1.08				
Montgomery, Ala	31	D. N.	8:40 p. m.	2.33	6:45 p. m.	6:53 p. m.	1.86	0.25	0.34												
Mount Weather, Va	11-12			1.70														*			
Nantucket, Mass	12			1.08														0.37			
Nashville, Tenn	31			1.16														0.44			
New Haven, Conn	12-13			1.55														0.58			
New Orleans, La	6			1.73														0.42			
New York, N. Y	12			1.31														0.37			
Norfolk, Va	11-12	7:55 p. m.	D. N.	1.06	1:54 a. m.	1:59 a. m.	0.69	0.33													
Northfield, Vt	7-8			0.71														*			
North Head, Wash	1-2			1.23														0.37			
Oklahoma, Okla	3-4			1.23														0.19			
Omaha, Nebr	31			0.22														0.05			
Palestine, Tex	30-31			1.28														0.40			
Parkersburg, W. Va	26-27			0.37									0.09								
Pensacola, Fla	10-11	5:50 p. m.	2:15 a. m.	1.32	9:59 p. m.	10:14 p. m.	0.37	0.09	0.31	0.44											
Peoria, Ill	31			0.24														*			
Philadelphia, Pa	12			1.06														0.41			
Pittsburg, Pa	26-27			0.46														*			
Portland, Me	12-13			1.17														0.34			
Portland, Oreg	19-20			0.96														0.25			
Pueblo, Colo	15			0.17														*			
Raleigh, N. C	11			1.14														0.43			
Richmond, Va	11-12	7:48 p. m.	D. N.	1.50	12:31 a. m.	12:50 a. m.	0.68	0.09	0.21	0.36	0.46										
Rochester, N. Y	12-13			0.69														*			
Sacramento, Cal	13-14			1.57														0.52			
St. Louis, Mo	11-12			1.05														*			
St. Paul, Minn	31			0.36														*			
Salt Lake City, Utah	14-15			0.22														*			
San Antonio, Tex	5-6			0.86														0.41			
San Diego, Cal	14			0.38														0.35			
Sandusky, Ohio	11-12			0.80														*			
San Francisco, Cal	23-24			0.94														0.32			
Savannah, Ga	11	D. N.	2:10 p. m.	1.73	10:43 a. m.	11:07 a. m.	0.74	0.06	0.14	0.26	0.40	0.56									
Scranton, Pa	12-13			0.92														0.29			
Seattle, Wash	19			0.62														0.25			
Shreveport, La	30-31			1.12														0.52			
Spokane, Wash	16-17			0.68														*			
Springfield, Ill	11-12			0.91														*			
Springfield, Mo	3-4			1.16														*			
Syracuse, N. Y	7-8			1.20														*			
Tampa, Fla	11	D. N.	7:10 a. m.	0.61	5:36 a. m.	5:46 a. m.	0.01	0.25	0.31												
Taylor, Tex	30-31			0.39														0.22			
Thomasville, Ga	6-7			3.15														0.49			
Toledo, Ohio	11-12			1.51														0.21			
Topeka, Kans	3			0.06														0.03			
Valentine, Nebr	31			0.07														*			
Vicksburg, Miss	31	1:00 p. m.	3:32 p. m.	0.46	2:08 p. m.	2:18 p. m.	0.06	0.33										0.37			
Washington, D. C	11-12			1.23																	
Wichita, Kans	3			0.16									0.03								
Wytheville, Va	11-12			1.42														*			
Yankton, S. Dak	31			0.09														*			
San Juan, P. R	25-26	8:43 p. m.	D. N.	0.96	10:22 p. m.	10:32 p. m.	0.10	0.27	0.37												

* Self-register not working. † No precipitation during the month.

TABLE III.—*Data furnished by the Canadian Meteorological Service, January, 1908.*

Stations.	Pressure, in inches.			Temperature.				Precipitation.		
	Actual, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean.	Departure from normal.	Mean maximum.	Mean minimum.	Total.	Departure from normal.	Total snowfall.
	Ins.	Ins.	Ins.	°	°	°	°	Ins.	Ins.	Ins.
