CONDENSED CLIMATOLOGICAL SUMMARY.

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 the 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 10 or more years of observations. Of course the number of such records is smaller than the total number of stations.

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS.

Temperature and precipitation by sections, August, 1912.

Section.	Temperature (° F.).								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	79.2	− 0.6	Newbern	100	21†	Riverton	49	5	5.68	+ 1.19	Alaga	11.25	Flomaton	1.91
Arizona	77.7	− 2.4	Maricopa	117	8	Flagstaff	32	19	2.18	+ 0.08	Bisbee	10.15	3 stations	T.
Arkansas	78.7	− 0.4	Bee Ranch	105	27	Bergman	45	4†	3.30	− 0.17	White Cliffs	10.24	Dodd City	0.93
California	70.2	− 2.6	Indio	115	7	Madeline	20	29	0.06	− 0.02	Nellie	1.05	200 stations	0.00
Colorado	63.0	− 2.0	Eads	103	26	Silverton	23	25	1.84	+ 0.13	Cope	6.44	Nast	0.00
Florida	81.5	+ 0.2	3 stations	100	20†	Marianna	60	29	5.81	− 1.84	Apalachicola	14.09	Hypoluxo	1.19
Georgia	79.1	− 0.2	Dublin	101	31	Diamond	52	5	4.91	− 0.69	Bainbridge	10.00	Harrison	0.81
Hawaii (July)	73.7	.....	Mahukona	94	10	Humuula	36	2	3.53	.....	Hakalau	20.29	4 stations	0.00
Idaho	63.3	− 3.7	Glenns Ferry	105	24	Roseberry	17	30	1.32	+ 1.00	Clarks Fork	3.98	....do	T.
Illinois	72.7	− 1.2	3 stations	100	28†	Lanark	39	4	4.02	+ 0.81	Alexander	8.38	Monmouth	1.10
Indiana	71.8	− 1.7	Judyville	102	26	Huntingburg	39	5	5.35	+ 2.15	Vevay	12.00	Hammond	1.65
Iowa	71.0	− 0.8	8 stations	101	25†	4 stations	40	3†	3.78	− 0.21	Fayette	7.90	Washington	0.89
Kansas	77.5	+ 0.3	2 stations	110	24†	Blakeman	47	9	4.15	+ 0.79	Cimarron	9.82	Richfield	1.34
Kentucky	73.7	− 2.0	....do	98	18†	Greensburg	43	5	4.71	+ 1.37	Farmers	8.22	Paducah	1.50
Louisiana	81.3	− 0.1	Liberty Hill	104	21	Laark	51	5	5.89	+ 1.13	Donaldsonville	13.50	Robeline	1.05
Maryland and Del.	71.7	− 1.4	Cambridge, Md	99	19	Deer Park, Md	36	5	2.68	− 1.71	State Sanat'um, Md.	6.26	Annapolis, Md	1.02
Michigan	63.1	− 3.3	Allegan	96	25	Seney	28	16	4.14	+ 1.35	Iron River	8.65	Cassopolis	1.33
Minnesota	63.8	− 2.4	Beardsley	100	25	5 stations	32	2†	3.92	+ 0.61	New London	7.29	Ely	1.45
Mississippi	80.0	− 0.4	Charleston	101	19	2 stations	53	5	5.26	+ 0.97	McNeill	10.24	Bay Springs	1.10
Missouri	76.2	+ 0.1	2 stations	104	19†	Louisiana	41	5	4.19	+ 0.75	Louisiana	8.70	Olden	1.40
Montana	61.3	− 3.3	Ryegate	98	22	Bowen	11	30	2.12	+ 1.18	Glasgow	5.12	Forsyth	0.28
Nebraska	71.7	− 0.7	North Loup	107	25	Curly	38	9	3.22	+ 0.14	Wakefield	7.88	Ravenna	0.58
Nevada	67.7	− 2.3	Jean	110	8	Quin River Ranch	23	30	0.35	− 0.20	Bishop	1.56	8 stations	0.00
New England	63.3	− 2.5	Bridgeport, Conn	92	14	Norfolk, Mass	29	31	4.03	+ 0.12	Patten, Me	11.28	Boston, Mass	1.94
New Jersey	70.0	− 2.0	2 stations	95	13†	Layton	35	31	3.42	− 1.30	Charlotteburg	7.62	Vineland	1.19
New Mexico	70.2	− 0.6	Artesia	104	10	Elizabethtown	29	7	2.86	+ 0.34	Berino	7.05	Los Lunas (near)	0.10
New York	64.0	− 2.7	Bedford	94	15†	2 stations	30	30†	3.97	+ 0.31	Liberty	8.98	Little Falls	2.04
North Carolina	75.1	− 0.3	Elizabeth City	104	13	Banners Elk	38	4	2.77	− 3.23	Snow Hill	6.93	Edenton	0.40
North Dakota	63.4	− 2.6	Medora	118	27†	Medora	32	15	2.95	+ 0.67	McHenry	6.13	Haley	1.08
Ohio	69.2	− 2.3	2 stations	95	18	3 stations	40	4†	4.08	+ 0.90	Peebles	7.90	Frankfort	1.44
Oklahoma	80.2	− 0.6	Jefferson	110	31	Goodwell	49	1	3.29	+ 0.54	Webbers Falls	8.15	Blackburn	0.79
Oregon	63.8	− 1.8	Blalock	106	23	Austin	20	30†	1.89	+ 1.32	Glenora	8.82	Grants Pass	0.03
Pennsylvania	67.1	− 2.5	2 stations	93	18†	Pocono Lake	36	6†	5.02	+ 1.03	Williamsport	9.65	George School	1.68
Porto Rico	78.7	− 0.5	Rio Blanco	96	10	Maricao	55	14	5.90	− 2.28	San German	16.52	Vieques	0.72
South Carolina	79.2	+ 0.4	2 stations	104	20	3 stations	54	5†	3.69	− 2.86	Walterboro	6.75	Santue	1.02
South Dakota	68.1	− 2.0	Kennebec	105	25	Frederick	34	3	3.34	+ 0.94	Fort Meade	9.15	Ellingson	0.88
Tennessee	75.9	− 0.6	Cedar Hill	99	30	Mountain City	43	5	4.09	+ 0.44	Chattanooga	8.88	Worsham	1.63
Texas	83.7	+ 1.2	2 stations	109	2†	Romero	54	9	2.49	+ 0.08	Longview	15.28	15 stations	0.00
Utah	67.9	− 2.1	Low	103	25	Woodruff	24	19	0.98	− 0.17	Woodruff	3.23	Milford	0.00
Virginia	72.4	− 1.4	4 stations	98	13	Hot Springs	32	2	2.15	− 2.47	Elk Knob	5.03	Catawba	0.35
Washington	63.4	− 2.2	Hanford	106	23	Snyders Ranch	27	29	2.84	+ 2.18	Yale	9.30	Lost Creek	0.18
West Virginia	69.3	− 2.4	Doane	95	31	Bayard	35	5	3.64	− 0.29	Valley Fork	11.70	Burlington	0.25
Wisconsin	63.9	− 3.2	Darlington (No. 2)	96	25	Deerskin Dam	26	29	5.70	+ 2.50	Koepenick	9.45	Racine	1.80
Wyoming	59.7	− 1.9	Casper	109	26	Fountain, Y. N. P.	14	30	2.09	+ 0.51	Riverton	9.12	Centential	0.29

† Other dates also.

TABLE I.—*Climatological data for United States Weather Bureau stations, August, 1912.*

