Average relative humidity and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
	%			%	
New England	69	— 4	Missouri Valley	52	— 3
Middle Atlantic	68	+ 1	Northern Slope	58	— 2
South Atlantic	74	+ 2	Middle Slope	59	+ 2
Florida Peninsula	80	+ 6	Southern Slope	63	+ 8
East Gulf	76	+ 6	Southern Plateau	42	+12
West Gulf	77	+ 5	Middle Plateau	46	+ 1
Ohio Valley and Tennessee	67	+ 2	Northern Plateau	50	— 7
Lower Lake	70	0	North Pacific	77	+ 6
Upper Lake	72	— 1	Middle Pacific	64	— 8
North Dakota	66	— 2	South Pacific	65	— 3
Upper Mississippi Valley	67	— 1			

Average cloudiness and departures from the normal.

Districts.	Average.	Departure from the normal.	Districts.	Average.	Departure from the normal.
New England	5.1	— 0.2	Missouri Valley	5.1	— 0.3
Middle Atlantic	4.8	— 0.4	Northern Slope	4.2	— 1.2
South Atlantic	5.1	+ 0.7	Middle Slope	5.2	+ 0.8
Florida Peninsula	3.0	— 0.9	Southern Slope	5.1	+ 0.9
East Gulf	5.8	+ 1.3	Southern Plateau	2.7	+ 0.4
West Gulf	5.6	+ 0.4	Middle Plateau	3.3	— 1.2
Ohio Valley and Tennessee	5.8	+ 0.5	Northern Plateau	3.9	— 2.4
Lower Lake	6.0	+ 0.5	North Pacific	5.8	— 0.7
Upper Lake	5.9	+ 0.2	Middle Pacific	3.5	— 1.1
North Dakota	5.0	— 0.5	South Pacific	2.5	— 1.4
Upper Mississippi Valley	5.2	— 0.3			

CLIMATOLOGICAL SUMMARY.

By Mr. JAMES BERRY, Chief of the Climatological Division.

TEMPERATURE AND PRECIPITATION BY SECTIONS, APRIL, 1908.

In the following table are given, for the various sections of the Climatological Service of the Weather Bureau, the average temperature and rainfall, the stations reporting the highest and lowest temperatures with dates of occurrence, the stations reporting greatest and least monthly precipitation, and other data, as indicated by the several headings.

The mean temperatures for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperature and precipitation are based only on records from stations that have ten or more years of observation. Of course the number of such records is smaller than the total number of stations.

Section.	Temperature—in degrees Fahrenheit.								Precipitation—in inches and hundredths.					
	Section average.	Departure from the normal.	Monthly extremes.						Section average.	Departure from the normal.	Greatest monthly.		Least monthly.	
			Station.	Highest.	Date.	Station.	Lowest.	Date.			Station.	Amount.	Station.	Amount.
Alabama	66.9	+ 4.2	Evergreen	94	6	Riverton	26	4	5.84	+ 1.79	Thomasville	12.25	Livingston	2.70
Arizona	61.0	— 0.1	Casagrande Parker	102 102	28 12	Williams	13	2	0.60	+ 0.13	Natural Bridge	2.73	Parker	0.00
Arkansas	63.3	+ 1.9	Warren	93	8	Bergman	24	30	6.32	+ 2.14	Mena	13.76	Helena (No. 1)	2.56
California	58.4	+ 2.1	Mammoth Tank	104	30	Tamarack	4	12	0.67	— 1.81	Monumental	5.28	10 stations	0.00
Colorado	44.2	+ 1.2	Las Animas	90	22	Hahns Peak	— 6	4	0.90	— 1.12	2 stations	4.27	Eads	0.00
Florida	75.4	+ 6.3	3 stations	99	3 d't's	Macclenny	37	4	3.34	+ 0.87	Clermont	11.35	Key West	0.18
Georgia	67.5	+ 4.7	3 stations	95	10	Clayton	27	4	6.89	+ 3.70	Marshallville	13.91	Valdosta	1.15
Hawaii	69.8†	.....	Kihei, Maui	89	4, 6, 9	Humuula, Hawaii	32	3 dates	5.88‡	.....	Olaa, Hawaii	28.06	2 stations	0.00
Idaho	46.7	+ 2.1	Orofino	92	19	Lake	— 6	2	0.83	— 0.37	Landore	3.15	Mackay	T.
Illinois	52.4	+ 0.7	Chester	93	20	Lanark Zion	19 19	2 3	4.41	+ 1.11	Chester	8.86	Yorkville	1.55
Indiana	52.7	+ 0.6	Rome	87	22	Fort Wayne	18	4, 5	4.37	+ 1.22	Rome	8.40	Auburn	2.37
Iowa	50.5	+ 2.0	Onawa	91	19	Fort Dodge	8	2	2.24	— 0.59	Inwood	4.59	Little Sioux	0.67
Kansas	56.1	+ 1.0	Coolidge	93	22	Wallace	8	2	2.06	— 0.53	Columbus	6.86	Scott	0.07
Kentucky	59.8	+ 1.8	Marion	89	25	Shelby City Williamstown	23 23	3 3	6.56	+ 3.10	Frankfort	8.61	Williamsburg	3.40
Louisiana	71.7	+ 4.9	Baton Rouge	96	11	Minden	36	30	4.17	— 0.22	Simmesport	8.29	New Orleans	1.34
Maryland and Delaware	54.6	+ 2.9	Cambridge, Md	90	26	Oakland, Md	19	3	2.36	— 0.86	Deer Park, Md	4.63	Taneytown, Md	1.07
Michigan	43.2	+ 0.6	East Tawas	89	22	Humboldt	—13	3	2.53	+ 0.36	Grand Rapids	4.87	Baraga	0.75
Minnesota	45.2	+ 1.8	Halstad	93	21	Hallock	— 3	2	2.55	+ 0.40	Winnebago	4.55	Halstad	0.58
Mississippi	68.6	+ 4.6	Hattiesburg	92	9	Ripley	30	4	5.28	+ 1.11	Waynesboro	15.09	Enterprise	1.98
Missouri	56.6	+ 1.2	Linneus, Warsaw	90	20	3 stations	18	2	5.30	+ 1.68	Greenville	12.44	Linneus	0.37
Montana	45.4	+ 2.9	Forsythe	93	20	Chinook	—13	1	0.89	— 0.39	Snowshoe	4.91	2 stations	T.
Nebraska	51.5	+ 2.4	Halsey	96	22	Hay Springs	— 1	2	1.26	— 1.35	Norfolk	3.43	2 stations	T.
Nevada	50.1	+ 3.0	Las Vegas Logan	91 91	13 18, 19	Quinn River Ranch	4	1	0.33	— 0.44	Battle Mountain	1.75	2 stations	0.00
New England*	42.8	— 0.6	Norfolk, Mass	90	23	Van Buren, Me	— 4	10	2.28	— 0.61	Woodstock, Vt	4.39	Southington, Conn	1.10
New Jersey	51.2	+ 1.8	Browns Mills	93	26	Layton	13	5	2.72	— 0.72	Charlottesburg	3.86	Pleasantville	1.42
New Mexico	52.3	+ 0.1	Monument	90	8, 9	Vermejo Park	8	5	1.51	+ 0.46	Red River	4.40	Cliff	0.11
New York	43.2	— 0.4	Athens	88	23	Keepewa	— 5	5	2.89	+ 0.25	Baldwinsville	5.82	Chazy	0.45
North Carolina	62.1	+ 4.4	Lumberton	92	11	8 stations	23	3, 4	3.12	— 0.66	Sapphire	7.63	Louisburg	1.06
North Dakota	43.9	+ 2.6	Amenia, Mayville	91	21	White Earth	—19	6	1.47	— 0.11	Gladys	3.76	Melville	0.12
Ohio	51.0	+ 1.4	Demos	91	24	Garrettsville	16	4	3.69	+ 0.82	Coalton	6.80	Hedges	1.65
Oklahoma	60.0	0.0	Okeene	92	17	Kenton	19	2	5.11	+ 2.43	Meeker	10.99	Buffalo	0.83
Oregon	50.2	+ 1.5	Dayville	92	11	Christmas Lake	9	4	1.81	— 0.97	Glenora	11.07	Lake View	0.00
Pennsylvania	49.8	+ 1.5	3 stations	89	24	Pocono Lake	0	16	3.51	+ 0.48	Drifton	6.31	Hanover	1.85
Porto Rico	74.7	.....	Bayamon	93	22, 25	Aibonito	51	20	3.88	.....	San Sebastian	11.54	Santa Isabel	0.40
South Carolina	66.6	+ 4.9	Walterboro	95	10	Liberty	31	4	4.75	+ 1.38	Bowman	8.48	Camden (2)	1.42
South Dakota	49.0	+ 3.0	Armour	97	14	Bowdle Ottumwa	— 1 — 1	2 2	2.00	— 0.13	Clear Lake	4.43	Hermosa	0.32
Tennessee	62.1	+ 3.9	Pope	90	26	Erasmus	18	4	5.38	+ 1.28	Kenton	8.25	Seiverville	2.20
Texas	67.0	+ 0.5	Fort McIntosh Tilden	100 100	2, 8 25	Plemons	21	2	5.08	+ 2.03	Dublin	12.78	Fort McIntosh	0.78
Utah	49.4	+ 2.1	St. George	89	13, 28	Henefer Morgan	1 1	1 1	0.49	— 0.80	Pinto	2.10	2 stations	0.00
Virginia	57.3	+ 3.8	Arvonia	93	24	Blacksburg Burkes Garden	20 20	3 3	2.81	— 0.48	Burkes Garden	5.53	Riverton	0.40
Washington	49.4	+ 0.7	Zindel	90	19	Republic	15	1	2.23	— 0.24	Clearwater	10.72	2 stations	T.
West Virginia	54.8	+ 3.4	4 stations	92	24	Pickens	18	3	4.30	+ 0.55	Logan	8.02	Upper Tract	0.77
Wisconsin	45.2	+ 0.8	Manitowoc	87	22	Long Lake	— 9	3	3.48	+ 1.04	Downing	5.45	Menasha	1.67
Wyoming	43.2	+ 3.2	Basin	87	20	Norris, Y. N. P	—19	2	0.89	— 0.52	Pine Bluff	3.18	2 stations	T.

* Maine, New Hampshire, Vermont, Massachusetts, Rhode Island, and Connecticut. † 51 stations, with an average elevation of 710 feet. ‡ 147 stations.

DESCRIPTION OF TABLES AND CHARTS.

By Mr. P. C. DAY, Assistant Chief, Division of Meteorological Records.

For description of tables and charts see page 8 of REVIEW for January, 1908.

