CONDENSED CLIMATOLOGICAL SUMMARY.

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

The mean temperature 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 temperatures 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 section, April, 1917.

Section.	Temperature.								Precipitation.					
	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.
	°F.	°F.		°F.			°F.		In.	In.		In.		In.
Alabama	64.1	+1.0	Evergreen	96	29	2 stations	30	10	3.46	−0.70	Talladega	5.47	Livingston	1.37
Arizona	56.2	−2.3	3 stations	99	24†	Fort Valley	7	20	1.70	+0.80	Crown King	9.42	5 stations	0.00
Arkansas	60.4	−0.8	Huttig	90	28†	Dutton	23	9	5.69	+0.92	Alicia	12.84	Booneville	2.91
California	52.8	−4.2	Greenland Ranch	105	27	Tamarack	−5	14	1.98	+0.19	Branscomb	10.87	5 stations	0.00
Colorado	39.7	−4.2	2 stations	88	17†	2 stations	−15	1†	2.11	+0.13	Savage Basin	9.95	2 stations	T.
Florida	70.2	+0.3	Fort Meade	97	22†	Bristol	35	10	1.56	−0.95	Miami, No. 2	4.73	Merritts Island	0.10
Georgia	65.9	+2.7	Bainbridge	97	30	Blue Ridge	26	10	3.19	−0.20	Clayton	6.21	St. George	1.13
Hawaii (March report)	69.2	+0.2	Mahukona	95	12	Volcano Observatory	44	1	13.19	+5.04	Kaueleau, Hawaii	40.10	Mahukona	0.46
Idaho	39.8	−5.1	Indian Cove	76	12	Stanley	−10	3	2.21	+0.79	Oxford Ranger Sta.	6.00	Challis	0.40
Illinois	49.9	−2.1	6 stations	87	18†	2 stations	19	9	4.76	+1.51	Carbondale	8.00	Morris	2.10
Indiana	49.8	−1.7	Shoals	89	24†	Salem	11	9	4.27	+0.89	Huntingburg	7.06	Whiting	1.72
Iowa	45.5	−3.2	Lenox	88	19	2 stations	17	2†	4.55	+1.69	Alberton	7.84	Dubuque	2.05
Kansas	52.1	−2.2	Smith Center	92	18	Colby	16	8	3.01	+0.53	Linn	6.87	Gove	0.98
Kentucky	55.8	−0.1	2 stations	90	18	Shelbyville	19	9	5.02	+0.95	Blandville	8.23	Catlettsburg	2.22
Louisiana	65.5	−1.8	Angola	93	23	3 stations	32	6†	4.38	+0.02	Kelly (near)	8.31	Paradis	1.10
Maryland-Delaware	52.4	+0.1	2 stations	90	20†	Oakland, Md	15	8	2.43	−0.77	Millsboro, Del	3.46	Delaware City, Del.	0.99
Michigan	39.4	−3.8	Morenci	82	18	Humboldt	0	8	2.71	+0.40	Lansing (Agr. Coll.)	5.59	Mancelona	0.67
Minnesota	39.5	−3.4	3 stations	81	18	4 stations	9	2†	2.32	+0.35	Lynd	4.84	Warroad	0.58
Mississippi	63.5	−0.8	Shubuta	92	29	4 stations	32	6†	4.86	−0.09	Charleston	9.28	Fruitland Park	2.05
Missouri	53.2	−2.3	St. Charles, No. 3	89	17†	Bethany, No. 2	19	9	5.97	+2.02	Koshkonong	10.82	Amoret	3.47
Montana	37.8	−3.9	2 stations	77	8	Brenner	−4	1	1.57	+0.50	Pine Grove	4.68	Valentine	0.27
Nebraska	45.4	−3.8	Beaver City	92	20	Gordon	5	1	3.14	+0.72	Tekamah	6.30	Whitman	1.00
Nevada	43.9	−3.1	2 stations	95	25	Gold Creek	−6	7†	0.74	−0.12	Mahoney Ranger Sta	3.68	Thorne	T.
New England	41.3	−2.1	3 stations	79	1†	Madison, Me	3	11	2.53	−0.66	Plymouth, Mass	4.88	Danielson, Conn	1.25
New Jersey	48.8	−0.2	Highwood	88	1	Culvers Lake	15	10	2.39	−1.12	Tuckerton	3.54	Phillipsburg	1.19
New Mexico	49.8	−1.8	2 stations	95	22†	Winsors Ranch	−9	2	0.40	−0.72	Anchor Mine	3.65	21 stations	0.00
New York	42.7	−1.3	Wappinger Falls	86	1†	North Lake	5	9	2.12	−0.83	Lake Placid Club	4.39	Binghamton	0.99
North Carolina	59.9	+2.3	Kinston	96	19	Brevard	22	10	3.53	+0.09	Rockingham	5.61	Fayettesville	1.49
North Dakota	37.2	−4.5	2 stations	73	9	Howard	5	1	1.69	+0.31	McLeod	4.22	Pembina	0.24
Ohio	48.7	−1.1	2 stations	90	20	Peebles	13	9	3.38	+0.25	Marietta	4.96	Youngstown	1.27
Oklahoma	58.6	−1.4	Eldorado	95	29	2 stations	20	2†	3.43	+0.37	Durant	8.92	Lawtonka Lake	0.50
Oregon	45.7	−3.4	Grants Pass, No. 2	80	24	Crescent	9	18	3.61	+1.69	Tillamook	11.94	Fort Rock	0.26
Pennsylvania	48.5	0.0	2 stations	87	1†	Somerset	14	9	2.08	−1.37	Somerset	4.89	Milford	0.41
Porto Rico	75.4	+0.1	Canovanas	97	21	Aibonito	45	8	4.57	−0.47	Foro Negro Dam	15.36	Vieques	1.36
South Carolina	64.9	+2.5	Florence, No. 1	96	19†	Mountain Rest	28	10	3.34	+0.56	Walterboro	4.57	Charleston	0.97
South Dakota	41.1	−4.5	2 stations	89	9†	Elk Mountain	6	1	2.68	+0.86	Tyndall	4.34	Cedar Canyon	0.83
Tennessee	59.4	+1.0	Kenton	92	18	Tazewell	21	10	4.04	−0.46	Waynesboro	7.17	Johnson City	1.73
Texas	65.5	−0.5	Mission	105	28	Dalhart	19	8	2.17	−0.82	Paris	8.05	6 stations	0.00
Utah	41.8	−5.4	St. George	89	24†	East Portal	−19	4	1.81	+0.50	Utah Expt. Sta	6.04	Mosida	0.16
Virginia	55.1	+1.0	Cape Henry	94	21	Mount Weather	21	9	2.97	−0.27	Leeds Manor	4.41	Clarksville	1.05
Washington	44.9	−3.7	6 stations	73	4†	Snyders Ranch	12	1†	4.15	+2.26	Quinlault	14.42	Cowiche	0.42
West Virginia	51.7	0.0	3 stations	90	19†	Cuba	10	10	2.99	−0.53	St. Marys	5.31	Morgantown	1.29
Wisconsin	40.2	−3.3	Darlington	85	18	Deerskin Dam	−7	8	2.56	+0.25	Hancock	5.25	New Richmond	0.48
Wyoming	34.8	−5.6	Fort Laramie	80	9	Sand Lake	−17	4	1.90	+0.56	Bechler River	4.91	Pinedale	0.37

† Other dates also.

DESCRIPTION OF TABLES AND CHARTS.

[See MONTHLY WEATHER REVIEW, January, 1917, p. 40.]