Districts and stations.	Elevation of instruments.			Pressure in inches.			Temperature of the air in degrees Fahrenheit.												Precipitation, inches.			Wind.									
	Barometer above sea level, feet.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
New England.							65.2	− 2.0										79	2.96	− 0.9										6.0		
Eastport	76	67	85	29.82	29.90	− .06	58.8	− 0.9	74	25	65	45	31	52	22	54	52	84	3.76	+ 0.5	14	5,647	s.	26	s.	25	3	17	11	6.6	....	....
Greenville	1,070	6	....	28.78	29.92	.....	58.5	.....	83	14	67	40	17	50	27	....	....	....	5.38	.....	17	.....	.....	....	.....	....	....	....	....	....	....	....
Portland, Me.	103	81	117	29.82	29.94	− .04	62.8	− 3.4	88	25	70	47	31	56	28	58	55	79	2.26	− 1.3	13	5,946	s.	31	nw.	30	10	10	11	5.8	....	....
Concord	288	70	79	29.62	29.93	− .05	64.5	− 2.1	87	25	75	38	31	54	30	....	....	....	3.39	− 0.4	13	3,540	nw.	23	w.	25	8	16	7	5.5	....	....
Burlington	404	11	48	29.49	29.92	− .05	62.3	− 3.8	82	11	70	44	17	54	27	....	....	....	2.55	− 1.5	15	6,274	s.	30	s.	10	3	11	17	7.0	....	....
Northfield	876	16	60	29.02	29.95	− .03	59.6	− 3.3	83	11	70	36	31	49	33	56	54	86	3.46	− 0.5	17	4,253	s.	22	sw.	25	3	9	19	7.7	....	....
Boston	125	115	188	29.81	29.94	− .05	69.0	+ 0.1	90	25	77	49	31	61	24	62	58	72	1.94	− 2.1	8	6,746	nw.	34	w.	23	6	17	8	5.8	....	....
Nantucket	12	14	90	29.95	29.96	− .03	67.0	− 1.0	82	27	73	53	31	61	21	63	61	86	2.87	− 0.2	7	9,476	sw.	36	s.	18	11	14	6	4.7	....	....
Block Island	26	11	46	29.92	29.95	− .04	67.0	− 1.7	81	15	71	51	31	62	16	63	62	86	3.18	− 0.3	8	10,026	sw.	36	se.	18	11	12	8	5.1	....	....
Narragansett	.....	9	....	.....	.....	.....	66.1	− 2.4	83	15	74	41	28	58	28	....	....	....	3.39	.....	6	.....	sw.	....	.....	....	9	16	6	....	....	....
Providence	160	141	165	29.79	29.96	− .03	67.8	− 3.2	87	15	76	46	31	60	23	62	59	75	2.90	− 1.2	7	6,734	nw.	47	nw.	23	7	20	4	5.4	....	....
Hartford	159	122	140	29.78	29.95	− .04	68.2	− 0.7	89	14	77	45	31	59	25	61	57	73	3.02	− 1.5	11	4,648	s.	31	sw.	3	4	17	10	6.2	....	....
New Haven	106	116	155	29.84	29.95	− .04	69.0	− 1.1	89	14	78	46	31	60	23	62	59	74	3.22	− 1.8	12	5,718	s.	37	sw.	3	7	15	9	5.8	....	....
Middle Atlantic States.							71.2	− 1.3										74	2.96	− 0.4										5.5		
Albany	97	102	115	29.83	29.94	− .04	68.0	− 1.5	88	25	77	43	31	59	26	60	56	71	3.00	− 1.0	11	4,666	s.	24	se.	10	9	19	3	4.7	....	....
Binghamton	871	78	88	29.04	29.96	− .03	64.0	− 3.5	87	25	74	40	31	54	32	....	....	....	7.72	+ 4.4	19	3,397	w.	22	sw.	22	0	11	20	8.0	....	....
New York	365	414	454	29.63	29.96	− .04	70.7	− 1.5	89	26	78	53	31	64	19	63	58	69	2.77	− 1.8	12	11,025	nw.	49	w.	23	4	20	7	6.1	....	....
Harrisburg	374	94	104	29.59	29.98	− .03	70.3	− 1.8	89	18	78	53	6	62	22	63	59	73	3.03	− 1.2	14	3,920	w.	31	sw.	13	4	14	13	6.1	....	....
Philadelphia	117	123	184	29.85	29.97	− .03	73.0	− 0.8	90	13	81	55	31	65	22	65	60	67	1.71	− 2.9	10	6,304	nw.	28	se.	2	6	19	6	5.4	....	....
Scranton	805	111	119	29.13	29.98	− .02	66.6	− 2.7	86	13	76	45	31	57	29	61	58	77	4.91	+ 0.7	14	4,528	s.	39	w.	18	5	13	13	6.6	....	....
Atlantic City	52	37	48	29.92	29.98	− .02	71.6	− 1.0	90	14	78	53	28	65	22	66	63	77	3.21	− 1.1	8	5,192	s.	22	s.	11	7	16	8	5.4	....	....
Cape May	18	13	49	29.98	30.00	.00	72.2	− 1.2	90	14	80	53	31	65	22	67	64	81	1.93	− 2.3	9	5,065	s.	30	w.	13	5	24	2	5.1	....	....
Baltimore	123	100	113	29.85	29.98	− .03	74.4	− 0.3	92	18	82	57	5	66	21	66	62	69	3.25	− 1.0	10	4,578	sw.	25	sw.	19	9	12	10	5.3	....	....
Washington	112	62	85	29.86	29.97	− .04	73.4	− 1.1	92	18	83	53	6	64	27	66	62	72	1.50	− 2.9	10	3,773	s.	28	n.	19	10	14	7	5.1	....	....
Lynchburg	681	83	88	29.26	29.99	− .03	75.2	+ 0.4	95	14	86	51	2	65	33	67	63	72	1.28	− 3.0	7	2,568	sw.	34	se.	26	6	22	3	4.8	....	....
Mount Weather	1,725	10	54	28.20	29.96	− .05	67.8	− 1.6	84	18	75	50	28	61	18	61	58	75	4.54	+ 0.9	10	9,874	w.	38	nw.	2	16	19	9	5.7	....	....
Norfolk	91	102	111	29.91	30.00	.00	76.8	+ 0.1	96	19	84	58	4	69	24	69	66	75	2.12	− 3.8	11	5,973	s.	33	nw.	19	12	15	4	4.4	....	....
Richmond	144	189	197	29.85	29.99	− .02	76.4	− 1.1	97	19	87	55	5	66	31	67	63	70	1.49	− 2.9	9	4,841	s.	40	sw.	13	10	14	7	5.1	....	....
Wytheville	2,293	40	47	27.71	30.02	+ .01	68.3	− 2.2	84	31	78	45	5	59	33	63	61	85	1.98	− 2.6	16	3,461	w.	23	w.	2	6	20	5	5.3	....	....
South Atlantic States.							78.4	+0.6										80	3.87	− 2.3										5.2		
Asheville	2,255	53	75	27.75	30.05	+ .03	70.0	− 0.5	87	31	80	51	5	60	28	64	62	83	1.88	− 2.9	13	3,961	nw.	31	nw.	21	6	17	8	5.8	....	....
Charlotte	773	68	76	29.21	30.03	+ .01	76.4	− 0.2	95	31	86	55	5	67	24	68	65	76	1.87	− 3.7	10	4,162	sw.	30	w.	14	6	17	8	5.7	....	....
Hatteras	11	12	47	30.00	30.01	+ .01	77.9	− 0.3	89	20	83	67	4	73	21	73	71	84	2.80	− 3.0	10	9,515	sw.	42	sw.	23	9	18	4	4.5	....	....
Manteo	12	12	46	.....	.....	.....	77.4	.....	95	14	86	58	31	69	....	....	....	....	3.25	− 2.7	6	.....	sw.	....	.....	....	18	7	6	....	....	....
Raleigh	376	103	110	29.61	30.00	− .01	77.6	+ 0.8	96	19	88	56	5	68	25	68	64	71	2.86	− 3.0	8	5,540	w.	37	nw.	26	9	17	5	4.8	....	....
Wilmington	78	81	91	29.94	30.03	+ .03	78.8	+ 1.2	94	20	87	60	5	71	22	73	71	85	2.60	− 3.9	11	5,158	sw.	30	w.	22	7	22	2	4.6	....	....
Charleston	48	11	92	29.99	30.04	+ .03	81.2	+ 0.9	97	21	88	65	5	74	25	74	72	80	2.77	− 4.2	11	6,659	sw.	34	e.	16	10	11	10	5.5	....	....
Columbia, S. C.	351	41	57	29.66	30.03	+ .02	79.4	− 0.1	98	31	89	61	6	70	24	71	68	78	4.80	− 2.0	8	4,461	sw.	33	s.	18	6	17	8	5.5	....	....
Augusta	180	89	97	29.84	30.03	+ .02	80.0	+ 1.1	98	31	89	65	5	71	23	72	69	79	6.14	+ 0.6	11	3,650	s.	26	w.	25	8	13	10	5.5	....	....
Savannah	65	150	194	29.98	30.04	+ .03	80.5	+ 1.1	97	31	89	64	5	72	22	73	72	84	8.27	+ 0.8	12	6,985	sw.	37	w.	21	8	10	13	5.9	....	....
Jacksonville	43	96	129	30.01	30.06	+ .05	81.8	+ 1.7	94	31	89	69	6	74	21	75	74	85	5.32	− 0.9	13	5,685	sw.	38	sw.	24	14	10	7	4.2	....	....
Florida Peninsula.							82.8	+ 1.1										77	3.18	− 3.8										5.3		