TABLE I.—*Climatological data for U. S. Weather Bureau stations, April, 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.							43.2	— 0.6										69	2.27	— 0.8										5.1	
Eastport	76	69	85	29.71	29.80	— .13	37.0	— 1.3	65	23	45	11	4	29	28	33	28	75	2.64	— 0.3	14	10,445	w.	44	w.	12	5	16	9	5.9	14.9
Greenville	...	...	...	...	...	...	32.9	...	73	26	43	2	4	23	...	...	...	...	2.14	...	9	...	nw.	...	...	...	...	...	...	...	...
Portland, Me.	103	81	117	29.74	29.87	— .09	40.6	— 2.4	81	26	49	18	4	32	38	35	26	60	2.14	— 1.0	13	9,007	w.	45	nw.	12	9	12	9	5.3	4.5
Concord	288	70	79	29.57	29.88	— .11	42.4	— 1.4	80	26	53	17	4	32	47	...	...	...	1.85	— 0.9	14	5,925	nw.	36	w.	11	19	7	4	3.1	7.5
Burlington	404	12	47	29.46	29.91	— .08	38.6	— 4.8	77	27	48	12	4	30	31	...	...	...	1.93	+ 0.1	13	10,889	s.	60	s.	2	8	9	13	6.1	4.3
Northfield	876	16	70	28.92	29.89	— .10	37.4	— 2.8	78	27	48	9	4	27	39	34	29	70	2.20	+ 0.1	16	8,568	nw.	48	se.	2	5	12	13	6.6	7.7
Boston	125	115	188	29.75	29.89	— .08	46.8	+ 1.5	85	23	56	24	4	38	31	42	37	73	1.70	— 1.8	15	9,491	nw.	45	w.	11	9	11	10	5.3	0.8
Nantucket	12	14	90	29.89	29.90	— .07	43.7	— 0.5	62	26	50	26	4	37	20	41	38	84	3.55	+ 0.9	17	13,959	sw.	49	sw.	15	12	10	8	5.5	T.
Block Island	26	11	46	29.89	29.92	— .06	44.4	+ 0.6	64	26	50	26	4	38	17	40	34	73	2.64	— 1.0	15	14,965	sw.	64	nw.	3	14	10	6	4.2	T.
Narragansett	...	9	...	...	...	...	45.0	+ 0.4	66	26	54	21	5	36	28	...	...	...	2.64	...	12	...	nw.	...	...	...	18	5	7	...	T.
Providence	160	57	67	29.74	29.92	— .06	46.6	0.0	85	23	56	22	5	37	35	39	31	59	1.77	— 1.8	13	7,112	w.	36	nw.	9	15	9	6	4.2	T.
Hartford	159	122	132	29.74	29.92	— .07	43.2	+ 1.5	85	23	58	22	4	38	29	41	33	60	2.36	— 1.2	12	7,447	nw.	42	nw.	12	10	11	9	5.5	T.
New Haven	106	116	155	29.81	29.93	— .06	48.2	+ 1.8	81	26	58	24	5	39	32	41	34	63	2.15	— 1.4	13	8,473	nw.	50	w.	11	13	10	7	4.4	T.
Mid. Atlantic States.							53.5	+ 2.7										68	2.44	— 0.6										4.8	
Albany	97	102	115	29.81	29.92	— .08	45.6	— 0.2	82	26	55	21	4	36	36	40	33	63	2.62	+ 0.2	14	7,418	s.	38	se.	30	11	10	9	5.0	0.4
Binghamton	871	78	90	29.00	29.94	— .08	44.6	+ 0.2	81	24	55	18	5	34	41	...	...	...	2.96	+ 0.7	13	6,274	nw.	39	w.	11	6	9	15	6.5	1.1
New York	314	108	350	29.59	29.93	— .07	50.6	+ 2.5	79	26	59	27	5	42	24	45	40	74	1.82	— 1.5	10	11,279	nw.	60	w.	11	13	11	6	4.5	T.
Harrisburg	374	94	104	29.56	29.96	— .06	52.4	+ 1.7	83	27	63	28	5	42	34	45	36	59	2.33	— 0.2	11	7,278	nw.	46	nw.	11	16	6	8	4.4	T.
Philadelphia	117	116	184	29.84	29.97	— .04	54.6	+ 3.8	83	26	65	30	5	45	28	48	43	71	2.35	— 0.6	12	8,836	nw.	38	nw.	19	14	10	6	4.3	T.
Scranton	805	111	119	29.07	29.94	— .07	48.0	+ 0.9	85	23	58	20	5	38	37	42	36	66	2.97	+ 0.3	13	7,368	sw.	44	w.	11	10	9	11	5.4	T.
Atlantic City	52	37	48	29.92	29.98	— .02	50.9	+ 5.3	72	13	58	29	4	44	28	45	39	69	1.47	— 1.5	14	7,520	sw.	41	s.	30	10	10	10	5.3	T.
Cape May	17	48	52	29.98	30.00	+ .01	51.2	+ 2.8	72	13	58	30	5	44	27	46	...	...	2.14	— 0.8	14	7,954	s.	46	s.	30	11	11	8	4.7	
Baltimore	123	100	113	29.83	29.96	— .05	56.5	+ 3.5	87	27	67	30	4	46	34	49	43	65	1.09	— 2.2	10	6,135	s.	32	sw.	20	11	7	12	5.2	T.
Washington	112	59	76	29.85	29.97	— .05	56.4	+ 3.3	87	24	68	29	5	45	38	48	41	61	1.60	— 1.6	13	6,663	nw.	43	nw.	30	14	11	5	4.4	T.
Cape Henry	18	9	58	29.96	29.98	— .02	59.0	+ 4.4	86	27	68	34	4	50	30	...	...	...	2.07	— 1.8	11	10,640	sw.	50	ne.	16	17	8	5	4.0	
Lynchburg	681	83	88	29.25	30.00	— .02	58.6	+ 3.0	88	24	70	33	3	47	39	52	47	67	2.96	— 0.2	10	3,712	nw.	27	nw.	11	13	9	8	5.0	
Mount Weather	1,725	10	54	28.12	29.95	— .07	51.8	+ 3.4	80	24	62	24	3	42	31	45	40	71	1.84	— 1.2	12	12,916	nw.	75	nw.	30	10	11	9	5.2	
Norfolk	91	102	111	29.90	30.00	— .01	60.6	+ 4.6	88	24	70	35	4	51	34	54	50	74	3.26	— 0.5	11	7,958	s.	39	sw.	30	12	8	10	5.0	
Richmond	144	145	153	29.86	30.01	— .01	60.0	+ 2.8	90	24	71	31	4	49	34	...	...	...	2.73	— 0.7	12	7,297	s.	40	sw.	20	16	5	9	4.6	
Wytheville	2,293	40	47	27.62	29.99	— .04	54.6	+ 2.6	84	24	66	27	3	43	39	49	45	75	4.89	+ 1.2	12	4,847	w.	27	w.	19	16	6	8	4.1	T.
S. Atlantic States.							66.1	+ 4.8										74	3.06	— 0.4										5.1	
Asheville	2,255	53	75	27.66	29.99	— .04	58.8	+ 4.9	82	10	70	30	3	48	37	53	49	76	3.77	— 0.3	12	6,733	se.	38	e.	16	7	13	10	5.6	
Charlotte	773	68	76	29.18	30.02	— .01	63.4	+ 4.2	84	10	73	38	4	53	31	54	48	64	1.29	— 2.2	9	5,910	sw.	34	sw.	30	8	10	12	6.0	
Hatteras	11	12	47	30.00	30.01	.00	62.6	+ 4.6	77	19	69	43	4	56	19	58	56	82	2.46	— 1.9	12	11,078	sw.	51	ne.	16	18	9	3	3.5	
Manteo	...	...	...	...	...	...	61.2	...	85	11	70	36	4	52	...	...	...	...	1.62	— 3.0	7	...	sw.	...	...	...	21	5	4	...	
Raleigh	376	71	79	29.60	30.00	— .03	63.2	+ 4.2	87	26	74	35	4	52	32	54	48	63	2.56	— 0.9	8	5,591	sw.	28	nw.	30	9	8	13	5.5	
Wilmington	78	81	91	29.94	30.02	— .01	65.4	+ 5.0	88	11	74	39	4	56	30	59	55	76	2.08	— 0.8	8	7,088	sw.	32	ne.	16	8	15	7	4.9	
Charleston	48	14	92	29.96	30.01	— .02	68.8	+ 5.0	90	11	76	45	17	62	29	63	61	82	4.92	+ 1.9	11	8,684	sw.	47	ne.	16	6	15	9	5.0	
Columbia, S. C.	351	41	57	29.62	30.00	— .03	66.7	+ 3.9	90	10	77	36	4	56	33	59	53	69	3.24	+ 0.4	13	5,567	s.	37	sw.	30	6	14	10	6.0	
Augusta	180	89	97	29.81	30.00	— .03	67.7	+ 4.5	90	10	78	38	4	58	28	61	57	75	5.41	+ 1.9	12	5,330	se.	34	ne.	16	14	11	5	3.9	
Savannah	65	81	89	29.94	30.01	— .02	70.6	+ 5.9	91	10	79	46	17	62	25	63	59	76	3.36	+ 0.4	8	6,335	w.	30	e.	16	8	12	10	5.7	
Jacksonville	43	101	129	29.97	30.02	— .02	73.8	+ 6.2	89	26	82	49	4	66	26	66	64	79	2.93	+ 0.2	11	7,019	sw.	51	sw.	30	8	16	6	5.3	
Florida Peninsula.							77.5	+ 4.7										80	1.04	— 0.7										3.0	
Jupiter	28	10	48	29.99	30.02	— .02	76.4	+ 4.2	90	23	83	65	11	70	22	72	70	82	0.99	— 1.6	5	7,860	se.	36	w.	30	11	17	2	4.5	
Key West	22	10	53	29.99	30.01	— .01	79.8	+ 4.3	89	25	85	70	3	75	15	73	70	77	0.18	— 1.1	2	6,292	e.	35	w.	30	24	6	0	2.4	
Sand Key	25	41	71	29.98	30.01	— .01	78.4	...	88	23	81	70	28	76	13	...	...	...	0.92	— 0.4	4	8,405	e.	35	w.	30	22	6	2	2.8	
Tampa	35	79	96	29.99	30.03	— .03	76.4	+ 5.8	89	14	85	59	4	68	23	69	67	80	2.07	+ 0.2	7	5,760	w.	34	nw.	28	22	5	3	2.4	
East Gulf States.							68.9	+ 4.3										76	5.26	+ 1.2										5.8	
Atlanta	1,174	190	216	28.78	30.01	— .02	64.0	+ 2.9	85	10	73	37	3	55	31	58	54	77	7.36	+ 3.7	10	9,250	nw.	46	nw.	30	9	10	11	5.6	
Macon	370	55	66	29.61	30.00	— .03	68.1	+ 5.0	90	10	78	40	4	58	29	...	...	...	9.26	+ 5.9	10	3,942	sw.	25	s.	14	9	9	12	5.7	
Thomasville	278	8	58	29.72	30.02	— .01	71.4	+ 4.7	91	9	82	40	4	61	34	64	61	78	4.62	+ 1.0	9	4,123	sw.	27	nw.	27	11	11	8	5.2	
Pensacola	56	79	96	29.95	30.01	— .01	72.2	+ 4.5	87	19	79	52	30	66	23	...	...	...	2.32	— 0.8	10	7,732	s.	42	nw.	27	8	12	10	5.6	
Anniston	741	9	58	29.24	30.03	.00	65.1	+ 4.7	85	26	76	32	4	54	38	...	...	...	3.42	— 0.2	10	4,580	se.	36	s.	24	7	5	18	7.1	
Birmingham	700	11	48	29.26	30.01	— .01	66.0	+ 2.5	84	26	76	40	3	56	28	58	54	72	4.05	+ 0.4	8	5,075	s.	33	s.	29	5	14	11	6.3	
Mobile	57	98	106	29.94	30.00	— .02	71.8	+ 5.8	88	19	79	50	30	64	27	65	62	78	6.42	+ 2.1	13	6,096	s.	33	s.	24	9	15	6	5.2	
Montgomery	223	100	112	29.76	30.01	— .02	68.8	+ 3.6	88	9	79	41	4	59	28	60	56	70	10.96	+ 6.7	13	4,914	sw.	35	sw.	24	4	16	10	6.6	
Meridian	375	84	93	29.59	29.99	— .03	67.6	+ 3.5	87	9	78	42	4	58	30	61	57	74	3.46	— 1.6	12	4,081	sw.	26	w.	29	7	12	11	5.8	
Vicksburg	247	62	74	29.72	30.00	.00	69.2	+ 4.0	86	23	78	45	30	60	33	62	59	76	4.66	— 0.5	12	5,054	s.	31	nw.	26	8	9	13	5.6	
New Orleans	51	88	121	29.94	29.99	— .01	73.8	+ 5.9	89	18	82	51	30	66	25	67	64	79	1.34	— 3.6	5	6,571	se.	30	nw.	30	10	13	7	5.0	
West Gulf States.							67.0	+ 1.5										77	5.00	+ 1.4										5.6	
Shreveport	249	77	84	29.70	29.97	.00	69.0	+ 3.2	87	7	79	42	30	59	29	62	58	74	3.91	— 0.7	12	5,499	se.	36	w.	23	10	10	10	5.5	
Bentonville	1,303	11	44	28.58	29.95	— .01	57.8	+ 0.9	81	22	68	30	30	48	34	...	...	...	8.22	+ 4.3	18	4,623	s.	28	sw.	24	8	11	11	6.5	
Fort Smith	457	79	94	29.46	29.94	— .02	62.0	+ 0.3	84	25	71	36	30	53	35	56	52	76	6.71	+ 2.8	19	5,793	e.	42	sw.	24	8	7	15	6.4	
Little Rock	357	139	147	29.60	29.98	.00	63.8	+ 1.1	84	7	73	37	2	55	31	57	53	73	4.32	— 0.2	13	6,359	s.	49	sw.	24	8	11	11	5.6	T.
Corpus Christi	20	48	53	29.91	29.92	— .03	73.6	+ 2.7	89	24	80	48	30	68	24	68	66	80	4.40	+ 2.6	8	9,229	se.	42	e.	21	7	18	5	4.9	
Fort Worth	670	106	114	29.23	29.94	.00	64.4	— 0.9	87	6	73	38	30	56	32	...	...	...	9.63	+ 7.0	15	7,198	s.	37	nw.	26	10	10	10	5.4	
Galveston	54	106	112	29.92	29.98	+ .01	72.9	+ 4.2	84	24	78	49	30	68	25	69	67	84	1.44	— 1.7	6	9,259	se.	40	nw.	29	8	18	4	4.9	
Palestine	510	73	79	29.42	29.94	— .02	68.0	+ 2.1	86	7	77	42	3	59	29	62	59	80	5.17	+ 1.1	14	3,300	s.	20	sw.	1	5	12	13	6.5	
San Antonio	701	80	91	29.19	29.91	— .02	70.2	+ 1.2	92	25	80	40	30	60	34	63	59	74	2.87	— 0.1	7	5,202	se.	34	s.	11	9	15	6	4.8	
Taylor	583	55	63	29.33	29.94	— .01	68.0	+ 0.5	89	25	78	37	30	58	33	...	...	...	3.36	— 0.6	9	6,957	s.	34	n.	29	9	11	10	5.1	
Ohio Val. and Tenn.							56.7	+ 1.7										67	4.43	+ 0.3										5.8	
Chattanooga	762	106	112	29.21	30.02	— .01	63.8	+ 3.8	84	10	74	34	4	54	31	55	48	63	5.17	+ 0.8	11	4,993	sw.	28	nw.	30	8	9	13	6.0	
Knoxville	1,004	93	100	28.94	30.00	— .03	62.0	+ 4.6	84	26	73	32	4	51	37	53	46	63	3.02	— 1.6	11	4,020	sw.	25	w.	25	6	9	15	6.8	
Memphis	399	76	97	29.58	30.00	.00	64.0	+ 2.2	85	26	73	38	3	55	36	58	55	77	5.75	+ 0.9	13	6,612	sw.	61	w.	26	8	8	14	6.5	
Nashville	546	79	91	29.43	30.02	+ .01	61.2	+ 2.1	84	26	72	33	4	51	33	54	47	65	4.43	+ 0.1	13	4,817	sw.	38	s.	26	7	8	15	6.5	
Lexington	989	75	102	28.93	30.00	— .02	54.7	+ 1.0	81	26	64	26	3	45	33	...	...	...	4.99	+ 1.6	14	8,511	sw.	40	nw.	1	14	8	8	4.6	2.5
Louisville	525	111	132	29.42	30.00	— .01	56.8	+ 0.6	85	26	67	29	3	46	35	50	43	66	6.06	+ 2.0	16	6,767	sw.	36	sw.	8	8	8	14	6.2	0.4
Evansville	431	72	82	29.50	29.97	— .03	57.0	+ 0.6	82	20	66	30	3	48	35	...	...	...	4.83	+ 1.4	16	6,038	s.	42	sw.	8	5	17	8	5.7	
Indianapolis	822	154	164	29.08	29.97	— .03	52.2	— 0.2	76	22	61	25	3	43	32	47	42	71	3.86	+ 0.4	15	8,638	sw.	48	s.	24	10	5	15	6.2	
Cincinnati	628	152	160	29.31	29.99	— .02	55.0	+ 0.7	83	26	65	28	3	45	34	48	41	64	4.07	+ 1.1	14	5,612	sw.	29	w.	27	10	7	13	5.7	1.5
Columbus	824	173	224	29.10	29.98	— .04	51.7	+ 0.7	80	26	62	25	3	42	36	45	39	67	2.75	— 0.1	12	10,099	nw.	44	nw.	2	10	10	10	5.4	2.4
Pittsburg	842	336	352	29.05	29.96	— .06	51.4	+ 0.4	85	24	62	23	3	41	33	44	38	63	3.59	+ 0.7	10	8,576	nw.	49	w.	20	7	11	12	5.8	0.6
Parkersburg	638	77	84	29.33	29.99	— .04	54.7	+ 1.7	86	24	66	27	3	44	41	48	42	66	4.07	+ 1.2	12	5,385	nw.	36	nw.	2	15	7	8	4.8	T.
Elkins	1,940	41	50	27.93	29.99	— .04	52.1	+ 3.4	86	24	64	23	3	40	48	46	41	70	4.95	+ 1.7	13	4,043	w.	28	w.	20	12	10	8	5.3	0.3
Lower Lake Region.							44.4	— 0.3										70	3.11	+ 0.8										6.0	
Buffalo	767	178	206	29.09	29.93	— .08	40.8	— 1.5	73	24	49	21	4	33	35	37	33	75	3.60	+ 1.2	16	12,137	sw.	55	w.	11	7	12	11	6.0	4.6
Canton	448	10	71	29.42	29.91	.....	39.2	— 3.3	79	27	48	12	4	30	36	...	...	...	2.59	+ 0.3	19	11,354	sw.	55	w.	2	7	12	11	6.3	2.1
Oswego	335	76	91	29.54	29.92	— .09	41.7	— 1.5	74	27	50	18	4	33	34	37	32	72	3.90	+ 1.6	18	9,720	s.	40	s.	2	5	11	14	6.1	0.7
Rochester	523	81	102	29.86	29.94	— .07	44.2	+ 0.3	76	27	53	20	4	35	38	37	31	66	2.38	— 0.1	15	8,343	w.	46	w.	11	7	9	14	6.3	6.3
Syracuse	597	97	113	29.28	29.93	— .08	43.0	— 1.4	78	27	52	17	4	34	34	...	...	...	3.33	+ 1.0	19	11,012	nw.	54	w.	11	6	8	16	6.6	4.7
Erie	718	92	102	29.16	29.94	— .08	45.5	+ 0.8	78	24	54	24	4	36	36	39	33	66	3.99	+ 1.6	14	9,387	w.	41	w.	2	9	8	13	5.8	0.3
Cleveland	762	190	201	29.13	29.96	— .06	47.2	+ 1.2	79	24	56	24	3	39	37	42	36	67	3.00	+ 0.7	14	12,425	s.	54	w.	20	9	8	13	5.9	2.4
Sandusky	629	62	70	29.25	29.94	— .08	48.3	+ 1.0	78	24	56	26	3	40	37	...	...	...	2.83	+ 0.3	14	7,546	sw.	34	nw.	11	13	8	14	5.3	0.2
Toledo	628	207	246	29.26	29.95	— .06	48.4	+ 1.1	79	23	57	25	3	40	35	43	38	69	3.07	+ 0.8	14	12,868	sw.	60	sw.	25	10	9	11	5.3	0.1
Detroit	730	218	258	29.15	29.95	— .07	45.4	— 0.1	78	22	55	22	3	36	34	41	37	75	2.44	+ 0.1	13	11,215	sw.	54	w.	11	7	6	17	6.6	0.1
Upper Lake Region.							41.6	+ 1.2										72	2.94	+ 0.6										5.9	
Alpena	609	13	92	29.24	29.91	— .09	39.6	+ 1.6	78	14	49	11	4	31	44	34	29	71	1.77	— 0.4	15	10,077	nw.	48	nw.	11	8	13	9	5.8	3.8

