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 that the total number of stations.

Summary of temperature and precipitation, by sections, September, 1914.

Section.	Temperature (°F.).								Precipitationin (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	72.4	−2.5	2 stations	100	1†	Cordova	42	25	4.69	+1.14	Robertsdale	15.39	Cullman	0.75
Arizona	74.8	+1.9	Quartzsite	111	19	2 stations	28	14†	0.79	−0.28	Pinal Ranch	4.67	4 stations	0.00
Arkansas	74.4	+1.1	Lewisville	101	9†	Dutton	38	24	3.19	−0.24	Brinkley	10.61	Fulton	0.41
California	66.2	−2.3	2 stations	112	11†	Macdoel	15	15	0.33	−0.26	Crescent City	8.11	107 stations	0.00
Colorado	59.3	+2.3	Lamar	104	4	Lay	10	14	0.71	−0.70	Platoro	3.60	2 stations	0.00
Florida	77.8	−1.4	Apalachicola	100	9	Wausau	50	14†	7.29	+0.37	Garniers (near)	13.14	Grasmere	2.42
Georgia	72.7	−2.1	Dublin	100	8	Blue Ridge	38	27	3.53	−0.16	Thomasville	7.58	Hartwell	0.69
Hawaii (August)	75.1	.....	4 stations	92	13†	Volcano House, Hawaii.	52	22	13.91	.....	Honomu, Hawaii	84.41	2 stations	0.00
Idaho	55.5	−1.6	2 stations	100	2†	Kilgore	14	10	1.64	+0.75	Burke	4.09	Glenns Ferry	0.14
Illinois	66.8	−0.4	Carbondale	95	1†	Sycamore	34	26	3.82	+0.46	Lanark	8.44	Charleston	1.05
Indiana	66.2	−1.2	Hammond	99	2	Collegeville	33	26	2.34	−0.66	Decker	5.07	Connersville	0.68
Iowa	64.5	+1.1	2 stations	99	5	Washta	30	4	7.88	+4.52	Lenox	16.24	Lake Park	2.48
Kansas	72.1	+3.0	Scott City	107	5	3 stations	35	23†	2.84	+0.01	Horton	11.37	Coolidge	0.00
Kentucky	67.8	−2.8	Beattyville	97	21	2 stations	36	26†	2.96	+0.26	Blandville	6.04	Farmers	1.03
Louisiana	77.3	−0.3	Angola	105	10	Cameron	42	25	2.85	−1.15	Lawrence	7.15	Shreveport	0.15
Maryland & Delaware	64.8	−3.0	3 stations	98	21†	Deer Park, Md	21	29	0.93	−2.24	Keedysville, Md	3.09	Seaford, Del	0.40
Michigan	60.1	0.0	2 stations	93	20†	Watersmeet	23	8†	2.27	−0.60	Bloomingdale	10.67	East Tawas	0.51
Minnesota	60.0	−1.4	Warren	93	19	3 stations	26	25†	3.08	−0.14	St. Cloud	6.49	Crookston	0.67
Mississippi	74.7	−0.6	Hazelhurst	100	8	Duck Hill	42	26	4.43	+0.87	Waynesboro	12.32	Natchez	0.78
Missouri	69.6	+0.5	2 stations	99	5	Cassville	35	26	6.27	+2.52	Kansas City	16.17	Hollister	2.20
Montana	55.7	−0.4	Fallon	100	17	Lima	9	13	1.48	−0.03	Belton	4.80	Augusta	T.
Nebraska	65.4	+1.7	Weeping Water	105	5	Mitchell	23	14	2.18	+0.07	Falls City	13.77	3 stations	0.00
Nevada	58.9	−0.8	Logan	103	18†	Potts	17	13†	0.45	−0.10	Columbia	1.79	2 stations	0.00
New England	60.2	+0.1	3 stations	97	22	Norfolk, Mass	18	29	0.98	−2.55	Van Buren, Me	4.07	Concord, Mass	0.12
New Jersey	64.0	−1.6	do	99	22	2 stations	24	29	0.37	−3.58	Woodbine	1.64	Belvidere	0.14
New Mexico	65.7	+0.9	Artesia	102	7	Elizabethtown	22	24	0.67	−0.80	Mountain Park	2.92	4 stations	0.00
New York	59.6	−1.5	Wappingers Falls	99	22	Lake Placid Club	18	29	1.51	−1.86	Dannemora	3.41	New York City	0.20
North Carolina	68.1	−2.6	Greensboro	99	2	Banners Elk	32	27	3.16	−0.47	Bolton	9.19	Andrews	0.90
North Dakota	59.3	+2.9	2 stations	98	18	3 stations	25	22	1.06	−0.56	Wahpeton	3.14	McKinney	0.28
Ohio	63.4	−2.2	3 stations	97	21†	Lisbon	26	28	1.41	−1.28	Montpelier	3.42	Killbuck	0.65
Oklahoma	75.3	+1.6	Hooker	106	7	Kenton	35	24	2.15	−0.31	Whiteagle	7.61	2 stations	T.
Oregon	56.7	−1.7	Blalock	98	24	Whitaker	9	27	3.21	+1.45	Happy Home	13.56	Diamond	0.05
Pennsylvania	61.5	−2.5	Lock Haven	98	22	West Bingham	21	28	0.99	−2.27	Irwin	2.67	Center Hall	0.03
Porto Rico	79.1	+0.3	2 stations	98	14†	Aibonito	51	10†	4.99	−3.10	Anasco	17.35	San German	0.20
South Carolina	71.3	−2.9	Blackville	101	8	5 stations	43	11†	3.63	−0.41	Georgetown	7.55	Liberty	1.45
South Dakota	63.1	+1.7	Oelrichs	104	19	Oelrichs	23	14	2.09	+1.06	Vermillion	6.50	Daviston	0.40
Tennessee	70.3	−0.5	Pinewood	101	2	Mountain City	33	27	2.53	−0.41	Union City	9.26	Lebanon (near)	0.99
Texas	77.3	+0.1	San Juanito	105	18	Midland	35	30	1.46	−1.46	Brighton	5.25	3 stations	0.00
Utah	61.1	−0.1	St. George	100	19	Scofield	18	14	0.48	−0.57	Silver City	2.11	Morgan	0.00
Virginia	65.8	−2.3	Petersburg	100	2	Burkes Garden	28	27	1.65	−1.69	Diamond Springs	3.12	Dale Enterprise	0.51
Washington	56.5	−1.5	Eltopia	95	2	Deer Park	25	12	2.63	+0.77	Lake Cushman	12.21	Eltopia	0.01
West Virginia	63.2	−3.1	2 stations	97	1†	Bayard	24	29	1.58	−1.33	Nuttallburg	5.65	Beckley	0.17
Wisconsin	59.9	0.0	3 stations	90	19†	Glen Flora	25	25	3.97	+0.48	Shullsburg	9.95	Hayward	1.27
Wyoming	53.9	+1.1	Colony	98	30	Willow Creek	12	13†	0.82	−0.35	Moran	3.28	Hyattville	0.00

† Other dates also.

DESCRIPTION OF TABLES AND CHARTS.

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

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

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

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

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

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

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

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

Chart III.—Tracks of centers of low areas. The roman numerals show the chronological order of the centers. The figures within the circles show the days of the month; the letters *a* and *p* indicate, respectively, the observations at 8 a. m. and 8 p. m., seventy-fifth meridian time. Within each circle is also given (Chart II) the last three figures of the highest barometric reading and (Chart III)

the lowest reading reported at or near the center at that time, and in both cases as reduced to sea level and standard gravity.

Chart IV.—Temperature departures. This chart presents the departures of the monthly mean temperatures from the monthly normals. The normals used in computing the departures were computed for a period of 31 years (1883 to 1903) and are published in Weather Bureau Bulletin "R," Washington, 1908. The shaded portions of the chart indicate areas of positive departures and unshaded portions indicate areas of negative departures. Generalized lines connect places having approximately equal departures of like sign. This chart of monthly temperature departures in the United States was first published in the Monthly Weather Review for July, 1909.

Chart V.—Total precipitation. The scale of shades showing the depth is given on the chart. Where the monthly amounts are too small to justify shading, and over sections of the country where stations are too widely separated or the topography is too diversified to warrant reasonable accuracy in shading, the actual depths are given for a limited number of representative stations. Amounts less than 0.005 inch are indicated by the letter T, and no precipitation by 0.

Chart VI.—Percentage of clear sky between sunrise and sunset. The average cloudiness at each Weather Bureau station is determined by numerous personal observations between sunrise and sunset. The difference between the observed cloudiness and 100 is assumed to represent the percentage of clear sky, and the values thus obtained are the basis of this chart. The chart does not relate to the nighttime.

Chart VII.—Isobars and isotherms at sea level and prevailing wind directions. The pressures have been reduced to sea level and standard gravity by the method described by Prof. Frank H. Bigelow on pages 13–16 of the REVIEW for January, 1902. The pressures have also been reduced to the mean of the 24 hours by the application of a suitable correction to the mean of the 8 a. m. and 8 p. m. readings at stations taking two observations daily, and to the 8 a. m. or the 8 p. m. observations, respectively, at stations taking but a single observation. The diurnal corrections so applied will be found in the Annual Report of the Chief of the Weather Bureau, 1900–1901, volume 2, Table 27, pages 140–164.

The isotherms on the sea level plane have been constructed by means of the data summarized in chapter 8 of volume 2 of the annual report just mentioned. The correction t_0–t, or temperature on the sea-level plane minus the station temperature as given by Table 48 of that report, is added to the observed surface temperature to obtain the adopted sea-level temperature.

The prevailing wind directions are determined from hourly observations at the great majority of the stations; a few stations having no self-recording wind direction apparatus determine the prevailing direction from the daily or twice-daily observations only.

Chart VIII.—Total snowfall. This is based on the reports from regular and cooperative observers and shows the depth in inches and tenths of the snowfall during the month. In general, the depth is shown by lines inclosing areas of equal snowfall, but in special cases figures are also given.