Key West	22	10	53	30.01	30.03	+ .05	83.6	− 0.2	90	24	89	71	13	79	18	77	74	75	1.69	− 3.0	7	5,215	e.	18	se.	25	5	22	4	5.2	....	....
Miami	25	37	72	30.03	30.06	.....	83.2	+ 1.2	91	1	89	69	29	77	21	76	74	75	2.93	− 4.7	11	5,441	se.	28	se.	29	3	19	9	6.4	....	....
Sand Key	23	39	72	29.98	30.01	+ .03	82.2	.....	89	1	85	71	29	79	15	77	75	77	1.32	.....	9	8,554	e.	39	se.	20	4	20	7	5.4	....	....
Tampa	35	79	96	30.03	30.06	+ .06	82.0	+ 2.0	94	10	90	69	11	74	25	75	73	80	4.93	− 3.7	11	4,043	ne.	29	se.	29	7	20	4	4.7	....	....
Titusville	25	6	....	30.02	30.07	.....	82.4	+ 1.4	97	21	92	69	6	73	25	....	....	....	10.00	.....	20	.....	e.	....	.....	....	12	14	5	4.5	....	....
East Gulf States.							79.6	+ 0.4										82	4.90	0.0										5.7		
Atlanta	1,174	190	216	28.84	30.05	+ .04	76.9	+ 0.8	91	31	85	60	5	69	23	69	67	77	3.70	− 0.8	9	6,228	sw.	37	w.	25	8	14	9	5.4	....	....
Macon	370	78	87	29.65	30.04	+ .03	79.7	+ 1.5	96	31	89	65	6	71	24	72	70	80	2.75	− 1.5	12	3,277	s.	26	sw.	22	6	14	11	5.9	....	....
Thomasville	273	8	57	29.76	30.05	+ .05	80.4	− 0.6	95	16	90	68	5	71	24	73	72	89	7.12	+ 2.1	16	2,827	sw.	19	sw.	1	3	14	14	6.3	....	....
Pensacola	56	140	183	29.98	30.04	+ .06	80.1	− 0.9	91	20	86	69	27	74	20	75	73	83	5.24	− 1.9	15	7,494	sw.	32	sw.	3	4	16	11	6.1	....	....
Anniston	741	9	57	29.28	30.06	+ .07	77.4	+ 1.0	94	31	87	60	2	68	28	....	....	....	2.74	− 1.7	12	2,901	s.	33	w.	9	7	14	10	5.9	....	....
Birmingham	700	11	48	29.30	30.05	+ .06	78.0	− 1.8	92	20	87	61	5	69	23	71	69	83	5.60	+ 1.1	13	3,460	s.	36	w.	9	11	14	6	4.9	....	....
Mobile	57	98	106	29.98	30.04	+ .06	81.0	+ 1.3	94	20	89	69	8	73	21	74	73	82	8.25	+ 1.4	17	4,451	sw.	30	nw.	21	6	19	6	5.5	....	....
Montgomery	223	100	112	29.80	30.05	+ .06	80.0	+ 0.3	95	31	89	65	5	71	23	73	71	82	4.58	+ 0.3	10	3,453	sw.	30	w.	10	8	15	8	5.5	....	....
Meridian	375	84	93	29.64	30.02	+ .04	79.4	+ 0.9	94	31	89	59	5	70	25	72	70	81	4.20	+ 0.6	11	2,779	sw.	36	sw.	10	5	20	6	5.6	....	....
Vicksburg	247	62	74	29.76	30.04	+ .06	79.8	+ 0.2	92	20	88	60	5	71	24	73	71	82	4.81	+ 1.3	12	3,814	se.	30	sw.	9	10	12	9	5.3	....	....
New Orleans	51	90	121	29.97	30.02	+ .04	82.9	+ 1.9	94	23	90	72	5	76	20	76	73	80	4.93	− 0.7	15	4,440	s.	31	s.	23	1	20	10	6.7	....	....
West Gulf States.							82.0	+ 1.0										74	3.09	+ 0.1										3.9		
Shreveport	249	77	84	29.74	30.00	+ .03	80.2	− 1.2	94	21	89	63	5	71	26	74	71	81	10.89	+ 8.6	9	3,379	se.	35	n.	3	16	8	7	4.4	....	....
Bentonville	1,303	11	44	28.64	29.97	.00	76.9	+ 0.4	97	27	88	54	4	66	31	....	....	....	2.61	− 1.4	7	3,338	s.	16	s.	11	25	5	1	2.5	....	....
Fort Smith	457	79	94	29.49	29.96	− .01	80.4	+ 1.0	101	28	91	60	5	70	30	70	67	73	2.76	− 0.9	8	4,480	e.	44	sw.	2	16	12	3	3.7	....	....
Little Rock	357	139	147	29.62	29.99	+ .01	79.0	− 0.2	94	21	88	58	5	70	26	71	69	78	4.98	+ 1.3	11	5,818	sw.	33	sw.	11	15	7	9	4.9	....	....
Brownsville	57	4	....	.....	.....	.....	84.0	.....	96	28	94	70	28	74	26	....	....	....	0.12	.....	5	.....	se.	....	.....	....	....	....	....	....	....	....
Corpus Christi	20	69	77	29.94	29.96	+ .03	83.1	+ 1.0	91	23	88	75	29	78	14	77	76	82	0.04	− 2.2	2	11,468	se.	42	se.	8	28	3	0	2.2	....	....
Fort Worth	670	106	114	29.23	29.93	− .01	82.0	− 0.9	102	3	91	65	6	73	28	71	66	64	6.56	+ 4.7	8	7,068	s.	34	nw.	1	14	12	5	4.4	....	....
Galveston	54	106	112	29.94	30.01	+ .05	83.8	+ 1.2	90	4	88	70	14	80	16	77	75	77	1.59	− 3.4	9	7,693	s.	26	se.	14	15	15	1	3.7	....	....
Houston	138	111	121	29.84	29.98	.....	83.6	+ 0.7	96	22	92	70	17	75	21	....	....	....	2.59	.....	11	5,105	se.	26	s.	30	6	18	7	5.6	....	....
Palestine	510	64	72	29.45	29.97	.00	82.4	+ 1.9	96	21	92	66	6	73	25	73	71	75	0.46	− 1.8	3	5,271	s.	34	ne.	2	11	18	2	4.6	....	....
San Antonio	701	80	91	29.22	29.93	.00	86.0	+ 4.0	100	4	97	70	16	75	26	73	68	65	0.29	− 2.4	3	4,801	se.	19	s.	8	20	11	0	3.0	....	....
Taylor	583	55	63	29.38	29.99	+ .04	84.8	+ 3.1	99	3	96	71	16	74	25	....	....	....	0.75	−.1.7	5	6,758	s.	28	s.	22	12	19	0	4.2	....	....
Ohio Valley and Tennessee.							73.3	− 1.5										78	4.00	+ 0.6										5.9		
Chattanooga	702	189	213	29.25	30.05	+ .05	76.6	+ 0.1	92	31	86	58	5	67	27	69	67	80	8.88	+ 5.1	15	4,610	sw.	37	nw.	26	7	21	3	5.4	....	....
Knoxville	996	93	100	28.99	30.02	+ .01	75.4	+ 0.7	92	31	85	58	5	66	28	68	66	79	2.66	− 1.3	10	3,389	sw.	38	nw.	21	2	15	14	6.8	....	....
Memphis	399	76	97	29.61	30.03	+ .05	78.6	− 0.6	92	20	86	58	4	71	23	72	70	78	3.41	+ 0.2	9	5,661	sw.	28	sw.	7	14	8	9	4.4	....	....
Nashville	546	108	191	29,45	30.03	+ .03	76.7	− 1.1	92	19	86	56	4	68	27	69	66	77	3.06	− 0.4	11	5,345	sw.	46	nw.	20	12	13	6	4.7	....	....
Lexington	989	75	102	28.96	30.00	− .01	72.2	− 2.4	88	17	81	51	5	64	28	....	....	....	3.23	− 0.3	15	6,383	sw.	43	nw.	29	7	13	11	5.9	....	....
Louisville	525	111	132	29.43	30.01	+ .01	75.4	− 1.1	93	18	84	52	4	66	31	68	64	73	5.06	+ 1.6	12	5,206	sw.	36	sw.	12	8	16	7	5.4	....	....
Evansville	431	72	82	29.53	29.99	.00	75.3	− 1.7	92	19	84	53	4	67	26	69	66	76	4.00	+ 0.8	13	4,852	sw.	30	s.	8	11	19	1	4.4	....	....
Indianapolis	822	154	164	29.10	29.98	− .02	72.0	− 1.6	90	18	81	49	4	63	30	65	62	76	3.12	− 0.2	11	6,539	sw.	40	sw.	10	6	15	10	6.2	....	....
Cincinnati	628	152	160	29.33	29.99	− .02	73.8	− 1.7	92	18	82	52	4	65	31	68	66	81	5.00	+ 1.7	14	4,304	sw.	26	nw.	13	2	18	11	6.3	....	....
Columbus	824	173	222	29.12	29.99	− .02	70.7	− 2.3	90	31	80	49	4	62	26	64	61	77	2.25	− 1.0	15	7,269	sw.	42	nw.	19	4	12	15	6.6	....	....
Dayton	899	181	216	29.03	29.96	.....	71.0	− 2.6	90	18	80	48	5	62	27	65	63	80	6.64	+ 3.6	14	6,989	sw.	44	nw.	28	2	11	18	7.7	....	....
Pittsburgh	842	353	410	29.09	29.98	− .03	68.8	− 3.7	87	18	77	48	28	61	24	62	59	74	2.39	− 0.8	13	7,521	sw.	55	nw.	18	4	17	10	6.0	....	....
Parkersburg	638	77	84	29.36	30.02	+ .01	72.2	− 1.1	91	31	81	49	5	64	26	66	64	82	3.05	− 0.5	12	3,686	s.	22	s.	9	7	13	11	6.0	....	....
Elkins	1,940	41	50	28.01	30.02	.00	67.0	− 1.4	86	31	77	42	5	56	31	61	60	85	3.30	− 0.4	15	2,224	w.	19	w.	26	4	10	17	7.0	....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, August, 1912*—Continued.