TABLE I.—*Climatological data for U. S. Weather Bureau stations, April, 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 in miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.					
Up. Lake Reg—Cont.																															
Escanaba	612	40	82	29.24	29.92	— .10	38.7	+ 1.5	73	22	47	15	3	30	41	34	29	74	2.98	+ 0.9	13	8,379	s.	56	e.	27	6	12	12	6.3	4.5
Grand Haven	632	54	92	29.23	29.92	— .09	43.4	— 0.7	74	24	52	21	2	35	30	39	34	74	4.14	+ 1.7	14	10,956	w.	44	w.	2	10	12	8	5.5	0.1
Grand Rapids	707	121	162	29.16	29.93	— .09	45.2	— 1.0	79	23	55	21	2	35	35	40	35	70	4.87	+ 2.4	14	10,863	sw.	48	sw.	12	7	11	12	6.2	0.1
Houghton	668	66	74	29.15	29.89	— .13	37.9	+ 1.0	81	14	46	9	3	29	39	....	....	....	2.94	+ 0.9	16	6,405	e.	32	nw.	10	9	12	9	5.6	8.5
Marquette	784	77	116	29.10	29.91	— .11	38.5	+ 1.0	79	14	46	12	3	31	39	33	27	67	3.13	+ 1.1	17	8,558	nw.	48	sw.	14	6	14	10	5.8	9.5
Port Huron	638	70	120	29.23	29.93	— .09	43.2	+ 1.0	79	22	52	21	4	34	37	39	34	71	1.79	— 0.3	14	10,133	sw.	49	sw.	27	7	6	17	6.9	T.
Sault Sainte Marie	614	40	61	29.21	29.92	— .11	35.4	— 0.3	66	14	44	5	4	27	35	31	27	77	2.31	+ 0.2	16	7,978	nw.	47	w.	11	8	7	15	6.7	3.6
Chicago	823	140	310	29.04	29.94	— .06	49.0	+ 3.1	76	22	57	24	2	41	29	43	39	74	2.81	— 0.1	14	12,454	sw.	52	w.	25	8	8	14	5.6	T.
Milwaukee	681	122	189	29.20	29.94	— .05	45.2	+ 3.4	80	22	53	21	2	37	34	40	35	75	3.61	+ 0.9	11	9,585	w.	44	ne.	15	14	8	8	4.4	
Green Bay	617	49	86	29.21	29.88	— .13	43.8	+ 3.1	83	22	53	18	2	34	34	38	32	68	2.84	+ 0.4	13	9,973	sw.	52	ne.	15	7	11	12	6.1	4.7
Duluth	1,133	11	47	28.65	29.89	— .12	38.8	+ 0.4	82	14	48	10	2	29	47	33	26	67	2.07	— 0.1	8	11,708	ne.	55	nw.	10	9	13	8	5.5	7.0
North Dakota.							43.8	+ 3.2										66	1.37	— 0.5										5.0	
Moorhead	940	8	57	28.88	29.90	— .09	44.8	+ 3.4	90	21	58	6	2	32	50	38	33	72	1.20	— 1.1	5	8,523	nw.	36	nw.	1	13	5	12	5.1	6.0
Bismarck	1,674	8	57	28.14	29.94	— .03	45.4	+ 2.8	89	13	60	0	2	31	49	38	30	63	1.78	— 0.2	11	10,588	nw.	49	nw.	25	11	11	8	5.2	4.8
Devils Lake	1,482	11	44	28.29	29.89	— .10	41.4	+ 3.2	85	21	55	— 4	2	28	43	35	29	67	0.60	— 1.4	5	11,078	nw.	47	nw.	9	14	8	8	4.6	7.0
Williston	1,875	14	56	27.92	29.92	— .04	43.8	+ 3.3	90	20	57	— 4	1	31	43	36	28	62	1.96	+ 0.7	5	10,216	nw.	50	w.	25	12	10	8	5.1	4.3
Upper Miss. Valley.							51.3	+ 0.8										67	3.50	+ 0.5										5.2	
Minneapolis	.....	102	208	.....	.....	.....	46.7	.....	81	14	57	16	2	37	37	....	....	...	4.07	+ 1.6	10	11,014	se.	48	w.	1	13	6	11	4.6	11.7
St. Paul	837	171	179	28.98	29.89	— .10	47.4	+ 1.7	80	14	57	16	2	37	37	40	32	61	4.23	+ 1.9	9	9,599	nw.	44	nw.	1	15	8	7	4.1	12.0
La Crosse	714	10	49	29.13	29.90	— .08	48.0	+ 0.7	83	22	59	18	2	38	39	....	....	....	2.99	+ 0.7	13	5,468	se.	24	sw.	12	10	9	11	5.3	T.
Madison	974	70	78	28.86	29.92	— .07	46.0	+ 1.5	78	22	56	18	2	36	34	40	34	69	4.41	+ 2.0	11	9,226	sw.	48	n.	15	10	11	9	5.0	T.
Charles City	1,015	3	49	28.84	29.92	— .06	47.4	+ 1.1	79	19	59	16	2	36	37	42	37	72	2.00	— 0.8	7	6,848	nw.	32	sw.	12	10	11	9	5.4	T.
Davenport	606	71	79	29.27	29.94	— .04	50.4	+ 0.2	78	19	60	20	2	40	32	44	38	67	2.22	— 0.7	9	6,985	nw.	30	w.	25	11	10	9	5.1	
Des Moines	861	84	101	29.01	29.92	— .05	51.8	+ 1.2	84	19	63	18	2	41	37	45	38	65	2.69	— 0.3	8	7,388	nw.	33	sw.	12	9	14	7	5.3	T.
Dubuque	698	100	117	29.19	29.95	— .03	48.8	— 0.1	79	14	59	19	2	39	35	42	36	65	2.50	— 0.4	12	5,846	nw.	30	nw.	1	12	9	9	4.5	0.1
Keokuk	614	64	77	29.28	29.95	— .03	53.7	+ 1.7	80	19	64	24	2	43	34	46	40	68	1.82	— 1.5	9	6,629	nw.	35	sw.	24	12	12	6	4.2	T.
Cairo	356	87	93	29.61	30.00	+ .01	59.2	+ 0.9	81	22	68	33	3	50	35	52	47	70	6.63	+ 3.1	15	7,314	s.	36	sw.	26	5	12	13	6.6	
La Salle	536	56	64	29.38	29.96	— .03	50.7	+ 0.9	79	22	61	24	2	40	34	....	....	....	2.89	— 0.2	12	7,919	w.	36	s.	25	10	7	13	5.5	T.
Peoria	609	11	45	29.29	29.96	— .03	51.0	+ 0.1	79	22	62	22	3	40	35	45	39	69	4.08	+ 0.8	14	7,946	nw.	44	s.	24	12	10	8	4.2	T.
Springfield, Ill	644	10	92	29.27	29.95	— .03	53.1	+ 1.1	79	23	63	26	3	43	32	46	40	66	4.48	+ 1.2	14	7,572	sw.	37	s.	24	13	1	16	5.8	T.
Hannibal	584	75	109	29.37	29.94	— .04	54.0	+ 0.4	79	20	64	24	3	44	40	....	....	....	3.64	+ 0.4	14	7,828	sw.	46	sw.	24	11	3	16	6.0	
St. Louis	567	208	217	29.34	29.95	— .03	56.1	0.0	82	23	65	29	2	47	31	49	42	65	3.84	+ 0.3	16	7,940	se.	42	w.	24	9	6	15	6.1	
Missouri Valley.							52.9	+ 2.4										62	2.68	— 0.2										5.1	
Columbia, Mo	784	11	84	29.13	29.96	— .02	54.9	+ 0.6	83	20	66	24	3	44	38	....	....	....	4.26	+ 0.6	11	6,197	nw.	35	s.	23	8	7	15	6.0	
Kansas City	963	116	181	28.92	29.96	.00	55.9	+ 1.6	82	20	65	24	2	47	36	48	42	66	2.13	— 1.2	11	10,384	s.	44	n.	1	10	12	8	5.4	
Springfield, Mo	1,324	98	104	28.56	29.96	— .01	55.4	— 0.3	82	22	64	28	2	46	36	50	47	78	7.75	+ 3.9	13	7,734	se.	40	e.	23	9	8	13	5.9	
Iola	984	11	50	28.92	29.97	+ .02	56.3	+ 2.1	81	22	66	27	2	46	35	....	....	....	5.95	+ 3.2	10	6,249	s.	35	nw.	24	0	18	12	7.4	
Topeka	.....	85	89	.....	.....	.....	55.9	+ 2.2	83	20	67	22	2	45	38	....	....	....	2.05	— 0.7	9	7,361	s.	38	nw.	1	12	12	6	4.8	
Lincoln	1,189	11	84	28.66	29.93	— .01	54.2	+ 3.5	85	19	67	17	2	42	38	44	36	58	1.28	— 1.5	9	9,767	s.	48	nw.	24	12	13	5	4.4	T.
Omaha	1,105	115	121	28.75	29.94	— .01	53.4	+ 2.9	86	19	64	16	2	42	39	45	36	59	1.09	— 1.9	5	8,080	nw.	37	n.	1	9	10	11	5.7	T.
Valentine	2,598	47	54	27.22	29.95	+ .01	48.4	+ 3.0	89	13	68	6	2	34	47	38	28	58	0.96	— 1.4	6	10,141	nw.	51	nw.	26	16	10	4	3.6	2.9
Sioux City	1,135	96	164	28.72	29.94	— .01	51.0	+ 2.5	86	19	62	14	2	40	40	....	....	....	1.64	— 1.1	5	12,451	nw.	50	nw.	25	15	5	10	4.3	0.5
Pierre	1,572	70	75	28.26	29.93	— .02	50.8	+ 4.8	90	13	64	12	1	38	47	40	29	51	1.41	— 0.6	5	9,922	nw.	51	nw.	14	16	5	9	4.4	3.2
Huron	1,306	56	67	28.53	29.94	— .02	47.4	+ 2.8	90	13	61	11	2	34	49	39	31	62	1.45	— 1.2	5	10,375	nw.	46	nw.	24	15	5	10	4.4	3.9
Yankton	1,233	49	57	28.61	29.93	— .02	51.0	+ 3.6	88	13	63	14	2	39	43	....	....	....	2.14	— 0.7	5	8,725	nw.	35	nw.	1	16	3	11	4.8	T.
Northern Slope.							46.0	+ 3.3										58	0.73	— 0.8										4.2	
Havre	2,505	11	44	27.29	29.93	.00	47.1	+ 4.4	84	20	60	— 4	1	34	40	40	32	62	0.28	— 0.7	5	8,380	nw.	36	nw.	4	14	4	2	3.8	0.1
Miles City	2,371	26	48	27.42	29.98	+ .02	48.9	+ 4.2	91	20	63	2	1	35	46	40	33	62	0.91	— 0.3	6	5,987	s.	36	w.	24	12	15	3	3.9	1.5
Helena	4,110	8	56	25.78	29.99	+ .02	46.9	+ 4.9	82	19	59	10	1	35	41	37	26	50	0.52	— 0.6	6	6,173	w.	38	sw.	25	13	6	11	5.3	2.5
Kalispell	2,962	8	34	26.92	29.99	+ .03	45.4	+ 2.9	74	19	58	22	7	33	44	37	29	61	0.71	— 0.4	8	4,564	sw.	29	w.	24	11	14	5	4.9	0.9
Rapid City	3,234	46	50	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Cheyenne	6,088	56	64	23.95	29.93	+ .02	44.2	+ 2.6	75	13	58	7	2	30	43	34	21	46	0.36	— 1.5	6	8,544	nw.	50	nw.	24	9	16	5	4.5	2.6
Lander	5,372	26	36	24.60	29.96	+ .02	45.5	+ 3.3	77	20	61	8	1	30	45	36	27	56	1.57	— 0.9	5	3,313	sw.	42	s.	22	16	6	8	3.9	13.4
Sheridan	3,790	9	47	26.05	29.96	.....	46.2	.....	84	20	61	3	1	31	53	37	27	56	1.06	.....	6	6,686	nw.	50	nw.	24	14	10	6	4.2	1.7
Yellowstone Park	6,200	11	48	23.84	30.00	+ .04	39.4	+ 2.7	71	19	52	2	2	27	44	32	24	59	0.88	— 0.5	9	5,930	sw.	34	sw.	15	9	12	9	4.8	6.9
North Platte	2,821	11	51	27.03	29.96	+ .04	50.7	+ 1.7	86	14	66	14	1	35	51	41	32	60	0.64	— 1.5	4	7,789	n.	47	nw.	24	17	5	8	4.0	T.
Middle Slope.							54.6	+ 0.9										59	1.86	— 0.4										5.2	
Denver	5,291	129	136	24.67	29.92	+ .02	50.4	+ 2.7	78	14	64	21	2	37	42	38	26	46	0.39	— 1.8	6	5,789	s.	40	n.	25	13	16	1	4.0	3.5
Leadville	10,243	7	....	.....	.....	.....	32.7	.....	57	13	44	4	26	21	33	....	....	....	1.41	.....	10	.....	nw.	....	.....	.....	.....	.....	.....	.....	16.9
Pueblo	4,685	30	36	25.23	29.91	+ .03	51.6	+ 1.1	81	14	66	20	3	37	47	39	24	40	0.05	— 1.4	4	5,962	se.	40	nw.	23	14	15	1	3.5	T.
Concordia	1,398	42	50	28.43	29.96	+ .03	55.2	+ 1.6	85	19	67	20	2	43	44	46	39	63	0.36	— 1.6	8	6,336	s.	32	nw.	24	4	18	8	6.1	
Dodge	2,509	44	54	27.34	29.94	+ .04	55.0	+ 0.6	87	22	68	20	2	42	45	46	39	62	1.35	— 0.5	5	8,076	se.	48	w.	24	11	15	4	4.6	
Wichita	1,358	90	120	28.54	29.97	+ .04	56.6	0.0	85	6	67	26	2	46	35	50	44	63	1.77	— 0.9	8	9,141	s.	46	nw.	24	1	18	11	6.5	
Oklahoma	1,214	10	47	28.66	29.94	+ .02	59.1	— 0.5	84	6	69	34	3	50	34	53	49	76	6.73	+ 3.9	17	11,408	s.	50	nw.	24	5	15	10	6.3	T.
Southern Slope.							61.6	— 0.8										63	3.18	+ 1.3										5.1	
Abilene	1,738	45	54	28.14	29.94	+ .04	62.6	— 1.8	86	6	72	36	2	53	32	55	50	71	6.72	+ 4.4	13	6,430	s.	29	e.	18	7	9	14	6.3	
Amarillo	3,676	10	49	26.21	29.91	+ .04	55.8	+ 1.2	80	14	69	29	2	43	38	46	39	63	1.90	+ 0.2	5	9,093	s.	60	n.	25	20	9	1	3.5	
Del Rio	944	8	57	28.92	29.90	+ .01	69.0	— 1.0	94	7	80	38	30	58	43	....	....	....	2.82	— 0.1	12	5,924	se.	44	nw.	29	11	6	13	5.6	
Roswell	3,578	9	57	26.31	29.91	+ .06	58.9	— 1.7	87	14	74	34	30	44	48	47	38	56	1.29	+ 0.8	7	5,070	s.	40	ne.	28	10	11	9	5.1	
Southern Plateau.							58.0	+ 0.1										42	0.96	+ 0.2										2.7	
El Paso	3,762	110	133	26.14	29.86	+ .03	62.4	— 1.4	84	28	75	43	3	50	36	47	30	38	0.88	+ 0.6	7	9,452	w.	54	ne.	26	14	11	5	3.8	
Santa Fe	7,013	33	39	23.19	29.87	+ .03	46.6	— 1.0	68	30	59	24	26	34	37	38	29	57	1.85	+ 1.0	10	7,413	n.	38	w.	28	14	13	3	3.7	5.9
Flagstaff	6,907	8	57	23.31	29.88	+ .04	42.8	+ 0.6	72	30	58	16	2	27	47	34	26	61	1.10	— 0.5	6	6,195	sw.	37	sw.	7	17	8	5	3.4	4.5
Phoenix	1,108	50	56	28.72	29.87	.00	67.6	+ 1.0	92	28	83	44	9	52	39	50	30	30	0.90	+ 0.5	1	3,409	e.	21	w.	21	23	6	1	1.8	
Yuma	141	9	58	29.72	29.87	— .02	71.1	+ 1.0	99	28	88	41	3	54	47	53	36	35	0.05	0.0	1	5,328	sw.	30	w.	7	29	0	1	0.7	
Independence	3,910	11	42	25.95	29.92	+ .02	57.2	+ 0.5	82	19	73	31	3	42	39	43	25	33	T.	— 0.7	0	6,612	nw.	36	n.	7	20	6	4	2.9	
Middle Plateau.							49.5	+ 1.8										46	0.76	— 0.5										3.3	
Reno	4,532	56	63	25.48	30.00	+ .03	49.4	+ 2.1	78	11	65	19	1	34	45	38	27	50	0.11	— 0.5	3	4,932	w.	25	w.	22	19	6	5	3.1	T.
Tonopah	6,089	12	20	24.05	29.99	.....	49.2	+ 5.7	71	12	61	18	1	38	33	36	19	34	0.38	— 1.3	1	7,131	nw.	40	nw.	6	20	9	1	2.4	2.0
Winnemucca	4,344	18	56	25.62	30.02	+ .06	48.1	+ 1.0	81	19	65	12	1	31	48	38	27	52	0.87	0.0	3	4,738	sw.	29	sw.	23	19	8	3	2.7	
Modena	5,479	10	43	24.58	29.92	+ .04	47.2	+ 0.3	75	30	63	18	2	31	46	39	32	60	0.76	— 0.9	3	9,044	w.	50	sw.	6	15	8	7	4.1	1.6
Salt Lake City	4,366	105	110	25.58	29.94	+ .02	52.4	+ 2.3	78	12	64	25	1	41	34	41	28	41	0.80	— 1.5	5	5,798	nw.	38	n.	27	23	3	4	2.6	1.0
Durango	6,546	18	56	23.60	29.89	+ .04	46.5	+ 0.1	73	30	61	22	26	32	44	36	25	51	1.90	+ 0.8	13	5,142	nw.	32	w.	28	10	17	3	4.5	0.5
Grand Junction	4,608	43	51	25.33	29.90	+ .02	54.0	+ 0.8	80	14	67	27	2	40	38	40	25	37	0.48	— 0.2	5	4,632	nw.	40	sw.	22	16	9	5	3.7	T.
Northern Plateau.							50.3	+ 1.8										50	0.60	— 0.8										3.9	
Baker City	3,471	48	58	26.46	30.02	+ .06	46.8	+ 3.3	78	19	60	23	7	34	39	40	33	61	0.93	0.0	5	5,388	nw.	29	n.	3	13	11	6	4.3	2.5
Boise	2,739	78	86	27.18	30.04	+ .06	51.8	+ 1.7	84	19	64	26	1	39	37	41	28	45	0.28	— 0.9	5	4,964	nw.	33	se.	19	16	4	10	4.3	T.
Lewiston	757	10	51	29.25	30.07	+ .08	53.2	+ 0.3	87	19	66	27	7	41	40	....	....	....	0.96	— 0.2	11	4,698	e.	56	w.	24	9	12	9	5.0	T.
Pocatello	4,477	46	54	25.46	29.98	+ .04	50.0	+ 3.2	78	12	63	23	2	37	38	38	24	43	0.53	— 1.5	6	6,853	se.	37	sw.	27	20	9	1	2.5	0.4
Spokane	1,929	101	110	27.98	30.05	+ .06	48.8	+ 1.1	81	19	60	23	7	37	37	40	30	55	0.54	— 0.8	7	5,629	s.	39	sw.	24	17	11	2	3.5	T.
Walla Walla	1,000	71	79	28.99	30.07	+ .06	54.2	+ 1.4	80	30	65	31	7	43	36	44	32	48	0.38	— 1.3	8	4,877	s.	35	sw.	16	15	10	5	3.9	
N. Pac. Coast Reg.							48.4	0.0										77	2.90	— 0.4										5.8	
Blaine	57	4	....	.....	.....	.....	47.4	.....	79	30	56	29	14	39	32	....	....	....	1.54	.....	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
North Head	211	11	56	29.90	30.14	+ .09	47.2	— 0.3	72	29	51	38	6	43	22	45	42	85	3.34	+ 0.1	17	12,252	nw.	85	se.	16	8	11	11	6.2	
Port Crescent	259	12	29	29.83	30.12	+ .10	43.0	— 1.7	65	30	51	28	14	35	28	....	....	....	3.47	+ 1.0	14	3,974	w.	16	sw.	24	3	14	13	6.7	T.
Seattle	123	185	224	30.00	30.14	+ .11	49.0	— 0.4	79	30	57	35	7	42	31	46	44	84	2.19	— 0.5	10	6,733	s.	42	s.	24	6	14	10	5.9	
Tacoma	213	113	120	29.87	30.11	+ .08	49.0	+ 0.1	82	30	58	32	7	40	35	44	39	72	3.00	+ 0.2	13	4,861	sw.	31	sw.	24	14	10	6	4.1	T.