St. Johns, N. F	29.62	29.76	—.10	27.8	+ 4.0	34.1	21.5	5.46	—0.45	15.7
Sydney, C. B. I	29.79	29.83	—.10	26.3	+ 5.8	34.7	17.9	5.73	+0.63	16.0
Halifax, N. S	29.75	29.86	—.11	26.5	+ 4.7	35.1	17.9	6.17	+0.40	18.9
Grand Manan, N. B	29.79	29.84	—.15	26.7	+ 3.3	35.8	17.6	4.57	—0.34	7.1
Yarmouth, N. S	29.80	29.87	—.13	29.5	+ 3.2	36.8	22.3	5.06	—0.35	15.2
Charlottetown, P. E. I	29.78	29.82	—.14	21.0	+ 4.0	29.1	12.9	4.67	+0.71	22.4
Chatham, N. B	29.79	29.82	—.15	15.9	+ 6.1	26.7	5.1	3.03	—0.56	16.9
Father Point, Que	29.75	29.78	—.20	12.6	+ 4.6	21.7	3.5	1.90	—0.95	14.8
Quebec, Que	29.55	29.89	—.13	10.2	+ 1.1	18.6	1.8	4.50	+0.49	36.9
Montreal, Que	29.71	29.94	—.10	13.4	+ 1.7	22.6	4.2	4.71	+0.98	43.7
Rockliffe, Ont	29.32	29.96	—.06	5.6	— 0.8	18.1	— 6.9	1.89	—0.43	18.9
Ottawa, Ont	29.66	30.00	—.03	11.8	+ 2.2	20.9	2.6	2.40	—0.59	21.5
Kingston, Ont	29.66	30.00	—.05	18.6	+ 1.5	28.5	8.7	1.43	—2.02	9.9
Toronto, Ont	29.56	29.96	—.09	24.4	+ 3.0	31.9	16.8	2.51	—0.41	19.0
White River, Ont	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Port Stanley, Ont	29.33	30.00	—.07	24.7	+ 2.5	32.0	17.5	2.74	—0.25	15.0
Southampton, Ont	29.21	.....	.....	23.9	+ 3.5	30.8	17.0	2.69	—1.86	25.1
Parry Sound, Ont	29.22	29.95	—.06	15.8	+ 2.0	26.6	4.9	3.00	—1.08	27.5
Port Arthur, Ont	29.23	29.97	—.10	12.8	+ 9.7	23.7	2.0	0.47	—0.35	4.7
Winnipeg, Man	29.12	29.99	—.12	7.8	+14.6	17.8	— 2.3	0.44	—0.44	4.4
Minnedosa, Man	28.08	29.99	—.11	8.9	+16.1	20.9	— 3.1	0.31	—0.49	3.1
Regina, Sask	27.90	.....	.....	11.3	+15.1	22.5	0.1	0.26	—0.24	2.6
Medicine Hat, Alberta	27.60	29.94	—.13	26.3	+20.8	38.3	14.3	0.10	—0.47	1.0
Swift Current, Sask	27.34	30.02	—.07	17.7	+14.6	28.2	7.1	0.46	—0.18	4.6
Calgary, Alberta	26.31	29.96	—.07	25.8	+17.4	38.3	13.2	0.08	—0.45	0.8
Banff, Alberta	25.30	30.09	+.09	19.4	+ 7.3	27.2	11.5	1.10	—0.09	11.0
Edmonton, Alberta	27.55	29.92	—.11	17.9	+16.1	27.5	8.3	0.31	—0.37	3.1
Prince Albert, Sask	28.28	29.92	—.17	8.1	+16.5	21.7	— 5.4	0.40	—0.57	4.0
Battleford, Sask	28.13	29.96	—.12	8.2	+14.1	19.3	— 2.8	0.46	+0.06	4.6
Kamloops, B. C	28.73	29.98	+.02	27.9	+ 2.9	32.7	23.0	0.52	—0.30	....
Victoria, B. C	29.93	30.03	+.06	41.6	+ 3.1	44.7	38.4	3.22	—2.17	T.
Barkerville, B. C	25.56	29.97	+.08	20.3	+ 2.5	27.1	13.6	2.50	—0.10	....
Hamilton, Bermuda	29.96	30.13	.00	61.7	— 0.3	68.0	55.3	4.46	—0.48	
Dawson, Yukon	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

TABLE IV.—*Heights of rivers referred to zeros of gages, January, 1908.*

Stations.	Distance to mouth of river.	Flood stage on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.
			Height.	Date.	Height.	Date.		
Republican River.	Miles.	Feet.	Feet.		Feet.		Feet.	Feet.
Clay Center, Kans	42	18	6.0	21, 24, 28	5.1	13	5.7	0.9
Smoky Hill-Kansas River.								
Abilene, Kans	254	22	1.0	30	0.0	1	0.4	1.0
Manhattan, Kans	160	18	3.0	22-24,27,28	2.4	16-18, 31	2.8	0.6
Topeka, Kans. (2)	87	21	5.9	20, 21, 25	5.6	1-12,15, 17,18,27, 30	5.7	0.3
Missouri River.								