Districts and stations.	Elevation of instruments.			Pressure in inches.			Temperature of the air in degrees Fahrenheit.									Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Precipitation, inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
	Barometer above sea level, feet.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with 0.01 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.						
Lower Lake region.							66.2	− 3.4										78	3.80	+ 0.9										6.2		
Buffalo	767	178	206	29.12	29.94	− .05	64.8	− 4.0	87	13	71	46	30	59	26	60	57	76	4.00	+ 1.0	16	9,894	sw.	50	sw.	26	1	15	15	7.1		
Canton	448	10	71	29.46	29.93		61.8	− 6.0	82	11	71	38	31	52	30				4.44	+ 1.8	16	5,788	sw.	44	sw.	25	2	11	18	7.3		
Oswego	335	76	91	29.57	29.93	− .06	64.2	− 4.6	81	11	70	46	31	58	23	60	57	78	2.81	+ 0.1	11	5,892	s.	25	nw.	26	5	13	13	6.2		
Rochester	523	86	102	29.40	29.96	− .03	65.2	− 3.1	84	14	73	47	17	58	25	59	56	76	3.13	+ 0.2	16	5,080	w.	30	nw.	26	4	14	13	6.7		
Syracuse	597	97	113	29.32	29.96	− .03	64.6	− 4.0	85	13	72	45	30	57	22	59	55	75	2.97	− 0.4	12	6,978	s.	37	nw.	26	4	17	10	6.3		
Erie	714	92	102	29.20	29.96	− .05	66.2	− 3.7	83	26	72	51	30	60	23	61	58	78	5.90	+ 2.6	16	6,620	s.	30	w.	26	1	13	17	7.1		
Cleveland	762	190	201	29.15	29.97	− .04	67.6	− 2.8	87	25	74	52	28	61	25	63	60	80	4.54	+ 1.4	16	9,094	se.	54	sw.	26	1	14	16	7.0		
Sandusky	629	62	70	29.28	29.96	− .05	69.0	− 2.5	89	25	76	53	28	62	28	63	60	77	3.57	+ 0.2	13	5,537	sw.	30	n.	21	5	16	10	6.2		
Toledo	628	208	246	29.29	29.96	− .04	68.8	− 2.1	91	31	77	49	3	60	29	63	61	79	3.48	+ 0.8	14	9,383	sw.	39	nw.	22	11	13	7	4.8		
Fort Wayne	856	113	124	29.05	29.96		69.0	− 2.1	91	31	78	47	3	59	31	63	61	79	5.04		13	5,992	sw.	40	nw.	17	11	15	5	4.3		
Detroit	730	218	256	29.18	29.96	− .05	67.4	− 3.0	90	31	75	50	3	59	29	62	59	79	4.05	+ 1.3	13	7,938	n.	33	w.	26	8	14	9	5.5		
Upper Lake region.							62.7	− 3.6										83	4.19	+ 1.2										6.8		
Alpena	609	13	92	29.29	29.96	− .04	61.0	− 2.8	86	13	68	44	30	53	30	57	55	86	5.12	+ 1.8	12	7,048	nw.	33	nw.	31	4	14	13	6.3		
Escanaba	612	48	82	29.28	29.93	− .06	59.3	− 5.2	83	13	66	42	15	53	21	56	54	82	7.46	+ 3.8	17	6,062	s.	28	ne.	2	3	9	19	7.4		
Grand Haven	632	54	92	29.26	29.92	− .07	64.4	− 3.4	84	31	71	47	5	56	26	61	59	83	3.43	− 0.2	11	6,711	s.	32	se.	28	10	14	7	5.0		
Grand Rapids	675	70	87	29.18	29.94	− .06	66.9	− 3.1	90	31	76	46	3	58	32	62	59	81	3.16	+ 0.6	10	3,881	w.	22	w.	14	7	12	12	6.3		
Lansing	863	11	62	29.01	29.94		65.7	− 2.9	89	31	75	46	3	56	38	61	59	84	2.19	− 0.4	14	3,729	nw.	22	s.	28	9	7	15	6.3		
Houghton	684	62	72	29.22	29.94	− .03	57.6	− 5.7	77	12	64	45	23	51	24				5.31	+ 2.4	16	5,792	e.	28	w.	13	3	9	19	7.6		
Marquette	734	77	116	29.17	29.96	− .02	57.7	− 5.8	80	13	63	46	30	52	24	56	54	91	5.83	+ 3.0	19	5,627	nw.	29	nw.	26	1	13	17	7.6		
Port Huron	638	78	120	29.26	29.95	− .05	65.0	− 2.3	88	26	72	48	16	57	31	60	58	82	3.67	+ 1.0	14	6,654	s.	30	nw.	26	4	16	11	6.4		
Sault Ste. Marie	614	11	61	29.27	29.96	− .03	58.0	− 2.6	80	13	65	41	16	51	28	55	53	86	6.37	+ 3.2	14	5,587	nw.	36	sw.	13	2	9	20	7.8		
Chicago	823	140	310	29.08	29.95	− .05	71.0	− 0.2	95	31	77	55	4	64	27	65	62	78	3.59	+ 0.7	9	8,235	sw.	32	sw.	24	8	15	8	5.5		
Milwaukee	681	119	133	29.20	29.94	− .06	67.0	− 1.7	89	24	74	52	4	60	28	61	58	78	2.14	− 0.7	10	6,378	ne.	42	e.	28	8	12	11	6.0		
Green Bay	617	49	86	29.26	29.92	− .07	63.8	− 3.2	86	24	71	47	4	57	28	59	57	82	3.92	+ 0.8	14	6,544	n.	29	n.	26	0	11	20	8.1		
Duluth	1,133	11	47	28.74	29.95	− .02	57.4	− 7.5	78	21	64	42	2	51	22	54	53	87	3.25	− 0.3	15	7,771	ne.	32	ne.	28	3	11	17	7.5		
North Dakota.							64.2	− 2.6										78	3.50	+ 1.2										5.5		
Moorhead	940	8	57	28.94	29.94	− .02	64.4	− 1.5	94	25	76	41	3	53	40	58	55	80	5.84	+ 2.7	14	4,618	se.	23	nw.	13	14	8	9	4.3		
Bismarck	1,674	4	57	28.18	29.94	.00	66.2	− 1.9	92	23	78	46	3	54	38	59	56	77	2.33	+ 0.4	12	6,753	nw.	50	nw.	11	12	14	5	4.8		
Devils Lake	1,482	11	44	28.36	29.92	− .02	61.6	− 3.5	84	23	71	42	2	52	33	57	54	84	2.99	+ 0.2	15	6,417	se.	34	e.	27	4	12	15	6.5		
Williston	1,896	40	47	27.93	29.88	− .05	64.6	− 3.3	87	23	75	45	26	54	29	57	53	72	2.84	+ 1.5	8	5,922	se.	28	nw.	12	6	16	9	6.3		
Upper Mississippi Valley.							71.7	− 1.2										76	3.73	+ 0.5										5.3		
Minneapolis	918	102	208				66.8		91	25	75	47	2	58	26				5.56	+ 1.9	13	7,747	n.	54	e.	19	8	12	11	5.9		
St. Paul	940	203	212	29.02	29.91	− .06	66.5	− 3.0	91	25	75	47	2	58	27	59	55	72	4.40	+ 0.9	13	8,089	n.	49	e.	19	9	15	7	5.2		
La Crosse	714	11	48	29.15	29.91	− .07	67.8	− 2.2	95	25	77	45	4	58	31				3.33	− 0.1	13	2,790	s.	14	s.	13	5	13	13	6.5		
Madison	974	70	78	28.91	29.93	− .06	67.3	− 2.3	89	25	76	50	4	59	27	62	59	79	3.16	0.0	10	5,552	sw.	43	w.	18	9	15	7	5.6		
Charles City	1,015	10	49	28.87	29.93	− .04	68.2	− 2.5	92	31	79	44	3	58	32	63	60	79	4.33	+ 0.9	14	4,287	nw.	34	w.	31	4	14	13	6.8		
Davenport	606	71	79	29.28	29.93	− .05	72.8	− 0.2	95	31	82	48	4	63	27	65	61	73	2.77	− 0.9	7	4,893	sw.	24	sw.	24	11	11	9	4.9		
Des Moines	861	84	101	29.02	29.90	− .07	72.7	− 0.3	97	25	82	52	4	63	33	65	62	73	3.52	− 0.1	12	5,020	sw.	32	ne.	12	12	9	10	5.1		
Dubuque	698	81	96	29.20	29.93	− .05	69.7	− 2.3	92	25	78	47	4	61	27	63	60	75	6.79	+ 3.8	10	3,682	s.	20	nw.	18	9	10	12	5.9		
Keokuk	614	64	78	29.28	29.94	− .04	74.0	− 0.6	93	25	83	52	4	65	27	65	65	77	2.50	− 0.7	12	4,720	sw.	28	w.	28	14	9	8	4.6		
Cairo	350	87	93	29.60	29.97	− .02	76.4	− 0.6	93	28	85	54	4	68	25	71	69	82	2.28	− 0.6	11	5,542	sw.	36	w.	20	14	9	8	4.5		
La Salle	536	56	64	29.30	29.96	− .03	71.1	− 0.9	95	31	81	46	4	61	28				4.35	+ 1.5	6	4,909	sw.	25	sw.	24	9	13	9	5.4		
Peoria	609	11	45	29.30	29.96	− .03	72.4	− 0.1	95	31	83	44	4	62	29	65	62	78	1.67	− 1.3	10	4,279	s.	22	s.	24	8	16	7	5.2		
Springfield, Ill	644	10	91	29.28	29.96	− .03	74.2	+ 0.2	94	28	84	51	4	65	30	66	63	74	2.87	+ 0.1	14	5,532	sw.	40	sw.	25	14	7	10	4.8		
Hannibal	534	74	109	29.37	29.93	− .05	74.4	− 0.6	95	28	84	50	5	65	29				5.71	+ 2.3	15	5,976	sw.	40	w.	28	15	8	8	4.3		
St. Louis	567	208	317	29.36	29.96	− .03	76.2	− 1.0	95	28	84	55	3	68	25	68	64	72	2.65	0.0	14	6,780	s.	35	nw.	28	12	11	8	4.8		
Missouri Valley.							74.1	+ 0.3										68	3.80	+ 0.4										3.8		
Columbia, Mo	784	11	84	29.13	29.94	− .03	75.8	+ 1.1	97	28	86	51	4	66	27				4.91	+ 1.9	15	4,943	s.	39	sw.	13	16	6	9	4.5		
Kansas City	963	161	181	28.91	29.91	− .06	77.2	+ 1.4	98	28	86	58	3	68	25	68	64	69	3.75	− 1.0	10	7,763	s.	42	n.	7	19	4	8	3.4		
St. Joseph	967	11	49	28.89	29.90		77.6		99	28	87	55	3	67	29	68	64	72	4.23		11	5,207	s.	29	nw.	28	17	7	7	3.8		
Springfield, Mo	1,324	98	104	28.60	29.97	.00	76.3	+ 1.5	94	28	86	53	4	66	23	67	63	70	3.00	− 1.3	5	6,362	s.	34	nw.	20	23	2	6	2.5		
Iola	984	11	50	28.91	29.92	− .04	79.1	+ 2.8	100	28	91	54	4	67	34				3.78	+ 0.3	8	4,608	s.	23	nw.	20	17	13	1	2.9		
Topeka	983	85	101				78.6	+ 2.6	101	28	89	56	4	68	29				3.03	− 1.3	9	6,889	s.	44	w.	20	20	10	1	2.8		
Lincoln	1,189	11	84	28.65	29.88	− .07	75.4	+ 1.1	102	25	87	55	3	64	39	65	60	67	4.16	+ 0.4	10	6,744	e.	46	nw.	12	11	14	6	4.6		
Omaha	1,105	115	121	28.95	29.90	− .06	75.3	+ 0.9	98	25	85	58	9	66	34	65	61	67	4.78	+ 1.2	10	4,951	s.	32	sw.	31	10	10	11	5.3		
Valentine	2,598	47	54	27.26	29.94	.00	69.0	− 2.3	100	25	82	47	9	56	46	59	53	66	2.60	− 0.3	14	6,622	n.	36	nw.	29	13	17	1	3.5		
Sioux City	1,135	94	164	28.72	29.90	− .05	71.4	− 1.2	97	25	82	53	2	61	35	64	60	72	7.03	+ 4.0	13	7,356	nw.	41	nw.	6	19	7	5	3.5		
Pierre	1,572	70	75	28.29	29.93	− .01	71.0	− 2.1	99	27	83	54	9	60	38	60	53	60	3.85	+ 1.8	11	7,110	e.	60	ne.	11	14	10	7	4.6		
Huron	1,306	56	67	28.55	29.92	− .03	68.6	− 0.5	100	25	81	48	14	56	47	60	55	69	2.41	− 0.2	11	6,250	se.	37	n.	11	16	10	5	3.9		
Yankton	1,233	49	57	28.61	29.91	− .04	71.1	− 1.7	96	25	82	53	14	60	37				2.36	− 0.8	8	4,627	ne.	32	w.	6	15	10	6	4.1		
Northern Slope.							64.1	− 2.6										62	1.53	+ 0.3										4.4		
Havre	2,505	11	44	27.29	29.88	− .03	62.6	− 4.3	90	24	74	40	17	51	38	56	52	74	2.24	+ 1.0	12	5,620	sw.	30	sw.	9	11	14	6	5.0		
Miles City	2,371	26	48	27.41	29.92	− .01	68.8	− 2.7	94	24	81	48	13	56	39	59	53	63	1.19	+ 0.2	7	4,080	ne.	28	n.	27	16	12	3	3.4		
Helena	4,221	87	114	25.79	29.91	− .03	62.6	− 3.5	90	24	74	38	30	51	36	51	43	56	1.60	+ 0.9	10	6,110	sw.	44	sw.	9	11	10	10	5.3		
Kalispell	2,962	11	34	26.90	29.92	− .01	59.8	− 3.1	88	24	72	33	30	48	44	51	45	66	1.03	+ 0.1	9	3,217	w.	26	sw.	15	10	13	8	5.1		
Rapid City	3,234	46	50	26.60	29.95	+ .02	67.6	− 1.2	93	27	79	49	3	56	33	57	49	60	2.86	+ 0.8	12	5,189	w.	35	sw.	18	19	7	5	3.5		
Cheyenne	6,088	56	64	24.08	29.92	.00	65.4	− 0.4	89	26	78	41	9	52	38	52	45	58	1.44	0.0	9	6,221	nw.	30	w.	6	8	20	3	4.6		
Lander	5,372	60	68	24.68	29.92	.00	64.1	− 1.6	92	26	80	38	19	48	44	51	42	51	0.52	0.0	7	4,247	w.	46	sw.	27	15	13	3	3.7		
Sheridan	3,790	9	47	26.09	29.93		63.6		89	24	79	41	31	49	43	53	47	64	1.18		11	3,917	se.	34	se.	14	15	8	8	4.4		
Yellowstone Park	6,200	11	48	23.93	29.94	+ .01	55.7	− 5.2	83	26	69	32	30	42	41	46	39	60	1.66	+ 0.6	14	5,353	sw.	48	s.	31	12	10	9	4.6		
North Platte	2,821	11	51	27.05	29.93	− .01	70.7	− 1.5	98	25	84	50	9	58	44	61	57	71	1.27	− 1.2	5	4,302	se.	22	s.	29	13	14	4	4.5		
Middle Slope.							75.6	+ 0.4										66	3.44	+ 1.0										3.8		
Denver	5,291	129	136	24.77	29.92	.00	70.2	− 0.2	94	26	84	47	9	57	41	56	47	54	1.07	− 0.3	8	4,926	sw.	36	ne.	7	13	15	3	4.3		
Pueblo	4,685	80	86	25.31	29.90	− .01	72.0	− 0.1	96	25	86	50	9	58	41	58	51	59	1.85	+ 0.3	7	4,215	se.	31	nw.	30	15	13	3	3.6		
Concordia	1,398	42	50	28.46	29.90	− .05	77.2	+ 0.7	101	25	88	55	1	66	35	67	63	69	5.18	+ 2.4	11	4,826	s.	51	ne.	5	9	16	6	4.8		
Dodge City	2,509	11	51	27.37	29.91	− .02	76.5	0.0	98	26	88	56	9	65	34	66	62	71	5.80	+ 3.2	8	7,260	s.	42	nw.	7	17	10	4	4.0		
Wichita	1,364	139	158	28.50	29.90	− .05	78.2	+ 0.7	100	28	89	58	3	68	30	69	66	71	3.14	0.0	9	9,172	s.	48	nw.	13	17	13	1	3.4		
Oklahoma	1,214	10	47	28.69	29.93	− .01	79.5	+ 1.0	98	27	89	62	9	70	27	70	66	73	3.61	+ 0.4	6	9,657	s.	52	n.	8	20	7	4	2.9		