TABLE I.—*Climatological data for U. S. Weather Bureau stations, April, 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	30.00	30.10	+ .10	46.2	+ 0.1	66	30	51	36	5	42	20	43	40	79	4.49	− 1.8	17	11,031	sw.	60	s.	17	2	8	20	7.9	
Portland, Oreg.	153	68	106	29.96	30.11	+ .05	52.8	+ 1.6	82	30	62	34	7	43	33	46	40	66	3.38	+ 0.3	13	5,054	nw.	27	sw.	28	11	11	8	4.8	
Roseburg	510	9	57	29.56	30.12	+ .05	51.8	+ 0.9	85	29	65	27	4	38	48	47	43	76	0.44	− 2.0	8	2,853	nw.	20	sw.	19	15	6	9	4.7	
Mid. Pac. Coast Reg.							57.4	+ 2.0										64	0.31	− 1.9										3.5	
Eureka	62	62	80	30.06	30.12	+ .01	49.7	+ 0.2	65	18	55	35	1	45	19	47	44	83	0.85	− 3.1	7	7,185	n.	46	n.	27	17	6	7	4.2	
Mount Tamalpais	2,375	11	18	27.56	30.03	− .02	53.8	.....	81	11	61	36	22	47	24	45	37	60	0.59	− 1.4	6	12,357	n.	58	nw.	6	20	5	5	2.9	
Point Reyes Light	490	7	18	29.48	30.00	.....	51.5	.....	71	28	56	43	6	47	24	....	....	....	0.18	.....	5	15,112	nw.	80	nw.	6	15	5	10	4.3	
Red Bluff	332	50	56	29.63	29.99	− .04	63.0	+ 3.9	91	10	75	40	5	51	37	51	39	50	0.12	− 1.7	3	5,610	nw.	35	n.	7	17	4	9	3.8	
Sacramento	69	106	117	29.93	30.00	− .01	61.0	+ 3.0	87	11	73	42	6	49	34	52	44	59	0.08	− 1.9	3	7,233	s.	36	nw.	7	22	6	2	2.1	
San Francisco	155	200	204	29.87	30.04	− .01	56.4	+ 2.7	85	28	64	45	4	49	28	49	43	69	0.22	− 1.6	4	5,864	w.	29	sw.	11	17	10	3	3.4	
San Jose	141	78	88	29.88	30.03	.....	57.1	+ 0.4	88	11	71	33	1	43	43	....	....	....	0.23	− 1.6	4	4,754	nw.	30	nw.	6	20	7	3	2.7	
Southeast Farallon	30	9	17	30.01	30.04	.....	51.0	.....	59	17	54	44	7	49	9	....	....	....	0.10	− 1.8	2	12,154	nw.	59	nw.	6	16	5	9	4.6	
S. Pac. Coast Reg.							60.3	+ 2.5										65	0.45	− 0.6										2.5	
Fresno	330	67	70	29.63	29.98	− .01	64.1	+ 2.9	96	12	79	34	1	49	38	51	38	46	0.80	+ 0.1	2	4,148	w.	24	nw.	7	24	4	2	1.7	
Los Angeles	338	116	123	29.62	29.98	− .01	61.2	+ 3.6	90	26	72	44	5	51	32	53	48	71	0.52	− 0.6	1	3,937	w.	28	sw.	8	19	6	5	3.2	
San Diego	87	94	102	29.89	29.98	− .01	59.4	+ 1.2	83	26	65	46	2	54	24	54	50	74	0.35	− 0.4	1	4,258	w.	19	nw.	27	28	1	1	1.9	
San Luis Obispo	201	47	54	29.82	30.03	− .02	57.6	+ 2.4	89	27	70	34	7	45	43	50	44	69	0.14	− 1.3	4	3,933	n.	20	ne.	18	19	4	7	3.2	
West Indies.																															
Grand Turk	11	6	20	30.04	30.05	+ .04	79.4	.....	88	30	85	68	3	74	....	....	....	....	0.27	.....	6	.....	.....	...	.....	...	...	...	...	...	
San Juan	82	48	90	29.93	30.01	+ .03	77.0	.....	86	22	82	70	3	72	15	71	68	74	3.56	0.0	16	8,917	e.	30	e.	6	22	7	1	2.5	
Panama.																															
Christobal	74	....	....	29.85	29.87	.....	80.1	.....	87	25	83	74	27	77	11	75	73	81	1.27	.....	18	10,156	n.	32	ne.	8	7	21	2	4.7	
Bas Obispo	40	....	....	29.69	29.86	.....	80.3	.....	92	20	89	65	2	71	26	73	71	81	1.81	.....	10	4,244	nw.	20	nw.	5	0	14	16	7.3	
Ancon	.....	....	....	29.77	29.85	.....	82.8	.....	95	18	92	71	20	74	23	73	71	75	1.37	.....	4	6,242	nw.	26	n.	6	5	18	7	5.5	
Alhajuela	.....	....	....	.....	.....	.....	78.8	.....	95	25	88	60	16	70	26	....	....	....	4.61	.....	8	3,807	ne.	25	ne.	7	...	...	...	....	
Bohio	.....	....	....	.....	.....	.....	79.8	.....	92	25	88	65	2	71	26	....	....	....	2.16	.....	12	2,686	nw.	18	nw.	1	...	...	...	....	
Gatun	.....	....	....	.....	.....	.....	81.0	.....	92	25	88	68	2	74	20	....	....	....	1.47	.....	20	7,165	n.	28	n.	8	...	...	...	....	

