CONDENSED CLIMATOLOGICAL SUMMARY.

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

The mean 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 SECTIONS, OCTOBER, 1913.

Section.	Temperature (° F.).								Precipitation (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	61.4	− 2.8	Flomaton	94	8	Cullman	19	21	2.18	− 0.30	Fort Deposit	5.30	Ashville	0.77
Arizona	62.0	− 1.1	2 stations	101	12†	Flagstaff	11	26	0.36	− 0.48	Alpine	2.89	20 stations	0.00
Arkansas	60.1	− 2.1	do	95	6†	Dutton	18	30	5.41	+ 2.67	Mammoth Spring	9.31	Texarkana	2.49
California	61.9	+ 0.8	3 stations	101	1†	Greenville	7	6	0.08	− 1.37	Weitchpec	3.92	131 stations	0.00
Colorado	42.5	− 2.7	Wray	88	13	Westcliffe	−10	26	0.98	− 0.32	Hawthorne	3.20	Delta	T.
Florida	70.2	− 2.2	Orange City	98	2	2 stations	31	21†	2.89	− 1.13	Garniers (near)	6.95	Macclenny	0.61
Georgia	62.2	− 2.0	2 stations	95	11	Gainesville	24	31	2.37	− 0.32	2 stations	4.03	Waynesboro	0.30
Hawaii [for Sept.]	74.8	.....	Waialua	94	27	Humuula	39	21	3.03	.....	Olaa	8.64	2 stations	0.00
Idaho	44.5	− 2.2	Glenns Ferry	87	2	Pierson	8	10	1.46	+ 0.04	Lakeview	3.40	Grandview	0.00
Illinois	53.3	− 1.1	Equality	91	7	2 stations	17	31	3.81	+ 1.54	Sparta	8.52	Warsaw	1.67
Indiana	54.7	− 0.1	Rome	94	7	Shoals	20	31	3.43	+ 0.78	Huntingburg	5.31	Fort Wayne	2.33
Iowa	49.4	− 2.5	2 stations	89	9†	Inwood	− 2	30	3.04	+ 0.69	Corydon	7.29	Alton	0.35
Kansas	53.6	− 2.8	do	91	14	Leoti	2	29	2.14	+ 0.21	Eskridge	9.12	3 stations	T.
Kentucky	56.9	− 0.7	Earlington	97	7	Shelby City	23	22	3.53	+ 1.26	Blandville	5.62	Maysville	2.41
Louisiana	65.4	− 2.0	Reserve	98	10	2 stations	24	28	5.36	+ 2.77	Donaldsonville	11.95	Franklinton	2.23
Maryland & Delaware	58.2	+ 2.6	Westernport	92	5	Deer Park	13	22	4.57	+ 1.47	Cumberland	6.45	Solomons	1.78
Michigan	49.3	+ 0.7	2 stations	89	6†	Baraga	8	31	3.33	+ 0.86	Vassar	5.94	Midland	0.90
Minnesota	42.5	− 3.0	Tracy	90	3	Hallock	− 4	31	2.59	+ 0.27	State Sanatorium	5.66	Windom	0.58
Mississippi	62.3	− 2.0	4 stations	91	8†	3 stations	26	21†	3.38	+ 1.14	Water Valley	7.35	Porterville	1.16
Missouri	54.7	− 2.5	Warsaw	93	6	2 stations	11	28	4.46	+ 1.94	Jackson	8.84	Vandalia	0.63
Montana	40.9	− 3.1	2 stations	91	1†	Bowen	− 1	28	1.74	+ 0.85	Bigtimber	4.49	Chester	0.10
Nebraska	47.9	− 2.9	Ewing	93	2	Gordon	− 2	29	0.56	− 1.08	Du Bois	3.01	3 stations	0.00
Nevada	49.8	+ 0.5	2 stations	89	2†	Tecoma	5	21†	0.28	− 0.27	Jack Creek	1.89	7 stations	0.00
New England	54.3	+ 5.1	Framingham, Mass.	87	10	Patten, Me.	20	31	6.69	+ 3.11	Middleboro, Mass.	11.77	Turner Falls, Mass.	3.05