Bismarck, N. Dak	1,309	14	4.5	24	2.5	1-4	3.6	2.0
Pierre, S. Dak. (31)	1,114	14	.....	.....	.....	.....	.....	.....
Sioux City, Iowa	784	17	9.5	30, 31	2.9	6-8	4.4	6.6
Blair, Nebr	705	15	4.9	30	2.3	1-3	3.5	2.6
St. Joseph, Mo	481	10	— 0.7	24	— 2.6	20	—1.6	1.9
Kansas City, Mo	388	21	4.9	26, 27	3.6	19	4.4	1.3
Glasgow, Mo	231	18	3.3	4	2.5	25	2.9	0.8
Boonville, Mo	199	20	6.3	31	5.4	21, 22	5.7	0.9
Hermann, Mo	103	24	5.2	1	4.3	22	4.7	0.9
Minnesota River.								
Mankato, Minn	127	18	3.0	2	2.2	6	2.5	0.8
St. Croix River.								
Stillwater, Minn. (31)	23	11	.....	.....	.....	.....	.....	.....
Illinois River.								
La Salle, Ill	197	18	21.4	1	16.7	31	18.9	4.7
Peoria, Ill	185	14	15.7	5, 6	12.5	31	14.2	3.2
Conemaugh River.								
Johnstown, Pa	64	7	7.6	12	2.6	9-11, 31	3.2	5.0
Allegheny River.								
Warren, Pa	177	14	5.5	1	1.0	10, 11	2.4	4.5
Parker, Pa	73	20	6.8	1	2.0	27	3.6	4.8
Freeport, Pa	29	20	13.1	13	5.1	26	7.2	8.0
Youghiogheny River.								
Confluence, Pa. (9)	59	10	5.4	13	1.7	21	2.5	3.7
West Newton, Pa. (3)	15	23	9.4	13	1.8	11	3.4	7.6
Monongahela River.								
Fairmont, W. Va	119	25	22.0	13	15.2	26	16.3	6.8
Greensboro, Pa. (3)	81	18	15.8	13	7.7	11	9.3	8.1
Lock No. 4, Pa	40	28	20.3	14	8.2	11	10.9	12.1
Muskingum River.								
Zanesville, Ohio	70	25	11.8	1	8.7	26	9.8	3.1
Little Kanawha River.								
Creston, W. Va	38	20	9.3	13	2.9	26	4.4	6.4
New-Great Kanawha River.								
Hinton, W. Va	153	14	12.5	13	2.8	26	4.3	9.7
Charleston, W. Va	58	30	23.5	14	5.2	22	7.8	18.3
Scioto River.								
Columbus, Ohio	110	17	6.8	1	3.0	22	4.0	3.8
Licking River.								
Falmouth, Ky	30	25	4.0	1	2.0	4, 31	2.8	2.0
Kentucky River.								
Beattyville, Ky	254	30	5.6	6	0.6	4	2.1	5.0
Frankfort, Ky	65	31	9.1	7, 8	6.6	27	7.6	2.5
Wabash River.								
Terre Haute, Ind	171	16	17.3	3	3.4	29	8.7	13.9
Mount Carmel, Ill	75	15	15.5	5	5.4	31	10.8	10.1
Cumberland River.								
Burnside, Ky	518	50	16.8	1	3.2	31	7.3	13.6
Celina, Tenn	383	45	18.9	2	5.3	31	10.5	13.6
Carthage, Tenn	308	40	16.0	3	4.4	31	10.1	11.6
Nashville, Tenn	193	40	22.6	5	10.0	31	15.7	12.6
Clarksville, Tenn	126	43	27.9	8	8.0	31	16.7	19.9
Clinch River.								
Speers Ferry, Va	156	20	7.8	13	0.9	22, 23	2.2	6.9
Clinton, Tenn	52	25	19.4	1	6.0	26	9.8	13.4
South Fork Holston River.								
Bluff City, Tenn	35	12	8.9	12	1.9	31	3.0	7.0
Holston River.								
Rogersville, Tenn	103	14	13.0	13	3.0	31	4.1	10.0
French Broad River.	Miles.	Feet.	Feet.		Feet.		Feet.	Feet.
Asheville, N. C	144	4	5.9	12	0.3	30, 31	1.2	5.6
Dandridge, Tenn	46	12	14.0	12	1.8	26, 31	3.3	12.2
Tennessee River.								