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 April, 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.	Depths of precipitation (in inches) during periods of time indicated. 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.	17–18	8:30 p. m.	7:05 a. m.	2.31	10:00 p. m. 1:05 a. m.	10:25 p. m. 1:40 a. m.	0.04 0.81	0.23 0.06	0.46 0.27	0.55 0.35	0.59 0.36	0.41	0.51	0.57							
Albany, N. Y.	27–28			0.72														0.30			
Alpena, Mich.	27–28			0.37														0.13			
Amarillo, Tex.	15–16	10:20 p. m.	2:15 a. m.	0.66	10:25 p. m.	10:38 p. m.	0.02	0.10	0.32	0.46											
Anniston, Ala.	14–15			2.14														0.42			
Asheville, N. C.	24–25			2.07														0.65			
Atlanta, Ga.	24–25	6:45 p. m.	3:35 p. m.	3.66	11:14 p. m.	11:58 p. m.	0.33	0.25	0.34	0.91	1.16	1.40†	1.64†	1.88†	2.12†	2.35†					
Atlantic City, N. J.	2			0.20														0.18			
Augusta, Ga.	26–27	4:45 p. m.	9:45 a. m.	2.01	7:54 p. m.	8:25 p. m.	0.18	0.18	0.16	0.17	0.31	0.48	0.59	0.63							
Baltimore, Md.	8			0.28														0.16			
Bentonville, Ark.	23	8:45 a. m.	4:55 p. m.	2.38	1:11 p. m.	1:51 p. m.	0.21	0.08	0.14	0.40	1.04	1.59	1.76	1.81	1.88						
Binghamton, N. Y.	8			0.65														0.41			
Birmingham, Ala	24	1:40 p. m.	6:42 p. m.	1.74	4:35 p. m.	5:12 p. m.	0.14	0.10	0.30	0.52	0.85	1.00	1.04	1.20	1.24						
Bismarck, N. Dak.	23–24			1.01														*			
Block Island, R. I	2			0.44														0.21			
Boise, Idaho	21–22			0.10						0.07											
Boston, Mass.	8–9			0.39														0.20			
Buffalo, N. Y.	1–2			0.30														0.14			
Cairo, Ill.	9–10			2.01														0.61			
Canton, N. Y.	27–28			0.57														0.27			
Charles City, Iowa	7			0.91														*			
Charleston, S. C.	30	8:03 a. m.	11:20 a. m.	0.76	8:56 a. m.	9:07 a. m.	0.03	0.35	0.61	0.65											
Charlotte, N. C.	25			0.51														0.34			
Chattanooga, Tenn.	24	1:58 p. m.	9:10 p. m.	1.82	5:39 p. m.	6:39 p. m.	0.05	0.05	0.10	0.17	0.28	0.38	0.55	0.81	1.09	1.14	1.32	1.45			
Cheyenne, Wyo	30			0.16														*			
Chicago, Ill.	6–7			0.80														0.33			
Cincinnati, Ohio	7–8			0.96														0.35			
Cleveland, Ohio	8			0.58														0.24			
Columbia, Mo.	14–15			1.43														0.48			
Columbia, S. C.	26			0.60						0.42											
Columbus, Ohio	15			0.48														0.19			
Concord, N. H.	30			0.27														0.20			
Corpus Christi, Tex.	20–21	10:10 p. m.	2:15 a. m.	1.66	12:08 a. m.	1:08 a. m.	0.12	0.10	0.18	0.31	0.51	0.71	0.95	1.13	1.18	1.23	1.28	1.36			
Davenport, Iowa	23–24			0.73														0.33			
Del Rio, Tex.	11–12			2.03														0.38			
Denver, Colo	28			0.16														*			
Des Moines, Iowa	22–23	11:30 p. m.	6:05 a. m.	1.18	12:01 a. m.	12:11 a. m.	0.06	0.19	0.42												
Detroit, Mich.	26			0.39									0.30								
Dodge, Kans	20–21			0.94														*			
Dubuque, Iowa	23–24			0.99														0.64			
Duluth, Minn.	24–25			1.21														0.16			
Eastport, Me.	8–9			1.23														0.11			
Elkins, W. Va.	15–16	7:05 p. m.	8:10 a. m.	0.80	7:59 p. m.	8:19 p. m.	0.08	0.21	0.36	0.47	0.54										
Erie, Pa.	18			0.82														0.22			
Escanaba, Mich.	27			1.33														0.43			
Evansville, Ind	24			0.91														0.37			
Fort Smith, Ark.	23–24			0.51					0.35												
Fort Worth, Tex.	23			1.84												1.84*					
Galveston, Tex.	29			0.36					0.30												
Grand Haven, Mich.	23–24			1.16														0.43			
Grand Rapids, Mich	23–24			1.77														0.67			
Green Bay, Wis.	26–27			1.13														*			
Hannibal, Mo.	6			0.47														0.39			