New Jersey	57.9	+ 3.6	Lambertville	82	10	Charlotteburg	25	23	7.81	+ 4.09	Bergen Point	13.16	Vineland	2.70
New Mexico	52.0	− 1.0	Glorieta Ranch	93	1	Vermejo Park	6	26	0.63	− 0.46	Mills (near)	3.67	21 stations	0.00
New York	53.2	+ 3.7	Keene Valley	93	10	Lake Placid Club	14	31	5.37	+ 1.96	Mount Hope	11.29	Elba	1.60
North Carolina	60.1	+ 0.4	2 stations	90	1†	Highlands	20	21	4.50	+ 1.41	Lumberton	11.95	Pinehurst	2.04
North Dakota	39.3	− 4.5	McLeod	90	2	3 stations	− 2	29	1.63	+ 0.59	Oriska	3.95	Medora	0.60
Ohio	54.2	+ 1.1	Demos	96	7	Milligan	18	22	3.36	+ 0.95	Hillhouse	6.51	Chillicothe	1.43
Oklahoma	58.1	− 3.6	Arapaho	95	2	Kenton	14	29	2.97	+ 0.36	Heavener	8.04	Goodwell	0.07
Oregon	48.9	− 1.8	Glassbutte (3)	90	1†	Whitaker	5	25	2.64	+ 0.37	Golden Falls	9.13	Lakeview	0.06
Pennsylvania	54.9	+ 2.9	2 stations	88	5	Punxsutawney	16	30	5.44	+ 2.27	Shippensburg	9.62	California	3.15
Porto Rico	76.6	− 1.4	Canovanas	97	4†	Aibonito	45	29†	8.07	− 1.08	Rio Grande	19.59	Corozal	2.54
South Carolina	62.5	− 0.5	Trenton	95	5	2 stations	28	22	3.50	+ 0.36	Dillon	8.58	Meriweather	1.11
South Dakota	44.3	− 3.8	Forestburg	95	3	La Delle	− 5	29	1.39	− 0.19	Clark	4.14	2 stations	T.
Tennessee	57.7	− 1.3	2 stations	93	9†	7 stations	24	21†	3.20	+ 0.97	Springville	6.45	Johnson City	1.36
Texas	64.4	− 3.0	Falfurrias	100	6†	Plemons	16	30	4.35	+ 1.92	Angleton	17.17	5 stations	0.00
Utah	46.5	− 1.9	Hite	87	1	2 stations	5	6†	0.67	− 0.24	Maple Creek	2.96	10 stations	0.00
Virginia	57.8	+ 1.4	2 stations	85	1†	Burkes Garden	13	22	3.75	+ 0.58	Charlottesville	6.46	Petersburg	1.65
Washington	47.4	− 2.4	La Crosse	86	1	Snyders Ranch	14	25	3.32	+ 0.64	Quiniault	12.88	Wallace	0.41
West Virginia	54.5	+ 0.3	2 stations	92	10	Martinton	12	22	4.50	+ 1.86	Brandonville	8.11	2 stations	2.55
Wisconsin	46.5	− 1.3	Osceola	82	3	Solon Springs	7	31	3.03	+ 0.41	Racine	4.69	Cecil	1.46
Wyoming	38.7	− 3.1	Wheatland	90	3	Boyd	−11	29	1.54	+ 0.41	Woodrock	5.26	Lusk	T.

† Other dates also.

TABLE I.—*Climatological data for United States Weather Bureau stations, October, 1913.*

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.							**54.8**	**+ 4.4**										**86**	**6.08**	**+ 2.4**										**7.7**		
Eastport	76	67	85	29.89	29.97	− .03	53.2	+ 6.6	67	9	58	24	31	49	18	51	49	87	5.70	+ 1.8	17	8,837	s.	51	se.	21	2	6	23	8.6	.....	....
Greenville	1,070	6	.....	28.82	29.99	.....	49.6	.....	77	7	56	21	31	43	27	.....	.....	.....	7.64	.....	19	.....	.....	.....	.....	.....	.....	.....	.....	.....	0.8	....
Portland, Me.	103	82	117	29.87	29.99	− .05	53.3	+ 4.2	71	5	58	27	31	48	19	50	48	87	5.72	+ 2.1	16	7,082	n.	48	se.	20	5	5	21	7.8	0.1	....