Chart VIII is published only when the general snow cover is sufficiently extensive to justify its preparation

TABLE I.—*Climatological data for United States Weather Bureau stations, September, 1914.*

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.							61.2	+ 0.5										73	1.02	− 1.1										4.3		
Eastport	76	67	85	29.96	30.04	+0.01	57.7	+ 2.5	81	22	66	35	29	50	29	52	49	78	2.92	0.0	9	5,160	s.	24	n.	28	11	10	9	5.2		
Greenville	1,070	6		28.91	30.07		56.8		89	23	67	28	29	47	34				2.68		13											
Portland, Me.	103	82	117	29.97	30.09	+ .04	61.3	+ 1.7	92	22	71	32	29	52	29	53	48	67	0.73	− 2.5	5	5,597	n.	27	nw.	26	15	7	8	4.4		
Concord	288	70	79	29.79	30.10	+ .04	59.2	+ 0.1	92	22	72	26	29	46	44				0.21	− 3.0	4	2,830	nw.	21	w.	7	15	8	7	3.9		
Burlington	404	11	48	29.68	30.11	+ .05	58.0	− 0.9	89	21	68	25	29	48	35				2.36	− 1.0	15	5,857	s.	32	s.	6	9	8	13	5.8		
Northfield	876	12	60	29.19	30.14	+ .08	54.6	0.0	89	22	68	20	29	41	44	50	48	88	2.04	− 0.7	13	3,808	s.	28	s.	6	11	5	14	5.7		
Boston	125	115	188	29.96	30.09	+ .02	64.6	+ 1.9	94	23	74	34	29	55	28	57	52	69	0.21	− 3.0	4	6,505	nw.	29	w.	7	20	5	5	3.5		
Nantucket	12	14	90	30.08	30.09	+ .01	63.5	+ 0.7	86	21	70	43	29	57	26	58	55	78	1.61	− 1.1	4	10,100	sw.	42	n.	26	15	11	4	4.4		
Block Island	26	11	46	30.07	30.10	+ .02	62.8	− 1.3	83	21	69	38	29	56	21	57	54	75	0.29	− 2.7	4	10,792	sw.	48	w.	3	16	12	2	3.4		
Narragansett Pier		9					61.6	− 1.2	88	21	72	32	29	52	30				1.01		3		sw.				25	4	1			
Providence	160	215	251	29.93	30.11	+ .04	63.5	+ 0.3	89	21	74	33	29	54	30	56	50	67	0.48	− 2.7	5	7,894	nw.	40	nw.	7	17	11	2	3.4		
Hartford	159	122	140	29.94	30.11	+ .04	63.2	+ 1.5	93	23	75	32	29	51	36	55	50	68	0.20	− 3.3	4	4,331	s.	25	s.	6	15	8	7	4.1		
New Haven	106	117	155	30.00	30.12	+ .05	64.4	+ 0.5	92	21	75	35	29	54	34	56	51	66	0.17	− 3.6	4	5,821	n.	29	nw.	26	16	11	3	3.3		
Middle Atlantic States.							64.8	− 1.4										71	0.89	− 2.4										3.8		
Albany	97	102	115	30.02	30.12	+ .05	62.6	+ 0.3	92	22	74	32	29	51	35	54	50	73	0.47	− 2.7	5	4,128	s.	26	sw.	2	17	9	4	3.3		
Binghamton	871	10	69	29.22	30.15	+ .08	59.8	− 0.2	91	22	72	31	29	48	38				1.11	− 1.7	6	3,039	nw.	22	nw.	2	14	10	6	4.3		
New York	314	414	454	29.78	30.11	+ .03	66.2	− 0.3	92	22	75	42	28	57	29	57	51	63	0.20	− 3.4	2	10,686	nw.	54	nw.	30	14	12	4	4.0		
Harrisburg	374	94	104	29.76	30.16	+ .08	64.4	− 0.5	92	23	75	38	29	54	31	56	51	69	0.68	− 2.2	7	3,348	w.	22	w.	23	16	10	4	3.6		
Philadelphia	117	123	190	30.02	30.15	+ .07	67.2	− 0.2	93	21	77	44	29	58	31	57	52	63	0.86	− 2.5	3	6,573	nw.	30	nw.	24	19	6	5	3.5		
Reading	325	81	98	29.80	30.15		64.2		92	22	76	37	29	53	35	55	50	66	0.43	− 3.2	3	3,748	n.	25	w.	7	12	13	5	4.3		
Scranton	805	111	119	29.30	30.16	+ .09	60.9	− 1.3	93	22	73	34	29	49	38	55	52	80	1.05	− 1.8	8	3,793	n.	30	sw.	23	14	13	3	3.7		
Atlantic City	52	37	48	30.08	30.13	+ .06	65.3	− 2.3	86	22	72	42	28	58	22	59	55	72	0.26	− 2.8	4	5,676	sw.	21	ne.	13	20	5	5	3.6		
Cape May	18	13	49	30.14	30.16	+ .09	65.5	− 3.5	87	7	73	42	29	58	23				0.46	− 2.5	4	5,756	n.	26	e.	12	15	12	3	3.5		
Trenton	190	159	183	29.92	30.12		65.2		95	22	76	39	29	54	34	56	51	66	0.41	− 3.2	2	7,299	n.	33	n.	26	17	10	3	3.5		
Baltimore	123	100	113	30.02	30.15	+ .07	66.8	− 1.8	94	2	76	45	28	58	28	58	53	66	1.64	− 2.2	6	4,704	n.	27	n.	24	20	5	5	3.1		
Washington	112	62	85	30.03	30.14	+ .06	66.0	− 2.1	96	2	77	41	29	55	34	58	54	74	0.66	− 2.9	4	3,634	n.	28	nw.	24	15	9	6	4.0		
Lynchburg	681	153	188	29.41	30.15	+ .07	66.7	− 1.7	93	2	78	39	29	55	38	59	55	75	0.67	− 3.0	7	4,096	ne.	22	ne.	16	17	6	7	4.5		
Mount Weather	1,725	10	75	28.34	30.14	+ .07	61.4	− 1.0	86	22	70	38	28	53	23	54	50	70	0.90	− 2.0	6	9,185	nw.	37	nw.	4	11	12	7	4.5		
Norfolk	91	170	205	30.04	30.14	+ .08	69.4	− 2.3	92	2	77	51	29	62	28	62	59	76	2.97	− 1.1	8	9,440	ne.	43	nw.	3	12	11	7	4.7		
Richmond	144	11	52	30.00	30.15	+ .08	68.2	− 2.6	98	2	76	41	29	57	33	59	55	70	1.47	− 2.0	7	5,205	ne.	27	nw.	24	16	9	5	3.6		
Wytheville	2,293	40	47	27.80	30.15	+ .08	62.4	− 1.2	86	21	74	36	27	51	34	56	54	85	0.94	− 2.4	7	2,325	e.	15	nw.	4	19	8	3	2.9		
South Atlantic States.							71.6	− 1.6										78	3.53	− 1.2										5.2		
Asheville	2,255	70	84	27.83	30.15	+ .08	65.1	+ 0.1	86	1	75	40	27	55	31	58	55	80	2.09	− 1.0	10	4,718	se.	33	e.	17	7	18	5	5.1		
Charlotte	773	68	76	29.31	30.15	+ .08	69.2	− 1.5	92	2	78	49	27	60	26	61	57	73	2.02	− 1.2	8	4,485	ne.	20	ne.	16	12	6	12	5.3		
Hatteras	11	12	50	30.10	30.11	+ .05	72.0	− 2.7	87	8	77	56	30	67	19	67	64	79	3.33	− 2.0	8	9,524	ne.	52	n.	25	12	10	8	5.0		
Manteo	12	4	46				70.6		91	7	79	42	29	62					2.44	− 2.9	3		ne.				20	6	4			
Raleigh	376	103	110	29.74	30.13	+ .06	68.9	− 1.7	93	2	78	48	27	60	26	61	58	76	4.29	+ 1.0	8	5,244	ne.	24	ne.	16	13	9	8	4.7		
Wilmington	78	81	91	30.04	30.12	+ .07	70.8	− 2.3	92	8	80	50	29	62	24	64	62	82	5.39	+ 0.1	7	5,336	ne.	31	e.	17	13	10	7	4.7		
Charleston	48	11	92	30.04	30.09	+ .05	74.4	− 1.8	92	8	81	57	26	68	18	68	65	77	4.69	− 0.8	7	7,999	ne.	45	e.	17	13	7	10	4.9		
Columbia, S. C.	351	41	57	29.75	30.13	+ .08	71.0	− 2.7	94	7	80	51	26	62	24	63	60	76	2.60	− 0.8	9	4,769	ne.	24	ne.	17	12	9	9	4.3		
Augusta	180	89	97	29.92	30.11	+ .06	72.5	− 1.9	95	8	82	52	28	63	29	65	62	76	2.48	− 1.2	6	4,491	ne.	31	ne.	16	13	4	13	5.2		
Savannah	65	150	194	30.01	30.08	+ .05	74.5	− 0.9	94	8	82	55	26	68	23	68	66	82	3.07	− 2.5	8	6,844	ne.	30	n.	16	6	12	12	6.4		
Jacksonville	43	96	129	30.00	30.05	+ .05	77.2	− 0.1	94	9	84	60	26	70	21	70	68	81	6.39	− 1.6	12	7,349	ne.	34	sw.	17	7	8	15	6.6		
Florida Peninsula.							79.7	− 1.0										78	5.87	− 2.1										5.9		
Key West	22	10	64	29.95	29.97	+ .03	82.0	− 0.5	90	1	87	71	22	77	17	75	73	76	4.62	− 2.2	15	6,451	e.	39	w.	25	6	18	6	4.9		
Miami	25	71	79	29.97	30.00		78.8	− 2.7	87	25	84	69	15	74	15	74	72	80	6.68	− 2.9	20	6,256	e.	32	e.	1	2	14	14	7.0		
Sand Key	23	39	72	29.93	29.96	+ .02	80.2		88	12	84	70	6	77	16	76	73	77	6.09		16	8,947	e.	39	e.	22	9	16	5	4.8		
Tampa	35	79	96	29.98	30.01	+ .04	78.4	+ 0.1	92	1	87	65	11	70	24	71	69	81	6.30	− 1.1	16	5,484	ne.	49	sw.	1	2	16	12	6.9		
Titusville	44	6																														
East Gulf States.							74.4	− 0.4										78	5.27	+ 1.4										4.8		
Atlanta	1,174	199	216	28.90	30.12	+ .07	71.4	− 0.7	90	7	80	54	27	63	22	63	59	72	2.48	− 1.0	9	6,172	e.	34	se.	18	13	4	13	5.2		
Macon	370	78	87	29.70	30.09	+ .06	72.7	− 0.2	94	8	82	54	28	63	29	65	62	75	4.39	+ 1.0	7	4,399	ne.	28	ne.	17	12	9	9	4.7		
Thomasville	273	8	57	29.75	30.04	+ .03	75.3	− 1.5	96	8	85	57	26	66	29	68	66	83	7.58	+ 3.3	13	3,643	ne.	19	ne.	29	10	8	12	5.6		
Pensacola	56	140	182	29.97	30.03	+ .04	76.4	− 1.5	93	9	83	58	25	70	21	69	66	78	11.93	+ 6.7	11	9,324	ne.	48	e.	30	10	6	14	5.8		
Anniston	741	9	57	29.34	30.12	+ .09	71.6	+ 0.3	93	1	82	47	26	61	33				3.30	− 0.2	7	3,810	se.	25	se.	13	15	9	6	4.4		
Birmingham	700	11	48	29.35	30.11	+ .08	72.5	− 1.5	92	8	82	49	26	63	29	64	61	77	3.95	+ 0.4	12	4,084	e.	20	nw.	8	12	7	11	5.0		
Mobile	57	125	161	29.97	30.03	+ .03	76.8	+ 0.3	96	9	85	57	25	69	22	69	67	79	7.90	+ 2.9	13	7,214	ne.	48	e.	29	12	13	5	4.3		
Montgomery	223	100	112	29.83	30.08	+ .06	74.2	− 1.6	93	8	83	54	26	65	27	66	62	74	2.95	+ 0.1	8	4,684	e.	26	n.	11	13	8	9	4.9		
Meridian	375	85	93	29.67	30.06	+ .04	73.2	+ 0.5	92	9	83	51	25	63	30	66	64	80	3.95	+ 0.5	10	3,751	ne.	18	ne.	28	12	9	9	4.9		
Vicksburg	247	65	74	29.79	30.07	+ .05	75.6	+ 0.8	92	9	84	55	24	67	26	68	65	78	4.39	+ 1.0	7	4,306	e.	18	s.	21	19	3	8	3.5		
New Orleans	51	90	121	29.96	30.01	+ .03	78.8	+ 0.8	94	10	85	63	24	72	19	72	69	80	5.05	+ 0.2	10	5,583	ne.	38	n.	3	11	13	6	4.4		
West Gulf States.							77.5	+ 1.8										74	2.28	− 1.2										3.3		
Shreveport	249	77	93	29.78	30.05	+ .05	77.2	+ 1.5	96	11	87	51	24	68	27	69	66	74	0.15	− 3.1	2	4,459	se.	21	ne.	30	17	9	4	3.6		
Bentonville	1,303	11	44	28.72	30.00	+ .04	72.2	+ 3.3	90	8	82	46	23	62	30				2.40	− 1.1	7	3,754	s.	26	n.	2	17	11	2	3.3		
Fort Smith	457	79	94	29.56	30.04	+ .03	76.0	+ 3.3	94	5	86	50	24	66	30	67	64	73	2.89	− 0.3	8	5,212	e.	35	n.	2	16	11	3	3.2		
Little Rock	357	139	147	29.70	30.07	+ .04	74.6	+ 1.5	94	6	83	52	24	66	26	67	64	77	1.23	− 1.3	8	5,505	e.	26	se.	4	13	7	10	4.5		
Brownsville	57	3	40				80.9		97	16	92	58	25	70	31				0.80		6		se.									
Corpus Christi	20	69	77	29.98	30.00	+ .05	80.7	+ 1.7	94	18	87	61	24	74	23	73	71	80	2.70	− 1.2	2	8,849	se.	44	n.	23	16	11	3	3.9		
Dallas	512	109	117	29.50	30.04	+ .05	78.0		94	11	88	51	24	68	29				2.09		2	6,189	se.	37	n.	22	22	6	2	2.8		
Fort Worth	670	106	114	29.30	30.01	+ .02	77.4	+ 0.7	96	11	87	53	27	67	27	67	63	68	1.61	− 1.3	2	6,549	s.	31	s.	14	18	9	3	2.9		
Galveston	54	106	114	29.97	30.03	+ .05	80.2	+ 0.8	89	2	85	63	24	76	14	72	68	71	5.20	− 0.2	7	7,661	s.	35	ne.	24	23	5	2	2.8		
Houston	138	111	121	29.88	30.02		79.2	+ 0.7	95	1	88	58	24	70	25				1.21		8	4,987	se.	27	se.	3	15	12	3	3.7		
Palestine	510	64	72	29.49	30.02	+ .03	77.8	+ 3.1	95	4	87	54	27	68	25	68	65	75	2.04	− 1.2	5	4,668	s.	29	s.	21	21	6	3	3.1		
San Antonio	701	109	132	29.29	30.01	+ .05	79.6	+ 2.5	95	11	90	57	24	69	28	69	65	70	2.24	− 0.7	4	5,048	ne.	33	n.	22	16	14	0	3.1		
Taylor	582	55	62	29.44	30.06	+ .09	77.6	+ 0.7	94	9	88	53	27	67	28				1.53	− 1.5	4	5,098	s.	25	n.	22	19	9	2	3.2		