TABLE I.—*Climatological data for Weather Bureau stations, April, 1917.*

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.													Precipitation.			Wind.										
	Barometer above sealevel.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F	%	In.	In.		Miles								0-10	In.	In.
New England.							41.8	−1.7										75	2.67	−0.4										6.3		
Eastport	76	67	85	29.81	29.89	−0.04	38.1	−0.2	60	23	44	18	10	32	26	35	32	80	3.22	+0.3	11	8,326	nw.	46	e.	6	6	12	12	6.3	17.5	....
Greenville	1,070	6	....	28.74	29.92	.....	35.1	.....	62	22	43	11	10	27	29	.....	.....	....	3.25	.....	12	.....	.....	.....	.....	.....	6	7	17	....	10.5	....
Portland, Me.	103	82	117	29.83	29.96	.00	40.2	−2.8	60	22	46	21	10	34	25	35	29	68	2.93	−0.2	13	11,155	nw.	63	nw.	4	7	8	15	6.3	1.8	....
Concord	288	70	79	29.63	29.95	− .04	40.9	−2.9	70	22	49	22	10	33	30	.....	.....	....	1.63	−1.2	10	4,599	nw.	33	nw.	10	10	5	15	6.1	0.3	....
Burlington	404	11	48	29.51	29.96	− .03	39.8	−0.9	68	21	47	17	10	33	23	.....	.....	....	2.42	+0.6	16	7,726	n.	36	s.	20	6	7	17	7.0	3.1	....
Northfield	876	12	60	.....	29.97	− .02	37.5	−2.7	64	22	45	15	10	30	31	.....	.....	75	2.05	−0.4	12	6,287	s.	42	n.	10	4	7	19	7.6	1.6	....
Boston	125	115	188	29.80	29.94	− .05	44.0	−1.3	72	23	50	26	10	38	23	40	36	76	2.72	−0.8	11	7,363	nw.	33	nw.	10	10	6	14	5.6	9.1	....
Nantucket	12	14	90	29.91	29.92	− .05	41.6	−2.6	67	23	48	25	9	36	26	38	36	83	4.21	+1.6	13	10,851	nw.	59	ne.	9	9	6	15	6.6	5.0	....
Block Island	26	11	46	29.90	29.93	− .05	42.0	−1.8	66	23	47	25	9	37	23	39	36	83	2.14	−1.5	14	12,605	nw.	54	n.	9	9	3	18	6.8	4.0	....
Narragansett Pier	.....	9	....	.....	.....	.....	41.4	−3.2	66	23	49	19	10	34	29	.....	.....	....	2.94	.....	13	.....	ne.	....	.....	....	14	2	14	....	7.0	....
Providence	160	215	251	29.76	29.94	− .04	44.6	0.0	73	23	52	24	9	37	24	38	32	68	2.62	−1.1	11	9,392	nw.	46	nw.	10	7	10	13	6.2	8.8	....
Hartford	159	122	140	29.78	29.96	− .03	45.4	−1.3	73	1	54	26	10	37	31	39	33	67	2.47	−1.1	11	5,615	nw.	34	nw.	10	7	12	11	5.7	0.4	....
New Haven	106	117	155	29.85	29.97	− .02	45.8	−0.6	71	23	54	26	9	38	26	41	36	74	3.00	−0.6	14	6,441	nw.	41	nw.	10	8	11	11	5.6	4.2	....
Middle Atlantic States.							51.3	+0.6										66	2.12	−1.0										5.3		....
Albany	97	102	115	29.85	29.96	−0.04	45.2	−0.6	75	1	53	26	10	37	36	38	31	61	1.38	−1.0	8	6,072	nw.	27	s.	20	10	12	8	5.1	T.	....
Binghamton	871	10	69	29.02	29.96	− .06	44.5	+0.1	74	18	53	21	9	36	40	.....	.....	....	0.99	−1.3	10	5,040	nw.	31	nw.	10	5	11	14	6.6	4.8	....
New York	314	414	454	29.61	29.95	− .05	47.2	−0.9	79	1	55	25	9	39	31	40	33	63	2.35	−1.0	12	12,942	nw.	68	nw.	7	6	10	14	6.7	6.5	....
Harrisburg	374	94	104	29.58	29.98	− .04	51.4	+0.7	81	1	60	28	9	42	29	43	34	56	1.65	−0.8	9	6,126	nw.	29	e.	5	10	9	11	5.5	0.8	....
Philadelphia	117	123	190	29.85	29.98	− .03	52.3	+1.5	81	1	61	28	9	43	27	46	43	77	2.47	−0.4	9	8,211	nw.	35	nw.	7	10	10	10	5.2	7.0	....
Reading	325	81	98	29.62	29.98	.....	50.8	.....	82	1	60	27	10	41	29	43	35	60	2.12	−1.1	11	6,415	nw.	48	e.	5	8	11	11	5.7	3.0	....
Scranton	805	111	119	29.10	29.97	− .04	47.6	+0.5	79	1	56	24	9	39	38	41	35	67	1.06	−1.6	9	5,786	nw.	32	nw.	10	7	11	12	6.5	T.	....
Atlantic City	52	37	48	29.92	29.98	− .02	48.2	+0.6	72	1	55	27	10	41	28	43	38	74	2.01	−1.0	6	6,163	nw.	34	se.	5	10	15	5	4.9	5.0	....
Cape May	18	13	49	29.97	30.00	+ .01	48.9	+0.5	71	22	56	28	9	42	25	44	.....	....	2.54	−0.4	8	6,749	e.	45	se.	5	12	13	5	4.7	4.3	....
Sandy Hook	22	10	57	29.93	29.95	.....	46.2	.....	77	1	53	28	9	40	32	42	39	82	1.91	.....	8	11,384	nw.	55	e.	5	10	9	11	5.2	5.5	....
Trenton	190	159	183	29.75	29.96	.....	49.1	.....	80	1	58	25	9	40	31	42	36	67	2.29	−1.0	11	9,120	nw.	55	w.	21	11	10	9	5.4	6.2	....
Baltimore	123	100	113	29.85	29.98	− .03	53.8	+0.8	85	1	63	28	9	45	28	45	37	57	2.21	−1.1	9	9,125	nw.	44	e.	5	11	9	10	5.1	3.0	....
Washington	112	62	85	29.85	29.97	− .05	54.2	+1.1	85	21	64	28	9	44	32	46	38	60	2.16	−1.1	11	5,762	nw.	40	nw.	7	12	11	7	4.8	1.5	....
Lynchburg	681	153	188	29.23	29.98	− .04	57.4	+1.8	90	19	69	30	14	45	38	49	43	65	3.10	−0.1	10	5,629	e.	59	w.	21	11	13	6	5.5	0.4	....
Norfolk	91	170	205	29.89	29.99	− .02	57.6	+1.6	86	21	67	34	9	48	29	49	44	69	2.61	−1.2	6	10,295	se.	64	w.	21	13	12	5	4.3	T.	....
Richmond	144	11	52	29.83	29.98	− .04	57.4	+0.2	90	19	68	31	10	46	37	48	42	64	2.56	−0.9	11	6,589	se.	40	sw.	21	10	10	10	5.2	T.	....
Wytheville	2,293	49	55	27.61	29.98	− .05	52.7	+0.7	80	20	64	29	10	41	37	45	39	64	2.40	−1.3	10	5,427	w.	37	w.	5	19	5	6	3.6	T.	....
South Atlantic States.							64.1	+3.0										68	2.83	−0.6										3.5		
Asheville	2,255	70	84	27.64	29.98	−0.05	56.8	+2.9	84	19	69	30	10	44	36	47	39	59	2.80	−1.2	8	6,238	nw.	33	s.	1	16	8	6	3.8	T.	....
Charlotte	773	153	161	29.14	29.98	− .05	62.3	+3.1	89	19	74	36	10	51	32	52	44	60	2.54	−0.9	9	8,151	sw.	60	sw.	30	19	5	6	3.6	0.0	....
Hatteras	11	12	50	29.97	29.98	− .03	59.2	+1.2	80	19	66	40	10	52	24	54	50	78	2.08	−2.3	8	11,499	ne.	50	s.	8	16	11	3	4.2	0.0	....
Manteo	12	5	43	.....	.....	.....	57.2	.....	87	19	68	32	15	46	.....	.....	.....	....	5.28	+0.7	7	.....	sw.	....	.....	....	16	7	7	....	0.0	....
Raleigh	376	103	110	29.57	29.98	− .05	60.6	+1.6	91	19	73	33	10	49	35	51	45	63	4.92	+1.4	9	6,275	sw.	45	w.	21	12	13	5	4.3	0.0	....