Concord	288	70	79	29.67	29.98	− .07	53.2	+ 4.5	75	5	60	25	31	46	27	.....	.....	.....	4.63	+ 1.4	15	3,891	nw.	28	sw.	21	5	8	18	7.3	T.	....
Burlington	404	11	48	29.54	29.98	− .06	51.5	+ 4.6	78	10	59	24	31	44	27	.....	.....	.....	2.90	− 0.3	18	8,506	n.	47	s.	20	4	8	19	7.5	T.	....
Northfield	876	12	60	29.05	30.00	− .04	49.9	+ 6.3	77	10	58	20	31	41	39	47	45	88	4.97	+ 2.5	14	5,712	n.	42	sw.	20	2	8	21	8.1	0.7	....
Boston	125	115	188	29.83	29.87	− .18	56.4	+ 4.1	74	28	62	31	31	51	21	53	51	85	6.04	+ 2.2	13	7,179	e.	42	s.	20	5	6	20	7.6	0.4	....
Nantucket	12	14	90	29.92	29.93	− .12	56.8	+ 2.3	70	25	61	35	31	53	16	55	53	92	6.49	+ 3.1	15	12,262	ne.	60	sw.	21	3	7	21	8.1	.....	....
Block Island	26	11	46	29.91	29.94	− .11	57.2	+ 1.9	69	3	61	37	31	53	16	55	52	86	4.06	0.0	17	13,820	ne.	56	nw.	12	3	3	25	8.4	.....	....
Narragansett	.....	9	.....	.....	.....	.....	56.2	+ 4.1	71	3	62	30	31	50	31	.....	.....	.....	7.18	.....	18	.....	ne.	.....	.....	.....	10	4	17	.....	.....	....
Providence	160	141	165	29.79	29.96	− .09	56.0	+ 3.8	72	28	62	32	31	50	22	53	51	85	5.45	+ 1.6	14	9,157	n.	50	n.	14	4	7	20	7.5	.....	....
Hartford	159	122	140	29.78	29.95	− .11	56.8	+ 5.6	77	5	63	32	31	50	27	53	50	83	9.25	+ 5.4	15	5,184	n.	37	sw.	20	2	12	17	7.5	T.	....
New Haven	106	117	155	29.84	29.96	− .10	57.7	+ 4.9	79	5	64	32	31	51	22	53	49	78	10.64	+ 6.7	14	6,513	n.	40	s.	20	5	11	15	6.7	T.	....
Middle Atlantic States.							**57.6**	**+ 2.2**										**79**	**4.35**	**+ 1.2**										**6.0**		
Albany	97	102	115	29.86	29.97	− .09	55.4	+ 5.0	82	9	63	31	31	48	28	51	47	79	4.12	+ 1.1	13	5,845	n.	38	s.	20	6	13	12	6.2	0.1	....
Binghamton	871	10	69	29.05	29.98	− .08	53.4	+ 4.2	78	6	62	28	31	45	37	.....	.....	.....	2.76	− 0.4	13	4,044	nw.	27	nw.	11	4	5	22	7.7	T.	....
New York	314	414	454	29.62	29.96	− .10	58.2	+ 2.6	75	5	64	35	31	52	21	53	49	76	10.56	+ 6.8	10	12,734	n.	63	sw.	20	7	10	14	6.6	.....	....
Harrisburg	374	94	104	29.60	30.00	− .08	57.3	+ 3.3	78	6	64	34	31	51	26	52	47	74	6.20	+ 3.2	13	5,139	nw.	27	sw.	20	8	9	14	6.1	.....	....
Philadelphia	117	123	184	29.85	29.98	− .09	60.0	+ 3.7	76	5	66	40	22	54	26	54	50	75	5.66	+ 2.6	10	7,724	nw.	40	s.	20	8	11	12	5.7	.....	....
Reading	325	81	98	29.64	29.99	.....	57.4	.....	77	5	65	34	31	50	27	52	49	77	6.79	.....	11	5,629	nw.	33	sw.	20	8	7	16	6.5	.....	....