TABLE I.—*Climatological data for United States Weather Bureau stations, September, 1914*—Continued.

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.
Ohio Valley and Tennessee.					✓		**67.6**	**− 0.6**										**72**	**1.66**	**− 1.1**										**4.3**		
Chattanooga	762	189	213	29.33	30.14	+ .08	71.3	+ 0.1	93	1	81	48	27	62	30	62	58	70	1.67	− 1.6	7	4,441	ne.	24	n.	25	8	15	7	5.3	.....	....
Knoxville	996	93	100	29.08	30.13	+ .07	70.0	+ 0.6	90	1	80	47	27	60	30	62	59	73	1.04	− 1.8	5	2,873	ne.	18	n.	25	9	12	9	5.4	.....	....
Memphis	399	76	97	29.69	30.12	+ .09	73.8	+ 1.0	92	7	82	50	24	66	24	66	63	74	3.92	+ 0.9	8	4,738	ne.	32	w.	11	14	7	9	4.5	.....	....
Nashville	546	168	191	29.55	30.13	+ .07	71.0	+ 0.5	90	1	81	48	27	61	29	63	60	75	1.46	− 2.2	4	5,169	ne.	26	se.	18	10	14	6	4.8	.....	....
Lexington	989	75	102	29.08	30.14	+ .07	66.8	− 1.1	90	21	76	46	26	57	25	.....	.....	.....	1.82	− 0.6	6	5,597	ne.	27	nw.	6	16	10	4	3.7	.....	....
Louisville	525	219	255	29.57	30.15	+ .09	69.0	− 0.9	90	21	78	48	27	60	28	61	57	72	1.35	− 1.3	6	6,453	ne.	32	s.	22	15	6	9	4.0	.....	....
Evansville	431	72	82	29.66	30.12	+ .06	69.6	− 0.1	89	1	79	49	27	60	27	62	58	74	5.06	+ 2.4	7	4,480	ne.	23	s.	1	14	9	7	4.2	.....	....
Indianapolis	822	154	164	29.26	30.15	+ .09	66.4	− 0.3	89	20	76	46	26	57	29	59	55	72	2.15	− 0.9	6	6,100	ne.	32	sw.	1	14	10	6	4.1	.....	....
Terre Haute	575	96	129	29.51	30.12	.....	67.1	.....	90	19	77	44	26	57	31	60	56	73	2.77	.....	8	5,725	s.	30	nw.	6	13	9	8	5.0	.....	....
Cincinnati	628	152	160	29.48	30.15	+ .08	68.4	− 0.6	92	21	78	46	27	59	28	60	56	71	0.90	− 1.4	4	3,920	e.	21	sw.	1	15	11	4	4.0	.....	....
Columbus	824	173	222	29.29	30.16	+ .09	64.8	− 1.1	92	21	75	43	26	54	30	56	51	67	1.26	− 1.3	7	6,970	se.	28	nw.	2	19	6	5	3.1	.....	....
Dayton	899	181	216	29.18	30.13	.....	65.7	− 1.7	92	20	76	44	26	55	30	57	54	72	0.71	− 1.8	6	6,285	ne.	28	sw.	1	16	11	3	3.3	.....	....
Pittsburgh	842	353	410	29.26	30.17	+ .09	63.6	− 2.5	90	22	74	40	28	54	32	55	50	67	0.69	− 1.8	5	6,845	nw.	53	nw.	2	14	8	8	4.3	.....	....
Elkins	1,940	41	50	28.14	30.19	+ .11	60.5	− 1.4	89	2	74	29	29	47	45	53	50	82	0.52	− 2.4	5	2,110	n.	14	w.	4	15	7	8	4.2	.....	....
Parkersburg	638	77	84	29.52	30.18	+ .10	65.5	− 0.6	92	2	77	39	27	54	37	56	52	72	0.62	− 2.1	4	3,122	se.	25	nw.	2	14	12	4	3.9	.....	....
Lower Lake Region.							**61.7**	**− 1.5**										**71**	**1.72**	**− 1.1**										**4.2**		
Buffalo	767	247	280	29.32	30.15	+ .09	61.6	− 1.3	83	18	69	45	26	54	25	56	52	76	2.31	− 0.9	9	10,019	sw.	60	sw.	3	13	10	7	4.5	.....	....
Canton	448	10	61	29.65	30.13	.....	57.4	− 1.9	87	22	68	38	29	46	37	.....	.....	.....	1.73	− 1.1	11	5,726	sw.	31	w.	7	14	7	10	4.1	.....	....
Oswego	335	76	91	29.76	30.13	+ .07	59.9	− 2.8	89	22	68	40	29	52	27	54	50	72	1.32	− 1.5	11	6,160	s.	26	nw.	7	12	7	11	4.7	.....	....
Rochester	523	97	113	29.59	30.16	+ .10	61.1	− 0.8	90	22	70	38	28	52	30	54	50	70	1.61	− 1.3	7	5,037	sw.	25	sw.	3	15	5	10	4.4	.....	....
Syracuse	597	97	113	29.51	30.16	+ .09	60.2	− 1.4	88	22	69	38	29	52	28	54	50	74	1.47	− 1.4	8	6,493	s.	36	nw	7	15	4	11	4.6	.....	....
Erie	714	92	102	29.38	30.15	+ .09	62.3	− 1.6	87	22	70	40	28	55	28	55	49	64	1.50	− 2.0	9	6,509	s.	28	sw.	1	12	12	6	4.4	.....	....
Cleveland	762	190	201	29.34	30.16	+ .10	62.6	− 1.7	88	22	70	41	28	55	28	55	50	68	1.16	− 2.1	8	7,882	se.	36	w.	22	15	7	8	4.4	.....	....
Sandusky	629	62	103	29.48	30.16	+ .10	63.7	− 1.6	90	22	71	45	28	56	27	56	52	70	1.74	− 0.9	9	7,865	ne.	32	w.	22	12	13	5	4.3	.....	....
Toledo	628	208	246	29.48	30.17	+ .11	63.2	− 0.9	89	21	72	44	9	54	28	56	52	72	2.05	− 0.3	9	9,102	sw.	42	sw.	22	18	9	3	3.0	.....	....
Fort Wayne	856	113	124	29.23	30.16	.....	63.6	− 1.9	90	20	74	42	26	53	31	57	53	75	2.51	.....	7	5,839	ne.	34	sw.	6	16	7	7	3.8	.....	....
Detroit	730	218	245	29.37	30.16	+ .10	62.8	− 0.3	88	21	71	46	28	54	30	55	51	72	2.87	+ 0.4	9	8,131	w.	40	w.	3	14	9	7	4.3	.....	....
Upper Lake Region.							**59.9**	**+ 0.8**										**79**	**2.28**	**− 0.9**										**4.7**		
Alpena	609	13	92	29.47	30.14	+ .11	57.5	+ 0.2	89	21	67	34	28	48	32	53	50	80	0.65	− 2.8	9	7,667	se.	35	se.	14	6	17	7	5.6	.....	....
Escanaba	612	54	60	29.44	30.10	+ .09	57.2	+ 0.3	77	29	64	36	9	50	29	53	51	83	2.07	− 1.5	12	6,417	s.	29	s.	14	11	6	13	5.4	.....	....
Grand Haven	632	54	92	29.44	30.12	+ .08	60.8	− 0.3	84	18	70	39	26	52	32	55	52	78	2.06	− 1.1	8	7,248	s.	40	w.	3	19	8	3	2.9	.....	....
Grand Rapids	707	70	87	29.37	30.14	+ .09	62.6	+ 0.8	89	20	72	41	26	53	33	56	52	74	2.34	− 0.8	8	3,932	e.	31	w.	3	12	11	7	4.2	.....	....
Houghton	684	62	72	29.33	30.06	+ .06	58.1	+ 2.0	88	20	67	38	8	49	32	.....	.....	.....	1.82	− 1.7	11	5,860	w.	34	w.	22	10	7	13	5.5	.....	....
Lansing	878	11	62	29.20	30.15	.....	60.3	− 1.0	89	20	72	37	26	48	37	54	51	82	2.65	0.0	8	3,637	se.	19	s.	5	14	10	6	3.9	.....	....
Ludington	637	60	66	29.42	30.12	.....	59.7	.....	79	21	68	39	9	52	25	56	53	81	3.15	.....	10	7,137	s.	35	w.	3	15	10	5	4.2	.....	....
Marquette	734	77	111	29.30	30.11	+ .11	58.2	+ 1.4	90	20	67	40	9	50	31	53	50	79	1.28	− 2.2	16	7,888	s.	38	se.	14	7	11	12	6.1	.....	....
Port Huron	638	70	120	29.45	30.14	+ .08	60.6	− 0.3	88	21	70	39	26	52	27	55	52	77	2.47	− 0.2	8	7,311	sw.	45	nw.	22	12	16	2	3.9	.....	....
Saginaw	641	48	82	29.45	30.15	.....	60.6	.....	87	20	71	39	26	50	33	55	53	80	1.51	− 1.6	10	6,002	s.	30	sw.	3	15	8	7	4.4	.....	....