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

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.
Harrisburg, Pa.	27			0.43					0.41												
Hartford, Conn.	8-9			1.06														0.46			
Hatteras, N. C.	28			0.64					0.35												
Huron, S. Dak.	23			0.56														0.16			
Indianapolis, Ind.	26	4:03 p. m.	5:31 p. m.	0.61	4:11 p. m.	4:39 p. m.	0.03	0.09	0.12	0.26	0.32	0.45	0.55								
Iola, Kans.	6	4:15 p. m.	5:30 p. m.	1.86	4:24 p. m.	5:12 p. m.	0.02	0.07	0.18	0.24	0.54	0.95	1.18	1.43	1.52	1.64	1.72				
Do	6-7	11:15 p. m.	7:15 a. m.	1.87	1:57 a. m.	3:21 a. m.	0.28	0.12	0.21	0.29	0.46	0.67	0.79	0.83	0.83	0.83	0.83	0.90	1.28	1.37	
Jacksonville, Fla.	30			0.94					0.46												
Jupiter, Fla.	22			0.60														0.41			
Kansas City, Mo.	22			0.80														0.26			
Keokuk, Iowa	22-23			0.56														0.24			
Key West, Fla.	30			0.06					0.06												
Knoxville, Tenn.	24-25			1.45														0.49			
La Crosse, Wis.	24			1.02														0.58			
La Salle, Ill.	23-24			1.09														0.35			
Lexington, Ky.	24			0.76														0.23			
Lincoln, Nebr.	22			0.52														0.50			
Little Rock, Ark.	17-18			0.34				0.25													
Los Angeles, Cal.	22			0.52														0.22			
Louisville, Ky.	14-15			1.52														0.41			
Lynchburg, Va.	8			0.30					0.30												
Macon, Ga.	26-27	4:23 p. m.	8:50 a. m.	3.55	5:35 p. m.	6:30 p. m.	0.27	0.17	0.33	0.52	0.67	0.86	0.93	1.00	1.05	1.16	1.29	1.34			
Madison, Wis.	23-24			1.93														0.40			
Marquette, Mich.	26-27			0.94														*			
Memphis, Tenn.	17-18	11:15 p. m.	8:10 a. m.	1.88	5:13 a. m.	5:46 a. m.	0.81	0.16	0.28	0.35	0.37	0.51	0.54	0.68							
Meridian, Miss.	24	10:44 a. m.	3:45 p. m.	0.85	12:45 p. m.	1:14 p. m.	0.03	0.05	0.21	0.49	0.66										
Milwaukee, Wis.	26-27			0.84														0.37			
Minneapolis, Minn.	24-25			1.52														0.36			
Mobile, Ala.	29	9:55 p. m.	D. N.	2.58	10:08 p. m.	10:40 p. m.	0.04	0.13	0.43	0.77	1.29	1.92	2.31	2.36							
Montgomery, Ala.	24-25	4:18 p. m.	D. N.	3.95	7:20 p. m.	8:10 p. m.	0.01	0.20	0.30	0.33	0.39	0.47	0.51	0.75	0.84	0.85	0.85				
					8:10 p. m.	9:00 p. m.		0.85	0.86	0.97	1.17	1.21	1.22	1.23	1.24	1.27	1.32				
					9:00 p. m.	9:50 p. m.		1.38	1.51	1.58	1.61	1.71	1.92	2.11	2.61	3.09	3.13				
					9:50 p. m.	10:40 p. m.		3.14	3.14	3.15	3.17	3.24	3.29	3.31	3.46	3.54	3.57				
					10:40 p. m.	11:02 p. m.		3.61	3.67	3.74	3.82	3.84									
Do	26-27	1:45 p. m.	D. N.	3.84	3:36 p. m.	5:33 p. m.	0.34	0.08	0.16	0.48	0.79	0.99	1.24	1.41	1.50	1.56	1.65	1.86	2.20	2.76	3.04
Mount Weather, Va.	15-16			0.40														*			
Nantucket, Mass.	30			0.82														0.42			
Nashville, Tenn.	24			1.28														0.50			
New Haven, Conn.	30			0.66														0.27			
New Orleans, La.	6	5:50 p. m.	6:30 p. m.	0.64	6:03 p. m.	6:22 p. m.	0.01	0.12	0.33	0.50	0.61										
New York, N. Y.	30			0.78														0.42			
Norfolk, Va.	11	12:30 a. m.	1:30 a. m.	1.18	12:47 a. m.	1:25 a. m.	0.03	0.10	0.21	0.36	0.57	0.60	0.70	1.04	1.15						
Northfield, Vt.	28			0.58														0.37			
North Head, Wash.	16-17			1.08														0.15			
Oklahoma, Okla.	17			1.40					0.31												
Omaha, Nebr.	23	7:25 p. m.	8:05 p. m.	0.55	7:30 p. m.	7:58 p. m.	0.01	0.05	0.19	0.39	0.44	0.50	0.53								
Palestine, Tex.	14	7:01 a. m.	8:15 a. m.	0.97	7:01 a. m.	7:47 a. m.	0.00	0.09	0.19	0.27	0.30	5.35	0.53	0.58	0.66	0.85	0.89				
Parkersburg, W. Va.	26-27			0.33				0.31													
Pensacola, Fla.	26-27			1.11														0.40			
Peoria, Ill.	23	3:35 p. m.	6:40 p. m.	0.59	6:03 p. m.	6:16 p. m.	0.20	0.16	0.33	0.37											
Philadelphia, Pa.	30			0.90														0.43			
Pittsburg, Pa.	8			0.97														0.37			
Portland, Me.	28			0.37														0.10			
Portland, Oreg.	22-23			0.86														0.30			
Pueblo, Colo.	28			0.02				0.01													
Raleigh, N. C.	30	9:42 a. m.	11:15 a. m.	0.53	10:32 a. m.	10:55 a. m.	0.05	0.07	0.09	0.09	0.24	0.46									
Richmond, Va.	8			0.33					0.32												
Rochester, N. Y.	8			0.25														0.11			
Sacramento, Cal.	21-22			0.05									0.01								
St. Louis, Mo.	23-24			1.14														0.35			
St. Paul, Minn.	24			1.59														0.28			
Salt Lake City, Utah	22-23			0.48														*			
San Antonio, Tex.	10-11	9:30 p. m.	2:30 p. m.	1.00	12:37 a. m.	12:51 a. m.	0.03	0.46	0.74	0.80											
San Diego, Cal.	22			0.35														0.20			
Sandusky, Ohio	7-8			0.63														0.22			
San Francisco, Cal.	21			0.10					0.02												
Savannah, Ga.	30			0.68														0.47			
Scranton, Pa.	27			0.68					0.44												
Seattle, Wash.	16-17			1.21														0.15			
Shreveport, La.	15	12:35 a. m.	5:00 a. m.	1.02	3:36 a. m.	3:55 a. m.	0.43	0.18	0.28	0.51	0.58										
Spokane, Wash.	15			0.17														0.12			
Springfield, Ill.	23-24			1.31														0.44			
Springfield, Mo.	7	12:45 a. m.	10:45 a. m.	1.52	6:11 a. m.	6:36 a. m.	0.25	0.05	0.17	0.30	0.63	0.81									
Syracuse, N. Y.	18			0.34														0.16			
Tampa, Fla.	28	5:45 a. m.	8:30 a. m.	1.27	6:13 a. m.	7:03 a. m.	0.05	0.06	0.29	0.34	0.36	0.39	0.45	0.66	0.97	1.11	1.17				
Taylor, Tex.	14			0.87														0.59			
Thomasville, Ga.	16			0.52						0.45											
Toledo, Ohio	15			0.81														0.22			
Topeka, Kans.	17			0.70														0.42			
Valentine, Nebr.	23			0.47														0.31			
Vicksburg, Miss.	24	2:53 a. m.	5:15 a. m.	0.99	3:35 a. m.	4:12 a. m.	0.17	0.28	0.35	0.45	0.52	0.58	0.60	0.66	0.72						
Washington, D. C.	8-9			0.51														0.24			
Wichita, Kans.	21			1.07														0.60			
Wilmington, N. C.	15-16			0.61														0.29			
Wytheville, Va.	25			0.46				0.25													
Yankton, S. Dak.	16-17			1.23														*			
San Juan, P. R.	28	4:50 p. m.	5:30 p. m.	0.64	4:50 p. m.	5:25 p. m.	T.	0.14	0.26	0.31	0.47	0.57	0.63								

* Self-register not working. † Estimated.

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

Stations.	Pressure.			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	29.56	29.70	—.19	32.4	— 2.1	38.2	26.7	6.20	+2.04	4.5
Sydney, C. B. I	29.72	29.76	—.13	33.1	— 1.9	40.5	25.7	6.35	+2.50	12.0
Halifax, N. S	29.69	29.80	—.16	36.4	— 0.4	44.5	28.3	6.38	+2.20	7.9
Grand Manan, N. B	29.73	29.78	—.16	38.0	— 1.2	45.9	30.0	3.86	+0.90	5.2
Yarmouth, N. S	29.76	29.83	—.13	38.1	— 0.8	44.3	31.8	5.61	+2.22	4.0
Charlottetown, P. E. I	29.70	29.74	—.16	33.0	— 2.2	39.5	26.6	4.69	+2.04	18.3
Chatham, N. B	29.71	29.73	—.17	35.1	— 0.4	45.2	25.0	2.75	+0.12	15.9
Father Point, Que	29.74	29.76	—.17	29.7	— 3.5	36.7	22.6	2.61	+1.03	7.6
Quebec, Que	29.49	29.82	—.17	31.5	— 3.6	39.8	23.2	2.46	+0.37	12.9
Montreal, Que	29.64	29.85	—.15	37.1	— 2.6	44.9	29.4	2.78	+0.54	8.7
Rockliffe, Ont	29.26	29.89	—.13	33.8	— 4.1	44.2	23.5	1.23	—0.33	9.9
Ottawa, Ont	29.58	29.90	—.12	36.6	— 3.4	44.5	28.8	1.72	+0.22	5.0
Kingston, Ont	29.61	29.93	—.09	38.8	— 1.2	46.4	31.3	1.70	—0.09	0.5
Toronto, Ont	29.54	29.93	—.09	41.8	+ 1.0	50.1	33.5	2.30	—0.07	5.3
White River, Ont	.....	.....	.....	30.0	— 3.0	.....	.....	2.80	+1.55	.....
Port Stanley, Ont	29.29	29.95	—.07	40.6	— 0.4	48.2	33.1	1.83	—0.54	1.9
Southampton, Ont	29.19	.....	.....	40.2	+ 1.5	49.0	31.4	2.52	+0.72	2.9
Parry Sound, Ont	29.19	29.89	—.13	37.5	— 0.1	46.8	28.1	1.76	—0.15	3.5
Port Arthur, Ont	29.17	29.89	—.14	35.2	+ 1.7	45.1	25.4	2.82	+1.10	5.5
Winnipeg, Man	29.06	29.90	—.12	40.0	+ 4.1	51.5	28.5	1.75	+0.70	5.3
Minnedosa, Man	28.06	29.90	—.11	39.3	+ 3.3	52.4	26.2	1.31	+0.25	6.5
Regina, Sask	27.89	.....	.....	39.9	+ 2.5	52.7	27.1	1.26	+0.21	1.6
Medicine Hat, Alberta	27.58	29.87	—.05	48.6	+ 4.1	62.4	34.9	0.05	—0.69	0.5
Swift Current, Sask	27.34	29.92	—.04	43.5	+ 2.2	57.3	29.7	0.54	—0.41	1.9
Calgary, Alberta	26.34	29.88	—.02	43.2	+ 3.6	57.9	28.4	0.87	+0.23	6.4
Banff, Alberta	25.30	29.92	+.02	38.2	+ 2.9	48.3	28.1	1.66	+0.58	6.2
Edmonton, Alberta	27.55	29.86	—.03	42.4	+ 2.5	54.3	30.4	0.57	—0.31	1.5
Prince Albert, Sask	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Battleford, Sask	28.13	29.88	—.09	39.4	+ 2.2	51.8	27.0	0.34	—0.13	T.
Kamloops, B. C	.....	.....	.....	48.8	— 0.1	59.8	37.8	0.26	—0.13	....
Victoria, B. C	29.99	30.09	+.08	48.5	+ 1.7	55.9	41.1	0.63	—1.74	....
Barkerville, B. C	25.59	29.95	+.09	31.9	— 1.2	39.3	24.5	2.99	+1.17	....
Hamilton, Bermuda	29.98	30.15	+.10	65.4	+ 1.5	70.6	60.2	4.32	+0.14	....
Dawson, Yukon	.....	.....	.....	.....	.....	.....	.....	.....	.....	....