Scranton	805	111	119	29.12	29.99	− .08	55.8	+ 4.4	81	10	63	32	31	48	29	52	51	90	3.99	+ 1.1	12	5,070	n.	34	sw.	21	4	12	15	6.8	T.	....
Atlantic City	52	37	48	29.92	29.97	− .10	58.2	+ 0.8	73	2	64	34	31	52	22	54	51	81	3.83	+ 0.5	12	6,514	nw.	34	s.	20	10	6	15	6.0	.....	....
Cape May	17	13	49	29.97	29.99	− .08	59.3	− 0.3	75	2	65	36	31	54	20	56	53	86	4.52	+ 1.2	14	7,556	nw.	40	sw.	20	8	11	12	5.9	.....	....
Trenton	190	159	183	29.76	29.96	.....	58.2	.....	77	5	65	34	31	51	29	53	50	81	6.29	.....	11	8,579	nw.	52	sw.	20	8	10	13	6.0	.....	....
Baltimore	123	100	113	29.86	30.00	− .08	59.6	+ 2.1	77	5	66	37	22	53	26	54	50	76	3.50	+ 0.5	12	5,143	nw.	32	sw.	20	5	11	15	6.4	.....	....
Washington	112	62	85	29.87	29.99	− .09	58.8	+ 2.2	77	6	67	35	22	51	29	53	50	79	3.37	+ 0.3	12	5,284	nw.	34	sw.	20	9	9	13	5.6	.....	....
Lynchburg	681	83	88	29.27	30.02	− .07	59.7	+ 2.8	85	5	70	30	22	50	39	52	48	75	3.30	− 0.1	11	5,416	nw.	42	nw.	2	16	6	9	4.8	.....	....
Mount Weather	1,725	10	75	28.16	29.98	− .11	52.6	+ 1.1	70	5	59	28	22	46	22	49	46	81	4.52	+ 2.1	15	14,279	nw.	56	nw.	12	8	7	16	6.6	T.	....
Norfolk	91	170	205	29.90	30.00	− .07	62.2	+ 0.9	79	1	69	40	22	55	24	56	52	76	2.63	− 1.3	12	10,468	n.	60	sw.	20	13	8	10	4.9	.....	....
Richmond	144	11	52	29.85	30.00	− .08	60.2	+ 0.4	81	1	69	29	22	51	29	54	50	76	3.95	+ 0.6	13	6,223	ne.	49	sw.	20	11	10	10	5.1	.....	....
Wytheville	2,293	40	47	27.66	30.04	− .05	53.0	− 0.6	83	5	64	22	22	42	45	46	43	77	2.31	− 0.8	13	4,321	w.	30	sw.	20	15	6	10	4.3	T.	....
South Atlantic States.							**63.3**	**− 0.4**										**74**	**3.93**	**0.0**										**3.9**		
Asheville	2,255	70	84	27.70	30.06	− .03	54.5	− 0.8	81	5	65	28	22	44	38	48	44	77	2.52	− 0.4	8	5,926	nw.	33	s.	27	19	6	6	3.5	T.	....
Charlotte	773	68	76	29.19	30.02	− .06	61.0	− 0.1	83	5	71	34	21	52	30	53	48	71	2.29	− 0.9	6	5,334	sw.	42	sw.	20	18	7	6	3.8	.....	....
Hatteras	11	12	50	29.97	29.98	− .08	65.6	− 0.4	80	1	71	45	22	60	24	61	58	81	6.93	+ 0.9	10	11,990	nw.	56	nw.	2	13	9	9	4.5	.....	....
Manteo	12	12	46	.....	.....	.....	62.2	.....	83	1	71	37	23	54	.....	.....	.....	.....	3.96	− 2.1	.....	.....	nw.	.....	.....	.....	18	7	6	.....	.....	....
Raleigh	376	103	110	29.60	30.00	− .07	61.5	+ 1.0	82	17	70	34	22	53	26	54	49	70	4.11	+ 0.6	9	6,485	nw.	45	sw.	20	15	8	8	4.3	.....	....
Wilmington	78	81	91	29.92	30.00	− .06	63.8	+ 0.5	85	17	72	37	31	55	27	58	54	78	10.14	+ 6.4	14	5,847	w.	35	w.	20	13	6	12	4.5	.....	....