Sault Ste. Marie	614	11	61	29.43	30.13	+ .11	56.4	+ 2.1	85	20	65	36	28	48	35	52	50	83	2.05	− 1.4	13	5,610	se.	31	nw.	26	8	4	18	6.7	.....	....
Chicago	823	140	310	29.25	30.13	+ .09	66.6	+ 2.0	88	20	73	50	23	60	23	59	54	68	1.56	− 1.5	9	8,082	ne.	44	sw.	6	19	5	6	3.3	.....	....
Green Bay	617	109	144	29.44	30.10	+ .08	61.1	+ 2.0	86	20	69	42	23	53	26	55	52	80	4.86	+ 1.7	7	7,329	s.	36	w.	3	9	13	8	6.0	.....	....
Milwaukee	681	119	133	29.38	30.12	+ .09	63.2	+ 1.7	86	21	70	46	25	56	23	56	53	74	4.11	+ 1.2	10	6,982	se.	32	se.	13	16	9	5	3.9	.....	....
Duluth	1,133	11	47	28.84	30.06	+ .08	56.0	− 0.7	83	20	64	36	25	48	27	52	50	86	2.55	− 1.0	13	8,536	ne.	40	sw.	21	13	7	10	5.0	.....	....
North Dakota.							**59.6**	**+ 2.4**										**70**	**1.16**	**− 0.3**										**3.9**		
Moorhead	940	8	57	28.98	29.99	+ .03	60.6	+ 4.0	88	20	73	33	25	48	38	53	49	77	1.50	− 0.8	8	6,503	se.	40	se.	12	21	4	5	2.7	.....	....
Bismarck	1,674	8	57	28.20	29.97	+ .03	61.0	+ 3.9	95	18	75	33	29	47	48	51	46	70	1.10	− 0.1	7	7,736	nw.	40	s.	12	19	7	4	3.4	.....	....
Devils Lake	1,482	11	44	28.37	29.94	.00	58.4	+ 2.8	89	18	71	33	22	46	37	50	45	70	1.57	+ 0.2	10	8,088	se.	37	s.	12	10	14	6	4.7	.....	....
Williston	1,872	40	47	27.94	29.90	− .03	58.6	− 0.9	91	18	72	35	3	45	44	49	43	63	0.46	− 0.4	6	4,685	se.	33	se.	8	10	15	5	4.7	.....	....
Upper Mississippi Valley.							**65.7**	**+ 0.9**										**78**	**5.25**	**+ 1.9**										**4.5**		
Minneapolis	918	10	208	29.05	30.03	.....	62.4	.....	85	20	72	42	25	53	29	.....	.....	.....	2.76	− 0.9	5	8,562	se.	37	se.	13	13	9	8	4.9	.....	....
St. Paul	837	201	236	29.15	30.06	+ .07	61.8	+ 1.5	84	20	71	43	25	53	29	.....	.....	.....	2.16	− 1.3	8	8,995	s.	40	s.	13	11	9	10	5.1	.....	....
La Crosse	714	11	48	29.34	30.08	+ .07	62.4	+ 0.7	85	20	73	40	25	52	29	.....	.....	.....	4.14	0.0	9	3,325	s.	22	sw.	21	10	9	11	5.5	.....	....
Madison	974	70	78	29.08	30.12	+ .09	62.5	+ 1.4	85	20	72	43	23	54	27	56	53	78	3.49	+ 0.3	7	6,164	s.	25	s.	14	13	9	8	4.7	.....	....
Charles City	1,015	10	49	29.01	30.08	+ .08	62.0	+ 0.3	84	19	73	38	25	51	31	56	54	84	6.64	+ 3.8	10	4,695	se.	28	w.	21	17	6	7	4.3	.....	....
Davenport	606	71	79	29.44	30.10	+ .07	66.4	+ 1.7	87	19	76	45	25	56	28	59	56	76	6.27	+ 3.1	11	4,875	e.	37	w.	5	15	6	9	4.3	.....	....
Des Moines	861	84	97	29.15	30.05	+ .03	65.8	+ 0.8	93	5	76	47	26	56	30	59	56	78	14.81	+11.7	9	5,325	se.	31	sw.	13	12	10	8	4.7	.....	....
Dubuque	698	81	90	29.37	30.11	+ .08	64.4	+ 0.8	85	20	74	43	26	55	26	57	54	75	4.75	+ 1.2	10	4,208	s.	20	nw.	22	15	7	8	4.3	.....	....
Keokuk	614	64	78	29.43	30.09	+ .06	67.4	+ 1.0	86	19	77	44	23	58	27	60	58	78	6.22	+ 2.2	9	5,010	s.	25	s.	5	14	11	5	3.9	.....	....
Cairo	356	87	93	29.72	30.10	+ .05	70.7	+ 0.5	91	6	79	50	27	62	25	64	62	80	3.73	+ 1.3	8	5,238	ne.	37	w.	6	13	8	9	4.6	.....	....
Peoria	609	11	45	29.46	30.13	+ .09	66.2	+ 1.9	88	19	77	43	26	55	34	58	56	82	5.55	+ 2.4	11	4,021	s.	28	w.	14	16	6	8	4.1	.....	....
Springfield, Ill	644	10	91	29.42	30.10	+ .05	67.7	+ 1.3	90	1	78	46	26	58	29	59	56	72	1.82	− 1.6	8	5,580	s.	30	nw.	1	16	5	9	4.4	.....	....
Hannibal	534	74	109	29.53	30.10	+ .07	68.0	+ 0.1	91	1	78	44	23	58	32	.....	.....	.....	4.48	+ 0.9	10	5,765	s.	38	sw.	14	14	8	8	4.1	.....	....
St. Louis	567	265	303	29.49	30.09	+ .05	69.6	− 0.4	89	6	78	52	25	62	22	63	60	76	6.08	+ 3.8	9	8,359	s.	38	se.	14	14	10	6	4.2	.....	....
Missouri Valley.							**67.4**	**+ 2.1**										**71**	**5.23**	**+ 2.4**										**4.2**		
Columbia, Mo	781	11	84	29.25	30.08	+ .05	69.0	+ 1.2	94	1	79	44	23	59	31	.....	.....	.....	2.56	− 0.3	11	4,939	se.	32	nw.	1	12	6	12	5.1	.....	....
Kansas City	963	161	181	29.02	30.05	+ .03	70.4	+ 2.9	94	5	79	50	23	62	24	63	60	76	16.17	+12.4	12	8,184	s.	35	sw.	6	12	10	8	4.6	.....	....
St. Joseph	967	11	49	29.02	30.04	.....	69.9	.....	95	5	80	47	23	60	29	62	59	77	6.21	.....	11	5,576	se.	34	nw.	21	13	9	8	4.3	.....	....
Springfield, Mo	1,324	98	104	28.69	30.08	+ .05	70.6	+ 2.7	89	1	79	47	23	62	27	63	60	76	3.59	− 0.2	8	7,156	se.	33	nw.	10	13	15	2	3.6	.....	....
Iola	984	11	50	29.01	30.03	+ .02	71.8	+ 3.2	95	5	83	45	23	60	34	.....	.....	.....	5.19	+ 1.8	9	4,937	s.	24	se.	8	16	10	4	3.2	.....	....
Topeka	983	85	101	.....	.....	.....	70.9	+ 2.6	96	5	81	47	23	60	31	.....	.....	.....	6.61	+ 3.0	12	7,142	s.	36	s.	14	13	11	6	4.0	.....	....
Lincoln	1,189	11	84	28.76	30.01	+ .02	68.2	+ 3.0	101	5	80	45	25	57	34	60	56	74	8.32	+ 5.7	11	7,005	se.	48	nw.	7	14	8	8	4.3	.....	....
Omaha	1,105	115	121	28.88	30.03	+ .03	68.2	+ 2.4	100	5	78	46	22	58	28	60	56	73	3.56	+ 0.5	10	5,433	s.	26	nw.	21	15	8	7	4.5	.....	....
Valentine	2,598	47	54	27.30	30.00	+ .04	62.8	+ 0.5	93	27	76	36	22	50	42	53	47	65	2.65	+ 0.9	7	8,268	s.	38	s.	26	15	6	9	4.4	.....	....
Sioux City	1,135	94	164	28.82	30.03	+ .05	64.1	0.0	88	5	75	43	22	53	33	57	53	73	7.05	+ 4.6	7	9,414	s.	43	nw.	13	13	10	7	4.5	.....	....
Huron	1,306	59	74	28.63	30.03	+ .07	62.6	+ 3.0	87	18	75	39	22	50	36	54	50	71	3.43	+ 1.7	6	8,830	se.	46	s.	15	15	9	6	4.3	.....	....
Pierre	1,572	70	75	28.34	29.99	+ .04	66.0	+ 3.2	97	18	78	40	22	54	37	54	46	58	0.79	− 0.3	6	7,572	se.	40	s.	15	15	8	7	3.8	.....	....
Yankton	1,233	49	57	28.70	30.01	+ .03	64.3	+ 1.0	89	5	76	41	4	53	37	.....	.....	.....	2.84	+ 0.4	7	6,297	w.	31	s.	15	14	9	7	4.4	.....	....