Wilmington	78	81	91	29.90	29.99	− .04	63.4	+3.0	90	20	74	38	10	53	31	56	52	73	2.55	−0.3	7	5,865	w.	47	sw.	8	14	10	6	3.8	0.0	....
Charleston	48	11	92	29.95	30.00	− .03	67.2	+3.4	92	20	76	45	10	59	28	60	56	72	0.97	−2.0	6	7,813	s.	41	sw.	5	18	10	2	2.7	0.0	....
Columbia, S. C.	351	41	57	29.60	29.97	− .06	65.8	+5.4	91	19	76	39	10	55	32	54	46	56	2.82	0.0	8	5,397	sw.	46	sw.	5	18	9	3	3.1	0.0	....
Augusta	180	62	77	29.78	29.98	− .05	67.0	+3.8	91	19	79	41	10	55	35	59	55	72	4.43	+0.9	6	3,983	se.	38	w.	5	20	3	7	3.3	0.0	....
Savannah	65	150	194	29.93	30.00	− .03	68.8	+4.1	91	20	79	47	10	59	27	60	56	73	1.92	−1.1	9	7,431	sw.	44	nw.	5	19	8	3	3.0	0.0	....
Jacksonville	43	200	215	29.97	30.02	− .02	69.6	+2.0	89	30	78	49	9	61	24	61	57	72	0.82	−1.9	7	8,481	sw.	50	sw.	8	17	7	6	3.6	0.0	....
Florida Peninsula.							73.2	−0.6										71	2.15	+0.3										3.4		
Key West	22	10	64	29.96	29.98	−0.04	74.9	−0.6	83	30	80	66	7	69	17	68	64	70	1.07	−0.2	3	7,719	e.	43	nw.	13	17	11	2	3.5	0.0	....
Miami	25	71	79	29.98	30.01	− .01	72.0	−2.2	81	9	78	52	7	66	24	65	61	69	3.74	+1.2	9	7,275	e.	33	sw.	13	19	6	5	3.7	0.0	....
Sand Key	23	39	72	29.94	29.97	− .05	74.2	−0.8	82	26	76	64	8	72	15	68	64	72	1.76	.....	3	10,725	e.	56	nw.	13	21	7	2	2.6	0.0	....
Tampa	35	79	96	29.98	30.02	− .04	71.6	+1.0	88	27	82	52	7	61	28	64	60	72	1.65	−0.2	5	4,863	ne.	35	sw.	8	14	13	3	3.7	0.0	....
East Gulf States.							65.3	+0.7										68	3.70	−0.4										4.0		
Atlanta	1,174	190	216	28.76	29.99	−0.04	63.7	+2.6	88	30	74	38	9	53	31	53	45	56	3.17	−0.5	6	8,253	w.	48	sw.	5	14	7	9	4.2	0.0	....
Macon	370	78	87	29.59	29.98	− .05	66.2	+3.1	92	30	79	40	10	54	35	56	49	61	3.94	+0.5	8	4,162	s.	28	w.	5	19	7	4	3.2	0.0	....
Thomasville	273	49	58	29.70	30.00	− .03	68.1	+1.4	90	29	80	42	10	56	31	59	54	68	1.55	−2.1	9	3,251	sw.	28	sw.	5	13	12	5	4.2	0.0	....
Pensacola	56	149	185	29.95	30.01	− .01	66.1	−1.6	79	30	72	44	9	60	20	60	56	74	2.14	−1.0	7	9,713	s.	63	sw.	5	13	12	5	4.0	0.0	....
Anniston	741	9	57	29.22	30.01	− .02	62.6	+2.2	88	30	76	33	10	49	38	.....	.....	....	4.17	+0.5	7	4,514	nw.	30	e.	4	13	14	3	3.9	0.0	....
Birmingham	700	11	48	29.25	30.01	− .01	64.0	+0.5	86	27	76	38	10	52	34	53	46	59	4.52	+0.8	8	5,322	s.	29	s.	1	14	9	7	3.9	0.0	....
Mobile	57	125	161	29.94	30.00	− .02	66.6	+0.6	84	24	75	43	10	58	28	59	55	74	2.50	−1.8	7	7,829	s.	32	nw.	12	14	12	4	3.8	0.0	....
Montgomery	223	100	112	29.76	30.01	− .02	65.8	+0.6	89	29	77	40	10	54	33	56	49	61	2.66	−1.6	7	4,916	sw.	29	w.	5	12	12	6	4.2	0.0	....
Corinth	469	6	....	.....	.....	.....	60.9	.....	87	18	74	32	10	47	40	.....	.....	....	5.12	.....	6	.....	s.	....	.....	....	15	10	5	....	0.0	....
Jackson	304	5	....	.....	.....	.....	64.4	.....	88	29	76	37	10	53	37	.....	.....	....	5.12	.....	10	.....	s.	....	.....	....	10	14	6	....	0.0	....
Meridian	375	85	93	29.60	29.99	− .03	63.4	−0.7	86	29	75	35	10	52	35	55	50	67	4.16	−0.9	9	4,251	s.	35	sw.	4	11	14	5	4.3	0.0	....
Vicksburg	247	65	74	29.73	30.01	+ .01	63.9	−1.3	85	29	73	40	3	55	23	57	52	72	7.75	+2.6	8	5,649	se.	31	nw.	4	12	9	9	5.0	0.0	....
New Orleans	51	76	84	29.94	29.99	− .01	68.2	+0.3	86	29	77	48	9	60	24	63	61	83	4.11	−0.8	7	5,686	se.	24	nw.	8	14	13	3	3.7	0.0	....
West Gulf States.							64.5	−1.1										68	2.92	−0.6										4.6		
Shreveport	249	77	93	29.70	29.97	0.00	63.8	−2.0	85	25	74	39	9	53	30	56	50	65	2.34	−1.2	10	6,535	se.	42	s.	19	11	9	10	4.9	0.0	....
Bentonville	1,303	11	44	28.56	29.93	− .03	56.2	−0.7	82	24	67	30	9	45	33	.....	.....	....	5.88	+2.0	12	5,526	se.	26	sw.	18	11	10	9	4.8	0.0	....
Fort Smith	457	79	94	29.46	29.94	− .02	60.1	−1.6	87	24	71	37	9	49	32	52	46	66	3.14	−0.8	12	7,591	e.	56	w.	30	11	7	12	5.4	0.0	....
Little Rock	357	139	147	29.60	29.97	− .01	61.2	−1.5	83	17	71	37	9	52	28	54	49	69	3.91	−0.6	10	6,332	s.	39	nw.	30	11	9	10	4.9	0.0	....
Brownsville	57	4	26	.....	.....	.....	74.4	.....	98	1	85	48	6	64	34	.....	.....	....	0.43	.....	2	.....	s.	....	.....	....	.....	.....	.....	....	0.0	....
Corpus Christi	20	69	77	29.92	29.94	− .01	70.8	−0.1	91	28	76	50	6	65	23	65	62	79	1.07	−0.7	4	12,130	se.	48	se.	27	9	9	12	5.2	0.0	....
Dallas	512	109	117	29.40	29.94	.....	63.5	.....	86	24	74	41	8	53	34	.....	.....	....	5.24	.....	8	9,191	s.	42	nw.	30	10	12	8	4.7	0.0	....
Fort Worth	670	106	114	29.21	29.92	− .02	63.8	−1.5	88	24	74	39	9	53	32	54	47	60	4.11	+1.5	7	10,313	se.	40	s.	19	12	11	7	4.4	0.0	....
Galveston	54	106	114	29.92	29.98	+ .01	67.8	−0.9	83	12	72	51	9	63	19	62	58	77	1.45	−1.7	9	10,174	se.	35	sw.	20	16	8	6	3.7	0.0	....
Houston	138	111	121	29.81	29.96	.....	67.9	−1.7	85	25	77	45	9	59	26	.....	.....	....	2.30	.....	10	7,924	se.	29	se.	19	12	9	9	4.5	0.0	....
Palestine	510	64	72	29.43	29.96	.00	64.0	−1.9	84	29	74	39	3	54	35	56	50	66	3.49	−0.6	8	6,664	se.	36	se.	19	13	7	10	5.0	0.0	....
Port Arthur	34	58	66	29.93	29.97	.....	65.9	.....	82	30	73	43	9	59	24	62	60	86	3.05	.....	8	8,838	se.	34	s.	27	13	10	7	4.4	0.0	....
San Antonio	701	119	132	29.19	29.92	− .01	69.0	0.0	93	28	81	44	5	57	34	58	50	59	0.28	−2.7	4	6,849	s.	44	se.	27	18	8	4	3.0	0.0	....
Taylor	582	55	63	29.36	29.97	+ .02	66.2	−1.3	87	28	78	41	5	54	36	.....	.....	....	2.56	−1.4	6	8,780	se.	44	sw.	27	13	10	7	4.2	0.0	....