Charleston	48	11	92	29.96	30.00	− .06	66.1	− 1.0	89	1	74	39	21	58	25	60	56	75	6.65	+ 2.7	3	8,245	w.	38	sw.	20	16	5	10	4.2	.....	....
Columbia, S. C.	351	41	57	29.64	30.02	− .05	62.5	− 1.5	86	1	73	35	22	52	33	55	50	72	1.96	− 0.9	8	5,382	ne.	40	sw.	20	17	8	6	3.7	.....	....
Augusta	180	89	97	29.84	30.03	− .04	62.8	− 0.8	88	11	74	36	22	52	35	55	51	75	2.23	− 0.1	6	4,898	nw.	35	w.	20	17	7	7	3.5	.....	....
Savannah	65	150	194	29.96	30.03	− .02	66.2	− 0.1	88	1	76	36	21	57	28	58	54	72	1.04	− 2.5	4	7,746	w.	48	w.	20	18	5	8	3.7	.....	....
Jacksonville	43	96	129	29.98	30.04	− .02	69.2	− 0.4	90	11	79	42	21	60	26	61	57	74	1.35	− 3.7	3	6,303	w.	39	w.	20	17	7	7	3.3	.....	....
Florida Peninsula.							**71.6**	**− 1.7**										**74**	**3.78**	**− 1.2**										**4.7**		
Key West	22	10	64	29.97	29.99	+ .05	78.4	− 0.3	87	10	83	67	22	74	13	71	68	74	5.23	− 0.2	10	7,000	ne.	30	sw.	20	15	10	6	4.3	.....	....
Miami	25	37	72	29.98	30.01	.....	75.2	− 2.6	91	2	82	57	21	68	23	69	66	75	4.51	− 6.0	7	5,796	ne.	27	ne.	31	4	17	10	6.5	.....	....
Sand Key	23	39	72	29.94	29.97	+ .03	77.7	.....	86	5	80	68	22	75	11	72	69	74	4.88	.....	11	8,484	ne.	38	se.	10	20	5	6	3.9	.....	....
Tampa	35	79	96	30.00	30.03	+ .05	71.8	− 0.8	89	1	80	48	22	63	23	64	60	74	1.54	− 1.4	6	5,002	nw.	26	sw.	23	16	7	8	3.9	.....	....
Titusville	44	6	....	29.98	30.03	.....	71.6	− 2.9	93	1	82	47	21	62	29	.....	.....	.....	5.58	.....	11	.....	nw.	.....	.....	.....	15	6	10	4.9	.....	....
East Gulf States.							**63.1**	**− 2.5**										**76**	**2.39**	**− 0.4**										**3.9**		
Atlanta	1,174	190	216	28.82	30.05	− .02	60.0	− 2.4	85	10	70	30	21	50	26	52	46	67	2.24	− 0.1	8	8,918	w.	50	sw.	20	17	5	9	3.8	T.	....
Macon	370	78	87	29.64	30.04	− .02	62.0	− 1.7	88	11	74	35	21	50	39	55	51	76	1.82	− 0.3	6	4,377	nw.	28	s.	27	18	8	5	3.5	.....	....
Thomasville	273	8	57	29.74	30.04	.00	65.0	− 3.2	93	10	78	34	21	52	43	57	53	80	3.32	− 0.1	6	3,438	nw.	25	sw.	20	23	3	5	2.5	.....	....
Pensacola	56	140	182	29.99	30.05	+ .02	66.6	− 2.8	85	11	74	39	30	59	27	60	55	72	0.99	− 3.1	5	9,164	nw.	44	se.	23	17	7	7	3.8	.....	....
Anniston	741	9	57	29.28	30.08	+ .01	58.4	− 4.0	87	10	71	28	21	50	30	.....	.....	.....	2.66	+ 0.3	7	3,823	nw.	[1] 40	e.	23	[1] 14	[1] 6	[1] 8	[1] 3.9	.....	....
Birmingham	700	11	48	29.31	30.08	+ .01	60.4	− 4.0	85	10	71	29	30	50	34	52	48	73	1.55	− 0.8	7	4,549	n.	33	se.	23	16	6	9	4.2	T.	....