TABLE I.—*Climatological data for United States Weather Bureau stations, September, 1914*—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.						
Northern Slope.							**58.0**	**+ 0.7**										**58**	**1.03**	**− 0.1**										**4.3**		
Havre	2,505	11	44	27.27	29.88	+ .06	56.8	− 0.8	88	3	71	34	29	43	46	49	43	69	1.37	+ 0.3	7	5,465	sw.	50	w.	18	13	11	6	4.1	.....	....
Helena	4,110	87	114	25.77	29.93	− .04	56.4	+ 0.2	87	3	69	35	12	44	42	45	36	52	1.46	+ 0.4	6	6,257	sw.	41	sw.	18	13	6	11	5.1	T.	....
Kalispell	2,962	11	34	26.90	29.94	− .02	52.6	− 1.3	82	3	65	34	29	40	39	45	40	70	1.21	− 0.1	12	2,481	w.	24	sw.	18	11	9	10	5.0	.....	....
Miles City	2,371	26	48	27.42	29.95	.00	62.2	+ 1.0	97	18	78	38	2	47	49	52	47	67	1.16	+ 0.2	8	3,479	s.	27	se.	9	15	12	3	3.5	.....	....
Rapid City	3,259	50	58	26.60	29.97	+ .01	63.4	+ 4.3	98	19	77	37	14	50	46	50	40	50	1.22	0.0	7	6,008	w.	33	s.	20	12	15	3	4.0	.....	....
Cheyenne	6,088	84	101	24.08	29.96	.00	58.0	+ 0.8	84	19	73	28	14	43	39	44	34	47	0.41	− 0.5	2	7,725	w.	60	w.	12	9	18	3	4.6	1.0	....
Lander	5,372	60	68	24.67	29.95	− .01	57.4	+ 2.2	86	18	75	25	13	40	45	44	31	43	T.	− 1.0	0	3,914	sw.	64	sw.	15	13	15	2	4.1	.....	....
Sheridan	3,790	10	47	26.09	29.96	.....	57.2	.....	94	18	76	30	2	38	54	46	38	61	0.80	.....	7	3,472	s.	30	nw.	20	12	11	7	4.4	.....	....
Yellowstone Park	6,200	11	48	23.92	29.99	+ .02	49.8	− 3.6	79	3	64	28	12	36	45	40	33	61	2.24	+ 1.2	9	5,593	s.	39	s.	11	12	10	8	4.9	T.	....
North Platte	2,821	11	51	27.12	30.02	+ .05	65.5	+ 2.3	90	18	80	36	22	51	40	55	49	65	0.17	− 1.3	5	5,406	se.	28	se.	12	17	9	4	3.4	.....	....
Middle Slope.							**71.0**	**+ 3.4**										**62**	**1.79**	**− 0.2**										**3.3**		
Denver	5,291	129	172	24.78	29.96	.00	64.8	+ 2.1	91	18	80	35	14	49	48	50	39	46	0.21	− 0.7	4	5,262	sw.	36	sw.	12	15	13	2	3.6	.....	....
Pueblo	4,685	80	86	25.33	29.95	− .01	66.8	+ 2.4	93	5	84	36	24	50	49	51	42	50	0.32	− 0.3	3	3,959	nw.	44	nw.	9	19	11	0	2.7	.....	....
Concordia	1,398	42	50	28.55	30.00	+ .01	72.4	+ 4.3	103	5	85	47	25	60	40	62	57	69	4.61	+ 2.0	8	5,508	s.	26	s.	13	10	14	6	4.4	.....	....
Dodge	2,509	11	51	27.44	29.99	+ .01	72.6	+ 4.4	100	5	86	43	24	59	37	60	54	64	0.53	− 1.2	5	7,675	s.	35	se.	13	19	11	0	2.9	.....	....
Wichita	1,358	139	158	28.57	29.98	− .02	73.6	+ 3.8	97	5	84	49	23	63	28	64	59	68	3.39	+ 0.3	8	9,816	s.	48	sw.	13	21	6	3	2.8	.....	....
Oklahoma	1,214	10	47	28.76	30.02	+ .03	75.5	+ 3.4	93	10	86	48	23	66	26	65	62	72	1.70	− 1.0	2	9,895	s.	39	n.	22	17	8	5	3.5	.....	....
Southern Slope.							**74.7**	**+ 1.9**										**62**	**0.66**	**− 1.9**										**2.6**		
Abilene	1,738	10	52	28.23	30.01	+ .05	75.1	+ 0.9	92	13	86	47	30	64	36	65	61	70	0.91	− 2.2	4	6,285	s.	31	s.	13	19	6	5	2.7	.....	....
Amarillo	3,676	10	49	26.32	29.98	.....	72.8	+ 5.1	98	6	87	49	28	59	33	59	53	63	1.07	− 1.3	5	7,938	sw.	40	sw.	15	21	9	0	3.1	.....	....
Del Rio	944	64	71	29.00	29.97	+ .03	79.6	+ 0.7	96	13	90	54	24	69	32	.....	.....	.....	0.59	− 1.9	3	6,460	se.	31	n.	22	20	9	1	2.4	.....	....
Roswell	3,566	75	85	26.42	29.96	+ .04	71.2	+ 0.9	95	6	86	43	29	57	36	57	49	53	0.05	− 2.2	2	5,349	s.	33	nw.	10	22	7	1	2.3	.....	....
Southern Plateau.							**72.1**	**+ 1.5**										**46**	**0.27**	**− 0.6**										**2.7**		
El Paso	3,762	110	133	26.23	29.91	+ .03	74.3	+ 1.6	94	8	86	53	25	62	30	59	50	50	0.56	− 0.9	7	6,759	e.	36	se.	2	15	14	1	3.2	.....	....
Santa Fe	7,013	57	62	23.37	29.94	+ .01	63.0	+ 2.4	82	18	74	44	23	52	27	49	39	49	0.59	− 1.0	8	4,460	se.	34	sw.	13	16	11	3	3.8	.....	....
Flagstaff	6,908	8	57	.....	.....	.....	58.0	+ 2.5	82	18	73	32	23	43	42	.....	.....	.....	0.56	.....	4	.....	nw.	48	sw.	13	15	12	3	.....	.....	....
Phoenix	1,108	76	81	28.60	29.81	.00	84.5	+ 3.1	104	18	98	64	14	71	38	65	53	38	T.	− 1.0	0	3,698	e.	19	e.	24	19	9	2	3.1	.....	....
Yuma	141	9	58	29.65	29.79	+ .01	85.8	+ 1.9	108	4	101	62	14	70	41	69	61	51	T.	− 0.2	0	3,687	w.	23	s.	11	27	2	1	0.9	.....	....
Independence	3,910	11	42	25.94	29.87	+ .01	66.8	− 2.3	88	4	83	39	14	51	40	53	41	44	0.21	+ 0.1	2	4,574	se.	24	nw.	12	24	4	2	2.5	.....	....
Middle Plateau.							**61.8**	**+ 0.2**										**39**	**0.31**	**− 0.5**										**3.1**		
Reno	4,532	74	81	25.46	29.91	− .04	60.5	+ 0.8	87	23	77	33	13	44	46	46	34	45	0.05	− 0.2	1	4,975	w.	37	sw.	15	18	10	2	2.8	.....	....
Tonopah	6,090	12	20	24.10	29.92	.....	61.8	.....	80	19	73	35	13	51	29	46	29	33	0.27	− 0.2	2	6,845	se.	33	se.	25	16	12	2	3.0	.....	....
Winnemucca	4,344	18	56	25.61	29.96	− 0.3	57.8	− 2.7	89	1	77	22	13	39	49	44	31	42	0.48	+ 0.1	3	4,352	ne.	36	s.	25	17	8	5	3.0	.....	....
Modena	5,479	10	43	24.65	29.92	.00	60.6	+ 0.4	84	19	77	31	22	44	43	45	27	35	0.49	− 0.6	3	8,707	sw.	52	s.	15	20	7	3	2.4	0.4	....
Salt Lake City	4,360	147	189	25.62	29.93	− 0.2	64.4	− 0.7	89	19	76	35	12	52	38	50	37	41	0.17	− 0.7	5	6,110	se.	44	nw.	15	13	12	5	4.0	T.	....
Durango	6,546	10	.....	.....	.....	.....	60.0	+ 1.8	85	19	77	30	14	43	42	.....	.....	.....	0.39	− 1.5	3	.....	nw.	.....	.....	.....	18	6	6	3.7	.....	....
Grand Junction	4,602	82	96	25.40	29.94	− 0.1	67.8	+ 1.4	90	6	81	37	14	55	38	51	38	40	0.30	− 0.6	4	5,862	se.	35	w.	12	18	9	3	3.1	.....	....
Northern Plateau.							**59.1**	**− 2.1**										**50**	**1.15**	**− 0.2**										**4.6**		
Baker	3,471	48	53	26.44	30.01	+ .02	54.4	− 2.6	86	2	69	29	13	40	44	44	32	50	0.76	0.0	8	4,538	se.	42	s.	18	14	12	4	4.0	T.	....
Boise	2,739	78	86	27.14	29.98	+ .01	61.4	− 0.5	93	2	75	34	13	48	43	47	34	41	0.35	− 0.1	4	4,129	nw.	32	nw.	11	15	5	10	4.0	.....	....
Lewiston	757	40	48	29.14	29.94	− .04	61.9	− 1.6	93	2	76	41	28	48	47	.....	.....	.....	0.70	0.0	9	2,111	e.	34	w.	26	13	6	11	4.6	.....	....
Pocatello	4,477	46	54	25.49	29.98	+ .02	57.6	− 3.1	88	3	72	30	13	44	43	45	34	50	2.64	− 1.8	8	5,221	se.	44	sw.	12	10	12	8	4.7	1.0	....
Spokane	1,929	101	110	27.91	29.95	− .03	57.6	− 1.2	86	2	69	41	12	46	43	48	39	57	0.91	− 0.1	9	4,496	s.	37	sw.	18	10	5	15	5.5	.....	....
Walla Walla	1,000	57	65	28.88	29.95	− .05	61.6	− 3.8	91	2	72	43	16	51	35	51	42	53	1.52	+ 0.6	9	3,373	s.	24	w.	18	14	5	11	5.0	.....	....
North Pacific Coast Region.							**55.9**	**− 1.0**										**81**	**3.09**	**+ 0.7**										**7.0**		
North Head	211	11	56	29.78	30.00	− .03	54.6	− 1.6	68	23	57	48	11	52	15	53	52	90	2.59	+ 0.7	16	11,106	se.	92	se.	18	4	7	19	7.4	.....	....
Port Crescent	259	8	53	29.71	29.99	− .03	51.1	− 1.4	69	22	58	35	12	44	28	.....	.....	.....	3.49	+ 1.2	15	2,967	s.	24	s.	18	2	9	19	7.8	.....	....
Seattle	125	215	250	29.86	29.99	− .02	56.7	− 1.2	73	23	63	46	12	51	22	53	50	81	1.42	− 0.5	13	6,110	s.	42	s.	18	3	6	21	7.8	.....	....
Tacoma	213	113	120	29.77	30.00	− .02	56.4	− 1.2	77	24	64	44	17	49	28	52	49	77	2.25	− 0.2	14	4,022	sw.	31	sw.	14	4	9	17	6.8	.....	....
Tatoosh Island	109	7	57	29.86	29.96	− .05	53.0	0.0	61	23	56	46	1	50	9	52	51	94	5.99	− 0.2	20	8,553	s.	52	s.	27	3	7	20	7.8	.....	....
Portland, Oreg.	153	68	106	29.83	29.99	− .04	59.4	− 1.2	84	23	67	45	6	51	29	54	50	74	3.10	+ 1.3	12	3,958	nw.	27	w.	11	5	6	19	7.1	.....	....
Roseburg	510	9	57	29.47	30.02	.00	60.1	− 0.4	87	23	71	41	28	49	38	53	48	69	2.80	+ 1.8	11	2,307	s.	22	sw.	16	10	18	2	4.4	.....	....
Middle Pacific Coast Region.							**61.9**	**− 1.5**										**61**	**0.32**	**− 0.3**										**3.2**		
Eureka	62	73	89	29.98	30.05	+ .04	55.0	+ 0.1	76	17	60	44	27	50	16	53	51	87	1.82	+ 0.7	10	5,020	n.	44	sw.	18	9	11	10	5.5	.....	....
Mount Tamalpais	2,375	11	18	27.53	29.99	+ .05	60.8	− 5.3	87	10	68	45	2	54	21	51	42	56	0.13	− 0.5	3	10,546	nw.	56	nw.	15	22	7	1	2.2	.....	....
Point Reyes Light	490	7	18	29.44	29.96	.....	55.2	− 0.9	79	10	60	49	13	51	27	.....	.....	.....	0.15	.....	1	14,264	nw.	68	nw.	11	9	10	11	5.3	.....	....
Red Bluff	332	50	56	29.56	29.91	− .02	71.1	− 2.8	96	10	84	49	8	58	36	55	41	39	T.	− 0.8	0	4,748	nw.	32	n.	12	20	7	3	2.2	.....	....
Sacramento	69	106	117	29.85	29.92	+ .03	67.5	− 1.6	95	10	81	47	4	54	38	56	45	53	T.	− 0.4	0	6,061	s.	25	nw.	12	27	2	1	1.2	.....	....
San Francisco	155	200	204	29.80	29.97	+ .03	60.8	+ 1.5	92	10	68	51	6	54	33	54	51	78	T.	− 0.3	0	5,728	w.	28	w.	4	12	14	4	3.9	.....	....
San Jose	141	12	110	29.83	29.98	.....	63.2	− 1.5	95	10	77	42	8	50	46	.....	.....	.....	0.00	− 0.3	0	4,037	nw.	22	nw.	7	26	4	0	1.8	.....	....
South Pacific Coast Region.							**67.1**	**− 0.2**										**67**	**0.06**	**− 0.2**										**2.9**		
Fresno	327	89	98	29.56	29.91	+ .04	71.6	− 2.7	99	11	87	52	7	56	40	57	44	44	0.22	0.0	2	5,619	nw.	30	nw.	7	25	3	2	1.6	.....	....
Los Angeles	338	159	191	29.57	29.94	+ .06	67.9	+ 1.4	88	26	77	51	16	58	28	59	56	72	0.00	− 0.1	0	3,418	sw.	18	s.	18	16	12	2	3.4	.....	....
San Diego	87	62	70	29.83	29.92	+ .03	66.0	− 0.9	78	26	71	54	15	61	16	61	58	81	T.	− 0.1	0	4,639	nw.	24	nw.	3	20	8	2	3.4	.....	....
San Luis Obispo	201	32	40	29.77	29.99	+ .06	62.8	+ 1.3	89	9	75	43	7	51	34	54	50	72	T.	− 0.4	0	2,472	nw.	16	w.	7	17	11	2	3.1	.....	....
West Indies.																																
San Juan	82	8	54	29.89	29.97	+ .03	80.8	.....	91	10	86	73	18	75	16	.....	.....	.....	3.20	− 3.6	16	8,294	se.	32	ne.	13	9	21	0	4.0	.....	....
Panama.																																
Ancon	92	6	69	29.72	29.82	.....	80.3	.....	94	14	88	70	27	73	21	75	75	90	9.60	+ 1.8	17	4,393	nw.	22	ne.	26	0	3	27	9.0	.....	....
Culebra[1]	404	5	62	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	11.12	− 0.1	25	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colon	10	5	71	29.82	29.83	.....	79.4	.....	88	21	83	72	26	76	10	77	76	89	14.80	+ 2.3	27	6,274	w.	27	w.	1	1	7	22	8.1	.....	....