TABLE I.—*Climatological data for United States Weather Bureau stations, August, 1912*—Continued.

Districts and stations.	Elevation of instruments.			Pressure in inches.			Temperature of the air in degrees Fahrenheit.									Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity, per cent.	Precipitation, inches.			Wind.					Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
	Barometer above sea level, feet.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.				Total.	Departure from normal.	Days with 0.01 or more.	Total movement, miles.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.						
Southern Slope.							**81.5**	**+ 2.4**										**62**	**1.86**	**− 0.2**										**3.6**		
Abilene	1,738	10	52	28.16	29.91	− .01	84.1	+ 2.9	100	8	95	64	9	73	30	69	63	56	2.81	+ 0.8	7	7,682	s.	26	s.	11	18	12	1	3.4	.....	.....
Amarillo	3,676	10	49	26.28	29.92	.00	76.4	+ 1.8	97	26	89	55	9	64	32	64	59	64	2.28	− 0.5	7	8,416	sw.	40	nw.	10	21	9	1	3.3	.....	.....
Del Rio	944	8	57	28.93	29.88	− .02	88.6	+ 4.6	106	1	100	74	17	77	27	.....	.....	.....	0.17	− 2.5	1	7,127	se.	32	ne.	23	20	11	0	2.7	.....	.....
Roswell	3,578	9	57	26.37	29.90	+ .02	77.0	+ 0.4	97	11	90	56	30	63	34	64	59	66	2.18	+ 1.3	10	3,725	s.	27	sw.	2	9	20	2	4.9	.....	.....
Southern Plateau.							**75.9**	**− 1.4**										**46**	**0.96**	**− 0.1**										**2.8**		
El Paso	3,762	110	133	26.17	29.83	− .01	77.8	− 0.8	100	8	89	61	30	67	30	63	55	57	2.83	+ 1.1	17	6,431	e.	51	ne.	22	9	20	2	4.2	.....	.....
Santa Fe	7,013	8	56	23.35	29.86	− .03	67.2	+ 0.2	87	26	79	50	9	56	36	53	45	54	1.15	− 1.2	11	4,844	se.	31	sw.	11	13	15	3	4.3	.....	.....
Flagstaff	6,907	8	57	.....	.....	.....	61.2	− 1.6	82	8	75	40	15	47	39	.....	.....	.....	0.61	.....	7	.....	w.	.....	.....	.....	13	15	3	.....	.....	.....
Phoenix	1,108	50	56	28.67	29.79	.00	86.2	− 2.8	108	7	99	69	15	74	36	68	57	44	0.72	− 0.2	4	2,895	e.	40	ne.	12	18	10	3	3.3	.....	.....
Yuma	141	9	58	29.62	29.76	.00	88.8	− 1.3	113	6	104	66	19	74	42	71	62	50	0.14	− 0.2	2	4,430	sw.	26	se.	26	27	4	0	0.9	.....	.....
Independence	3,910	11	42	25.93	29.83	+ .02	74.0	− 2.4	100	7	90	51	29	58	39	53	31	25	0.00	− 0.1	0	4,607	s.	28	s.	28	29	2	0	1.4	.....	.....
Middle Plateau.							**68.5**	**− 2.2**										**41**	**0.83**	**− 0.1**										**2.7**		
Reno	4,532	56	63	25.46	29.88	+ .04	66.3	− 0.7	93	23	83	37	30	49	44	50	38	43	0.96	+ 0.7	2	5,133	w.	37	w.	26	25	5	1	1.9	.....	.....
Tonopah	6,090	12	20	24.07	29.85	.....	69.6	.....	89	7	81	46	18	58	31	49	29	24	0.00	− 0.4	0	5,840	se.	26	nw.	13	26	5	0	1.5	.....	.....
Winnemucca	4,344	18	56	25.60	29.91	+ .03	66.7	− 4.1	96	23	86	36	31	48	48	50	37	41	0.13	0.0	2	4,052	sw.	35	sw.	2	22	5	4	2.5	.....	.....
Modena	5,479	10	43	24.64	29.87	+ .01	66.8	− 1.8	92	23	83	44	19	50	45	50	35	40	0.13	− 1.7	3	8,991	sw.	50	sw.	17	23	7	1	2.5	.....	.....
Salt Lake City	4,360	147	189	25.59	29.86	− .05	72.5	− 3.0	94	9	84	49	18	61	31	56	44	41	0.70	− 0.1	8	5,446	nw.	49	sw.	2	19	9	3	2.6	.....	.....
Durango	6,546	18	56	23.74	29.90	.00	64.5	− 1.8	88	9	80	44	8	49	44	51	42	56	2.57	+ 0.8	10	3,743	nw.	25	sw.	26	12	16	3	4.3	.....	.....
Grand Junction	4,602	43	51	25.37	29.89	− .01	74.4	− 1.7	97	26	88	54	8	60	38	55	42	39	1.35	+ 0.3	8	3,800	se.	23	nw.	15	19	9	3	3.3	.....	.....
Northern Plateau.							**66.0**	**− 4.4**										**52**	**1.49**	**+ 1.1**										**4.6**		
Baker	3,466	48	53	26.45	30.00	+ .05	59.9	− 5.0	88	24	74	31	30	46	40	50	43	60	1.69	+ 1.3	8	4,232	se.	21	se.	14	12	9	10	4.3	.....	.....
Boise	2,739	78	86	27.12	29.92	− .01	68.1	− 3.7	96	8	82	40	30	54	37	54	42	46	0.07	− 0.1	3	3,554	nw.	27	nw.	15	14	9	8	4.2	.....	.....
Lewiston	757	10	51	29.14	29.93	− .02	68.6	− 4.9	98	23	82	42	30	55	42	.....	.....	.....	1.25	+ 0.9	9	3,766	e.	48	w.	8	14	4	13	5.1	.....	.....
Pocatello	4,477	46	54	25.47	29.91	− .01	65.8	− 4.7	92	24	80	40	30	52	41	53	43	52	1.19	+ 0.6	7	4,910	se.	41	s.	26	15	11	5	3.9	.....	.....
Spokane	1,929	101	110	27.92	29.94	− .01	64.2	− 3.7	92	23	76	46	30	53	37	53	44	56	2.06	+ 1.6	10	4,366	sw.	25	sw.	24	9	10	12	5.8	.....	.....
Walla Walla	1,045	107	115	28.89	29.95	− .01	69.6	− 4.2	99	23	81	48	30	58	33	56	44	45	2.67	+ 2.2	8	5,106	sw.	39	ne.	14	16	7	8	4.0	.....	.....
North Pacific Coast Region.							**60.5**	**− 0.6**										**79**	**2.86**	**+ 2.3**										**5.7**		
North Head	211	11	56	29.80	30.02	− .01	58.0	+ 0.1	73	21	61	52	30	55	18	56	55	90	3.20	+ 2.6	11	9,740	nw.	54	se.	30	8	12	11	5.9	.....	.....
Port Crescent	259	8	53	29.77	30.04	+ .02	54.8	− 1.4	76	21	63	36	28	47	29	.....	.....	.....	2.59	+ 1.9	10	3,226	nw.	16	nw.	3	6	16	9	6.0	.....	.....
Seattle	205	215	250	29.89	30.02	+ .02	62.2	− 0.9	83	22	69	48	28	55	25	57	53	77	2.49	+ 2.0	11	5,389	s.	30	s.	16	7	9	15	6.4	.....	.....
Tacoma	213	113	120	29.79	30.01	− .01	61.8	− 1.2	85	21	70	45	28	53	32	56	52	74	3.44	+ 2.7	8	4,092	n.	26	sw.	31	6	12	13	6.1	.....	.....
Tatoosh Island	109	7	57	29.91	30.00	.00	55.6	+ 0.3	73	21	60	47	28	51	21	54	53	93	4.33	+ 2.2	12	7,563	s.	40	s.	30	8	11	12	5.9	.....	.....
Portland, Oreg.	153	68	106	29.83	29.99	− .02	65.8	− 0.1	93	7	75	50	29	56	33	59	54	71	3.39	+ 2.7	11	4,407	nw.	27	sw.	15	13	3	15	5.7	.....	.....
Roseburg	510	9	57	29.46	30.01	+ .01	65.1	− 1.1	94	21	78	40	29	52	39	57	52	68	0.59	+ 0.3	6	2,314	nw.	20	sw.	15	16	7	8	4.2	.....	.....
Middle Pacific Coast Region.							**64.3**	**− 0.6**										**64**	**0.01**	**0.0**										**3.4**		
Eureka	80	73	89	29.99	30.06	+ .06	57.2	+ 1.4	67	31	62	48	30	53	18	55	54	91	0.08	0.0	3	3,734	n.	25	n.	16	6	8	17	6.8	.....	.....
Mount Tamalpais	2,375	11	18	27.52	29.96	+ .03	64.4	− 1.5	87	6	72	46	29	57	20	53	44	51	0.01	0.0	0	13,141	nw.	75	nw.	28	28	3	0	0.8	.....	.....
Point Reyes Light	490	7	18	29.42	29.93	.....	54.7	+ 0.2	64	27	58	49	6	51	14	.....	.....	.....	0.00	.....	0	19,967	nw.	74	nw.	15	11	10	10	5.4	.....	.....
Red Bluff	332	50	56	29.52	29.86	.00	76.9	− 4.1	102	6	91	54	29	62	37	59	44	37	0.00	0.0	0	3,765	se.	24	n.	16	24	7	0	1.7	.....	.....
Sacramento	69	106	117	29.81	29.88	+ .03	71.6	− 0.5	101	6	87	50	30	56	39	60	54	60	0.00	0.0	0	6,214	s.	25	sw.	26	31	0	0	0.1	.....	.....
San Francisco	155	200	204	29.79	29.96	+ .04	59.9	+ 1.9	77	7	66	50	5	53	25	54	51	80	0.00	0.0	0	8,262	w.	34	sw.	7	20	8	3	2.6	.....	.....
San Jose	141	12	110	29.81	29.96	.....	65.1	− 1.6	90	7	79	44	30	51	40	.....	.....	.....	0.00	0.0	0	4,691	nw.	23	nw.	17	27	4	0	1.4	.....	.....
Southeast Farallon	30	9	17	29.96	29.98	.....	55.2	.....	63	26	57	50	3	53	10	.....	.....	.....	0.00	0.0	0	12,713	nw.	49	nw.	15	14	12	5	3.9	.....	.....
South Pacific Coast Region.							**69.1**	**− 1.4**										**66**	**0.06**	**+ 0.1**										**2.2**		
Fresno	330	62	70	29.52	29.86	+ .04	77.7	− 3.5	106	7	94	54	30	61	39	58	42	36	0.00	0.0	0	4,725	w.	16	nw.	8	31	0	0	0.1	.....	.....
Los Angeles	338	159	191	29.55	29.91	+ .03	69.2	+ 0.6	88	7	79	52	3	60	32	61	57	73	0.00	0.0	0	3,576	s.	15	s.	17	19	12	0	2.7	.....	.....
San Diego	87	94	102	29.83	29.92	+ .03	66.4	− 2.3	79	7	71	56	5	62	22	62	60	81	0.26	+ 0.3	2	4,377	sw.	18	nw.	14	19	11	1	3.3	.....	.....
San Luis Obispo	201	47	54	29.74	29.96	+ .02	63.2	− 0.3	94	6	76	46	31	50	45	54	50	72	0.00	0.0	0	3,440	nw.	24	nw.	29	23	6	2	2.6	.....	.....
West Indies.																																
San Juan	82	48	90	29.94	30.02	+ .05	81.0	.....	88	17	86	73	14	76	14	.....	.....	.....	3.74	− 3.7	20	8,241	e.	31	s.	18	17	8	6	4.3		
Panama.																																
Ancon	92	6	69	.....	29.82	.....	80.2	.....	94	31	88	69	7	72	21	75	75	90	6.33	− 1.2	20	5,024	nw.	24	n.	18	1	14	16	7.3	.....	.....
Culebra	404	5	62	.....	29.84	.....	79.5	.....	92	8	87	69	12	72	19	74	73	92	12.88	+ 2.3	19	4,592	nw.	33	ne.	12	2	12	17	7.3	.....	.....
Colon	10	5	71	.....	29.85	.....	80.2	.....	89	9	84	72	7	76	14	76	75	87	9.87	− 5.1	20	6,892	n.	29	w.	19	1	18	12	6.8	.....	.....

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during August, 1912, at all stations furnished with self-registering gages.*