Mobile	57	98	106	29.99	30.05	+ .01	65.5	− 1.6	85	1	74	38	28	57	27	59	55	76	1.70	− 1.5	4	5,504	n.	29	n.	11	17	10	4	3.6	.....	....
Montgomery	223	100	112	29.82	30.08	+ .02	63.1	− 2.6	88	10	74	34	30	52	32	55	51	73	2.20	− 0.2	5	4,343	nw.	24	se.	23	17	9	5	3.5	.....	....
Meridian	375	84	93	29.66	30.06	.00	61.4	− 1.6	86	9	72	32	28	51	31	55	52	81	2.14	− 0.6	8	3,532	n.	26	w.	20	12	5	14	5.6	.....	....
Vicksburg	247	62	74	29.79	30.07	+ .01	63.2	− 2.1	87	8	72	34	30	54	32	57	54	79	2.17	− 0.6	11	4,848	se.	28	nw.	20	10	10	11	5.0	.....	....
New Orleans	51	90	121	29.99	30.05	+ .02	68.0	− 1.5	88	9	76	42	30	60	21	62	59	80	5.53	+ 2.6	10	6,031	s.	35	sw.	23	19	7	5	3.4	.....	....
West Gulf States.							**64.2**	**− 2.4**										**77**	**5.33**	**+ 2.6**										**4.6**		
Shreveport	249	77	93	29.79	30.06	+ .01	63.6	− 2.0	88	10	73	34	30	55	30	57	53	78	2.95	− 0.2	9	5,343	se.	34	s.	22	14	7	10	4.8	.....	....
Bentonville	1,303	11	44	28.66	30.03	− .02	55.4	− 2.6	84	6	67	21	30	44	38	.....	.....	.....	4.59	+ 1.8	9	3,811	s.	20	nw.	19	13	9	9	5.1	3.7	....
Fort Smith	457	79	94	29.56	30.04	− .01	60.2	− 1.5	88	5	71	28	30	50	39	53	49	76	3.71	+ 0.9	8	5,646	e.	44	nw.	19	14	4	13	5.1	T.	....
Little Rock	357	139	147	29.66	30.04	− .02	60.6	− 2.3	85	8	69	32	30	52	35	55	52	79	4.78	+ 2.2	12	6,498	nw.	37	nw.	20	11	11	9	4.9	.....	....
Brownsville	57	3	40	.....	.....	.....	73.8	.....	93	5	83	45	27	64	30	.....	.....	.....	1.76	.....	7	.....	s.	30	.....	.....	26	.....	.....	.....	.....	....
Corpus Christi	20	69	77	30.00	30.02	+ .02	71.9	− 0.7	87	5	79	45	27	65	30	65	62	78	0.43	− 1.6	4	8,726	se.	35	n.	26	14	12	5	4.5	.....	....
Fort Worth	670	106	114	29.33	30.04	+ .01	62.6	− 3.7	90	5	72	31	30	53	32	55	50	70	2.28	− 0.2	7	7,525	s.	40	nw.	26	13	8	10	4.9	.....	....
Galveston	54	106	114	29.99	30.05	+ .02	60.6	− 2.8	85	8	75	43	27	64	28	65	62	81	15.37	+11.2	11	8,996	s.	42	n.	26	18	6	7	4.0	.....	....
Houston	138	111	121	29.89	30.04	.....	67.7	− 2.2	91	8	77	40	30	59	33	.....	.....	.....	9.86	.....	12	5,774	se.	29	se.	22	11	11	9	4.7	.....	....
Palestine	510	64	72	29.52	30.05	+ .02	63.2	− 3.0	89	8	72	32	29	54	26	57	54	81	4.09	+ 0.5	9	5,229	s.	24	n.	19	18	▼3	10	4.5	.....	....
San Antonio	701	80	91	29.31	30.03	+ .02	67.0	− 2.2	91	7	77	36	27	57	36	59	55	73	8.86	+ 7.4	7	4,528	se.	36	n.	26	18	▼9	4	3.6	.....	....
Taylor	583	55	63	29.45	30.06	+ .04	64.8	− 3.5	92	7	75	34	30	55	33	.....	.....	.....	6.27	+ 3.7	9	6,028	s.	37	nw.	26	12	▼12	7	4.5	.....	....