[1] Meteorological station discontinued Sept. 12, 1914.

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 September, 1914, 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.	18	6.52 p.m.	8.30 p.m.	0.52	7.24 p.m.	7.37 p.m.	.08	.20	.35	.40											
Albany, N. Y.	2			0.19														.11			
Alpena, Mich.	6			0.43														.40			
Amarillo, Tex.	11			0.42														.16			
Anniston, Ala.	24			1.91														.74			
Asheville, N. C.	20	3.45 p.m.	4.35 p.m.	0.52	3.51 p.m.	4.17 p.m.	.0	.15	.31	.37	.43	.48	.50								
Atlanta, Ga.	2	1.10 p.m.	2.40 p.m.	0.54	1.45 p.m.	1.56 p.m.	.03	.19	.39	.44											
Atlantic City, N. J.	3			0.10														.10			
Augusta, Ga.	25			1.44														.38			
Baker, Oreg.	19			0.10														.09			
Baltimore, Md.	11-12	3.40 p.m.	D.N. a.m.	1.23	6.58 p.m.	7.16 p.m.	.19	.10	.29	.43	.54										
Bentonville, Ark.	2			0.70														.58			
Binghamton, N.Y.	2	5.08 p.m.	6.30 p.m.	0.54	5.11 p.m.	5.25 p.m.	.01	.08	.22	.36											
Birmingham, Ala.	12			0.89														.50			
Bismarck, N. Dak.	7			0.47														.21			
Block Island, R. I.	4			0.16														.16			
Boise, Idaho	11			0.14														.11			
Boston, Mass.	4			0.13														.13			
Buffalo, N. Y.	1	3.25 p.m.	5.50 p.m.	0.80	4.55 p.m.	5.17 p.m.	.13	.11	.23	.42	.61	.66									
Burlington, Vt.	6	D.N. p.m.	D.N. p.m.	0.60	11.27 p.m.	11.37 p.m.	.13	.28	.43												
Cairo, Ill.	6	5.20 p.m.	10.05 p.m.	1.67	5.22 p.m.	5.57 p.m.	0.01	.13	.34	.49	.61	.72	1.07	1.31							
Canton, N. Y.	7			0.21														.21			
Charles City, Iowa	21	6.11 p.m.	10.30 p.m.	1.23	6.14 p.m.	6.45 p.m.	.02	.18	.29	.42	.46	.53	.67	.70							
Charleston, S. C.	16-17	8.25 p.m.	D.N. a.m.	1.60	1.29 a.m.	1.58 a.m.	.70	.20	.33	.47	.53	.71	.88								
Charlotte, N. C.	24			0.62														.18			
Chattanooga, Tenn.	11			0.45														.22			
Cheyenne, Wyo.	13			0.39														(*)			
Chicago, Ill.	1	D.N. a.m.	D.N. a.m.	0.44	2.44 a.m.	2.59 a.m.	.01	.14	.27	.38	.40										
Cincinnati, Ohio	23			0.72														.19			
Cleveland, Ohio	2			0.39														.29			
Columbia, Mo.	8			0.54														.33			
Columbia, S. C.	8			0.82														.61			
Columbus, Ohio	2			0.19														.19			
Concord, N. H.	30			0.15														.10			
Concordia, Kans.	9-10	8.51 p.m.	2.00 a.m.	3.05	9.10 p.m.	9.37 p.m.	.10	.10	.30	.46	.59	.65	.72								
					10.19 p.m.	10.48 p.m.	.90	.12	.40	.61	.86	1.10	1.23								
Corpus Christi, Tex.	23	12.03 a.m.	5.20 a.m.	2.43	12.27 a.m.	1.42 a.m.	.14	.10	.21	.26	.34	.51	.73	.88	1.02	1.11	1.23	1.46	1.77		
Davenport, Iowa	5-6	6.40 p.m.	2.00 a.m.	3.19	6.57 p.m.	7.50 p.m.	0.01	.10	.34	.50	.57	.61	.70	.82	.87	.97	1.01	1.09			
					9.38 p.m.	11.13 p.m.	1.19	.10	.29	.40	.58	.72	.82	.87	1.09	1.25	1.31	1.33	1.49	1.86	
Dayton, Ohio	22			0.11														.11			
Del Rio, Tex.	18-19																	(*)			
Denver, Colo.	29			0.14														.12			
Des Moines, Iowa	9-10	10.10 p.m.	10.15 a.m.	1.97	12.11 a.m.	12.54 a.m.	.21	.06	.12	.22	.32	.43	.63	.92	1.21	1.29					
Do.	13	D.N. a.m.	4.45 a.m.	1.24	2.32 a.m.	2.53 a.m.	.18	.17	.38	.58	.69	.72									
		5.42 p.m.	D.N. p.m.	2.33	7.31 p.m.	8.18 p.m.	.54	.16	.29	.49	.59	.63	.63	.65	.80	.94	.99				
					8.51 p.m.	9.23 p.m.	1.61	.10	.23	.30	.37	.51	.59	.64							
Do.	16	4.20 p.m.	7.30 p.m.	3.35	5.16 p.m.	7.01 p.m.	.03	.09	.15	.26	.49	.69	.96	1.21	1.56	1.68	1.80	1.98	2.37	3.24	3.32
		7.50 p.m.	D.N. p.m.	1.52	9.54 p.m.	10.21 p.m.	.33	.18	.58	.81	.95	1.02	1.08								
Do.	21	5.27 p.m.	D.N. p.m.	1.59	6.01 p.m.	6.39 p.m.	.02	.05	.09	.21	.30	.41	.51	.61	.69						
Detroit, Mich.	1			0.85														.57			
Devils Lake, N. Dak.	15	9.02 p.m.	D.N. p.m.	0.63	9.02 p.m.	9.38 p.m.	.00	.09	.19	.37	.39	.39	.42	.55	.58						
Dodge City, Kans.	9			0.28														.25			
Dubuque, Iowa	14	7.55 a.m.	1.08 p.m.	1.69	11.32 a.m.	12.17 p.m.	.84	.06	.17	.28	.39	.46	.55	.63	.73	.80					
		6.51 p.m.	8.55 p.m.	1.02	6.54 p.m.	7.24 p.m.	.01	.06	.09	.15	.45	.67	.73								
Duluth, Minn.	16			0.36														.36			
Eastport, Me.	2	2.55 a.m.	3.45 a.m.	0.77	3.13 a.m.	3.32 a.m.	.10	.22	.40	.51	.67										
Do.	3	6.00 a.m.	7.30 a.m.	0.72	6.48 a.m.	7.15 a.m.	.03	.18	.26	.30	.47	.60	.63								
Elkins, W. Va.	11			0.31														.09			
El Paso, Tex.	2			0.17														.13			
Erie, Pa.	1	4.07 p.m.	5.44 p.m.	0.39	5.14 p.m.	5.29 p.m.	.01	.12	.19	.36											
Escanaba, Mich.	14			0.90														.33			
Eureka, Cal.	18			0.75														.49			
Evansville, Ind.	7	5.03 p.m.	7.35 p.m.	1.49	5.07 p.m.	6.11 p.m.	.01	.16	.50	.65	.73	.86	.91	.94	.94	.95	1.00	1.27	1.38		
Do.	8	D.N. a.m.	6.20 a.m.	1.46	4.26 a.m.	5.20 a.m.	.52	.14	.19	.21	.27	.31	.40	.47	.61	.67	.75	.85			
Fort Smith, Ark.	12	7.49 a.m.	10.48 a.m.	1.42	9.08 a.m.	9.58 a.m.	.09	.11	.19	.29	.46	.63	.86	.98	1.10	1.23	1.29				
Fort Wayne, Ind.	22	2.45 p.m.	5.20 p.m.	0.53	3.13 p.m.	3.23 p.m.	.01	.26	.40												
Fort Worth, Tex.	22	12.22 p.m.	3.45 p.m.	1.39	12.34 p.m.	1.04 p.m.	.02	.18	.34	.61	.86	.97	1.06								
Fresno, Cal.	24			0.20														.09			
Galveston, Tex.	3	9.40 a.m.	10.45 a.m.	0.82	9.45 a.m.	10.33 a.m.	.02	.10	.20	.25	.32	.45	.55	.67	.80						
Do.	20-21	9.45 p.m.	12.20 p.m.	1.47	6.12 a.m.	6.44 a.m.	.25	.10	.24	.27	.35	.43	.50	.52							
Do.	23	6.35 a.m.	4.15 p.m.	2.07	7.38 a.m.	8.43 a.m.	.01	.31	.42	.50	.56	.64	.90	.92	1.06	1.23	1.33	1.52	1.64		
Grand Haven, Mich.	2			0.58														.39			
Grand Junction, Colo.	13			0.20														.08			
Grand Rapids, Mich.	2			0.75														.37			
Green Bay, Wis.	17	4.50 a.m.	11.55 a.m.	2.81	6.44 a.m.	7.55 a.m.	.22	.15	.31	.36	.45	.52	.70	.82	.84	.86	.95	1.10	1.28		
Hannibal, Mo.	1-2	4.55 p.m.	D.N. a.m.	1.32	8.48 p.m.	9.09 p.m.	.25	.10	.30	.63	.83	.86									
Harrisburg, Pa.	2			0.18														.18			
Hartford, Conn.	30			0.08														.07			
Hatteras, N. C.	25	8.50 a.m.	3.00 p.m.	1.91	11.09 a.m.	11.45 a.m.	.24	.07	.11	.20	.33	.45	.56	.71	.75						
Havre, Mont.	12			0.74														.14			
Helena, Mont.	12			0.75														.19			
Houghton, Mich.	1			0.30														.23			
Houston, Tex.	21	D.N. a.m.	6.30 a.m.	0.58	5.13 a.m.	5.24 a.m.	.09	.26	.37	.39											
Huron, S. Dak.	12	2.00 p.m.	5.10 p.m.	0.65	4.06 p.m.	4.17 p.m.	.04	.14	.52	.56											
Independence, Cal.	25			0.18														.13			
Indianapolis, Ind.	2	12.18 a.m.	D.N. a.m.	0.55	12.31 a.m.	12.44 a.m.	.01	.10	.27	.36											
Iola, Kans.	8	4.35 p.m.	7.12 p.m.	1.53	6.07 p.m.	6.47 p.m.	.59	.05	.13	.18	.38	.45	.50	.64	.90						
Jacksonville, Fla.	24	5.14 p.m.	7.30 p.m.	1.37	5.40 p.m.	6.14 p.m.	.05	.33	.61	.85	1.08	1.20	1.23	1.30							
Kalispell, Mont.	14			0.33														.12			
Kansas City, Mo.	6, 7	11.40 p.m.	9.50 a.m.	6.94	11.49 p.m.	12.18 a.m.	.01	.20	.84	1.15	1.38	1.51	1.56								
					5.44 a.m.	9.01 a.m.	2.39	.11	.20	.38	.63	.80	1.04	1.21	1.31	1.43	1.61				
								1.77	1.90	2.06	2.15	2.27	2.44	2.60	2.64	2.68	2.77				
								2.88	2.94	2.98	2.99	3.01	3.11	3.19	3.32	3.45	3.59				
								3.64	3.75	3.78	3.82	3.85	3.88	3.98	4.25	4.33	4.37				
Do.	10	8.03 a.m.	10.30 a.m.	2.11	8.09 a.m.	9.32 a.m.	.03	.10	.28	.39	.54	.64	.79	.93	.99	1.01	1.04	1.07	1.90	2.07	
Do.	15	6.33 a.m.	8.50 a.m.	3.59	6.36 a.m.	7.59 a.m.	.01	.19	.35	.47	.68	.91	1.19	1.74	2.28	2.76	2.90	2.93	3.41	3.51	
Do.	21-22	9.35 p.m.	D.N. a.m.	1.99	10.18 p.m.	11.07 p.m.	.24	.16	.36	.43	.64	.79	.95	1.06	1.10	1.19	1.26				
Keokuk, Iowa	1	4.25 p.m.	5.35 p.m.	0.71	5.15 p.m.	5.28 p.m.	.30	.21	.33	.40											
Key West, Fla.	13	2.05 p.m.	2.35 p.m.	0.87	2.09 p.m.	2.22 p.m.	.01	.32	.70	.84											
Do.	22	8.23 a.m.	9.12 a.m.	1.01	8.31 a.m.	9.00 a.m.	.02	.16	.44	.57	.76	.89	.97								