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Abilene, Tex.	9	8.35 a.m.	9.35 a.m.	0.78	9.06 a.m.	9.23 a.m.	0.09	0.09	0.35	0.66	0.69										
	21–22	7.30 p.m.	D.N.a.m.	1.44	11.05 p.m.	11.39 p.m.	0.28	0.07	0.16	0.27	0.41	0.52	0.59	0.64							
Albany, N. Y.	26	12.29 p.m.	1.05 p.m.	0.83	12.29 p.m.	12.54 p.m.	0.00	0.12	0.39	0.52	0.61	0.82									
Alpena, Mich.	9			1.52														0.49			
Amarillo, Tex.	4	9.50 p.m.	5.00 a.m.	0.90	10.12 p.m.	10.27 p.m.	0.04	0.21	0.32	0.37											
Anniston, Ala.	8			1.02														0.42			
Asheville, N. C.	15	4.50 p.m.	5.20 p.m.	0.36	5.00 p.m.	5.08 p.m.	0.01	0.21	0.34												
Atlanta, Ga.	7	9.50 a.m.	11.25 a.m.	0.66	10.39 a.m.	11.05 a.m.	0.04	0.05	0.03	0.33	0.46	0.57	0.61								
	9	5.08 p.m.	7.15 p.m.	0.88	5.50 p.m.	6.00 p.m.	0.04	0.22	0.53												
Atlantic City, N. J.	17–18	11.20 p.m.	6.45 a.m.	1.95	3.32 a.m.	3.48 a.m.	0.87	0.12	0.32	0.54	0.56										
	19	3.20 p.m.	4.04 p.m.	0.64	3.29 p.m.	3.46 p.m.	0.01	0.16	0.24	0.55	0.62										
Augusta, Ga.	8	12.58 p.m.	4.30 p.m.	2.24	1.13 p.m.	1.47 p.m.	0.04	0.06	0.19	0.37	0.63	0.88	1.00	1.05							
					2.41 p.m.	2.55 p.m.	1.35	0.35	0.59	0.66											
Do.	9	1.26 p.m.	2.40 p.m.	1.13	1.29 p.m.	2.19 p.m.	0.01	0.28	0.64	0.64	0.64	0.64	0.64	0.65	0.78	0.92	1.06				
Do.	9	3.20 p.m.	4.30 p.m.	0.80	3.23 p.m.	3.42 p.m.	0.01	0.24	0.47	0.68	0.74										
Do.	25	2.40 p.m.	7.30 p.m.	0.57	3.13 p.m.	3.41 p.m.	0.01	0.13	0.23	0.32	0.36	0.44	0.50								
Baker, Oreg.	3	10.10 a.m.	2.20 p.m.	0.57	10.21 a.m.	10.31 a.m.	0.01	0.23	0.30												
Baltimore, Md.	10	9.42 p.m.	10.20 p.m.	0.86	9.48 p.m.	10.05 p.m.	0.01	0.19	0.54	0.78	0.84										
Bentonville, Ark.	2	2.30 p.m.	3.35 p.m.	0.77	2.40 p.m.	3.07 p.m.	0.01	0.16	0.35	0.41	0.52	0.68	0.72								
	21	7.35 a.m.	9.45 a.m.	0.70	8.10 a.m.	8.25 a.m.	0.01	0.15	0.36	0.54											
Binghamton, N. Y.	18	2.15 p.m.	2.45 p.m.	0.63	2.22 p.m.	2.38 p.m.	0.03	0.12	0.30	0.55	0.60										
Do.	10	9.30 a.m.	4.30 p.m.	1.91	11.38 a.m.	12.35 p.m.	0.35	0.36	0.47	0.60	0.67	0.76	0.94	1.01	1.07	1.09	1.16	1.25			
Do.	21	8.30 a.m.	10.15 a.m.	1.23	8.56 a.m.	9.25 a.m.	0.02	0.08	0.51	0.74	0.91	1.05	1.18								
Birmingham, Ala.	8	3.15 a.m.	9.37 a.m.	2.82	7.01 a.m.	8.18 a.m.	0.96	0.06	0.11	0.25	0.43	0.60	0.86	1.03	1.16	1.30	1.39	1.43	1.86		
Bismarck, N. Dak.	19			0.64														0.31			
Block Island, R. I.	11	9.18 a.m.	10.40 a.m.	0.55	9.20 a.m.	9.32 a.m.	T.	0.15	0.35	0.38											
Boise, Idaho.	31			0.04														0.02			
Boston, Mass.	11			0.66														0.42			
Buffalo, N. Y.	2	3.22 p.m.	5.05 p.m.	1.49	3.32 p.m.	4.17 p.m.	T.	0.19	0.59	0.72	0.82	0.94	1.11	1.19	1.27	1.38					
Burlington, Vt.	26			0.73														0.49			
Cairo, Ill.	12	1.14 p.m.	4.25 p.m.	0.64	1.24 p.m.	1.41 p.m.	0.01	0.23	0.41	0.48	0.53										
Canton, N. Y.	26	7.45 p.m.	9.30 p.m.	0.59	8.28 p.m.	8.39 p.m.	0.01	0.34	0.50	0.54											
Charles City, Iowa.	31	9.00 p.m.	11.55 p.m.	0.86	9.13 p.m.	9.32 p.m.	0.09	0.15	0.42	0.50	0.61										
Charleston, S. C.	16	11.35 a.m.	2.30 p.m.	0.77	11.55 a.m.	12.22 p.m.	0.02	0.13	0.44	0.53	0.61	0.67	0.70								
Charlotte, N. C.	25			0.45														0.37			
Chattanooga, Tenn.	17	12.09 p.m.	1.35 p.m.	2.34	12.25 p.m.	1.07 p.m.	0.02	0.25	0.48	0.78	1.23	1.46	1.80	2.10	2.22	2.27					
	22	1.45 a.m.	5.20 a.m.	2.98	2.09 a.m.	2.54 a.m.	0.04	0.51	0.71	0.78	0.84	1.04	1.33	1.84	2.30	2.46					
Cheyenne, Wyo.	18	5.35 p.m.	6.45 p.m.	0.62	6.16 p.m.	6.39 p.m.	0.07	0.18	0.40	0.43	0.47	0.54									
Chicago, Ill.	9	5.47 p.m.	8.34 p.m.	1.12	6.02 p.m.	6.42 p.m.	0.02	0.06	0.20	0.29	0.36	0.59	0.79	0.96	1.01						
Cincinnati, Ohio.	9	10.25 a.m.	12.10 p.m.	1.35	11.13 a.m.	11.50 a.m.	0.07	0.20	0.55	0.75	0.80	0.83	0.91	1.07	1.17						
Cleveland, Ohio.	20	8.40 p.m.	9.10 p.m.	0.72	8.43 p.m.	9.01 p.m.	0.01	0.22	0.36	0.59	0.68										
	26	5.01 a.m.	5.56 a.m.	0.80	5.05 a.m.	5.34 a.m.	0.01	0.27	0.41	0.50	0.59	0.71	0.76								
Columbia, Mo.	13			0.89														0.68			
Columbia, S. C.	18	6.28 p.m.	7.04 p.m.	0.76	6.42 p.m.	7.03 p.m.	0.08	0.07	0.23	0.41	0.63	0.68									
	19	7.29 p.m.	8.55 p.m.	1.34	7.36 p.m.	8.36 p.m.	0.01	0.08	0.23	0.49	0.71	0.82	0.91	0.99	1.04	1.08	1.13	1.28			
Columbus, Ohio.	31	3.12 p.m.	4.22 p.m.	0.44	3.40 p.m.	3.50 p.m.	0.08	0.15	0.34												
Concord, N. H.	1			0.82														0.62			
Concordia, Kans.	14	2.58 a.m.	8.07 a.m.	0.58	3.00 a.m.	3.10 a.m.	0.01	0.23	0.30												
Corpus Christi, Tex.	18			0.02														0.02			
Davenport, Iowa.	19	D.N.a.m.	11.58 a.m.	2.09	5.39 a.m.	6.08 a.m.	0.02	0.15	0.30	0.36	0.41	0.49	0.53								
Dayton, Ohio.	28	8.18 p.m.	D.N.p.m.	2.47	8.29 p.m.	9.02 p.m.	0.01	0.05	0.12	0.22	0.35	0.41	0.53	0.56							
					10.07 p.m.	11.09 p.m.	0.77	0.10	0.33	0.34	0.38	0.46	0.58	0.66	0.71	0.88	1.17	1.66	1.70		
Del Rio, Tex.	23			0.17														0.11			
Denver, Colo.	14			0.42														0.32			
Des Moines, Iowa.	17			0.73														0.46			
Detroit, Mich.	19	D.N.a.m.	D.N.a.m.	0.44	12.52 a.m.	1.03 a.m.	0.01	0.08	0.36	0.41											
Devils Lake, N. Dak.	8			0.34														0.30			
Dodge City, Kans.	7	6.10 p.m.	8.45 p.m.	2.59	7.15 p.m.	8.45 p.m.	0.08	0.05	0.10	0.22	0.38	0.63	0.86	1.09	1.27	1.36	1.50	1.86	2.47		
	14–15	10.10 p.m.	D.N.a.m.	1.17	10.14 p.m.	10.54 p.m.	T.	0.11	0.32	0.42	0.49	0.56	0.61	0.64	0.66						
Dubuque, Iowa.	18–19	6.52 p.m.	8.22 a.m.	5.23	7.16 p.m.	8.12 p.m.	0.19	0.10	0.22	0.41	0.58	0.76	1.00	1.42	1.71	1.82	1.85	1.94			
					9.06 p.m.	9.54 p.m.	2.31	0.20	0.49	0.56	0.60	0.65	0.69	0.79	0.92	1.05	1.08				
Duluth, Minn.	30			0.67														0.24			
Durango, Colo.	30	10.23 a.m.	11.24 a.m.	0.52	10.28 a.m.	10.43 a.m.	0.01	0.17	0.32	0.37											
Eastport, Me.	23	3.50 p.m.	5.15 p.m.	0.79	4.19 p.m.	4.45 p.m.	0.07	0.11	0.33	0.48	0.55	0.65	0.67								
Elkins, W. Va.	21	2.21 p.m.	5.02 p.m.	0.80	3.51 p.m.	4.20 p.m.	0.14	0.09	0.21	0.34	0.45	0.56	0.62								
El Paso, Tex.	24			0.60														0.36			
Erie, Pa.	19	D.N.a.m.	7.00 a.m.	1.02	4.22 a.m.	4.55 a.m.	0.04	0.24	0.44	0.45	0.47	0.55	0.65	0.70							
	26	7.25 p.m.	8.55 p.m.	0.72	7.25 p.m.	7.42 p.m.	0.00	0.12	0.18	0.48	0.57										
Escanaba, Mich.	8–9	10.15 p.m.	D.N.a.m.	0.89	3.11 a.m.	3.41 a.m.	0.17	0.08	0.26	0.43	0.53	0.59	0.69								
	**31–1	8.30 p.m.	D.N.a.m.	1.09	9.54 p.m.	10.13 p.m.	0.01	0.13	0.34	0.45	0.52										
Eureka, Cal.	31			0.04														0.04			
Evansville, Ind.	22	7.36 p.m.	8.35 p.m.	0.85	7.39 p.m.	8.04 p.m.	0.01	0.21	0.36	0.57	0.72	0.79									
Flagstaff, Ariz.	24			0.29														(*)			
Fort Smith, Ark.	2	3.26 p.m.	4.45 p.m.	0.70	3.36 p.m.	4.00 p.m.	0.01	0.19	0.35	0.47	0.62	0.66									
Fort Wayne, Ind.	17–18	11.15 p.m.	D.N.a.m.	1.73	11.15 p.m.	11.30 p.m.	0.00	0.19	0.44	0.51											
					1.07 a.m.	1.23 a.m.	0.73	0.17	0.39	0.58	0.61										
Fort Worth, Tex.	1	7.42 a.m.	12.50 p.m.	1.34	8.36 a.m.	9.10 a.m.	0.05	0.07	0.20	0.47	0.77	1.10	1.18	1.21							
Do.	5–6	11.54 p.m.	7.35 a.m.	2.74	12.08 a.m.	1.24 a.m.	0.02	0.20	0.41	0.49	0.51	0.55	0.60	0.65	0.78	1.00	1.22	1.44	1.86		
Do.	21–22	11.10 p.m.	5.50 a.m.	1.38	1.03 a.m.	1.32 a.m.	0.06	0.06	0.14	0.28	0.44	0.55	0.63								
Fresno, Cal.	(‡)																				
Galveston, Tex.	14	D.N.a.m.	D.N.a.m.	0.57	3.24 a.m.	3.41 a.m.	0.02	0.23	0.38	0.51	0.54										
Grand Haven, Mich.	19			0.55														0.32			
Grand Junction, Colo.	15			0.76														0.32			
Grand Rapids, Mich.	8–9	3.50 p.m.	5.55 a.m.	0.82	4.33 p.m.	4.39 p.m.	0.01	0.35	0.39												
Green Bay, Wis.	17			0.70														0.39			
Hannibal, Mo.	15	5.20 a.m.	12.25 p.m.	0.81	8.48 a.m.	9.05 a.m.	0.19	0.20	0.33	0.46	0.52										
	28	7.05 p.m.	D.N.p.m.	0.95	7.14 p.m.	7.31 p.m.	0.01	0.26	0.52	0.69	0.74										
Harrisburg, Pa.	10	3.05 p.m.	6.12 p.m.	0.72	3.13 p.m.	3.39 p.m.	0.02	0.22	0.34	0.42	0.47	0.58	0.63								
Hartford, Conn.	18			1.38														0.40			
Hatteras, N. C.	14	5.03 a.m.	5.35 a.m.	1.04	5.05 a.m.	5.23 a.m.	0.01	0.16	0.46	0.90	0.98										
Havre, Mont.	18			0.58														0.23			
Helena, Mont.	18			0.79														0.19			
Houghton, Mich.	24			0.75														0.42			
Houston, Tex.	31	11.26 a.m.	3.52 p.m.	1.46	3.17 p.m.	3.35 p.m.	0.96	0.15	0.31	0.44	0.49										
Huron, S. Dak.	11	8.45 p.m.	D.N.p.m.	0.56	9.03 p.m.	9.17 p.m.	0.01	0.19	0.29	0.38											
Independence, Cal.	(‡)																				