[1] 28 days only.

TABLE I.—*Climatological data for United States Weather Bureau stations, October, 1913*—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.							56.6	− 0.2										75	3.15	+ 0.6										5.6		
Chattanooga	762	189	213	29.26	30.08	− .01	58.8	− 2.0	85	10	70	31	21	48	31	50	46	71	2.59	− 0.2	8	5,563	nw.	32	sw.	20	15	8	8	4.1	T.	....
Knoxville	996	93	100	28.99	30.05	− .04	57.3	− 0.8	86	10	68	32	21	46	33	50	46	73	2.45	− 0.2	8	3,343	ne.	24	sw.	20	16	6	9	4.2	T.	....
Memphis	399	76	97	29.64	30.07	.00	60.6	− 1.9	86	9	69	30	30	53	26	53	49	72	3.53	+ 0.8	11	6,006	s.	36	nw.	19	11	7	13	5.6	....	....
Nashville	546	168	191	29.48	30.07	− .01	58.8	− 1.5	88	7	69	28	31	48	32	51	46	71	2.93	+ 0.4	9	5,897	w.	37	w.	20	15	4	12	5.0	T.	....
Lexington	989	75	102	28.96	30.03	− .05	56.5	0.0	88	7	66	31	30	47	32	....	....	....	3.40	+ 1.2	10	6,970	se.	45	w.	2	12	5	14	5.5	T.	....
Louisville	525	219	255	29.46	30.05	− .03	57.4	− 1.0	87	6	66	32	21	48	29	50	44	69	3.84	+ 1.2	10	7,367	sw.	46	nw.	2	12	6	13	5.6	T.	....
Evansville	431	72	82	29.56	30.03	− .05	57.6	− 0.4	87	7	66	30	31	49	28	51	47	74	2.69	− 0.4	12	4,522	s.	28	s.	22	10	6	15	5.9	T.	....
Indianapolis	822	154	164	29.14	30.03	− .04	55.0	0.0	85	7	64	29	21	46	28	48	44	75	2.73	− 0.1	10	6,785	se.	34	nw.	2	9	8	14	5.8	T.	....
Terre Haute	575	96	129	29.40	30.02	.....	55.1	.....	85	10	64	28	31	46	29	49	46	78	4.01	.....	10	6,686	nw.	32	s.	10	7	11	13	6.2	0.8	....
Cincinnati	628	152	160	29.36	30.04	− .04	57.2	+ 0.2	89	10	67	32	22	48	34	50	46	72	2.71	+ 0.4	9	4,556	se.	26	nw.	2	9	9	13	5.8	T.	....
Columbus	824	173	222	29.15	30.03	− .05	54.4	+ 0.3	85	10	63	29	31	46	31	49	45	75	2.05	− 0.3	12	8,065	se.	48	w.	2	8	7	16	6.0	T.	....
Dayton	899	181	216	29.06	30.01	.....	54.8	+ 0.7	86	10	64	28	21	45	31	49	45	76	2.15	− 0.2	10	7,130	se.	44	nw.	2	11	9	11	5.5	T	....
Pittsburgh	842	353	410	29.11	30.02	− .06	55.4	+ 0.5	84	10	63	32	22	47	31	49	46	77	4.26	+ 1.9	12	8,191	nw.	60	nw.	2	9	8	14	6.5	T.	....
Elkins	1,940	41	50	27.99	30.06	− .04	52.6	+ 1.2	83	10	63	20	22	42	43	46	44	84	6.23	+ 3.8	15	3,025	w.	26	w.	11	13	2	16	6.0	T.	T.
Parkersburg	638	77	84	29.38	30.04	− .04	55.8	+ 1.2	85	10	66	28	22	46	36	50	47	81	2.55	+ 0.1	13	3,969	w.	39	nw.	2	11	5	15	6.2	T.	....
Lower Lake Region.							53.3	+ 1.7										79	3.94	+ 1.0										6.6		
Buffalo	767	247	280	29.15	29.99	− .06	53.4	+ 1.9	82	7	60	30	31	47	22	49	46	80	3.65	+ 0.1	15	10,459	w.	58	sw.	28	8	7	16	6.3	0.4	....