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 September, 1914, 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.
Knoxville, Tenn.	24			0.63														.17			
La Crosse, Wis.	14			1.46														.40			
Lander, Wyo.	15			T.														T.			
Lansing, Mich.	1	D.N. a.m.	7.00 a.m.	1.68	2.16 a.m.	3.23 a.m.	.12	.14	.22	.33	.36	.39	.50	.56	.59	.61	.64	.77	.99		
Lewiston, Idaho.	19			0.18														.13			
Lexington, Ky.	23			0.89														.29			
Lincoln, Nebr.	7	8.53 a.m.	9.17 a.m.	0.61	8.57 a.m.	9.10 a.m.	.01	.36	.55	.59											
Do.	8-9	9.15 p.m.	5.50 a.m.	3.31	12.41 a.m.	1.20 a.m.	1.05	.08	.25	.44	.58	.76	.98	1.13	1.20						
					2.02 a.m.	2.57 a.m.	1.33	.14	.26	.46	.61	.76	.96	1.13	1.24	1.38	1.48	1.58			
Do.	10	1.45 a.m.	4.20 a.m.	1.62	1.57 a.m.	2.56 a.m.	.08	.05	.19	.54	.74	.89	.98	1.02	1.12	1.16	1.21	1.39			
Little Rock, Ark.	4	9.50 a.m.	10.45 a.m.	0.42	10.21 a.m.	10.33 a.m.	.08	.09	.28	.34											
Los Angeles, Cal.	0			0.00														.00			
Louisville, Ky.	23			0.95														.19			
Ludington, Mich.	14-15	8.05 p.m.	D.N. a.m.	1.79	8.20 p.m.	9.17 p.m.	.03	.20	.36	.48	.57	.64	.70	.73	.77	.79	.85	1.02			
					2.27 a.m.	2.45 a.m.	1.16	.06	.30	.47	.56										
Lynchburg, Va.	8			0.09														.08			
Macon, Ga.	24-25	11.48 a.m.	D.N. a.m.	3.71	12.24 p.m.	1.24 p.m.	.05	.10	.19	.22	.34	.63	.95	1.14	1.30	1.41	1.49	1.69			
Madison, Wis.	14	12.15 p.m.	D.N. p.m.	2.63	8.37 p.m.	8.47 p.m.	1.83	.17	.31												
Marquette, Mich.	15			0.20														.17			
Memphis, Tenn.	2	6.19 a.m.	8.25 a.m.	0.60	7.03 a.m.	7.28 a.m.	.07	.13	.29	.37	.39	.46									
Meridian, Miss.	23			1.31														.67			
Miami, Fla.	6	1.22 p.m.	7.40 p.m.	2.20	1.23 p.m.	2.04 p.m.	.01	.13	.51	.90	1.39	1.64	1.80	1.94	2.03	2.05					
Do.	12-13	10.48 p.m.	D.N. a.m.	1.37	11.46 p.m.	12.23 a.m.	.09	.32	.53	.62	.83	.97	1.08	1.17	1.23						
Milwaukee, Wis.	14-15	5.35 p.m.	D.N. a.m.	2.59	5.57 p.m.	7.38 p.m.	.04	.19	.42	.49	.61	.73	.88	.95	1.05	1.20	1.27	1.38	1.77	2.12	2.17
Minneapolis, Minn.	14	D.N. a.m.	D.N. a.m.	0.90	1.37 a.m.	1.57 a.m.	.06	.20	.36	.38	.61										
Mobile, Ala.	24	D.N. a.m.	4.50 p.m.	1.50	1.40 a.m.	1.53 a.m.	.01	.30	.45	.54											
Modena, Utah.	27			0.19														.18			
Montgomery, Ala.	11	1.45 p.m.	2.40 p.m.	0.66	2.08 p.m.	2.22 p.m.	.07	.17	.45	.55											
Moorhead, Minn.	12			0.69														.23			
Mount Tamalpais, Cal.	18			0.11														.03			
Mount Weather, Va.	24			0.41														.16			
Nantucket, Mass.	30			0.71														.30			
Nashville, Tenn.	23			1.19														.36			
New Haven, Conn.	24-25			0.12														.04			
New Orleans, La.	12	4.10 p.m.	8.35 p.m.	1.28	6.42 p.m.	7.07 p.m.	.41	.09	.32	.55	.61	.69									
Do.	14	10.30 a.m.	11.45 a.m.	0.64	10.55 a.m.	11.12 a.m.	.02	.17	.45	.58	.61										
New York, N. Y.	24			0.09														.09			
Norfolk, Va.	12			0.86														.39			
Northfield, Vt.	2			0.26														.19			
North Head, Wash.	18			0.37														.14			
North Platte, Nebr.	13			0.09														(*)			
Oklahoma, Okla.	22	D.N. a.m.	9.20 a.m.	1.30	4.16 a.m.	4.54 a.m.	.04	.14	.16	.19	.24	.28	.39	.57	.76						
Omaha, Nebr.	7	6.45 a.m.	9.50 a.m.	0.72	9.02 a.m.	9.24 a.m.	.08	.07	.12	.22	.52	.57									
Oswego, N. Y.	7			0.24														.24			
Palestine, Tex.	22	4.30 p.m.	11.35 p.m.	1.66	4.32 p.m.	4.56 p.m.	T.	.28	.45	.60	.71	.75									
Parkersburg, W. Va.	24			0.41														.10			
Pensacola, Fla.	11	5.40 p.m.	7.30 p.m.	0.86	5.45 p.m.	6.10 p.m.	.01	.13	.36	.52	.67	.73									
Do.	17-18	11.50 a.m.	12.10 p.m.	4.76	5.25 a.m.	5.56 a.m.	1.76	.05	.07	.16	.23	.38	.60	.63							
					6.27 a.m.	7.11 a.m.	2.55	.13	.20	.24	.36	.44	.55	.58	.73	.81					
					10.08 a.m.	10.37 a.m.	4.12	.05	.17	.27	.29	.42	.59								
Do.	30	2.25 a.m.	6.30 a.m.	2.42	3.27 a.m.	5.12 a.m.	.18	.11	.16	.20	.35	.43	.49	.56	.61	.74	.89	1.24	1.54	1.81	2.04
Peoria, Ill.	1-2	5.33 p.m.	1.30 a.m.	1.61	6.53 p.m.	7.23 p.m.	.08	.30	.54	.76	.95	1.15	1.22								
Do.	5-6	11.43 p.m.	2.30 a.m.	1.23	11.52 p.m.	12.22 a.m.	.01	.06	.18	.29	.37	.42	.50								
Do.	14-15	11.37 p.m.	4.00 a.m.	1.55	12.16 a.m.	1.19 a.m.	.24	.07	.14	.30	.36	.46	.63	.74	.83	.84	.97	1.22	1.30		
Philadelphia, Pa.	24			0.69														.51			
Phoenix, Ariz.	16			T.														T.			
Pierre, S. Dak.	1			0.46														.13			
Pittsburgh, Pa.	2			0.19														.18			
Pocatello, Idaho.	18	5.15 p.m.	D.N. p.m.	0.44	5.35 p.m.	5.43 p.m.	T.	.35	.38												
Point Reyes Light, Cal.	18			0.15														.06			
Port Huron, Mich.	1			1.18														.41			
Portland, Me.	1			0.39														.35			
Portland, Oreg.	7			0.59														.18			
Providence, R. I.	4			0.14														.11			
Pueblo, Colo.	22			0.09														.09			
Raleigh, N. C.	3	1.57 p.m.	6.18 p.m.	1.46	2.34 p.m.	3.19 p.m.	.08	.21	.30	.57	.85	.94	1.05	1.10	1.20	1.27					
Do.	17	6.48 p.m.	8.36 p.m.	0.88	6.56 p.m.	7.13 p.m.	.02	.35	.57	.60	.64										
Rapid City, S. Dak.	6			0.27														.24			
Reading, Pa.	2			0.14														.14			
Reno, Nev.	24			0.05														.04			
Richmond, Va.	17			0.37														.30			
Rochester, N. Y.	6			0.28														.27			
Roseburg, Oreg.	16			1.16														.19			
Roswell, N. Mex.	10			0.04														.04			
Sacramento, Cal.	17			T.														T.			
Saginaw, Mich.	6			0.52														.39			
St. Joseph, Mo.	7	9.00 a.m.	11.00 a.m.	0.87	10.26 a.m.	10.41 a.m.	.25	.10	.44	.62											
Do.	9	12.45 a.m.	D.N. a.m.	1.23	12.50 a.m.	1.36 a.m.	.01	.10	.28	.57	.77	.81	.82	.84	1.04	1.13	1.18				
St. Louis, Mo.	1	12.50 p.m.	2.00 p.m.	1.87	1.18 p.m.	1.55 p.m.	.10	.20	.47	.84	1.22	1.31	1.50	1.70	1.76						
Do.	5	5.35 a.m.	11.25 a.m.	1.80	5.54 a.m.	7.09 a.m.	.14	.22	.40	.41	.41	.43	.53	.59	.60	.60	.61	.77	1.30		
Do.	14-15	11.32 p.m.	4.55 a.m.	2.05	12.34 a.m.	2.00 a.m.	.07	.14	.25	.41	.56	.75	.91	1.08	1.19	1.30	1.40	1.49	1.63	1.82	
St. Paul, Minn.	1			0.58														.50			
Salt Lake City, Utah.	12			0.09														.09			
San Antonio, Tex.	22	3.28 p.m.	11.20 p.m.	1.89	6.46 p.m.	7.28 p.m.	.19	.29	.50	.76	.96	1.09	1.25	1.34	1.37						
San Diego, Cal.	26			T.														T.			
Sand Key, Fla.	3	7.37 a.m.	11.25 a.m.	0.62	7.42 a.m.	7.57 a.m.	.01	.27	.45	.52											
Do.	6	6.24 p.m.	11.15 p.m.	1.81	6.26 p.m.	7.37 p.m.	.01	.15	.42	.55	.63	.69	.73	.75	.82	.97	1.09	1.35	1.58		
Do.	10	6.22 p.m.	7.45 p.m.	0.56	6.24 p.m.	6.42 p.m.	.01	.20	.34	.47	.52										
Do.	20	8.00 a.m.	8.55 a.m.	0.64	8.17 a.m.	8.42 a.m.	.04	.15	.29	.41	.47	.55									
Do.	22	3.42 p.m.	4.30 p.m.	0.57	3.44 p.m.	3.57 p.m.	.02	.19	.42	.51											
Sandusky, Ohio.	2			0.46														.29			
San Francisco, Cal.	7			T.														T.			
San Jose, Cal.	0			0.00														.00			
San Luis Obispo, Cal.	24			T.														T.			
Santa Fe, N. Mex.	22			0.16														.16			
Sault Ste. Marie, Mich.	1	D.N. a.m.	D.N. a.m.	0.74	2.49 a.m.	2.56 a.m.	.31	.32	.43												
Savannah, Ga.	16-17	5.36 p.m.	7.30 a.m.	1.68	12.40 a.m.	1.25 a.m.	.62	.06	.26	.33	.37	.44	.52	.56	.77	.99					
Scranton, Pa.	2-3	7.09 p.m.	D.N. a.m.	0.53	7.17 p.m.	7.39 p.m.	.01	.14	.22	.33	.44	.49									
Seattle, Wash.	7			0.19														.12			