TABLE I.—*Climatological data for Weather Bureau stations, April, 1917*—Continued.

Districts and stations.	Elevation of instruments. Barometer above sealevel.	Thermometer above ground.	Anemometer above ground.	Pressure. Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	Departure from normal.	Temperature of the air. 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.	Precipitation. Total.	Departure from normal.	Days with 0.01 or more.	Wind. Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Direction.	Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee.							**54.2**	**−0.4**										**65**	**3.76**	**+0.2**										**5.7**		
Chattanooga	762	189	213	29.18	29.99	−0.04	61.9	+1.9	86	18	73	36	9	50	32	51	43	55	3.89	−0.5	9	6,829	w.	40	nw.	5	15	9	6	4.2	0.0	....
Knoxville	996	93	100	28.93	29.98	− .05	60.4	+3.0	87	18	73	34	10	48	36	50	40	52	2.13	−2.5	11	4,389	sw.	28	sw.	1	17	8	5	3.9	0.0	....
Memphis	399	76	97	29.59	30.01	+ .01	61.7	−0.1	83	18	70	37	9	53	32	52	45	58	4.13	−0.7	10	7,235	s.	64	nw.	1	12	12	6	4.8	0.0	....
Nashville	546	168	191	29.41	30.00	− .01	59.7	+0.6	86	18	71	32	9	48	36	50	42	59	4.05	−0.3	9	7,816	e.	49	sw.	1	15	6	9	4.5	0.0	....
Lexington	989	193	230	28.92	30.00	− .02	53.8	+0.1	83	18	64	22	9	44	30	....	....	....	3.97	+0.6	12	11,113	se.	54	sw.	20	11	11	8	5.1	0.4	....
Louisville	525	219	255	29.42	30.01	.00	54.8	−1.4	86	18	65	26	9	44	32	46	38	60	4.93	+0.9	12	10,112	s.	62	e.	30	9	9	12	5.8	3.2	....
Evansville	431	139	175	29.52	29.99	− .01	55.9	−0.5	84	24	66	30	9	46	32	48	41	63	5.12	+1.7	11	9,514	ne.	58	sw.	30	6	16	8	5.5	T.	....
Indianapolis	822	194	230	29.10	29.99	− .01	49.2	−3.2	82	18	58	25	14	40	31	43	37	66	4.25	+0.8	11	10,668	s.	52	nw.	5	5	7	18	7.1	0.2	....
Terre Haute	575	96	129	29.35	29.97	.....	51.0	.....	84	18	60	28	14	42	28	46	41	72	3.95	.....	12	9,000	nw.	43	sw.	30	4	12	14	6.9	0.5	....
Cincinnati	628	11	51	29.31	30.00	− .01	51.2	−1.1	84	18	61	21	9	41	33	44	38	65	4.07	+1.1	8	7,021	ne.	38	sw.	30	9	8	13	6.1	0.3	....
Columbus	824	173	222	29.11	30.00	− .02	49.6	−1.4	82	20	59	24	9	40	35	44	29	72	3.15	+0.3	12	7,926	sw.	38	nw.	6	6	10	14	6.4	0.3	....
Dayton	899	181	216	29.01	29.97	.....	49.7	−2.0	82	18	59	25	9	40	31	45	41	77	3.68	+0.8	12	8,633	sw.	48	sw.	30	6	10	14	6.6	0.5	....
Pittsburgh	842	353	410	29.09	30.01	− .01	49.6	−1.4	81	20	59	21	9	40	34	43	38	72	2.20	−0.7	12	9,043	nw.	54	nw.	18	6	11	13	6.1	0.7	....
Elkins	1,940	41	50	27.93	30.00	− .03	49.2	+0.5	84	20	61	21	9	37	44	42	37	69	2.72	−0.6	13	3,555	w.	27	w.	2	4	11	15	6.7	2.7	....
Parkersburg	638	77	84	29.35	30.01	− .02	52.6	−0.4	86	20	63	26	14	42	40	45	40	69	4.29	+1.4	11	4,868	nw.	30	w.	2	9	12	9	5.6	0.2	....
Lower Lake Region.							**43.3**	**−1.9**										**73**	**3.06**	**+0.7**										**6.7**		
Buffalo	767	247	280	29.14	29.99	−0.02	40.4	−1.9	71	20	48	22	9	32	30	36	33	77	2.45	0.0	14	11,946	sw.	50	sw.	1	4	11	15	6.9	1.5	....
Canton	448	10	61	29.46	29.95	.....	40.5	−2.0	68	21	48	19	9	33	28	....	....	....	1.92	−0.3	12	8,212	w.	59	sw.	2	8	8	14	6.5	1.8	....
Oswego	335	76	91	29.60	29.97	− .04	40.4	−2.8	72	20	46	23	9	34	26	38	34	78	3.21	+1.0	14	8,176	w.	33	nw.	9	7	7	16	6.5	2.2	....
Rochester	523	97	113	29.41	30.00	− .01	42.8	−1.1	75	20	50	24	9	35	30	38	32	70	2.80	+0.4	9	7,125	w.	36	w.	21	9	7	14	6.3	2.3	....
Syracuse	597	97	113	29.33	29.98	− .03	42.4	−2.0	71	21	50	22	9	35	30	38	32	70	2.27	0.0	15	9,079	nw.	43	sw.	2	9	5	16	6.6	3.0	....
Erie	714	130	166	29.20	29.98	− .04	43.8	−0.9	77	20	51	24	9	36	32	40	35	74	3.01	+0.6	15	10,384	w.	62	se.	5	2	15	13	6.4	8.7	....
Cleveland	762	190	201	29.17	30.00	− .02	45.4	−0.6	80	20	53	26	9	38	35	40	35	71	3.24	+0.9	13	9,980	nw.	48	nw.	6	3	11	16	7.1	T.	....
Sandusky	629	62	103	29.30	30.00	− .02	45.1	−2.2	81	20	52	26	9	38	33	40	36	72	3.66	+1.1	11	9,902	sw.	50	nw.	6	2	10	18	7.7	T.	....
Toledo	628	208	243	29.31	30.00	− .01	45.2	−2.1	80	18	53	24	9	37	37	40	35	69	3.39	+1.1	10	10,709	sw.	47	sw.	20	5	11	14	6.2	T.	....
Fort Wayne	856	113	124	29.07	30.01	.....	46.4	−2.9	83	18	55	23	14	37	33	41	35	69	3.47	.....	10	7,880	nw.	39	s.	20	6	5	19	6.8	T.	....
Detroit	730	218	245	29.20	30.00	− .02	43.6	−1.9	76	20	51	25	9	36	33	39	35	77	4.61	+2.3	12	8,475	w.	39	sw.	11	6	10	14	6.7	T.	....
Upper Lake Region.							**38.2**	**−2.6**										**76**	**2.74**	**+0.4**										**6.2**		
Alpena	609	13	92	29.35	30.03	+0.01	36.4	−1.6	78	20	43	18	10	30	40	33	29	78	2.02	−0.2	11	9,840	nw.	45	se.	25	7	12	11	5.6	6.3	....
Escanaba	612	54	60	29.38	30.06	+ .04	34.6	−2.6	57	11	41	16	9	28	24	31	28	81	1.72	−0.4	10	7,160	ne.	38	n.	5	9	8	13	5.8	6.6	....
Grand Haven	632	54	92	29.31	30.00	− .01	40.6	−3.4	72	18	48	21	9	33	28	36	32	74	4.40	+2.0	12	9,400	n.	35	n.	5	7	14	9	5.4	T.	....
Grand Rapids	707	70	87	29.23	30.01	− .01	43.1	−3.1	76	20	52	22	9	35	29	38	32	68	4.03	+1.6	14	5,435	nw.	28	nw.	18	5	14	11	6.4	0.1	....
Houghton	684	62	99	29.33	30.08	+ .06	33.8	−3.1	58	19	40	16	9	28	24	....	....	....	1.69	−0.3	10	7,114	e.	33	w.	21	11	9	10	5.4	5.6	....
Lansing	878	11	62	29.04	30.00	.....	42.4	−3.2	76	20	52	21	9	33	31	38	33	75	5.59	+3.0	14	5,436	n.	30	nw.	18	4	10	16	7.0	1.3	....
Ludington	637	60	66	29.31	30.02	.....	38.6	.....	66	20	45	20	9	32	27	35	31	76	2.85	.....	14	8,357	n.	36	n.	6	8	10	12	5.6	0.4	....
Marquette	734	77	111	29.28	30.10	+ .08	33.4	−4.1	54	19	38	20	9	29	25	30	26	75	1.75	−0.2	14	6,848	nw.	33	e.	10	8	6	16	6.6	10.7	T.
Port Huron	638	70	120	29.29	30.00	− .02	40.5	−1.7	73	20	48	23	10	33	36	37	34	79	2.52	+0.4	13	8,703	ne.	36	ne.	6	8	8	14	6.6	1.2	....
Saginaw	641	48	82	29.30	30.01	.....	41.4	.....	76	20	49	21	9	34	29	38	34	76	3.29	+0.6	13	7,641	nw.	32	e.	25	3	9	18	7.7	0.6	....