Knoxville, Tenn	635	12	17.8	13	3.0	27, 31	5.9	14.8
Loudon, Tenn	590	25	13.0	14	2.0	30, 31	5.0	11.0
Kingston, Tenn	556	25	13.6	14	4.1	29	7.0	9.5
Chattanooga, Tenn	452	33	20.3	15	5.6	28, 29	11.3	14.7
Bridgeport, Ala	402	24	15.0	16	4.3	29, 31	8.8	10.7
Guntersville, Ala	349	31	22.6	16	7.0	30	14.5	15.6
Florence, Ala	255	16	12.9	18	4.4	30, 31	8.8	8.5
Riverton, Ala	225	26	20.4	18	7.3	31	14.5	13.1
Johnsonville, Tenn	95	21	21.0	7	7.3	31	14.7	13.7
Ohio River.								
Pittsburg, Pa	966	22	15.1	14	2.6	12	6.2	12.5
Dam No. 2, Pa	956	25	15.0	14	4.1	12	7.3	10.9
Beaver Dam, Pa	925	27	21.4	14	6.2	12	10.5	15.2
Wheeling, W. Va	875	36	20.5	15	6.5	12	10.3	14.0
Parkersburg, W. Va	785	36	19.0	16	8.0	11, 12	11.2	11.0
Point Pleasant, W. Va	703	39	23.7	16	8.0	12	14.3	15.7
Huntington, W. Va	660	50	27.2	17	12.6	13	18.6	14.6
Catlettsburg, Ky	651	50	28.0	17	12.0	13	18.7	16.0
Portsmouth, Ohio	612	50	28.7	17	12.8	27	19.5	15.9
Maysville, Ky	559	50	28.1	17	13.1	28	19.6	15.0
Cincinnati, Ohio	499	50	29.9	18	14.5	28	22.0	15.4
Madison, Ind	418	46	25.4	1	13.4	29, 30	19.7	12.0
Louisville, Ky	367	28	11.0	1	6.1	30	8.7	4.9
Evansville, Ind	184	35	25.2	1	11.5	30	19.3	13.7
Mount Vernon, Ind	148	35	24.8	2	10.6	31	19.4	14.2
Paducah, Ky	47	40	26.1	8	12.3	31	21.5	13.8
Cairo, Ill	1	45	29.0	8	17.3	31	25.3	11.7
Neosho River.								
Iola, Kans	262	10	0.6	6	0.1	22, 23, 25, 29-31	0.2	0.5
Oswego, Kans	184	20	3.5	5	0.5	27-31	1.0	3.0
Fort Gibson, Okla	3	22	12.2	7	9.2	24-31	9.9	3.0
Canadian River.								
Calvin, Okla (1)	99	10	4.3	6	2.9	29	3.4	1.4
Black River.								
Blackrock, Ark	67	12	10.0	13, 14	4.1	5-11	6.5	5.9
White River.								
Calicorock, Ark	272	18	4.2	13	0.5	3	1.9	3.7
Batesville, Ark	217	18	6.7	13	2.4	3, 4	4.0	4.3
Clarendon, Ark	75	30	22.3	20, 21	14.4	4	19.0	7.9
Arkansas River.								
Wichita, Kans	332	10	1.6	31	— 1.5	6, 7, 22, 23	1.1	3.1
Tulsa, Okla	551	16	4.6	7-9	3.0	28-31	3.6	1.6
Webbers Falls, Okla	465	28	8.0	8	5.2	24-31	5.9	2.8
Fort Smith, Ark	403	22	9.1	8	2.9	28-31	5.0	6.2
Dardanelle, Ark	256	21	8.6	9	2.7	31	5.0	5.9
Little Rock, Ark	176	23	11.8	13	4.1	31	7.5	7.7
Pine Bluff, Ark	121	25	14.4	14	6.5	31	10.3	7.9
Yazoo River.								
Greenwood, Miss	175	38	17.4	13, 14, 18	10.7	1	15.4	6.7
Yazoo City, Miss	80	25	12.0	16-21	3.2	1	9.7	8.8
Ouachita River.								
Camden, Ark	304	39	27.2	16	8.5	31	16.2	18.7
Monroe, La	122	40	.....	.....	.....	.....	.....	.....
Red River.								
Denison, Tex	768	22	4.1	5, 9	1.0	1, 28-30	2.1	3.1
Arthur City, Tex	688	27	13.0	11	7.4	24, 29, 30	9.2	5.6
Fulton, Ark	515	28	19.8	9	8.8	31	14.1	11.0
Shreveport, La	327	29	12.7	11	5.6	31	9.5	7.1
Alexandria, La	118	33	19.0	1	10.3	31	15.1	8.7
Mississippi River.								