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during August, 1912, at all stations furnished with self-registering gages*—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Jacksonville, Fla	1	9.50 a.m.	10.45 a.m.	0.68	9.59 a.m.	10.14 a.m.	0.01	0.11	0.33	0.60											
Do	6	11.43 a.m.	3.15 p.m.	0.94	11.43 a.m.	Noon.	0.00	0.34	0.53	0.63	0.65										
Do	24	12.07 p.m.	12.48 p.m.	1.15	12.17 p.m.	12.34 p.m.	0.01	0.36	0.81	1.08	1.13										
Kalispell, Mont	1			0.51														0.13			
Kansas City, Mo	7	7.28 p.m.	9.20 p.m.	1.29	7.47 p.m.	8.47 p.m.	0.05	0.09	0.13	0.23	0.42	0.61	0.79	0.89	0.94	0.98	1.08	1.18			
Keokuk, Iowa	20	6.45 a.m.	6.57 a.m.	0.33	6.45 a.m.	6.57 a.m.	0.00	0.15	0.30	0.33											
Key West, Fla	27			0.40														0.40			
Knoxville, Tenn	9	2.35 p.m.	3.06 p.m.	0.51	2.53 p.m.	2.59 p.m.	0.01	0.42	0.48												
	21	1.51 p.m.	3.18 p.m.	0.50	2.10 p.m.	2.19 p.m.	0.01	0.31	0.46												
La Crosse, Wis	30			1.17														0.54			
Lander, Wyo	17			0.24														0.12			
Lansing, Mich	19			0.50														0.30			
La Salle, Ill	19-20	6.50 p.m.	D. N. a.m.	0.83	10.45 p.m.	10.54 p.m.	0.44	0.26	0.36												
Lewiston, Idaho	3			0.25														0.13			
Lexington, Ky	9			0.53														0.26			
Lincoln, Nebr	5	3.30 a.m.	6.35 a.m.	0.99	4.59 a.m.	5.39 a.m.	0.25	0.16	0.24	0.29	0.36	0.43	0.50	0.53	0.60						
	15-16	8.55 p.m.	8.15 a.m.	2.12	12.56 a.m.	1.16 a.m.	0.56	0.27	0.58	0.73	0.92										
Little Rock, Ark	21	7.34 p.m.	D. N. p.m.	1.48	8.05 p.m.	8.57 p.m.	0.02	0.17	0.26	0.47	0.79	0.87	0.87	0.87	0.89	1.19	1.32	1.36			
	26	1.30 p.m.	2.40 p.m.	1.30	1.42 p.m.	2.20 p.m.	0.02	0.22	0.41	0.66	0.90	1.03	1.11	1.17	1.23						
Los Angeles, Cal	(‡)																				
Louisville, Ky	28-29	11.50 p.m.	D. N. a.m.	1.00	12.05 a.m.	12.27 a.m.	0.02	0.15	0.21	0.34	0.41	0.46									
Lynchburg, Va	26	6.10 p.m.	6.45 p.m.	0.32	6.27 p.m.	6.37 p.m.	0.01	0.14	0.31												
Macon, Ga	1	6.23 p.m.	7.05 p.m.	0.40	6.27 p.m.	6.37 p.m.	0.01	0.21	0.37												
Madison, Wis	1			0.78														0.42			
Marquette, Mich	9-10	12.01 a.m.	5.00 a.m.	2.57	7.46 a.m.	8.41 a.m.	0.38	0.06	0.11	0.13	0.17	0.20	0.26	0.44	0.54	0.58	0.75	0.83			
Memphis, Tenn	26	11.22 a.m.	12.45 p.m.	0.55	11.31 a.m.	11.56 a.m.	0.02	0.13	0.28	0.34	0.42	0.51									
Meridian, Miss	7	2.35 p.m.	5.35 p.m.	1.41	2.44 p.m.	2.58 p.m.	0.01	0.21	0.41	0.48											
					3.39 p.m.	4.06 p.m.	0.51	0.23	0.51	0.58	0.68	0.76	0.79								
Do	10	3.42 p.m.	7.15 p.m.	0.76	3.46 p.m.	4.11 p.m.	0.01	0.06	0.32	0.39	0.55	0.62									
Miami, Fla	13	8.05 p.m.	8.55 p.m.	0.55	8.19 p.m.	8.34 p.m.	0.01	0.06	0.15	0.53											
Do	27	4.59 a.m.	5.30 a.m.	0.50	5.01 a.m.	5.15 a.m.	0.01	0.20	0.36	0.47											
Milwaukee, Wis	30	7.00 a.m.	9.30 a.m.	0.58	8.13 a.m.	8.23 a.m.	0.03	0.08	0.30												
Minneapolis, Minn	18	D. N. a.m.	D. N. a.m.	0.97	4.19 a.m.	4.39 a.m.	0.14	0.21	0.40	0.50	0.57										
	29-30	11.20 p.m.	D. N. a.m.	2.02	12.39 a.m.	1.59 a.m.	0.58	0.08	0.13	0.22	0.27	0.29	0.34	0.46	0.56	0.68	0.69	0.70	1.04		
Mobile, Ala	21	3.07 p.m.	4.20 p.m.	1.80	3.07 p.m.	3.41 p.m.	0.00	0.21	0.56	0.86	1.16	1.55	1.71	1.77							
Do	22	2.24 p.m.	6.25 p.m.	1.33	2.24 p.m.	2.45 p.m.	0.00	0.18	0.63	0.83	0.95	1.00									
Do	23	12.18 p.m.	2.05 p.m.	1.62	12.21 p.m.	12.48 p.m.	0.01	0.16	0.48	0.77	1.11	1.38	1.44								
Do	26	2.18 p.m.	3.50 p.m.	1.55	2.30 p.m.	2.50 p.m.	0.06	0.23	0.58	0.93	1.28										
Modena, Utah	14			0.09														0.04			
Montgomery, Ala	8	2.17 p.m.	4.40 p.m.	1.86	2.19 p.m.	3.20 p.m.	0.01	0.29	0.38	0.64	0.91	0.98	1.06	1.11	1.18	1.25	1.37	1.79	1.84		
	8	7.09 p.m.	9.55 p.m.	0.71	7.09 p.m.	7.33 p.m.	0.00	0.10	0.17	0.34	0.46	0.56									
Moorhead, Minn	5	4.45 p.m.	6.35 p.m.	0.98	5.01 p.m.	5.17 p.m.	0.01	0.13	0.45	0.77	0.84										
	16	3.12 p.m.	1.00 a.m.	2.34	8.52 p.m.	10.50 p.m.	0.62	0.13	0.32	0.36	0.45	0.50	0.51	0.51	0.53	0.60	0.79	0.92	1.19	1.40	1.72
Mount Tamalpais, Cal	(‡)																				
Mount Weather, Va	-10	D. N. p.m.	D. N. a.m.	0.81	1.54 a.m.	2.18 a.m.	0.31	0.10	0.23	0.40	0.43										
Nantucket, Mass	1			1.28														0.47			
Nashville, Tenn	7			0.45														0.31			
New Haven, Conn	11	D. N. a.m.	6.00 a.m.	1.06	5.08 a.m.	5.22 a.m.	0.44	0.22	0.44	0.56											
New Orleans, La	15	10.50 a.m.	2.00 p.m.	0.68	11.02 a.m.	11.12 a.m.	0.03	0.27	0.46												
New York, N. Y	19	7.22 p.m.	10.25 p.m.	0.91	9.00 p.m.	9.15 p.m.	0.15	0.06	0.42	0.67											
Norfolk, Va	19			0.29														0.29			
Northfield, Vt	12	D. N. a.m.	D. N. a.m.	0.42	1.16 a.m.	1.30 a.m.	0.03	0.14	0.30	0.37											
North Head, Wash	16			1.47														0.23			
North Platte, Nebr	2			0.66														0.33			
Notre Dame, Ind	17-18	9.20 p.m.	D. N. a.m.	1.60	9.40 p.m.	10.15 p.m.	0.02	0.12	0.18	0.23	0.40	0.68	1.04	1.35							
Oklahoma, Okla	8	D. N. a.m.	10.15 a.m.	2.19	2.13 a.m.	3.19 a.m.	0.01	0.09	0.35	0.62	0.90	1.15	1.24	1.28	1.39	1.51	1.59	1.79	2.01		
Omaha, Nebr	11-12	11.45 p.m.	5.15 a.m.	1.92	11.50 p.m.	12.50 a.m.	0.01	0.11	0.22	0.28	0.37	0.42	0.46	0.51	0.59	0.77	0.84	1.01			
					3.58 a.m.	4.28 a.m.	1.07	0.08	0.20	0.36	0.56	0.66	0.72								
Oswego, N. Y	26	7.42 p.m.	9.20 p.m.	0.63	7.49 p.m.	8.10 p.m.	0.01	0.12	0.22	0.39	0.46	0.48									
Palestine, Tex	2			0.41														0.29			
Parkersburg, W. Va	19	11.45 a.m.	12.10 p.m.	0.54	11.48 a.m.	12.04 p.m.	0.01	0.10	0.46	0.52	0.53										
Pensacola, Fla	2	8.50 a.m.	12.05 p.m.	0.62	8.54 a.m.	9.05 a.m.	0.01	0.32	0.55	0.57											
Do	3	6.05 a.m.	8.30 a.m.	0.71	6.25 a.m.	6.44 a.m.	0.02	0.09	0.27	0.49	0.54										
Do	20	4.00 p.m.	4.50 p.m.	0.56	4.04 p.m.	4.20 p.m.	0.01	0.12	0.17	0.47	0.55										
Do	25	10.40 a.m.	11.55 a.m.	1.37	10.44 a.m.	11.14 a.m.	0.02	0.05	0.32	0.72	1.06	1.22	1.33								
Peoria, Ill	9			0.29														0.24			
Philadelphia, Pa	18			1.24														0.51			
Phoenix, Ariz	27			0.50														0.24			
Pierre, S. Dak	18	8.30 p.m.	10.05 p.m.	0.82	8.35 p.m.	8.54 p.m.	T.	0.09	0.19	0.45	0.63										
	29	6.08 p.m.	7.55 p.m.	1.75	7.35 p.m.	7.40 p.m.	0.42	0.33	0.91	1.30											
Pittsburgh, Pa	18	7.55 p.m.	8.45 p.m.	0.61	7.57 p.m.	8.18 p.m.	0.01	0.21	0.37	0.41	0.57	0.59									
Pocatello, Idaho	1	9.05 p.m.	9.35 p.m.	0.31	9.05 p.m.	9.16 p.m.	0.00	0.11	0.30	0.31											
Point Reyes Light, Cal	(‡)																				
Port Huron, Mich	1	12.26 p.m.	1.20 p.m.	0.46	1.33 p.m.	1.41 p.m.	0.01	0.17	0.43												
Portland, Me	1			0.63														0.30			
Portland, Oreg	16			0.83														0.22			
Providence, R. I	11			1.01														0.38			
Pueblo, Colo	20	5.32 p.m.	9.50 p.m.	0.67	6.58 p.m.	7.18 p.m.	0.02	0.19	0.38	0.48	0.54										
Raleigh, N. C	26	1.38 p.m.	3.25 p.m.	1.16	1.56 p.m.	2.12 p.m.	0.02	0.38	0.82	1.07	1.10										
Rapid City, S. Dak	18	D. N. a.m.	D. N. a.m.	0.42	3.14 a.m.	3.52 a.m.	0.08	0.16	0.32												
Red Bluff, Cal	(‡)																				
Reno, Nev	2	1.19 p.m.	2.30 p.m.	0.93	1.25 p.m.	1.48 p.m.	0.01	0.13	0.43	0.64	0.76	0.84									
Richmond, Va	20			0.50														0.43†			
Rochester, N. Y	26			0.41														0.39			
Roseburg, Oreg	17			0.16														0.06			
Roswell, N. Mex	30	12.55 p.m.	4.55 p.m.	1.69	1.36 p.m.	2.07 p.m.	0.07	0.16	0.36	0.73	1.06	1.30	1.43	1.48							
Sacramento, Cal	(‡)																				
St. Joseph, Mo	15	D. N. a.m.	6.20 a.m.	1.42	4.34 a.m.	5.33 a.m.	0.23	0.05	0.20	0.31	0.40	0.49	0.59	0.74	0.85	0.88	1.03	1.18			
St. Louis, Mo	12			0.47														0.36			
St. Paul, Minn	29-30	11.10 p.m.	4.45 a.m.	1.78	1.09 a.m.	1.29 a.m.	0.51	0.12	0.27	0.38	0.55										
Salt Lake City, Utah	18			0.28														0.21			
San Antonio, Tex	16			0.22														0.22			
San Diego, Cal	29			0.11														0.06			
Sand Key, Fla	18	6.55 a.m.	7.30 a.m.	0.39	7.17 a.m.	7.24 a.m.	0.06	0.24	0.33												
Sandusky, Ohio	21			0.92														0.67			
San Francisco, Cal	(‡)																				
San Jose, Cal	(‡)																				
San Luis Obispo, Cal	(‡)																				
Santa Fe, N. Mex	21			0.38														0.17			

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during August, 1912, at all stations furnished with self-registering gages*—Continued.