Sault Sainte Marie	614	11	61	29.34	30.05	+ .02	33.8	−1.9	60	30	40	15	9	28	27	31	27	78	1.01	−1.1	10	7,862	nw.	38	w.	2	11	5	14	5.9	1.6	....
Chicago	823	140	310	29.11	30.01	+ .01	44.8	−1.1	82	18	51	30	13	39	31	39	34	69	2.58	−0.3	14	10,514	ne.	46	sw.	20	7	7	16	6.6	T.	....
Green Bay	617	109	144	29.35	30.02	+ .01	39.4	−1.3	69	20	47	22	8	32	32	35	30	75	2.32	−0.1	11	8,709	ne.	36	s.	20	4	10	16	7.0	2.5	....
Milwaukee	681	119	133	29.26	30.01	+ .02	40.7	−1.1	71	20	47	26	13	34	27	37	34	80	3.98	+1.3	10	8,751	ne.	42	e.	24	8	11	11	6.2	T.	....
Duluth	1,133	11	47	28.84	30.09	+ .08	33.2	−5.2	49	17	39	18	8	27	20	30	25	74	1.39	−0.8	7	9,722	ne.	42	ne.	24	8	12	10	5.9	7.1	....
North Dakota.							**37.6**	**−3.0**										**72**	**1.61**	**−0.2**										**6.4**		
Moorhead	940	8	57	29.05	30.09	+0.10	39.2	−2.2	58	23	48	21	14	30	28	35	31	78	1.90	−0.4	10	5,930	n.	30	se.	9	11	9	10	5.0	5.2	....
Bismarck	1,674	8	57	28.28	30.10	+ .13	38.5	−4.1	68	9	48	17	2	29	35	33	27	70	1.87	0.0	11	7,056	e.	43	e.	17	5	8	17	7.1	6.0	....
Devils Lake	1,482	11	44	28.47	30.08	+ .09	36.1	−2.1	56	20	45	17	1	27	27	31	26	70	1.40	−0.6	6	8,256	ne.	30	ne.	6	2	13	15	6.9	6.4	....
Grand Forks	835	12	89	.....	.....	.....	37.5	.....	57	23	46	20	2	29	26	35	....	....	1.37	.....	8	.....	n.	....	....	....	15	8	7	....	0.7	....
Williston	1,872	41	48	28.03	30.05	+ .09	36.8	−3.7	62	22	46	14	1	28	31	32	27	71	1.28	0.0	9	6,676	e.	36	e.	12	6	9	15	6.5	1.6	....
Upper Mississippi Valley.							**47.8**	**−2.7**										**70**	**3.90**	**+0.9**										**6.3**		
Minneapolis	918	10	208	29.02	30.01	.....	41.9	.....	78	18	50	25	8	34	33	....	....	....	1.70	−0.7	12	8,209	ne.	37	n.	20	7	6	17	7.0	0.5	....
St. Paul	837	201	236	29.10	30.03	+0.04	42.2	−3.5	78	18	50	26	8	34	30	....	....	....	1.65	−0.7	11	8,429	n.	40	s.	9	4	15	11	6.5	T.	....
La Crosse	714	11	48	29.24	30.02	+ .04	44.9	−2.4	78	18	54	27	9	36	30	....	....	....	3.35	+1.1	13	4,230	ne.	22	s.	20	7	7	16	6.5	0.0	....
Madison	974	70	78	28.96	30.03	+ .04	42.4	−2.1	78	18	50	24	14	34	31	37	33	73	3.29	+0.9	14	7,948	n.	35	s.	10	4	6	20	7.2	1.4	T.
Wausau	1,247	4	....	28.68	30.03	.....	39.2	.....	69	20	48	20	14	30	34	....	....	....	2.86	.....	10	.....	nw.	....	....	....	9	10	11	5.6	8.6	....
Charles City	1,015	10	49	28.91	30.00	+ .02	44.2	−2.1	83	18	53	24	2	35	35	39	35	74	2.94	+0.1	14	5,474	ne.	30	sw.	10	3	13	14	6.9	5.5	....
Davenport	606	71	79	29.33	29.99	+ .01	46.8	−3.4	82	18	56	28	8	38	33	41	36	70	4.40	+1.5	14	7,057	e.	32	e.	7	6	7	17	7.4	2.1	....
Des Moines	861	84	97	29.05	29.97	.00	46.8	−3.8	83	18	55	25	8	38	35	42	36	69	5.52	+2.5	13	6,660	n.	35	s.	10	5	6	19	7.4	4.8	....
Dubuque	698	81	96	29.26	30.02	+ .04	46.4	−2.5	83	18	55	27	9	38	30	40	33	63	2.05	−0.9	15	5,701	s.	27	n.	1	7	9	14	6.6	1.4	T.
Keokuk	614	64	78	29.30	29.98	.00	48.7	−3.3	82	18	57	28	9	40	31	43	38	70	3.36	0.0	13	7,283	ne.	38	sw.	20	9	11	10	5.5	2.5	....
Cairo	356	87	93	29.58	29.97	− .02	58.0	−0.3	83	18	67	33	8	49	28	50	44	64	6.96	+3.4	10	7,764	s.	47	n.	8	10	9	11	5.4	T.	....
Peoria	609	11	45	29.32	29.99	.00	47.4	−3.5	84	18	56	23	9	39	29	42	38	74	4.54	+1.3	15	7,515	ne.	34	sw.	20	8	10	12	6.3	T.	....
Springfield, Ill	644	10	91	29.28	29.96	− .02	50.0	−2.0	84	18	59	28	9	40	29	44	38	70	3.77	+0.5	16	8,094	ne.	32	sw.	20	8	6	16	6.5	0.5	....
Hannibal	534	74	109	29.40	29.98	.00	50.1	−3.5	84	18	59	29	9	41	30	....	....	....	6.38	+3.1	16	9,000	ne.	48	e.	7	6	10	14	6.4	2.2	....
St. Louis	567	265	303	29.35	29.96	− .02	53.7	−2.4	84	23	63	30	9	45	26	48	44	75	4.64	+1.1	14	11,247	s.	62	sw.	30	8	13	9	5.7	1.0	....
Missouri Valley.							**47.9**	**−2.6**										**70**	**3.96**	**+1.1**										**6.3**		
Columbia, Mo	781	11	84	29.12	29.96	−0.02	52.0	−2.3	86	23	62	28	9	42	33	....	....	....	4.64	+0.9	17	8,061	ne.	38	sw.	20	8	6	16	6.6	T.	....
Kansas City	963	161	181	28.90	29.95	− .01	52.0	−2.3	85	23	61	30	8	43	30	45	39	67	6.87	+3.6	14	10,843	s.	44	n.	7	11	4	15	5.8	2.0	....
St. Joseph	967	11	49	28.91	29.95	.....	50.7	.....	85	22	60	29	8	42	33	43	37	66	4.77	.....	13	8,347	ne.	38	nw.	20	8	10	12	5.6	1.8	....
Springfield, Mo	1,324	98	104	28.55	29.95	− .02	54.0	−1.7	82	23	64	30	9	44	27	46	38	62	4.63	+0.8	12	9,937	se.	42	w.	30	15	9	6	4.1	0.9	....
Iola	984	11	50	28.86	29.91	− .04	53.8	−0.4	86	23	65	27	9	43	39	....	....	....	4.61	+1.8	9	6,372	s.	31	n.	7	8	13	9	5.4	T.	....
Topeka	987	85	101	.....	.....	.....	51.9	−1.8	85	22	62	28	9	42	37	....	....	....	4.35	+1.6	12	9,315	ne.	37	nw.	20	8	7	15	6.1	T.	....
Drexel	1,299	10	54	28.56	29.97	.....	46.2	.....	84	18	57	21	8	36	34	40	35	74	4.53	.....	12	9,862	ne.	45	sw.	10	3	7	20	7.0	8.1	....
Lincoln	1,189	11	84	28.67	29.95	+ .01	48.8	−1.9	85	18	60	27	8	38	36	41	34	64	4.26	+1.5	11	9,627	n.	46	nw.	20	6	10	14	6.5	0.9	....
Omaha	1,105	115	122	28.78	29.97	+ .02	47.9	−2.6	85	18	57	28	8	39	32	42	36	69	3.96	+1.0	10	6,780	nw.	34	nw.	20	6	10	14	6.4	1.6	....
Valentine	2,598	47	54	27.26	30.01	+ .07	40.7	−4.7	79	9	51	22	8	31	40	36	31	76	2.36	0.0	6	7,843	nw.	41	nw.	24	7	12	11	6.1	10.2	....
Sioux City	1,135	94	164	28.76	29.99	+ .04	45.0	−3.5	77	10	54	25	8	36	37	40	36	74	3.52	+0.8	11	9,460	ne.	47	nw.	25	7	8	15	6.9	5.7	....
Huron	1,306	59	74	28.62	30.04	+ .08	41.8	−2.8	72	9	51	23	15	33	38	37	32	74	3.01	+0.4	11	8,247	nw.	39	nw.	10	7	8	15	6.5	T.	....
Pierre	1,572	70	75	28.34	30.03	+ .08	42.5	−4.0	84	9	52	22	4	33	46	37	31	70	2.39	+0.4	12	7,787	nw.	44	nw.	25	7	5	18	6.9	9.3	....
Yankton	1,233	49	57	28.65	29.98	+ .03	44.3	−3.1	78	10	54	25	8	35	40	....	....	....	2.89	+0.1	12	7,118	nw.	36	s.	17	4	9	17	7.4	1.0	....