Fort Ripley, Minn. (31)	2,082	10	.....	.....	.....	.....	.....	.....
St. Paul, Minn. (31)	1,954	14	.....	.....	.....	.....	.....	.....
Red Wing, Minn (31)	1,914	14	.....	.....	.....	.....	.....	.....
Reeds Landing, Minn. (2)	1,884	12	0.0	2	— 0.4	13-31	—0.3	0.4

TABLE IV.—*Heights of rivers referred to zeros of gages*—Continued.

Stations.	Distance to mouth of river.	Flood stage on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.
			Height.	Date.	Height.	Date.		
Mississippi River—Cont'd.	*Miles.*	*Feet.*	*Feet.*		*Feet.*		*Feet.*	*Feet.*
La Crosse, Wis. (30)	1,819	12	.....	.....	.....	.....	.....	.....
Prairie du Chien, Wis. (31)	1,759	18	.....	.....	.....	.....	.....	.....
Dubuque, Iowa	1,699	18	3.5	27	1.4	3–7	2.7	2.1
Leclaire, Iowa (3)	1,609	10	1.2	24	0.0	3	0.6	1.2
Davenport, Iowa (1)	1,593	15	4.9	30	1.1	10	2.0	3.8
Muscatine, Iowa	1,562	16	5.1	28	2.2	7–10	3.1	2.9
Galland, Iowa	1,472	8	1.5	24	0.5	11–13, 27	0.8	1.0
Keokuk, Iowa	1,463	15	1.5	23	— 0.9	19	0.5	2.4
Warsaw, Ill	1,458	18	4.5	23	2.8	10	3.5	1.7
Hannibal, Mo	1,402	13	2.2	2, 23	0.6	19, 20	1.5	1.6
Grafton, Ill	1,306	23	5.9	9, 10, 14, 24	5.0	22	5.6	0.9
St. Louis, Mo	1,264	30	5.0	14	3.3	31	4.4	1.7
Chester, Ill	1,189	30	5.8	15	3.6	23	4.4	2.2
Cape Girardeau, Mo	1,128	28	10.5	15, 16	7.8	23, 24, 31	8.8	2.7
New Madrid, Mo	1,008	34	23.9	9	14.5	31	20.9	9.4
Luxora, Ark	905	33	16.5	10	8.7	31	13.9	7.8
Memphis, Tenn	843	33	21.3	10, 11	13.6	31	18.7	7.7
Helena, Ark	767	42	27.4	12, 13	19.5	31	24.3	7.9
Arkansas City, Ark	635	42	31.0	15	24.3	31	28.0	6.7
Greenville, Miss	595	42	26.0	16	19.7	1	23.3	6.3
Vicksburg, Miss	474	45	28.6	16–18	19.5	1	25.4	9.1
Natchez, Miss	378	46	29.5	19	19.7	1	26.1	9.8
Baton Rouge, La	240	35	21.7	20	12.9	1	19.0	8.8
Donaldsonville, La	188	28	16.5	19–22	8.5	1	14.1	8.0
New Orleans, La	108	16	10.7	21	6.0	1	8.8	4.7
Atchafalaya River.								
Simmesport, La	127	33	25.6	19, 20	17.7	1	23.1	7.9
Melville, La	103	31	28.2	19, 20	21.2	1	26.0	7.0
Hudson River.								
Troy, N. Y	154	14	8.7	1	3.7	28	5.6	5.0
Albany, N. Y	147	12	6.0	1	1.3	30, 31	3.6	4.7
Delaware River.								
Hancock (E. Branch), N. Y.	287	12	6.3	6, 8	3.3	30	4.3	3.0
Hancock (W. Branch), N. Y.	287	10	6.5	11	3.1	25	4.1	3.4
Port Jervis, N. Y	215	14	4.8	14	0.8	31	2.3	4.0
Phillipsburg, N. J. (4)	146	26	8.4	14	2.5	25	4.3	5.9
Trenton, N. J	92	18	6.0	1	2.5	30, 31	4.0	3.5
North Branch Susquehanna.								
Binghamton, N. Y	183	16	6.1	1	2.6	26	3.4	3.5
Wilkes-Barre, Pa	60	17	12.0	1	5.5	22, 26, 27	7.9	6.5
West Branch Susquehanna.								
Williamsport, Pa	39	20	9.0	14	2.3	25	4.2	6.7
Susquehanna River.								
Harrisburg, Pa	69	17	8.0	14	2.4	31	4.4	5.6
Shenandoah River.								