Stations.	Date.	Total duration.		Total amount of precipitation.	Excessive rate.		Amount before excessive rate began.	Depths of precipitation (in inches) during periods of time indicated.													
		From—	To—		Began—	Ended—		5 min.	10 min.	15 min.	20 min.	25 min.	30 min.	35 min.	40 min.	45 min.	50 min.	60 min.	80 min.	100 min.	120 min.
Sault Ste. Marie, Mich.	10	1.55 p.m.	4.15 p.m.	1.20	2.06 p.m.	2.36 p.m.	0.01	0.21	0.46	0.60	0.78	0.88	0.95								
Savannah, Ga.	4	3.17 p.m.	7.12 p.m.	2.64	3.21 p.m.	4.44 p.m.	0.01	0.16	0.44	0.62	0.68	0.76	0.84	0.94	1.16	1.34	1.50	1.89	2.35	2.45	
Do.	16	D. N. a.m.	D. N. a.m.	0.59	1.22 a.m.	1.36 a.m.	0.01	0.25	0.45	0.53											
Do.	23	2.20 p.m.	5.25 p.m.	0.81	2.20 p.m.	2.34 p.m.	0.00	0.16	0.44	0.53											
Do.	27	3.29 p.m.	6.05 p.m.	0.98	4.10 p.m.	4.49 p.m.	0.08	0.05	0.17	0.46	0.60	0.71	0.76	0.81	0.86						
Scranton, Pa.	14	12.40 p.m.	3.00 p.m.	1.76	1.20 p.m.	2.47 p.m.	0.14	0.20	0.39	0.40	0.40	0.40	0.40	0.43	0.64	0.64	0.71	1.09	1.50	1.62	
Seattle, Wash.	8			0.80														0.32			
Sheridan, Wyo.	17			0.53														0.45			
Shreveport, La.	2	6.00 p.m.	9.30 p.m.	1.01	6.08 p.m.	6.36 p.m.	0.02	0.09	0.40	0.61	0.79	0.85	0.92								
Do.	3	7.15 p.m.	7.40 p.m.	0.80	7.19 p.m.	7.34 p.m.	0.01	0.20	0.56	0.79											
Do.	9	2.30 a.m.	12.20 p.m.	4.84	6.11 a.m.	6.36 a.m.	0.44	0.08	0.23	0.82	1.16	1.25									
					7.07 a.m.	8.12 a.m.	1.79	0.12	0.26	0.37	0.59	0.81	1.04	1.21	1.40	1.62	1.83	2.14	2.29		
Do.	9–10	11.50 p.m.	11.30 a.m.	2.55	12.02 a.m.	12.26 a.m.	0.04	0.08	0.21	0.24	0.53	0.75									
					4.32 a.m.	5.07 a.m.	0.94	0.23	0.36	0.40	0.49	0.62	0.70	0.79							
Sioux City, Iowa	16–17	6.10 p.m.	4.00 a.m.	4.09	10.34 p.m.	12 mid.	0.68	0.12	0.25	0.33	0.33	0.37	0.49	0.60	0.70	0.81	0.87	0.92	1.40	1.61	
					1.14 a.m.	2.20 a.m.	2.38	0.16	0.41	0.74	0.78	0.85	0.95	1.01	1.17	1.22	1.25	1.51	1.67		
Southeast Farallon, Cal.	(‡)																				
Spokane, Wash.	31			1.16														0.28			
Springfield, Ill.	8	D. N. a.m.	D. N. a.m.	0.99	1.52 a.m.	2.10 a.m.	0.05	0.18	0.42	0.70	0.86										
Springfield, Mo.	21	D. N. a.m.	8.00 a.m.	1.06	4.16 a.m.	4.32 a.m.	0.32	0.05	0.19	0.38	0.40										
Syracuse, N. Y.	21	2.15 p.m.	2.42 p.m.	0.41	2.23 p.m.	2.34 p.m.	0.02	0.16	0.37												
Tacoma, Wash.	8			1.00														0.39			
Tampa, Fla.	5	4.25 p.m.	5.00 p.m.	0.52	4.37 p.m.	4.53 p.m.	0.03	0.11	0.25	0.46	0.49										
	14	1.18 p.m.	2.25 p.m.	1.25	1.23 p.m.	1.51 p.m.	0.01	0.12	0.41	0.78	0.84	1.04	1.19								
Tatoosh Island, Wash.	9			1.02														0.30			
Taylor, Tex.	22			0.48														0.38			
Thomasville, Ga.	2	1.12 p.m.	2.40 p.m.	0.89	1.12 p.m.	1.37 p.m.	0.00	0.30	0.38	0.40	0.67	0.84									
	21	6.55 p.m.	9.35 p.m.	0.72	6.58 p.m.	7.21 p.m.	0.01	0.13	0.27	0.43	0.56	0.61									
Titusville, Fla.	6–7			1.99														(*)			
Toledo, Ohio.	18–19	10.30 p.m.	4.25 a.m.	0.84	11.54 p.m.	12.08 a.m.	0.18	0.06	0.33	0.38											
Tonopah, Nev.	(‡)																				
Topeka, Kans.	15	2.32 a.m.	8.55 a.m.	0.78	2.36 a.m.	3.03 a.m.	0.02	0.11	0.22	0.27	0.40	0.51	0.55								
Valentine, Nebr.	5			0.35														0.35			
Vicksburg, Miss.	18	2.43 p.m.	7.25 p.m.	0.90	3.56 p.m.	4.25 p.m.	0.01	0.18	0.28	0.42	0.51	0.64	0.71								
	26	2.40 p.m.	7.00 p.m.	0.82	3.35 p.m.	4.08 p.m.	0.07	0.08	0.16	0.32	0.39	0.46	0.51	0.56							
Walla Walla, Wash.	15			0.27														0.24			
Washington, D. C.	10	10.15 a.m.	11.55 a.m.	0.50	10.49 a.m.	11.04 a.m.	0.04	0.09	0.28	0.45											
Wichita, Kans.	6	6.58 a.m.	9.00 a.m.	0.65	7.00 a.m.	7.15 a.m.	0.01	0.21	0.31	0.40											
Williston, N. Dak.	4			0.70														0.39			
Wilmington, N. C.	21	1.55 a.m.	D. N. a.m.	0.79	1.57 a.m.	2.32 a.m.	0.01	0.10	0.30	0.36	0.42	0.45	0.63	0.73							
Winnemucca, Nev.	1			0.11														0.05			
Wytheville, Va.	22			0.26														0.26			
Yankton, S. Dak.	6	4.30 p.m.	7.10 p.m.	0.71	4.30 p.m.	4.53 p.m.	0.00	0.17	0.30	0.38	0.49	0.57									
Yellowstone Park, Wyo.	26			0.42														0.35			

* Self-register not working. † Record incomplete. ‡ No precipitation occurred during month. ** Aug. 31–Sept. 1.

TABLE III.—*Data furnished by the Canadian Meteorological Service, January, 1912.*

Stations.	Pressure.			Temperature.						Precipitation.		
	Station, reduced to mean of 24 hours.	Sea level, reduced to mean of 24 hours.	Departure from normal.	Mean max. +mean min.÷2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
	Ins.	*Ins.*	*Ins.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	*Ins.*	*Ins.*	*Ins.*
St. Johns, N. F	29.76	29.89	−.07	57.1	−2.7	63.8	50.4	73	40	4.38	+0.30	.....
Sydney, C. B. I	29.88	29.92	−.03	61.2	−2.1	68.6	53.7	80	40	2.76	−0.86	.....
Halifax, N. S	29.83	29.93	−.03	61.9	−1.7	70.0	53.8	82	44	3.72	−0.63	.....
Grand Manan, N. B	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Yarmouth, N. S	29.88	29.95	−.02	59.2	−1.0	65.9	52.4	74	43	2.65	−1.36	.....
Charlottetown, P. E. I	29.86	29.90	−.04	62.5	−1.8	69.1	55.9	81	47	2.42	−1.32	.....
Chatham, N. B	29.88	29.90	−.03	60.5	−2.7	69.4	51.6	85	42	6.41	+2.37	.....
Father Point, Que	29.84	29.86	−.05	53.4	−2.2	59.9	47.0	72	38	4.36	+1.31	.....
Quebec, Que	29.58	29.90	−.03	59.7	−3.4	68.2	51.3	78	42	9.58	+5.75	.....
Montreal, Que	29.71	29.91	−.04	63.3	−3.1	70.5	56.2	80	46	3.93	+0.36	.....
Stonecliffe, Ont	29.29	29.89	−.07	59.9	−3.3	69.9	49.9	84	37	3.38	+0.43	.....
Ottawa, Ont	29.66	29.98	+.02	61.9	−3.0	69.2	54.3	79	42	5.23	+2.20	.....
Kingston, Ont	29.63	29.94	−.04	63.4	−3.6	71.3	55.6	85	38	5.62	+3.24	.....
Toronto, Ont	29.50	29.94	−.05	63.9	−2.1	72.3	55.5	85	42	3.97	+1.21	.....
White River, Ont	28.62	29.92	−.04	54.9	−1.5	65.1	44.8	78	28	4.26	+0.96	.....
Port Stanley, Ont	29.30	29.94	−.06	63.6	−2.3	71.8	55.4	81	42	6.56	+4.14	.....
Southampton, Ont	29.24	.....	.....	61.5	−2.3	68.6	54.5	84	40	3.58	+1.33	.....
Parry Sound, Ont	29.24	29.92	−.06	61.8	−1.7	71.1	52.6	84	35	2.24	−0.48	.....
Port Arthur, Ont	29.25	29.96	.00	57.5	−2.0	66.2	48.8	79	36	2.54	−0.21	.....
Winnipeg, Man	29.12	29.94	.00	60.2	−3.2	70.0	50.5	82	39	1.64	−1.03	.....
Minnedosa, Man	28.13	29.92	−.02	59.0	−0.4	68.2	49.7	80	37	2.42	+0.32	.....
Qu'Appelle, Sask	27.66	29.88	−.05	59.6	−1.9	69.0	50.3	78	38	1.95	+0.31	.....
Medicine Hat, Alberta	27.62	28.86	−.06	65.8	+0.1	79.7	51.9	93	37	1.58	−0.09	.....
Swift Current, Sask	27.37	29.90	−.03	61.8	−2.2	72.1	51.5	84	38	2.48	+0.57	.....
Calgary, Alberta	26.37	29.84	−.07	57.9	−1.5	69.0	46.8	82	30	2.75	+0.61	.....
Banff, Alberta	25.36	29.88	−.03	53.0	−3.3	64.5	41.4	79	32	3.94	+1.41	.....
Edmonton, Alberta	27.60	29.85	−.07	60.4	+1.6	70.7	50.1	81	35	4.41	+2.28	.....
Prince Albert, Sask	28.31	29.85	−.07	59.2	+0.3	69.5	49.0	81	39	2.75	+0.60	.....
Battleford, Sask	28.15	29.87	−.04	61.8	−0.8	71.6	52.0	85	38	2.74	+0.38	.....
Kamloops, B. C	28.60	29.85	−.06	64.4	−4.2	75.3	53.5	87	43	2.09	+1.00	.....
Victoria, B. C	29.88	29.97	−.04	59.8	+1.1	68.3	51.4	82	41	2.26	+1.66	.....
Barkerville, B. C	25.67	29.94	+.04	51.0	−5.3	59.7	42.2	73	32	4.24	+1.14	.....
Dawson, Yukon	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Hamilton, Bermuda	29.97	30.13	+.03	77.8	−1.8	83.1	72.5	86	67	7.76	+1.68	.....