TABLE I.—*Climatological data for Weather Bureau stations, April, 1917*—Continued.

Districts and stations.	Elevation of instruments.			Pressure.			Temperature of the air.												Precipitation.			Wind.										
	Barometer above sealevel.	Thermometer above ground.	Anemometer above ground.	Station, reduced to mean of 24 hours.	Sealevel, reduced to mean of 24 hours.	Departure from normal.	Mean max.+mean min.÷2.	Departure from normal.	Maximum.	Date.	Mean maximum.	Minimum.	Date.	Mean minimum.	Greatest daily range.	Mean wet thermometer.	Mean temperature of the dew point.	Mean relative humidity.	Total.	Departure from normal.	Days with 0.01 or more.	Total movement.	Prevailing direction.	Maximum velocity. Miles per hour.	Maximum velocity. Direction.	Maximum velocity. Date.	Clear days.	Partly cloudy days.	Cloudy days.	Average cloudiness, tenths.	Total snowfall.	Snow on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.		°F	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Northern Slope.							38.9	−3.9										67	1.98	+0.4										6.5		
Billings	3,140	5	....	....	....	....	42.0	....	76	8	54	16	16	31	48	....	....	....	1.99	....	10	....	ne.	....	....	....	7	10	13	....	....	....
Havre	2,505	11	44	27.34	30.01	+0.08	39.4	−3.3	67	8	49	21	1	30	37	35	29	69	1.35	+0.3	10	5,488	e.	30	w.	4	6	12	12	6.6	4.3	....
Helena	4,110	87	114	25.74	29.98	+ .01	38.8	−3.2	67	8	48	18	1	30	32	32	26	64	1.51	+0.4	12	6,264	sw.	39	s.	11	2	12	16	7.3	6.4	T.
Kalispell	2,962	11	34	26.89	29.98	+ .02	39.6	−2.9	57	22	49	14	1	30	29	34	27	66	1.26	+0.2	9	3,671	w.	26	n.	27	3	14	13	6.9	0.4	....
Miles City	2,371	48	55	27.47	30.06	+ .10	42.8	−1.9	72	8	53	24	1	32	37	37	33	74	1.02	−0.2	12	5,272	e.	34	nw.	23	5	19	6	5.7	2.1	....
Rapid City	3,259	50	58	26.58	30.05	+ .10	39.6	−3.9	78	9	50	13	1	30	48	33	26	62	3.95	+1.6	16	6,686	n.	39	nw.	24	5	8	17	7.3	22.6	T.
Cheyenne	6,088	84	101	23.91	29.96	+ .05	36.4	−5.2	66	9	47	6	1	26	44	30	23	64	1.75	−0.1	12	11,065	w.	47	nw.	5	4	14	12	6.9	15.4	T.
Lander	5,372	60	68	24.56	29.96	+ .02	38.0	−4.2	65	8	50	11	4	26	40	31	24	65	2.42	0.0	14	3,599	sw.	40	sw.	2	5	15	10	6.2	20.0	....
Sheridan	3,790	10	47	26.06	30.00	....	40.1	....	74	8	50	21	1	30	46	34	28	68	1.12	....	16	5,453	nw.	38	nw.	23	7	7	16	6.7	5.5	....
Yellowstone Park	6,200	11	48	23.78	30.00	+ .04	30.6	−6.4	53	8	39	10	3	22	31	26	22	73	2.64	+1.3	17	6,293	s.	36	nw.	2	5	12	13	6.3	22.7	7.3
North Platte	2,821	11	51	27.04	29.99	+ .07	44.8	−4.2	81	9	57	22	8	33	48	37	30	66	1.95	−0.2	9	7,045	n.	35	n.	19	12	8	10	5.3	2.6	....
Middle Slope.							50.8	−2.9										60	1.80	−0.4										5.5		
Denver	5,292	106	113	24.64	29.93	+0.03	44.0	−3.7	76	22	55	17	1	33	45	36	27	61	0.75	−1.4	8	6,095	se.	39	n.	19	7	10	13	6.1	7.2	....
Pueblo	4,685	80	86	25.20	29.90	+ .02	46.8	−3.7	80	22	61	21	8	33	49	36	26	55	1.39	0.0	10	5,034	nw.	40	w.	18	13	8	9	4.7	7.6	....
Concordia	1,392	50	58	28.46	29.95	+ .02	51.0	−2.6	87	22	62	28	2	40	39	43	34	60	2.60	+0.2	12	8,735	nw.	45	nw.	20	5	15	10	6.6	0.1	....
Dodge City	2,509	11	51	27.34	29.94	+ .04	51.4	−3.0	83	17	64	22	5	39	48	43	37	65	1.45	−0.4	10	10,117	n.	60	se.	17	12	9	9	5.1	0.6	....
Wichita	1,358	139	158	28.47	29.90	− .03	54.2	−2.4	84	23	65	30	5	44	36	45	37	58	2.52	−0.2	10	12,722	s.	48	s.	3	10	11	9	5.6	T.	....
Altus	1,410	5	....	....	....	....	60.6	....	90	22	74	30	5	47	52	....	....	....	3.05	....	5	....	se.	....	....	....	17	4	9	....	0.0	....
Muskogee	652	4	....	....	....	....	54.7	....	80	22	63	33	2	47	30	....	....	....	6.63	....	8	....	s.	....	....	....	13	3	14	....	0.0	....
Oklahoma	1,214	10	47	28.65	29.93	+ .01	57.6	−2.0	86	22	69	32	5	46	35	48	40	58	2.11	−0.7	9	13,740	s.	50	s.	3	9	16	5	4.8	0.0	....
Southern Slope.							61.7	−0.7										42	1.33	−0.6										2.5		
Abilene	1,738	10	52	28.10	29.89	−0.01	64.0	−0.4	95	24	77	34	5	51	42	50	36	45	0.93	−1.4	5	9,991	s.	40	nw.	30	19	7	4	3.0	0.0	....
Amarillo	3,676	10	49	26.18	29.89	+ .02	54.8	+0.2	90	23	69	26	8	40	44	42	32	52	0.71	−1.1	6	10,157	s.	42	nw.	3	24	6	0	3.1	T.	....
Del Rio	944	64	71	28.92	29.89	.00	70.6	+0.6	95	29	82	43	5	59	34	....	....	....	2.36	+0.4	4	9,347	e.	48	e.	18	19	11	0	2.4	0.0	....
Roswell	3,566	75	85	26.26	29.83	− .02	57.3	−3.3	87	26	74	28	5	41	47	41	19	28	0.00	−0.5	0	7,523	s.	42	nw.	11	22	8	0	1.5	0.0	....
Southern Plateau.							55.3	−2.5										39	0.36	0.0										2.6		
El Paso	3,762	110	133	26.09	29.81	−0.02	62.3	−1.5	87	25	76	36	5	48	41	43	18	21	T.	−0.2	0	9,684	w.	52	sw.	29	23	6	1	1.6	0.0	....
Santa Fe	7,013	57	66	23.14	29.81	− .03	46.1	−1.5	70	24	58	20	4	35	34	34	18	38	0.15	−0.7	4	7,615	sw.	40	sw.	15	9	17	4	4.4	0.5	....
Flagstaff	6,908	8	57	23.26	29.86	+ .02	38.1	−4.1	66	25	52	9	20	24	48	31	....	....	4.47	....	8	....	w.	42	sw.	9	20	5	5	....	35.9	....
Phoenix	1,108	76	81	28.72	29.87	.00	64.2	−2.4	93	25	80	37	2	49	43	52	42	53	1.22	+0.8	6	4,105	w.	25	sw.	27	23	4	3	2.7	0.0	....
Yuma	141	9	54	29.73	29.88	− .01	68.5	−1.6	98	25	84	42	1	53	43	51	34	36	0.24	+0.1	2	4,707	w.	30	n.	3	28	1	1	0.7	0.0	....
Independence	3,910	11	42	25.90	29.87	− .03	52.6	−4.1	84	25	69	21	17	36	41	42	30	47	0.17	0.0	3	....	w.	....	....	....	14	10	6	3.8	T.	....
Needles, Cal	488	4	....	29.32	29.83	....	68.0	....	103	25	85	38	2	51	49	....	....	....	0.80	....	1	....	s.	....	....	....	21	8	1	....	0.0	....
Middle Plateau.							44.8	−3.8										50	1.07	−0.1										5.1		
Reno	4,532	74	81	25.41	29.95	−0.02	45.6	−1.7	76	24	58	20	16	33	42	36	26	50	0.28	−0.3	3	6,548	w.	53	sw.	11	11	12	7	4.8	0.7	....
Tonopah	6,090	12	20	23.98	29.91	− .06	43.3	−4.0	71	25	54	19	15	33	30	34	22	47	1.22	−0.5	5	7,294	nw.	48	w.	14	14	12	4	3.9	10.3	....
Winnemucca	4,344	18	56	25.55	29.96	.00	44.4	−2.7	74	24	58	15	16	31	40	35	25	55	0.68	−0.2	9	5,634	sw.	30	sw.	11	6	10	14	6.4	2.7	....
Modena	5,479	10	43	24.52	29.88	.00	42.6	−4.3	75	25	57	16	1	28	46	33	20	51	1.17	+0.4	6	7,978	sw.	48	sw.	8	14	11	5	3.7	5.0	....
Salt Lake City	4,360	163	203	25.54	29.91	− .01	45.6	−4.5	73	8	55	24	3	37	30	37	27	50	1.49	−0.8	9	6,598	nw.	40	w.	14	6	12	12	6.0	5.4	....
Grand Junction	4,602	82	96	25.29	29.86	− .02	47.3	−5.9	77	22	59	22	4	36	37	37	24	46	1.59	+0.8	7	6,489	se.	37	w.	15	11	7	12	5.6	1.8	....
Northern Plateau.							44.9	−4.2										63	2.46	+1.1										7.4		
Baker	3,471	48	53	26.38	29.99	−0.01	40.2	−3.3	63	24	49	24	3	32	31	35	28	65	1.59	+0.6	12	4,983	se.	26	n.	27	3	13	14	6.4	0.8	....
Boise	2,739	78	86	27.12	29.99	+ .01	46.4	−4.1	66	7	56	27	3	37	28	39	30	59	3.13	+2.0	12	5,108	se.	28	nw.	25	3	10	17	7.5	3.0	....
Lewiston	757	40	48	29.17	29.99	.00	48.6	−4.3	67	4	57	32	13	40	31	....	....	....	2.81	+1.7	17	3,456	e.	28	ne.	27	1	8	21	7.9	T.	....
Pocatello	4,477	60	68	25.39	29.95	+ .01	40.6	−6.2	67	25	49	17	3	32	33	35	28	64	1.83	−0.2	14	7,169	se.	36	sw.	8	2	13	15	7.1	8.6	....
Spokane	1,929	101	110	27.92	29.99	.00	44.5	−3.2	60	22	52	31	1	37	27	38	31	63	1.71	+0.4	13	5,436	sw.	26	sw.	23	1	11	18	7.8	1.0	....
Walla Walla	991	57	65	28.92	30.00	− .01	49.0	−3.8	68	4	57	33	15	41	27	42	35	62	3.68	+2.0	20	4,592	s.	25	se.	7	2	11	17	7.5	0.3	....
North Pacific Coast Region.							47.0	−2.6										82	5.97	+0.5										7.7		
North Head	211	11	56	29.78	30.02	−0.03	44.6	−2.9	60	28	48	37	12	41	16	44	43	94	6.06	+2.8	25	13,735	s.	72	se.	1	1	6	23	8.6	0.0	....
North Yakima	1,071	4	....	....	....	....	47.6	....	68	26	60	25	1	36	35	....	....	....	0.59	....	8	....	nw.	....	....	....	4	13	13	....	0.0	....
Port Angeles	42	8	48	29.96	29.99	....	44.6	....	66	28	51	31	1	38	29	....	....	....	1.95	....	19	3,833	nw.	23	ne.	13	4	9	17	7.0	0.0	....
Seattle	125	215	250	29.90	30.03	.00	46.8	−2.4	64	28	53	36	15	41	23	43	39	77	4.48	+1.8	22	6,986	s.	42	sw.	22	1	8	21	8.2	0.0	....
Tacoma	213	113	120	29.79	30.02	− .01	46.8	−2.1	64	28	53	33	22	40	28	45	43	88	5.78	+3.0	24	4,115	sw.	26	sw.	21	1	10	19	8.1	T.	....
Tatoosh Island	109	7	57	29.87	29.97	− .03	44.2	−5.2	56	28	48	35	1	40	15	43	41	89	10.76	+4.4	26	9,861	e.	52	s.	21	4	9	17	7.0	T.	....
Medford	1,425	4	....	....	....	....	49.8	....	79	24	61	29	18	38	40	....	....	....	1.25	....	13	....	nw.	....	....	....	3	9	18	....	0.0	....
Portland, Oreg.	153	68	106	29.87	30.03	− .03	49.4	−1.8	67	28	56	37	15	43	23	44	39	73	5.36	+2.3	24	4,745	sw.	26	w.	10	1	4	25	8.4	0.0	....
Roseburg	510	9	57	29.51	30.07	.00	50.0	−0.9	76	24	59	33	15	41	33	44	39	71	3.37	+0.9	21	2,719	nw.	20	sw.	11	1	22	7	6.3	T.	....
Middle Pacific Coast Region.							53.3	−0.3										67	1.20	−0.9										3.7		
Eureka	62	73	89	30.04	30.11	0.00	49.0	−0.5	62	22	55	34	15	43	21	46	43	82	3.78	−0.2	14	5,995	se.	37	n.	28	6	13	11	6.2	0.0	....
Mount Tamalpais	2,375	11	18	27.56	30.05	.00	48.8	−0.7	68	4	55	31	15	43	19	42	34	64	1.28	−0.2	9	14,289	nw.	76	nw.	2	13	11	6	4.1	0.0	....
Point Reyes Light	490	7	18	29.49	30.01	− .02	49.2	+0.6	63	4	54	40	16	45	18	....	....	....	1.19	....	12	14,454	nw.	61	nw.	26	13	8	9	4.3	0.0	....
Red Bluff	332	50	56	29.64	30.00	− .03	57.6	−1.5	83	25	68	32	16	47	33	48	37	53	0.91	−0.9	5	4,762	se.	27	nw.	26	17	5	8	4.2	0.0	....
Sacramento	69	106	117	29.95	30.02	+ .01	57.8	−0.2	83	25	69	36	16	46	31	50	42	61	0.62	−1.4	4	6,193	s.	32	nw.	28	20	7	3	2.8	0.0	....
San Francisco	155	209	213	29.88	30.05	.00	55.1	+1.4	76	4	62	43	16	48	25	49	45	75	0.33	−1.5	5	6,451	sw.	37	sw.	11	26	2	2	1.6	0.0	....
San Jose	141	12	110	29.90	30.05	....	55.6	−1.1	80	21	68	35	17	43	37	....	....	....	0.26	−1.2	5	4,652	nw.	25	nw.	14	20	5	5	3.0	0.0	....
South Pacific Coast Region.							57.4	−0.5										67	0.46	−0.6										3.3		
Fresno	327	89	98	29.65	30.01	+0.02	59.3	−1.9	87	25	73	38	15	46	33	49	39	56	0.21	−0.5	3	6,359	nw.	30	nw.	7	20	9	1	2.5	0.0	....
Los Angeles	338	159	191	29.63	30.00	+ .01	57.9	+0.3	84	5	67	42	18	49	27	50	44	68	0.46	−0.7	5	4,532	sw.	35	nw.	2	15	10	5	3.7	0.0	....
San Diego	87	62	70	29.90	29.99	.00	57.0	−1.2	79	5	63	44	1	51	26	52	47	76	1.06	+0.3	6	5,299	w.	43	s.	16	13	8	9	4.5	0.0	....
San Luis Obispo	201	32	40	29.85	30.07	+ .02	55.6	+0.4	85	5	68	32	17	44	38	48	43	68	0.11	−1.4	3	3,620	nw.	24	w.	14	21	8	1	2.4	0.0	....
West Indies.																																
San Juan, P. R.	82	8	54	29.88	29.97	−0.01	76.3	....	90	23	82	65	7	70	23	....	....	....	2.82	−1.0	16	8,380	se.	32	e.	2	8	15	7	5.3	0.0	....
Panama Canal.																																
Balboa Heights	118	7	97	29.74	29.86	....	80.3	....	94	25	88	69	25	72	25	73	71	81	2.24	−0.6	6	6,221	n.	26	n.	27	1	28	1	5.9	0.0	....
Colon	25	5	71	29.84	29.88	....	79.2	....	90	14	82	72	27	76	15	75	73	80	1.87	−2.3	11	8,269	n.	27	nw.	28	5	16	9	5.8	0.0	....
Alaska.																																
Juneau	80	11	49	....	....	....	41.9	....	64	29	51	25	3	33	29	36	30	67	1.69	....	7	2,857	s.	16	se.	9	9	10	11	5.5	1.0	....