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

Stations.	Distance to mouth of river.	Flood stage on gage.	Highest water.		Lowest water.		Mean stage.	Monthly range.
			Height.	Date.	Height.	Date.		
	Miles.	Feet.	Feet.		Feet.		Feet.	Feet.
Republican River.								
Clay Center, Kans	42	18	5.8	1,2	5.5	25-30	5.6	0.3
Smoky Hill-Kansas River.								
Abilene, Kans	254	22	1.9	20	0.0	12-14,16	0.4	1.9
Manhattan, Kans	160	18	4.1	20	2.9	6,13	3.3	1.2
Topeka, Kans	87	21	6.6	22	5.7	4-7,14-16,30	6.0	0.9
Missouri River.								
Townsend, Mont	2,504	11	5.9	22-25	4.2	1-4	5.1	1.7
Fort Benton, Mont	2,285	12	6.4	16	2.4	28-30	3.0	4.0
Wolfpoint, Mont. (3)	1,952	17	8.8	21	0.3	18,19	2.0	3.5
Bismarck, N. Dak	1,309	14	6.8	6,7,13	3.0	25	5.1	3.8
Pierre, S. Dak	1,114	14	5.2	15	0.8	2	2.2	4.4
Sioux City, Iowa	784	17	9.9	18	6.5	2	7.5	3.4
Blair, Nebr	705	15	9.3	19	5.9	3-10	6.9	3.4
Omaha, Nebr	669	18	11.9	19,20	8.7	6	9.7	3.2
Plattsmouth, Nebr	641	17	5.8	20	3.0	5	3.9	2.8
St. Joseph, Mo	481	10	4.7	21	1.5	12	2.4	3.2
Kansas City, Mo	388	21	11.4	22	8.5	6-8,13,14	9.3	2.9
Glasgow, Mo	231	18	8.1	24	4.8	14	5.9	3.3
Boonville, Mo	199	20	11.6	24	8.3	15	9.5	3.3
Hermann, Mo	103	24	15.4	14,15	7.6	1	11.3	7.8
Minnesota River.								
Mankato, Minn	127	18	6.9	29,30	5.0	12,16,17	5.4	1.9
St. Croix River.								
Stillwater, Minn	23	11	9.6	30	5.5	21	6.2	4.1
Illinois River.								
La Salle, Ill	197	18	21.0	1	17.8	23,24	19.4	3.2
Peoria, Ill	135	14	17.5	1	14.6	25	15.7	2.9
Conemaugh River.								
Johnstown, Pa	64	7	7.0	19	2.4	29,30	3.5	4.6
Allegheny River.								
Warren, Pa	177	14	5.8	20,21	1.8	30	3.5	4.0
Parker, Pa	73	20	6.5	21	2.8	30	4.7	3.7
Freeport, Pa	29	20	11.0	9,10,21	5.3	30	8.5	5.7
Springdale, Pa	17	—	15.5	10	9.8	30	12.7	5.7
Youghiogheny River.								
Confluence, Pa	59	10	6.5	11	1.1	30	2.6	5.4
West Newton, Pa	15	23	9.2	11	2.0	30	3.9	7.2
Monongahela River.								
Fairmont, W. Va	119	25	20.2	1	14.6	27	16.7	5.6
Greensboro, Pa	81	18	14.7	1	7.8	29,30	10.0	6.9
Lock No. 4, Pa	40	28	19.0	1	8.2	30	12.1	10.8
Muskingum River.								
Zanesville, Ohio	70	25	17.4	9	9.4	30	12.0	8.0
Little Kanawha River.								
Creston, W. Va	38	20	13.7	1	2.6	30	5.4	11.1
New-Great Kanawha River.								
Hinton, W. Va	153	14	9.5	2	3.0	25	4.5	6.5
Charleston, W. Va	58	30	31.0	2	5.4	26	10.3	25.6
Scioto River.								
Columbus, Ohio	110	17	9.7	9	2.0	28,29	4.0	7.7
Licking River.								
Falmouth, Ky	30	25	30.0	1,2	3.7	30	10.8	26.3
Kentucky River.								
Beattyville, Ky	254	30	30.0	2	1.7	24	6.0	28.3
Frankfort, Ky	65	31	30.0	2	7.4	24	12.5	22.6
Wabash River.								
Terre Haute, Ind	171	16	14.7	14	6.0	22-24	9.5	8.7
Mount Carmel, Ill	75	15	18.5	15,16	9.1	25	14.6	9.4
Cumberland River.								
Burnside, Ky	518	50	24.5	3	4.4	24	11.0	20.1
Celina, Tenn	383	45	25.0	4	7.8	24	15.2	17.2
Carthage, Tenn	308	40	20.9	6	6.8	24	12.2	14.1
Nashville, Tenn	193	40	26.5	6	12.0	24	17.4	14.5
Clarksville, Tenn	126	43	34.6	8	13.8	23	20.9	20.8
Clinch River.								
Speers Ferry, Va	156	20	13.0	3	0.5	23,24	2.3	12.5
Clinch River—Cont'd.								
Clinton, Tenn	52	25	21.6	4	5.6	23,24	9.0	16.0
South Fork Holston River.								
Bluff City, Tenn	35	12	7.0	2	1.5	24	2.6	5.5
Holston River.								
Rogersville, Tenn	103	14	13.0	3	2.6	24	4.2	10.4
French Broad River.								
Asheville, N. C	144	4	2.9	26	0.2	14,15	0.8	2.7
Dandridge, Tenn	46	12	8.4	26	1.5	15	2.5	6.9
Tennessee River.								
Knoxville, Tenn	635	12	11.9	4	2.6	24	4.8	9.3
Loudon, Tenn	590	25	9.5	28	2.8	24,25	4.5	6.7
Kingston, Tenn	556	25	10.5	4	3.7	15,24	5.5	6.8
Chattanooga, Tenn	452	33	14.3	6	5.8	14,15	8.6	8.5
Bridgeport, Ala	402	24	11.5	6	4.0	15	6.4	7.5
Guntersville, Ala	349	31	16.8	7	6.7	14,15	10.7	10.1
Florence, Ala	255	16	9.7	8	4.2	17,18	6.7	5.5
Riverton, Ala	225	26	15.5	8	6.8	18	10.9	8.7
Johnsonville, Tenn	95	21	19.5	1	8.4	18	12.9	11.1
Ohio River.								
Pittsburg, Pa	966	22	12.6	12	3.4	30	7.9	9.2
Coraopolis, Pa	956	25	12.7	12	5.5	30	8.8	7.2
Beaver Dam, Pa	937	27	19.1	12	7.7	30	13.3	11.4
Wheeling, W. Va	875	36	18.6	11	7.9	30	10.3	10.7
Parkersburg, W. Va	785	36	23.1	12	9.0	29,30	15.0	14.1
Point Pleasant, W. Va	703	39	41.1	3	10.8	30	22.2	30.3
Huntington, W. Va	660	50	51.0	3	16.0	30	28.3	35.0
Catlettsburg, Ky	651	50	52.9	3	16.0	30	29.2	36.9
Portsmouth, Ohio	612	50	54.0	3	17.0	30	31.0	37.0
Maysville, Ky	559	50	52.6	3	18.0	30	31.7	34.6
Cincinnati, Ohio	499	50	55.9	4	21.5	30	35.8	34.4
Madison, Ind	413	46	48.1	5	21.1	30	32.0	27.0
Louisville, Ky	367	28	31.3	5,6	9.1	30	15.7	22.2
Evansville, Ind	184	35	42.2	8,9	23.7	20,30	34.1	18.5
Mount Vernon, Ind	148	35	41.8	10	23.3	28,29	34.2	18.5
Paducah, Ky	47	40	39.7	12	26.2	29	34.1	13.5
Cairo, Ill	1	45	45.3	13,14	35.0	29,30	40.7	10.3
Neosho River.								
Iola, Kans	262	10	4.2	8	0.1	2-6	0.9	4.1
Oswego, Kans	184	20	16.7	10	0.8	6	3.3	15.9
Fort Gibson, Okla	3	22	29.0	13	10.0	1	16.1	19.0
Canadian River.								
Calvin, Okla	99	10	6.0	24	3.2	4	4.5	2.8
Black River.								
Blackrock, Ark	67	12	23.0	19,20	10.6	2,3	18.8	12.4
White River.								
Calicorock, Ark	272	18	26.5	12	4.3	1	12.0	22.2
Batesville, Ark	217	18	26.5	13	5.2	1	14.4	21.3
Clarendon, Ark	75	30	29.9	24,25	25.4	12-14	27.2	4.5
Arkansas River.								
Wichita, Kans	832	10	— 1.3	25	— 2.1	16,17	—1.8	0.8
Tulsa, Okla	551	16	7.8	11	3.8	7-9	5.3	4.0
Webbers Falls, Okla	465	23	21.8	13	6.8	7,8	11.8	15.0
Fort Smith, Ark	403	22	25.0	13	6.0	1	14.4	19.0
Dardanelle, Ark	256	21	22.9	15	5.3	1	14.1	17.6
Little Rock, Ark	176	23	23.4	15	10.4	4	17.0	13.0
Pine Bluff, Ark	121	25	25.1	16	14.2	5	19.4	10.9
Yazoo River.								
Greenwood, Miss	175	38	28.8	1-3	16.5	30	23.0	12.3
Yazoo City, Miss	80	25	25.4	1,2	23.5	23,29,30	24.4	1.9
Ouachita River.								
Camden, Ark	304	39	31.9	4	18.7	21	26.7	13.2
Monroe, La	122	40	29.8	26	26.7	10-13	28.1	3.1
Red River.								
Denison, Tex	768	22	10.4	11	2.5	1	6.3	7.9
Arthur City, Tex	688	27	22.0	12	12.6	30	16.7	9.4
Fulton, Ark	515	28	30.6	18	24.0	1	29.0	6.6
Shreveport, La	327	29	23.8	30	4.4	1	17.6	19.4

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.		
Red River—Cont'd.	*Miles.*	*Feet.*	*Feet.*		*Feet.*		*Feet.*	*Feet.*
Alexandria, La.	118	33	30.4	30	13.3	2	24.4	17.1
Mississippi River.								
Fort Ripley, Minn.	2,082	10	6.4	28	4.5	1,4	5.1	1.9
St. Paul, Minn.	1,954	14	7.1	30	4.8	21	5.4	2.3
Red Wing, Minn.	1,914	14	6.8	30	3.7	5–7	4.5	3.1
Reeds Landing, Minn.	1,884	12	6.7	30	3.4	7,8	4.4	3.3
La Crosse, Wis.	1,819	12	6.9	30	4.6	6,7	5.5	2.3
Prairie du Chien, Wis.	1,759	18	7.4	25–30	5.3	1–6	6.2	2.1
Dubuque, Iowa.	1,699	18	7.9	27–30	5.6	1–4	6.6	2.3
Clinton, Iowa.	1,629	16	7.5	28,29	5.2	1	6.1	2.3
Leclaire, Iowa.	1,609	10	4.4	26	2.8	1	3.4	1.6
Davenport, Iowa.	1,593	15	7.1	30	5.4	1	6.0	1.7
Muscatine, Iowa.	1,562	16	8.2	30	6.5	1,17	7.0	1.7
Galland, Iowa.	1,472	8	4.0	28–30	3.1	17–21	3.4	0.9
Keokuk, Iowa.	1,463	15	6.8	28,29	5.2	17, 18, 20	5.6	1.6
Warsaw, Ill.	1,458	18	9.7	28	8.1	11	8.5	1.6
Hannibal, Mo.	1,402	13	7.4	28	6.1	19–22	6.5	1.3
Grafton, Ill.	1,306	23	12.2	9	10.2	23	11.4	2.0
St. Louis, Mo.	1,264	30	20.1	13,15	14.5	2,3	16.8	5.6
Chester, Ill.	1,189	30	18.2	13	12.3	3,7	14.9	5.9
Cape Girardeau, Mo.	1,128	28	24.0	14	17.6	4,7	20.2	6.4
New Madrid, Mo.	1,003	34	36.2	15	28.8	30	33.0	7.4
Luxora, Ark.	905	33	29.5	18	22.4	30	26.9	7.1
Memphis, Tenn.	843	33	35.2	20	29.5	30	32.9	5.7
Helena, Ark.	767	42	44.6	22,23	41.0	30	42.9	3.6
Arkansas City, Ark.	635	42	49.3	25–28	46.6	13,14	48.0	2.7
Greenville, Miss.	595	42	43.9	26–28	40.8	14	42.4	3.1
Vicksburg, Miss.	474	45	47.5	27–30	45.9	13–16	46.6	1.6
Natchez, Miss.	373	46	47.8	30	46.4	16–20	46.9	1.4
Baton Rouge, La.	240	35	36.6	30	35.0	1	35.6	1.6
Donaldsonville, La.	188	28	29.2	30	27.9	1	28.4	1.3
New Orleans, La.	108	16	18.6	28	17.8	3,18	18.1	0.8
Atchafalaya River.								
Simmesport, La.	127	33	41.8	30	39.5	1	40.6	2.3
Melville, La.	103	31	37.7	30	36.7	1,2	37.1	1.0
Hudson River.								
Troy, N. Y.	154	14	10.0	1	7.0	24,25	8.4	3.0
Albany, N. Y.	147	12	9.1	1	4.3	24	6.8	4.8
Delaware River.								
Hancock (E. Branch), N. Y.	287	12	6.9	9	4.3	27,30	5.0	2.6
Hancock (W. Branch), N. Y.	287	10	6.6	9	4.2	26, 27, 30	4.9	2.4
Port Jervis, N. Y.	215	14	5.5	10	1.8	27	3.5	3.7
Phillipsburg, N. J.	146	26	8.2	1	3.5	26–28	5.0	4.7
Trenton, N. J.	92	18	7.1	1	2.7	22, 29, 30	3.7	4.4
North Branch Susquehanna.								
Binghamton, N. Y.	183	14	7.1	1,10	3.5	27	5.0	3.6
Wilkes-Barre, Pa.	60	17	14.9	1	6.6	29	9.0	8.3
West Branch Susquehanna.								
Williamsport, Pa.	39	20	8.3	1	3.2	30	5.2	5.1
Susquehanna River.								
Harrisburg, Pa.	69	17	9.8	1	3.8	30	5.4	6.0
Shenandoah River.								
Riverton, Va.	58	22	— 0.4	1–3	— 0.8	17–30	—0.7	0.4
Potomac River.								
Cumberland, Md.	290	8	5.5	11	3.2	26–30	3.8	2.3
Harpers Ferry, W. Va.	172	18	6.4	3	1.8	25,26	3.7	4.6
James River.								
Lynchburg, Va.	260	20	6.7	2	2.1	20–25	2.9	4.6
Columbia, Va.	167	18	13.6	2	5.6	27	7.2	8.0
Richmond, Va.	111	10	5.2	3	— 0.2	12	1.5	5.4
Roanoke River.								
Clarksville, Va.	196	12	3.0	4	1.0	15,30	1.5	2.0
Weldon, N. C.	129	30	17.4	5	12.6	28,30	14.0	4.8
Tar River.								
Greenville, N. C.	21	22	14.5	1	5.1	30	7.6	9.4
Deep River.								
Moncure, N. C.	171	25	12.0	2	7.9	14	8.6	4.1
Cape Fear River.								
Fayetteville, N. C.	112	38	20.7	3	5.9	15,30	9.6	14.8
Pedee River.								
Cheraw, S. C.	149	27	9.4	18	4.0	16	5.4	5.4
Smiths Mills, S. C.	51	16	16.5	2,3	9.0	18	12.1	7.5
Lynch Creek.								
Effingham, S. C.	35	12	11.8	1	4.0	15,16	6.6	7.8
Black River.								
Kingstree, S. C.	45	12	7.7	29,30	1.7	16	4.6	6.0
Catawba-Wateree River.	*Miles.*	*Feet.*	*Feet.*		*Feet.*		*Feet.*	*Feet.*
Mount Holly, N. C.	143	15	4.0	17	1.8	10–15	2.1	2.2
Catawba, S. C.	107	11	4.0	18	2.4	15	3.0	1.6
Camden, S. C.	37	24	11.9	18	7.1	15	8.6	4.8
Congaree River.								
Columbia, S. C.	52	15	3.8	28	1.5	26	2.4	2.3
Savannah River.								
Calhoun Falls, S. C.	347	15	8.2	27	3.0	13	4.6	5.2
Augusta, Ga.	268	32	24.0	27	8.9	11	13.0	15.1
Oconee River.								
Dublin, Ga.	79	30	22.0	30	3.3	14	9.6	18.7
Ocmulgee River.								
Macon, Ga.	203	18	20.1	27	4.4	14	8.9	15.7
Abbeville, Ga.	96	11	16.1	30	6.4	16	10.6	9.7
Flint River.								
Montezuma, Ga.	152	20	23.2	29	5.4	15	9.5	17.8
Albany, Ga.	90	20	20.2	1	4.8	15	9.7	15.4
Bainbridge, Ga.	29	22	22.9	1	9.3	15	13.5	13.6
Chattahoochee River.								
West Point, Ga.	239	20	15.8	26	3.2	14	6.0	12.6
Eufaula, Ala.	90	40	47.0	29	6.0	6, 13–15	13.3	41.0
Alaga, Ala.	30	25	38.2	30	8.1	16	14.3	30.1
Coosa River.								
Rome, Ga.	266	30	15.0	26	3.0	13,14	5.6	12.0
Gadsden, Ala.	162	22	12.7	28	3.8	14	7.2	8.9
Lock No. 4, Ala.	113	17	10.0	28	3.4	14,15	5.9	6.6
Wetumpka, Ala.	12	45	30.8	29	7.6	15	13.7	23.2
Alabama River.								
Montgomery, Ala.	323	35	31.4	29	5.3	15	11.8	26.1
Selma, Ala.	246	35	35.5	30	7.1	15	15.1	28.4
Black Warrior River.								
Tuscaloosa, Ala.	90	43	22.8	1	9.0	15,24	13.8	13.8
Tombigbee River.								
Columbus, Miss.	316	33	11.5	1	0.3	14,15	3.8	11.2
Demopolis, Ala.	168	35	47.0	1,2	8.3	15	23.3	38.7
Pascagoula River.								
Merrill, Miss.	78	20	20.4	29	6.0	14	11.2	14.4
Pearl River.								
Columbia, Miss.	110	18	18.2	28	7.6	15	11.9	10.6
Sabine River.								
Logansport, La.	315	25	20.9	26	6.4	7,14	12.0	14.5
Neches River.								
Beaumont, Tex.	18	10	5.9	18	1.2	11,12	3.6	4.7
Trinity River.								
Dallas, Tex.	320	25	40.2	20	8.8	9	25.3	31.4
Long Lake, Tex.	211	35	47.0	29	6.5	2	29.3	40.5
Liberty, Tex.	20	25	25.8	30	8.3	7	16.5	17.5
Brazos River.								
Waco, Tex.	285	22	34.7	19	3.6	11	11.3	31.1
Hempstead, Tex.	140	40	41.9	28	1.4	11	18.4	40.5
Booth, Tex.	61	39	38.7	30	4.6	15	16.9	34.1
Colorado River.								
Austin, Tex.	214	18	22.0	23	1.0	10	4.5	21.0
Columbus, Tex.	98	24	35.8	27	5.7	10	13.3	30.1
Red River of the North.								
Moorhead, Minn.	284	26	13.0	6	8.6	23,24	10.4	4.4
Snake River.								
Lewiston, Idaho.	144	24	12.6	23	3.4	5	7.3	9.2
Riparia, Wash.	67	30	12.1	24	4.5	5,11	7.8	7.6
Columbia River.								
Wenatchee, Wash.	473	40	18.5	30	6.4	9–11	10.0	12.1
Umatilla, Oreg.	270	25	12.5	24,25	3.7	10	7.3	8.8
The Dalles, Oreg.	166	40	19.3	25	5.2	11	10.8	14.1
Rio Grande.								
San Marcial, N. Mex.	1,233	11	11.5	19	9.5	7	10.2	2.0
El Paso, Tex.	1,030	14	12.4	22	9.6	10	10.8	2.8
Willamette River.								
Albany, Oreg.	118	20	6.6	26	4.0	12	4.9	2.6
Portland, Oreg.	12	15	12.2	26,27	3.2	10	7.2	9.0
Sacramento River.								
Red Bluff, Cal.	265	23	4.9	25	3.3	9,10	3.9	1.6
Colusa, Cal.	156	28	11.0	26	8.7	10,11	9.8	2.3
Knights Landing, Cal.	99	18	11.2	27	8.8	10,11	10.1	2.4
Sacramento, Cal.	64	25	17.2	22	15.2	4,9,10	16.3	2.0
San Joaquin River.								
Pollasky, Cal.	203	10	3.0	30	0.3	3	1.4	2.7
Firebaugh, Cal.	148	14	5.2	30	0.3	5,6	2.2	4.9
Lathrop, Cal.	49	14	11.6	23	4.8	6,7	8.0	6.8