Riverton, Va	58	22	18.0	13	0.4	31	2.1	17.6
Potomac River.								
Cumberland, Md	290	8	9.0	12	3.0	8–11, 31	3.5	6.0
Harpers Ferry, W. Va	172	18	19.9	13	2.0	11	6.0	17.9
James River.								
Lynchburg, Va	260	18	16.2	13	2.2	26	3.8	14.0
Columbia, Va	167	18	25.9	14	6.2	27	9.7	19.7
Richmond, Va	111	10	13.3	14	1.2	5, 21, 22, 29	2.9	12.1
Roanoke River.								
Clarksville, Va	196	12	9.9	9	1.0	26	3.4	8.9
Weldon, N. C	129	30	38.6	10	13.0	27	21.4	25.6
Tar River.								
Greenville, N. C.	21	22	17.2	15, 16	7.9	30	12.5	9.3
Deep River.								
Moncure, N. C	171	25	20.1	8	8.5	20–26, 31	7.8	11.6
Cape Fear River.								
Fayetteville, N. C	112	38	36.3	14	6.2	26	18.1	30.1
Pedee River.								
Cheraw, S C	149	27	31.6	14	4.8	27, 31	14.8	26.8
Smiths Mills, S. C. (4)	51	16	17.4	20, 21	12.0	31	15.4	5.4
Lynch Creek.								
Effingham, S. C	35	12	13.1	15	5.5	30, 31	8.1	7.6
Black River.								
Kingstree, S. C	45	12	10.0	15–17, 19–21	7.5	8, 31	8.7	2.5

Stations.	Distance to mouth of river.	Flood stage on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.
			Height.	Date.	Height.	Date.		
Catawba-Wateree River.	*Miles.*	*Feet.*	*Feet.*		*Feet.*		*Feet.*	*Feet.*
Mount Holly, N. C	143	15	9.5	13	1.8	21–31	2.6	7.7
Catawba, S. C	107	11	16.8	13	2.5	26	5.3	14.3
Camden, S. C	37	24	29.3	14	8.0	31	16.1	21.3
Congaree River.								
Columbia, S. C	52	15	19.1	13	1.4	26	6.3	17.7
Savannah River.								
Calhoun Falls, S. C	347	15	7.5	13	3.3	25, 26	4.5	4.2
Augusta, Ga	268	32	27.4	13	9.5	26, 27	14.7	17.9
Oconee River.								
Dublin, Ga	79	30	15.7	16	4.0	25, 27, 30	9.5	11.7
Ocmulgee River.								
Macon, Ga	203	18	15.9	12	4.0	27	7.7	11.9
Abbeville, Ga	96	11	13.3	15	7.0	30	10.8	6.3
Flint River.								
Montezuma, Ga	152	20	14.2	3	6.3	30	9.4	7.9
Albany, Ga	90	20	17.3	11	6.3	31	11.6	11.0
Bainbridge, Ga	29	22	19.6	12	10.3	31	15.3	9.3
Chattahoochee River.								
West Point, Ga	239	20	10.0	2	3.7	26, 28, 29	5.1	6.3
Eufaula, Ala	90	40	27.5	1	5.4	31	12.2	22.1
Alaga, Ala	30	25	27.8	1	8.3	31	15.1	19.5
Coosa River.								
Rome, Ga	266	30	15.0	1	2.8	28, 30, 31	5.6	12.2
Gadsden, Ala	162	22	15.0	2	3.7	28–31	7.5	11.3
Lock No. 4, Ala	113	17	11.8	2	3.2	28–31	6.4	8.6
Wetumpka, Ala	12	45	28.5	2	7.6	31	15.3	20.9
Alabama River.								
Montgomery, Ala	323	35	28.3	2	5.3	31	13.4	23.0
Selma, Ala	246	35	32.0	3	6.9	31	17.5	25.1
Black Warrior River.								
Tuscaloosa, Ala	90	43	26.4	13	9.1	31	16.4	17.3
Tombigbee River.								
Columbus, Miss	316	33	7.0	8	— 0.1	31	3.7	7.1
Demopolis, Ala	168	35	22.6	15	6.5	31	16.7	16.1
Pascagoula River.								
Merrill, Miss	78	20	18.7	15	6.0	31	12.7	12.7
Pearl River.								
Columbia, Miss	110	18	13.0	14	5.4	31	7.6	7.6
Sabine River.								
Logansport, La	315	25	21.4	12	7.1	30	15.0	14.3
Neches River.								