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during April, 1917, 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	30			0.33														0.33			
Albany, N. Y	20			0.59														0.29			
Alpena, Mich	5			0.66														*			
Amarillo, Tex	10			0.29														0.22			
Anniston, Ala	4			2.68														0.55			
Asheville, N. C	25			0.34														0.28			
Atlanta, Ga	4			1.90														0.32			
Atlantic City, N. J	13			0.54														0.12			
Augusta, Ga	4			1.61														0.52			
Baker, Oreg	11-12			0.43														*			
Baltimore, Md	5			1.17														0.42			
Bentonville, Ark	27	6:02 p. m.	7:40 p. m.	0.92	6:27 p. m.	6:57 p. m.	0.10	0.12	0.26	0.38	0.48	0.56	0.73								
Binghamton, N. Y	5			0.32														0.10			
Birmingham, Ala	4			2.69														0.54			
Bismarck, N. Dak	16			0.89														*			
Block Island, R. I	6			0.57														0.17			
Boise, Idaho	27-28			1.06														*			
Boston, Mass	6			1.19														0.33			
Buffalo, N. Y	5			0.73														0.14			
Burlington, Vt	20			0.58														*			
Cairo, Ill	1	12:15 a. m.	1:10 p. m.	3.61	4:25 a. m.	4:51 a. m.	1.12	0.06	0.13	0.21	0.41	0.50	0.53								
					9:12 a. m.	10:03 a. m.	2.48	0.16	0.29	0.37	0.48	0.53	0.58	0.65	0.75	0.80	0.85	0.90			
Canton, N. Y	26			0.41														0.16			
Charles City, Iowa	28-29			0.94														*			
Charleston, S. C	14			0.40														0.22			
Charlotte, N. C	8			0.60														0.37			
Chattanooga, Tenn	28	1:25 p. m.	2:16 p. m.	0.40	1:49 p. m.	1:58 p. m.	0.01	0.19	0.35												
Cheyenne, Wyo	28-29			0.36														*			
Chicago, Ill	30			0.79														0.32			
Cincinnati, Ohio	2			1.04														0.44			
Cleveland, Ohio	30			0.50														0.30			
Columbia, Mo	30			0.96														0.34			
Columbia, S. C	5			0.87														0.38			
Columbus, Ohio	5			1.06														0.19			
Concord, N. H	6			0.65														*			
Concordia, Kans	28			0.85														0.30			
Corpus Christi, Tex	20	5:01 a. m.	8:25 a. m.	0.93	5:01 a. m.	5:41 a. m.	0.00	0.15	0.31	0.42	0.49	0.55	0.59	0.65	0.73						
Dallas, Tex	27-28			2.36														*			
Davenport, Iowa	24			1.24														0.63			
Dayton, Ohio	30	5:20 p. m.	6:32 p. m.	0.58	5:35 p. m.	5:47 p. m.	0.03	0.17	0.46	0.52											
Del Rio, Tex	18	7:45 p. m.	10:20 p. m.	1.37	8:06 p. m.	8:41 p. m.	0.05	0.10	0.18	0.30	0.44	0.52	0.58	0.65							
	27	3:24 p. m.	4:15 p. m.	0.60	3:26 p. m.	3:48 p. m.	0.01	0.15	0.20	0.33	0.49	0.55									
Denver, Colo	28-29			0.22														*			
Des Moines, Iowa	28			1.64														0.38			
Detroit, Mich	18	7:17 p. m.	9:20 p. m.	0.85	8:06 p. m.	8:15 p. m.	0.04	0.43	0.61												
Devils Lake, N. Dak	24			0.75														*			
Dodge City, Kans	12			0.37														0.19			
Drexel, Nebr	28			1.67														0.41			
Dubuque, Iowa	28			0.51														0.25			
Duluth, Minn	25			0.67														*			
Eastport, Me	9-10			1.51														*			
Elkins, W. Va	18			0.24														0.16			
El Paso, Tex	10			T.														T.			
Erie, Pa	18			0.75														0.35			
Escanaba, Mich	18			0.48														*			
Eureka, Cal	11			0.54														0.20			
Evansville, Ind	1			2.54														0.45			
Flagstaff, Ariz	16-17			1.90														*			
Fort Smith, Ark	29-30	11:10 p. m.	D. N. a. m.	0.64	12:17 a. m.	12:42 a. m.	0.04	0.06	0.25	0.44	0.50	0.58									
Fort Wayne, Ind	5			1.15														0.21			
Fort Worth, Tex	27	6:24 p. m.	10:55 p. m.	1.67	8:14 p. m.	8:45 p. m.	0.04	0.14	0.35	0.57	0.79	0.98	1.15	1.18							
Fresno, Cal	28			0.16														0.16			
Galveston, Tex	4			0.56														0.35			
Grand Haven, Mich	18			1.08														0.57			
Grand Junction, Colo	26			0.29														0.12			
Grand Rapids, Mich	18			0.92														0.47			
Green Bay, Wis	30			0.57														*			
Hannibal, Mo	29			0.90														0.41			
Harrisburg, Pa	5			1.01														0.22			
Hartford, Conn	6			1.08														0.21			
Hatteras, N. C	8			0.57														0.43			
Havre, Mont	23			0.56														0.27			
Helena, Mont	12			0.16														0.08			
Houghton, Mich	25-26			0.65														*			
Houston, Tex	12	D. N. a. m.	5:15 a. m.	0.74	4:46 a. m.	4:57 a. m.	0.02	0.13	0.50	0.71											
Huron, S. Dak	24			0.48														0.26			
Independence, Cal	28			0.07														*			
Indianapolis, Ind	19			0.56														0.42			
Iola, Kans	27	3:40 p. m.	6:55 p. m.	1.27	4:14 p. m.	4:34 p. m.	0.02	0.23	0.42	0.64	0.71										
Jacksonville, Fla	13			0.38														0.22			
Juneau, Alaska	10			0.18														0.15			
Kalispell, Mont	23			0.37														*			
Kansas City, Mo	17	D. N. a. m.	6:35 a. m.	0.87	2:22 a. m.	2:45 a. m.	0.03	0.15	0.22	0.36	0.49	0.54									
	27	D. N. a. m.	2:25 p. m.	2.03	3:33 a. m.	4:37 a. m.	0.30	0.10	0.14	0.16	0.23	0.27	0.31	0.53	0.60	0.70	0.78	0.91	1.18		
Keokuk, Iowa	19			0.34														0.28			
Key West, Fla	8			0.88														0.68			
Knoxville, Tenn	4			0.78														0.17			
La Crosse, Wis	18			0.90														0.43			
Lander, Wyo	26-27			0.76														*			
Lansing, Mich	19			1.01														0.58			
Lewiston, Idaho	14			0.61														0.15			
Lexington, Ky	1			1.26														0.33			
Lincoln, Nebr	27-28			1.74														*			
Little Rock, Ark	7	10:55 a. m.	4:00 p. m.	0.84	1:52 p. m.	2:12 p. m.	0.33	0.09	0.26	0.35	0.46										
Los Angeles, Cal	9			0.26														0.25			
Louisville, Ky	1			1.57														0.38			
Ludington, Mich	30			0.75														0.14			
Lynchburg, Va	5			1.69														0.41			
Macon, Ga	4-5	1:09 p. m.	7:40 a. m.	2.99	6:58 a. m.	7:33 a. m.	2.36	0.06	0.07	0.19	0.31	0.39	0.50	0.63							
Madison, Wis	18			0.76														0.34			
Marquette, Mich	25-26			0.84														*			