Figures denote number of days frozen.

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

Day.	Pressure, in inches.*		Air temperature, degrees Fahrenheit.				Moisture.				Wind, in miles per hour.				Precipitation, inches.		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, from.	Amount.	Kind.	Direction, from.
							°	%	°	%												
1	30.08	30.07	74.2	72.5	78	68	65.5	62	64.5	65	ne.	12	ne.	14	0.00	0.03	4 3	Ci. Cu.	nw. e.	2	N.	e.
2	30.08	30.02	72.0	72.0	77	65	64.0	65	63.0	61	e.	17	ne.	17	0.04	0.00	2 5	A.-s. Cu.	0 e.	2	Cu.	ne.
3	30.05	30.05	69.2	72.0	75	65	65.0	80	63.5	63	ne.	12	e.	18	0.05	0.06	3 6	Cu. N.	e. e.	3	S.	e.
4	30.09	30.06	72.0	70.0	76	67	65.0	69	63.0	68	ne.	14	ne.	18	T.	T.	6	Cu.	e.	7	Cu.	se.
5	30.06	30.01	73.2	72.0	77	68	64.0	60	64.5	67	ne.	13	ne.	15	0.00	0.02	9 1	Ci. Cu.	w. e.	9 1	Ci.-s. Cu.	0 ne.
6	30.02	30.01	74.0	72.5	77	69	65.0	61	65.0	67	ne.	16	ne.	10	0.00	0.00	6 1	Ci. Cu.	0 e.	4	Cu.	e.
7	30.06	30.06	71.8	72.5	78	67	66.1	74	65.5	69	e.	8	ne.	16	T.	0.18	8	Cu.	e.	8	Cu.	e.
8	30.10	30.08	72.0	71.0	78	67	65.0	69	64.5	70	ne.	8	ne.	25	T.	0.02	5 3	A.-cu. N.	w. e.	8	Cu.	ne.
9	30.11	30.09	73.4	72.0	77	69	65.0	63	65.0	69	e.	18	e.	8	0.01	0.00	8 1	Ci.-s. Cu.	se. ne.	4 4	A.-s. Cu.	nw. e.
10	30.11	30.08	74.0	71.0	77	68	66.0	65	64.0	68	e.	17	ne.	9	0.00	T.	5	Cu.	ne.	9	Cu.	ne.
11	30.06	30.02	72.4	70.5	76	68	63.1	60	66.0	79	ne.	13	ne.	6	0.01	T.	4	Cu.	0	8 1	Cu. N.	ne. ne.
12	30.05	30.03	72.0	70.5	76	66	61.0	53	62.0	62	ne.	12	ne.	18	0.04	0.00	1	Cu.	e.	Few	Cu.	ne.
13	30.05	30.02	72.2	70.5	77	68	63.3	61	64.0	70	ne.	7	e.	5	0.00	0.00	3	Cu.	e.	3 5	Ci.-s. Cu.	0 e.
14	30.06	30.07	73.0	71.0	78	69	65.0	65	66.0	77	ne.	7	s.	4	0.00	0.00	6 4	A.-s. Cu.	w. e.	4 2	Ci. Cu.	sw. se.
15	30.11	30.11	73.7	72.0	77	70	66.0	66	64.0	65	ne.	17	e.	9	0.01	0.00	8 2	Ci. Cu.	0 e.	6 4	A.-s. Cu.	nw. ne.
16	30.10	30.10	72.4	70.0	76	69	63.0	60	62.0	64	ne.	16	e.	5	0.00	0.00	9	A.-s.	w.	9 1	A.-s. Cu.	sw. ne.
17	30.09	30.08	72.0	71.0	76	68	62.0	57	62.5	62	ne.	10	e.	4	0.00	0.00	9 1	Ci.-s. Cu.	sw. e.	1 9	Cu. S.	e. e.
18	30.14	30.13	72.0	71.5	77	67	65.0	69	63.5	64	ne.	8	ne.	12	0.01	0.00	9	S.-cu.	e.	3	Cu.	ne.
19	30.15	30.13	72.7	72.5	77	70	63.0	58	64.5	65	ne.	6	e.	10	0.00	0.02	3 7	Ci.-s. S.-cu.	0 e.	7	S.	ne.
20	30.17	30.12	70.0	71.0	75	67	65.0	77	64.0	68	ne.	5	e.	12	0.05	0.00	10	N.	e.	3	Cu.	ne.
21	30.14	30.06	73.0	71.0	77	68	64.0	61	63.0	64	ne.	14	e.	10	0.03	0.00	4	Cu.	e.	7	S.	ne.
22	30.09	30.04	74.0	72.5	77	69	64.0	58	64.0	63	e.	8	ne.	10	T.	0.00	4	Cu.	se.	2	A.-s.	n.
23	30.04	30.04	73.0	71.0	76	66	66.5	71	67.0	81	0	0	sw.	9	0.00	0.00	5	Cu.	ne.	9	S.	sw.
24	30.06	30.06	71.8	72.0	78	68	66.8	77	67.0	77	w.	3	ne.	4	0.00	0.00	10	A.-s.	ne.	2	S.	ne.
25	30.04	30.03	73.0	73.0	82	67	67.0	73	67.0	73	sw.	3	se.	3	0.00	0.00	1	S.-cu.	ne.	0	0	0
26	30.02	30.01	74.0	74.0	79	68	68.0	74	67.5	71	w.	4	nw.	5	0.00	0.00	1	S.-cu.	ne.	0	0	0
27	29.99	29.99	74.7	72.2	81	67	67.0	67	66.0	72	se.	3	ne.	15	0.00	0.00	7	Ci.-s.	w.	1	A.-s.	sw.
28	30.03	30.03	75.2	72.7	80	70	67.0	65	67.0	74	sw.	3	se.	2	0.00	0.00	3	Cu.	ne.	Few	S.-cu.	ne.
29	30.05	30.04	75.3	72.0	80	70	67.0	65	67.0	77	ne.	4	ne.	9	0.00	0.00	2	Cu.	e.	6	S.	ne.
30	30.07	30.08	74.0	73.0	79	70	66.0	65	65.0	65	ne.	9	e.	12	0.02	0.00	6	Cu.	ne.	Few	S.-cu.	ne.
31	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Mean	30.076	30.057	72.9	71.7	77.5	67.9	65.0	65.7	64.7	68.7	ne.	9.6	ne.	10.5	0.27	0.33	6.5	Cu.	e.	5.2	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.

RAINFALL IN JAMAICA.

Thru the kindness of Mr. Maxwell Hall, meteorologist to the government of Jamaica and now in charge of the meteorological service of that island, we have received the following data:

Comparative table of rainfall.

[Based upon the average stations only.]

MARCH, 1908.

Divisions.	Relative area.	Number of stations.	Rainfall.	
			1908.	Average.
	Per cent.		*Inches.*	*Inches.*
Northeastern division	25	21	5.39	3.62
Northern division	22	49	1.86	2.07
West-central division	26	19	3.31	3.66
Southern division	27	30	3.14	2.15
Means	100	.....	3.42	2.88

The rainfall over the Island for March, 1908, was above the average; the forecast issued early in the month was therefore verified. The maximum rainfall recorded was 19.07 inches at Shrewsbury, Portland, in the northeastern division; and the minimum rainfall recorded was 0.20 inch at Dry Harbour, in the northern division. At Gordon Town, Grand Cayman, the total rainfall for March, 1908, was 0.30 inch; it fell on the 21st.

The earthquake activity was less during March than during February, and much less than during January. The shocks had the same peculiarities as those pointed out in the last Weather Report. The two shocks at Kings Valley on the 3d were unusual and discomposing: The question arose as to what was coming next.