Beaumont, Tex	18	10	4.3	7	1.4	24	2.7	2.9
Trinity River.								
Dallas, Tex	320	25	7.8	4	4.9	28	5.9	2.9
Long Lake, Tex	211	35	38.4	1	2.0	30	15.9	36.4
Liberty, Tex	20	25	24.8	12, 13	7.8	31	17.1	17.0
Brazos River.								
Waco, Tex	285	22	5.0	1	3.5	30, 31	4.2	1.5
Hempstead, Tex	140	40	12.0	6	4.0	25–31	7.0	8.0
Booth, Tex	61	39	15.8	5	4.3	28–31	7.7	11.5
Colorado River.								
Austin, Tex	214	18	2.5	7, 8	1.2	20–23, 25	1.6	1.3
Columbus, Tex	98	24	9.7	7	5.9	29–31	6.6	3.8
Red River of the North.								
Moorhead, Minn. (30)	284	26	.....	.....	.....	.....	.....	.....
Snake River.								
Lewiston, Idaho	144	24	2.7	22	1.8	14, 15, 25–28, 31	2.0	0.9
Columbia River.								
Wenatchee, Wash	473	40	5.0	1–7	3.9	31	4.7	1.1
Umatilla, Oreg	270	25	2.3	1, 2	0.7	31	1.6	1.6
The Dalles, Oreg	166	40	3.0	1	0.4	31	1.6	2.6
Willamette River.								
Albany, Oreg	118	20	10.5	1	4.2	31	7.3	6.3
Portland, Oreg	12	15	10.1	1	2.9	28, 29	6.1	7.2
Sacramento River.								
Red Bluff, Cal	265	23	16.5	14	3.0	12	7.1	13.5
Colusa, Cal	156	28	23.4	25	8.9	13	15.6	14.5
Knights Landing, Cal	99	18	15.0	26, 27	8.6	14	12.3	6.4
Sacramento, Cal	64	25	19.5	22	13.2	13, 14	16.0	6.3

Figures denote number of days frozen. (4) 4 days missing.

Honolulu, T. H., latitude 21° 19′ north, longitude 157° 30′ west; barometer above sea, 38 feet; gravity correction, —0.057 inch, applied. January, 1908.

Day.	Pressure.*		Air temperature.				Moisture.				Wind.				Precipitation.		Clouds.					
							8 a. m.		8 p. m.		8 a. m.		8 p. m.				8 a. m.			8 p. m.		
	8 a. m.	8 p. m.	8 a. m.	8 p. m.	Maximum.	Minimum.	Wet.	Relative humidity.	Wet.	Relative humidity.	Direction.	Velocity.	Direction.	Velocity.	8 a. m.	8 p. m.	Amount.	Kind.	Direction.	Amount.	Kind.	Direction.
1	29.99	29.99	73.5	73.0	78	71	65.5	65	65.0	65	e.	9	e.	10	0.00	0.00	3	Cu.	e.	Few	S.	ne.
2	30.05	30.04	74.0	73.0	77	67	64.5	60	65.0	65	e.	9	e.	9	0.01	0.00	3	Cu.	e.	0	0	0
3	30.07	30.06	73.0	72.0	77	71	64.0	61	64.0	65	ne.	17	e.	6	0.00	0.00	3	Cu.	e.	0	0	0
4	30.09	30.05	73.7	72.0	78	68	65.0	62	66.0	73	e.	6	e.	5	0.00	0.00	1	Cu.	e.	1	S.	ne.
5	30.08	30.05	71.0	70.0	79	66	65.0	72	67.0	86	w.	2	ne.	2	0.01	0.01	Few	Cu.	0	Few	A.-s.	0
6	30.08	30.09	73.7	70.0	79	66	65.4	64	65.0	77	e.	4	n.	4	0.00	0.00	Few	Cu.	0	0	0	0
7	30.11	30.09	69.0	68.5	76	64	61.5	65	63.0	74	ne.	4	ne.	8	0.00	0.00	2	Cu.	e.	1	S.-cu.	ne.
8	30.11	30.08	71.5	68.5	77	64	61.7	57	63.0	74	ne.	4	ne.	5	0.00	0.00	Few	A.-s.	0	Few	A.-s.	0
9	30.13	30.08	70.0	68.5	77	63	60.3	56	60.0	60	n.	4	n.	6	0.00	0.00	1	A.-cu.	nw.	1	Cu.	ne.
10	30.09	30.08	66.2	66.5	74	61	59.0	65	61.0	73	e.	1	ne.	5	0.00	0.00	Few	Cu.	0	1	A.-s.	s.