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

TABLE II.—*Accumulated amounts of precipitation for each 5 minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any 5 minutes, or 0.80 in 1 hour, during April, 1917, 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.
Memphis, Tenn.	7			1.31														0.41			
	7	7:50 p.m.	D. N. p.m.	1.00	10:12 p.m.	10:34 p.m.	0.36	0.18	0.37	0.43	0.52	0.57									
Meridian, Miss.	17	5:05 p.m.	6:15 p.m.	0.79	5:08 p.m.	5:30 p.m.	0.01	0.19	0.51	0.65	0.72	0.77									
Miami, Fla.	13	1:05 p.m.	2:40 p.m.	1.88	1:12 p.m.	1:47 p.m.	0.02	0.19	0.49	0.84	1.10	1.36	1.63	1.79							
		3:05 p.m.	4:25 p.m.	1.34	3:06 p.m.	3:58 p.m.	T.	0.30	0.67	0.85	0.85	0.85	0.85	0.93	1.01	1.14	1.27	1.32			
Milwaukee, Wis.	18			1.00														0.30			
Minneapolis, Minn.	24			0.59														0.21			
Mobile, Ala.	4–5	7:50 p.m.	D. N. a.m.	1.24	10:44 p.m.	11:18 p.m.	0.44	0.07	0.10	0.18	0.20	0.33	0.51	0.59							
	8	D. N. a.m.	D. N. a.m.	0.57	12:34 a.m.	12:45 a.m.	0.04	0.10	0.51	0.53											
Modena, Utah	28–29			0.90														*			
Montgomery, Ala.	8			0.62														0.48			
Moorhead, Minn.	24			0.72														*			
Mount Tamalpais, Cal.	11			0.65														0.19			
Nantucket, Mass.	6			1.31														0.60			
Nashville, Tenn.	1			1.50														0.76			
Needles, Cal.																					
New Haven, Conn.	6			1.07														0.33			
New Orleans, La.	4	6:35 p.m.	D. N. p.m.	2.29	7:42 p.m.	8:20 p.m.	0.01	0.05	0.12	0.25	0.51	0.85	1.14	1.19	1.27						
New York, N. Y.	5			0.47														0.18			
Norfolk, Va.	5			1.19														0.28			
Northfield, Vt.	6–7			0.59														*			
North Head, Wash.	10			0.65														0.16			
North Platte, Nebr.	19–20			1.02														*			
Oklahoma, Okla.	30			0.77														0.44			
Omaha, Nebr.	28			1.24														0.42			
Oswego, N. Y.	5–6			0.74														*			
Palestine, Tex.	4	4:05 a.m.	9:15 a.m.	1.08	7:13 a.m.	7:42 a.m.	0.07	0.11	0.17	0.31	0.56	0.74	0.80								
	11	7:03 p.m.	9:50 p.m.	1.02	7:39 a.m.	8:04 p.m.	0.06	0.32	0.48	0.60	0.66	0.78									
	19–20	11:45 p.m.	3:40 a.m.	0.74	12:08 a.m.	12:23 a.m.	0.03	0.12	0.48	0.59											
Parkersburg, W. Va.	30			0.33														0.27			
Pensacola, Fla.	21	12:35 p.m.	1:55 p.m.	0.56	1:03 p.m.	1:19 p.m.	0.01	0.15	0.40	0.48	0.52										
Peoria, Ill.	23–24			0.90														0.32			
Philadelphia, Pa.	5			1.18														0.25			
Phoenix, Ariz.	27			0.24														0.09			
Pierre, S. Dak.	24			0.47														0.36			
Pittsburgh, Pa.	18			0.50														0.36			
Pocatello, Idaho	14–15			0.72														*			
Point Reyes Light, Cal.	11			0.50														0.14			
Port Angeles, Wash.	24			0.45														0.17			
Port Arthur, Tex.	12	D. N. a.m.	7:40 a.m.	1.19	6:09 a.m.	6:35 a.m.	0.31	0.06	0.19	0.29	0.53	0.68	0.70								
Port Huron, Mich.	20			0.27														0.26			
Portland, Me.	6			1.66														0.25			
Portland, Oreg.	1			0.57														0.17			
Providence, R. I.	9			0.88														*			
Pueblo, Colo.	13			0.26														0.09			
Raleigh, N. C.	8	3:00 p.m.	8:25 p.m.	1.69	3:51 p.m.	4:34 p.m.	0.27	0.10	0.19	0.25	0.36	0.43	0.47	0.54	0.63	0.71					
Rapid City, S. Dak.	15–16			1.39														*			
Reading, Pa.	19			0.30														0.30			
Red Bluff, Cal.	8			0.56														0.37			
Reno, Nev.	28			0.13														*			
Richmond, Va.	5			0.92														0.16			
Rochester, N. Y.	20			0.32														0.23			
Roseburg, Oreg.	30			0.50														0.18			
Roswell, N. Mex.	‡			‡																	
Sacramento, Cal.	22			0.39														0.09			
Saginaw, Mich.	19			0.25														0.17			
St. Joseph, Mo.	28			0.75														0.39			
St. Louis, Mo.	27			1.28														0.61			
St. Paul, Minn.	24			0.65														0.24			
Salt Lake City, Utah	18			0.38														*			
San Antonio, Tex.	19–20			0.21														0.18			
San Diego, Cal.	16			0.86														0.22			
Sand Key, Fla.	13	12:20 p.m.	12:53 p.m.	0.68	12:32 p.m.	12:48 p.m.	0.03	0.11	0.32	0.59	0.65										
Sandusky, Ohio	1			0.86														0.24			
Sandy Hook, N. J.	21			0.22														0.18			
San Francisco, Cal.	11			0.25														0.14			
San Jose, Cal.	14			0.06														0.06			
San Luis Obispo, Cal.	16			0.09														0.04			
Santa Fe, N. Mex.	1			0.06														*			
Sault Ste. Marie, Mich.	25–26			0.30														*			
Savannah, Ga.	8			0.66														0.39			
Scranton, Pa.	5–6			†0.55														*			
Seattle, Wash.	10			0.37														0.12			
Sheridan, Wyo.	28			0.27														*			
Shreveport, La.	4			1.20														0.55			
Sioux City, Iowa	17	7:01 p.m.	11:45 p.m.	0.85	10:36 p.m.	11:21 p.m.	0.07	0.10	0.30	0.35	0.46	0.51	0.55	0.59	0.65	0.73					
Spokane, Wash.	7–8			0.48														*			
Springfield, Ill.	27			1.21														0.25			
Springfield, Mo.	1			1.17														0.55			
Syracuse, N. Y.	5–6			0.68														*			
Tacoma, Wash.	4			0.72														0.14			
Tampa, Fla.	5			0.46														0.46			
Tatoosh Island, Wash.	1			0.96														0.24			
Taylor, Tex.	19	12:31 a.m.	D. N. a.m.	1.25	1:11 a.m.	2:09 a.m.	0.01	0.08	0.17	0.26	0.34	0.45	0.61	0.68	0.72	0.83	0.95	1.18			
Terre Haute, Ind.	19			0.38														0.28			
Thomasville, Ga.	8			0.65														0.39			
Toledo, Ohio	20			0.33														0.33			
Tonopah, Nev.	16–17			0.94														*			
Topeka, Kans.	27–28	7:45 p.m.	7:40 a.m.	1.97	2:35 a.m.	2:52 a.m.	0.69	0.09	0.25	0.42	0.47										
Valentine, Nebr.	19			0.83														0.11			
Vicksburg, Miss.	1	9:10 p.m.	10:40 p.m.	1.71	9:24 p.m.	10:03 p.m.	0.01	0.06	0.31	0.71	0.85	1.05	1.29	1.44	1.68						
	4	10:49 a.m.	8:30 p.m.	1.65	12:10 p.m.	12:48 p.m.	0.09	0.12	0.31	0.44	0.55	0.56	0.60	0.66	0.76						
	7	4:54 p.m.	7:55 p.m.	1.12	5:55 p.m.	6:46 p.m.	0.07	0.15	0.41	0.44	0.45	0.48	0.51	0.65	0.76	0.85	0.91	0.97			
Walla Walla, Wash.	8			0.80														0.22			
Washington, D. C.	5			0.78														0.24			
Wausau, Wis.	25			0.79														*			
Wichita, Kans.	30			0.81														0.29			
Williston, N. Dak.	23			0.60														0.35			
Wilmington, N. C.	8			0.88														0.37			
Winnemucca, Nev.	27–28			0.23														*			
Wytheville, Va.	28–29			0.55														0.23			
Yankton, S. Dak.	19			0.79														0.34			
Yellowstone Park, Wyo.	25–26			0.59														*			

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

TABLE III.—*Data furnished by the Canadian Meteorological Service, April, 1917.*

Stations.	Altitude above M. S. L.* Jan. 1, 1916.	Pressure.			Temperature.						Precipitation.		
		Station, reduced to mean of 24 hours.	Sealevel, 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.
	Feet.	*Inches.*	*Inches.*	*Inches.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F.	125	29.62	29.76	−0.13	37.5	+3.0	42.8	32.2	62	22	8.79	+4.63	3.0
Sydney, C. B. I.	48	29.84	29.88	− .01	38.0	+3.0	45.5	30.5	60	22	4.06	+0.21	1.0
Halifax, N. S.	88	29.75	29.86	− .10	40.7	+2.9	49.6	31.8	68	25	5.30	+1.12	4.7
Yarmouth, N. S.	65	29.79	29.86	− .10	38.6	−0.3	44.6	32.7	55	22	5.69	+2.30	9.1
Charlottetown, P. E. I.	38	29.82	29.86	− .04	37.5	+2.3	43.6	31.5	58	28	3.56	+0.91	2.8
Chatham, N. B.	28	29.89	29.91	+0.01	37.0	+1.5	44.0	29.9	58	16	5.26	+2.63	13.6
Father Point, Que.	20	29.93	29.95	+ .02	34.1	+0.9	39.1	29.1	48	18	3.29	+1.71	14.7
Quebec, Que.	296	29.62	29.95	− .04	35.9	+0.8	42.9	29.0	56	11	1.26	−0.83	0.9
Montreal, Que.	187	29.73	29.94	− .06	39.2	−0.5	46.0	32.5	64	18	2.37	+0.13	2.0
Stonecliffe, Ont.	489	29.34	29.96	− .06	39.2	+1.3	46.5	31.9	64	16	1.76	+0.20	4.6
Ottawa, Ont.	236	29.69	29.96	−0.06	39.5	−0.5	47.0	31.9	62	18	2.95	+1.45	9.7
Kingston, Ont.	285	29.66	29.98	− .04	40.8	+0.8	47.2	34.5	60	19	2.36	+0.57	1.6
Toronto, Ont.	379	29.57	29.99	− .03	41.1	+0.3	48.8	33.4	65	20	3.36	+0.99	2.8
White River, Ont.	1,244	28.69	30.04	± .00	28.3	−4.7	38.9	17.8	54	− 7	0.96	−0.29	2.6
Port Stanley, Ont.	592	29.33	29.99	− .03	39.5	−1.5	47.3	31.8	67	18	4.60	+2.13	2.7
Southampton, Ont.	656	29.28	.....	.....	37.5	−1.2	45.0	29.9	73	18	3.69	+1.89	10.0
Parry Sound, Ont.	688	29.28	29.98	−0.04	37.7	+0.1	46.5	28.9	70	13	2.84	+0.93	3.9
Port Arthur, Ont.	644	29.37	30.11	+ .08	33.5	0.0	42.0	25.0	50	12	0.68	−1.04	0.7
Winnipeg, Man.	760	29.29	30.15	+ .13	35.0	−0.9	44.3	25.7	58	15	0.22	−0.83	0.8
Minnedosa, Man.	1,690	28.27	30.14	+ .13	31.7	−4.3	40.7	22.8	49	7	0.86	−0.20	8.6
Qu'Appelle, Sask.	2,115	27.77	30.07	+0.08	32.0	−5.4	40.1	23.9	50	3	1.73	+0.68	15.1
Medicine Hat, Alberta.	2,144	27.66	29.96	+ .04	40.7	−3.8	52.3	29.2	64	20	0.83	+0.09	5.0
Swift Current, Sask.	2,392	27.40	30.02	+ .06	35.3	−6.0	44.4	26.2	58	4	1.10	+0.17	9.0
Calgary, Alberta.	3,428	26.41	30.00	+ .10	35.9	−3.7	48.0	23.8	62	10	0.90	+0.26	7.8
Banff, Alberta.	4,521	25.32	29.97	+ .07	31.8	−3.5	41.2	22.4	49	− 5	0.78	−0.30	7.8
Edmonton, Alberta.	2,150	27.68	30.00	+0.11	34.3	−5.6	44.1	24.6	52	7	1.05	+0.17	10.3
Prince Albert, Sask.	1,450	28.52	30.12	+ .14	30.8	−5.3	40.6	20.9	52	−10	1.04	+0.21	10.4
Battleford, Sask.	1,592	28.31	30.10	+ .13	32.3	−4.9	40.9	23.8	50	2	1.23	+0.76	11.0
Kamloops, B. C.	1,262	28.68	29.98	+ .05	46.5	−2.4	58.0	34.9	68	19	0.80	+0.41	1.2
Victoria, B. C.	230	29.72	29.97	− .04	46.5	−0.3	51.9	41.1	65	35	2.41	+0.04	0.0
Barkerville, B. C.	4,180	25.58	29.94	+0.08	31.3	−1.8	40.2	22.4	46	5	1.20	−0.62	12.0
Hamilton, Bermuda.	151	29.86	30.03	− .02	63.1	−0.8	68.3	57.9	72	51	1.88	−2.30	0.0

* See description of Table III in this REVIEW, January, p. 40.

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St. Johns, N. F.	125	29.66	29.80	−0.08	25.3	−2.4	32.1	18.5	50	2	3.05	−1.71	14.4

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