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 September, 1914, 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.
Sheridan, Wyo	12			0.27														.19			
Shreveport, La	23			0.11														.06			
Sioux City, Iowa	9	5.25 p. m.	11.40 p. m.	3.55	8.33 p. m.	11.07 p. m.	.79	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)	(*)			
Spokane, Wash	14			0.23														.10			
Springfield, Ill	1-2	7.55 p. m.	D. N. a. m.	1.43	8.12 p. m.	9.11 p. m.	.01	.11	.38	.52	.60	.64	.64	.67	.69	.79	.89	1.03			
Springfield, Mo	15			1.72														(*)			
Syracuse, N. Y	2			0.86														.52			
Tacoma, Wash	7			0.37														.18			
Tampa, Fla	1	3.03 p. m.	5.00 p. m.	0.62	3.07 p. m.	3.23 p. m.	.02	.15	.29	.52	.54										
Do	2	2.26 p. m.	6.55 p. m.	1.28	2.29 p. m.	3.20 p. m.	.01	.16	.35	.52	.66	.76	.83	.87	.90	.97	1.08	1.12			
Do	3	3.43 p. m.	6.10 p. m.	0.74	4.03 p. m.	4.33 p. m.	.07	.11	.29	.40	.46	.51	.58								
Do	17	5.05 p. m.	8.45 p. m.	1.61	5.14 p. m.	5.46 p. m.	.01	.19	.55	.94	1.11	1.25	1.39	1.43							
Tatoosh Island, Wash	18			0.87														.23			
Taylor, Tex	22			0.91														.62			
Terre Haute, Ind	6			0.57														.45			
Thomasville, Ga	3	2.10 p. m.	4.45 p. m.	2.20	3.21 p. m.	4.11 p. m.	.39	.15	.29	.47	.78	.97	1.17	1.36	1.50	1.60	1.67				
Do	24	1.48 p. m.	D. N. p. m.	2.31	8.20 p. m.	9.00 p. m.	.65	.06	.16	.46	.82	1.02	1.24	1.42	1.63						
Toledo, Ohio	6			0.80														.44			
Tonopah, Nev	25			0.22														.08			
Topeka, Kans	7	3.50 a. m.	7.15 a. m.	1.40	5.37 a. m.	6.51 a. m.	.06	.09	.13	.23	.35	.43	.51	.76	.79	.81	.88	1.00	1.33		
		5.03 p. m.	6.13 p. m.	0.64	5.05 p. m.	5.41 p. m.	.01	.17	.23	.25	.27	.31	.44	.55	.59						
Do	14	1.40 p. m.	3.05 p. m.	0.98	2.15 p. m.	2.56 p. m.	.01	.29	.51	.55	.56	.58	.66	.77	.93	.97					
Do	21	8.33 p. m.	10.55 p. m. (about)	1.25	9.12 p. m.	9.47 p. m.	.06	.15	.23	.29	.43	.64	.82	.98							
Valentine, Nebr	7	12.30 a. m.	4.30 a. m.	1.53	1.15 a. m.	2.05 a. m.	.39	.13	.17	.26	.32	.44	.49	.55	.68	.71	.76				
Vicksburg, Miss	12	5.17 a. m.	6.53 a. m.	1.36	5.59 a. m.	6.35 a. m.	.09	.34	.61	.70	.95	1.09	1.15	1.21	1.26						
Walla Walla, Wash	26			0.30														.27			
Washington, D. C	11			0.26														.20			
Wichita, Kans	21-22	7.20 p. m.	8.00 a. m.	1.65	7.23 p. m.	7.54 p. m.	.01	.07	.29	.46	.56	.61	.71	.74							
Williston, N. Dak	7			0.17														.13			
Wilmington, N. C	8	6.40 p. m.	7.40 p. m.	1.00	6.48 p. m.	7.09 p. m.	.01	.24	.47	.60	.80	.86									
Winnemucca, Nev	15			0.35														.16			
Wytheville, Va	11			0.72														.20			
Yankton, S. Dak	13			1.25														.51			
Yellowstone Park, Wyo	14-15			0.84														(*)			

* Self-register not working.

TABLE III.—*Data furnished by the Canadian Meteorological Service, September, 1914.*

Stations.	Pressure.			Temperature.						Precipitation.		
	Station reduced to mean of 24 hours.	Sea level reduced to mean of 24 hours.	Departure from normal.	Mean max. + mean min. ÷ 2.	Departure from normal.	Mean maximum.	Mean minimum.	Highest.	Lowest.	Total.	Departure from normal.	Total snowfall.
	Inches.	*Inches.*	*Inches.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*Inches.*	*Inches.*	*Inches.*
St. Johns, N. F	29.66	29.80	−.17	53.2	−0.8	60.2	46.2	82	34	3.59	−0.12	.....
Sydney, C. B. I	29.91	29.95	−.06	57.9	+1.4	66.7	49.2	87	36	1.20	−2.08	.....
Halifax, N. S	29.91	29.91	−.13	58.4	+0.8	69.4	47.3	86	33	3.59	−0.12	.....
Yarmouth, N. S	29.98	30.05	+.01	55.2	−0.9	62.4	48.0	74	36	2.10	−1.35	.....
Charlottetown, P. E. I	29.95	29.99	−.02	58.0	+0.7	66.2	49.7	82	36	2.75	−0.65	.....
Chatham, N. B	30.00	30.02	+.02	58.2	+2.8	68.3	48.2	91	35	2.03	−0.68	.....
Father Point, Que	30.00	30.02	+.04	50.4	0.0	57.2	43.7	76	30	2.21	−0.92	.....
Quebec, Que	29.75	30.07	+.06	56.4	+1.3	65.0	47.8	83	27	5.10	+1.43	.....
Montreal, Que	29.89	30.09	+.05	58.8	+0.4	66.7	50.8	84	32	2.56	−0.74	.....
Stonecliffe, Ont	29.51	30.11	+.08	56.2	+0.5	68.9	43.4	91	31	2.79	−0.49	.....
Ottawa, Ont	29.86	30.18	+.14	57.0	−0.4	66.6	47.3	88	31	2.54	−0.15	.....
Kingston, Ont	29.83	30.14	+.10	58.5	−1.5	67.2	49.8	78	36	2.08	−0.72	.....
Toronto, Ont	29.74	30.11	+.05	61.0	+2.0	71.2	50.8	87	37	1.54	−1.71	.....
White River, Ont	28.76	30.07	+.09	50.5	+0.2	63.6	37.4	81	20	2.07	−0.70	.....
Port Stanley, Ont	29.52	30.16	+.10	58.3	−1.2	67.3	49.3	79	34	2.22	−0.51	.....
Southampton, Ont	29.44	.....	.....	59.7	+2.2	68.7	50.7	86	32	0.87	−2.07	.....
Parry Sound, Ont	29.44	30.12	+.09	58.2	+2.2	68.7	47.6	85	31	2.82	−0.85	.....
Port Arthur, Ont	29.35	30.06	+.08	54.5	+2.3	63.0	46.0	80	34	2.70	−0.78	.....
Winnipeg, Man	29.10	29.92	−.02	57.0	+4.5	67.8	46.2	82	32	2.28	+0.25	.....
Minnedosa, Man	28.13	29.93	−.01	55.2	+4.7	68.5	41.9	84	28	2.30	+0.94	.....
Qu'Appelle, Sask	27.63	29.85	−.07	55.0	+3.9	68.3	41.8	87	29	0.58	−0.75	.....
Medicine Hat, Alberta	27.56	29.82	−.11	59.2	+4.2	73.0	45.5	89	35	1.40	+0.22	.....
Swift Current, Sask	27.28	29.82	−.10	54.3	+1.2	68.8	39.9	82	28	2.17	+1.95	20.0
Calgary, Alberta	26.29	29.64	−.28	53.3	+3.5	67.9	38.7	82	30	1.11	−0.25	.....
Banff, Alberta	25.32	29.88	−.05	47.3	+1.5	58.7	35.9	77	28	2.56	+0.89	9.2
Edmonton, Alberta	27.54	29.80	−.10	49.9	+0.6	61.3	38.5	79	29	2.94	+1.61	T.
Prince Albert, Sask	28.25	29.79	−.11	49.9	+1.5	59.2	40.6	76	30	1.12	−0.16	.....
Battleford, Sask	28.10	29.82	−.08	54.2	+2.4	65.7	42.7	80	30	3.97	+2.72	.....
Kamloops, B. C	28.65	29.86	−.11	56.5	−0.9	66.5	46.5	85	36	1.09	+0.24	.....
Victoria, B. C	29.71	29.80	−.21	53.6	−1.2	58.6	48.5	71	44	1.98	−1.18	.....
Barkerville, B. C	25.58	29.85	−.13	43.8	−2.9	52.5	35.2	66	23	3.75	+0.84	12.5
Hamilton, Bermuda	29.94	30.10	−.03	75.2	−2.2	81.4	68.9	87	61	6.60	+0.09	.....

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