11	30.13	30.11	69.4	68.0	75	62	60.8	61	62.0	71	ne.	4	ne.	4	0.00	0.00	Few	A.-cu.	0	Few	A.-s.	w.
12	30.09	30.01	72.4	67.5	76	63	63.6	62	61.0	69	e.	3	ne.	5	0.00	0.00	9	S.-cu.	e.	8	A.-s.	sw.
13	30.02	29.98	69.4	69.0	77	66	62.1	71	61.0	63	ne.	4	ne.	3	0.00	0.00	9	S.-cu.	sw.	8	A.-cu	sw.
14	30.03	30.10	72.0	68.0	76	66	65.1	69	62.0	71	ne.	3	nw.	8	0.00	0.24	Few	S.-cu.	0	3 7	S.-cu. Cu.	nw. ne.
15	30.18	30.16	68.0	70.2	73	66	58.0	54	59.0	50	ne.	10	e.	10	T.	0.00	5	S.-cu.	e.	6	Cu.	ne.
16	30.20	30.18	69.1	70.0	74	63	58.0	51	61.0	59	ne.	12	ne.	15	0.02	0.00	8	S.-cu.	e.	7	Cu.	ne.
17	30.17	30.11	70.2	70.5	75	67	59.2	51	63.0	66	e.	10	e.	6	T.	0.00	8	S.-cu.	e.	6	Cu.	e.
18	30.13	30.12	73.0	72.0	77	68	61.0	50	63.0	61	e.	10	ne.	13	0.00	0.00	4	Cu.	e.	5	Cu.	ne.
19	30.18	30.17	73.0	72.0	77	65	63.2	58	63.5	63	e.	13	se.	15	0.00	0.04	4	Cu.	ne.	7	Cu.	ne.
20	30.20	30.15	73.0	72.2	76	67	63.0	57	64.2	65	e.	18	e.	16	0.02	0.00	3	Cu.	e.	2	Cu.	ne.
21	30.16	30.14	73.4	72.0	77	70	63.0	56	63.5	63	e.	11	e.	9	0.00	0.00	2 4	Cu. S.-cu.	e. e.	4	Cu.	ne.
22	30.17	30.12	72.3	72.0	76	70	61.0	52	63.0	61	ne.	17	ne.	12	0.00	0.00	1	Cu.	e.	2	A.-s.	w.
23	30.13	30.11	72.2	71.0	77	70	62.0	56	63.0	64	ne.	9	e.	8	0.00	0.00	3	Cu.	e.	0	0	0
24	30.13	30.12	69.7	71.0	78	66	62.0	65	64.0	68	ne.	6	n.	2	0.00	0.00	9	A.-cu.	sw.	9	S.	ne.
25	30.12	30.10	71.0	69.0	78	68	63.0	64	64.0	76	ne.	1	ne.	10	0.00	0.00	5 5	S.-cu. S.	n. ne.	3	A.-s.	nw.
26	30.09	30.04	71.4	69.0	78	65	64.0	67	64.0	76	ne.	5	e.	1	0.00	0.00	7	S.-cu.	se.	0	0	0
27	30.05	30.02	69.0	70.0	77	63	63.0	72	66.0	81	0	0	ne.	5	0.00	0.00	9	S.-cu.	ne.	0	0	0
28	30.04	30.03	73.0	72.0	79	65	66.0	69	66.0	73	e.	2	ne.	8	0.00	T.	1 1	A.-s. Cu.	w. ne.	Few	A.-s.	0
29	30.08	30.08	73.0	71.5	78	69	66.5	71	64.5	68	e.	3	e.	14	0.00	T.	1 4	S.-cu. Cu.	ne. ne.	1 1	A.-s. S.	n. ne.
30	30.09	30.10	73.0	70.0	78	69	65.0	65	67.0	86	e.	14	ne.	15	0.00	0.04	2	Cu.	ne.	5	N.	ne.
31	30.09	30.08	72.0	71.2	76	66	65.0	69	64.2	68	e.	9	w.	6	0.03	0.06	1 3	S.-cu. Cu.	sw. ne.	1	Cu.-n.	nw.
Mean	30.106	30.085	71.5	70.3	76.8	66.3	62.8	61.8	63.5	68.8	e.	7.2	ne.	7.9	0.09	0.39	3.9	Cu.	e.	2.9	A.-s. Cu.	ne.

Observations are made at 8 a.m. and 8 p. m., local standard time, which is that of 157° 30′ west, and is 5h and 30m slower than 75th meridian time. *Pressure values are reduced to sea level and standard gravity.

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