Canton	448	10	61	29.51	29.99	.....	50.8	+ 3.6	81	7	60	22	31	42	33	....	....	....	5.87	+ 2.5	14	7,042	sw.	43	w.	21	4	13	14	6.9	T.	....
Oswego	335	76	91	29.61	29.97	− .08	53.8	+ 2.6	76	7	59	32	31	48	22	49	46	78	4.98	+ 1.6	15	8,195	s.	33	sw.	21	9	5	17	6.5	T.	....
Rochester	523	86	102	29.43	30.00	− .05	54.1	+ 3.3	83	7	62	30	31	47	30	48	45	77	2.93	+ 0.1	13	5,546	s.	30	sw.	28	9	4	18	6.6	0.2	T.
Syracuse	597	97	113	29.35	29.99	− .07	53.5	+ 2.5	79	10	60	29	31	47	28	49	46	82	3.29	+ 0.1	16	7,802	nw.	40	s.	23	5	14	12	6.5	1.2	T.
Erie	714	92	102	29.22	29.99	− .06	54.4	+ 1.3	82	10	61	33	21	48	24	50	47	81	4.84	+ 1.0	15	8,345	s.	37	nw.	20	9	6	16	6.3	9.7	....
Cleveland	762	190	201	29.18	30.00	− .06	53.9	+ 0.8	81	7	60	28	22	48	30	49	45	75	3.96	+ 1.2	15	10,103	se.	54	w.	20	8	4	19	6.6	T.	....
Sandusky	629	62	70	29.32	30.01	− .05	53.8	− 0.1	84	10	61	29	22	47	31	49	46	78	2.37	− 0.1	14	5,890	sw.	40	nw.	2	4	8	19	7.4	0.1	....
Toledo	628	208	246	29.33	30.01	− .04	53.8	+ 1.2	84	10	61	30	22	46	31	48	45	77	3.62	+ 1.4	12	9,939	sw.	44	sw.	11	5	12	14	6.7	0.5	....
Fort Wayne	856	113	124	29.08	30.01	.....	53.4	− 0.3	86	10	62	29	22	45	32	48	46	82	2.33	.....	13	6,362	sw.	35	nw.	2	11	9	11	5.7	1.6	....
Detroit	730	218	258	29.21	30.01	− .04	53.2	+ 1.5	82	7	60	30	31	46	24	48	45	79	3.94	+ 1.6	14	8,008	s.	34	w.	11	5	13	13	6.8	T.	....
Upper Lake Region.							48.2	+ 0.5										79	3.00	+ 0.2										6.6		
Alpena	609	13	92	29.32	29.99	− .04	47.9	+ 2.0	71	6	54	24	31	42	25	44	42	84	3.41	0.0	15	8,350	nw.	35	ne.	17	1	16	14	7.1	0.4	....
Escanaba	612	54	60	29.32	29.99	− .02	45.3	+ 0.2	65	1	52	21	31	39	24	41	37	77	1.83	− 1.3	11	7,752	s.	36	ne.	20	9	9	13	6.0	T.	....
Grand Haven	632	54	92	29.30	29.99	− .04	50.2	0.0	78	10	57	30	26	43	27	46	44	78	3.09	+ 0.6	17	8,291	se.	38	sw.	10	9	9	13	5.8	0.1	....
Grand Rapids	707	70	87	29.23	30.00	− .04	51.8	+ 1.7	84	10	59	32	31	44	26	46	42	78	2.92	+ 0.4	19	3,941	s.	24	w.	1	6	12	13	5.	0.3	....
Houghton	684	62	72	29.23	29.97	− .03	44.4	− 0.7	79	3	52	24	21	37	39	....	....	....	3.12	− 0.1	16	6,736	w.	37	w.	12	4	7	20	7.8	6.7	T.
Lansing	878	11	62	29.05	30.00	.....	50.2	+ 1.5	84	7	59	27	26	42	33	45	43	85	3.30	+ 1.1	16	3,679	nw.	25	nw.	2	5	12	14	6.8	6.2	....
Ludington	637	60	66	29.29	29.99	.....	49.2	.....	78	10	56	32	31	43	21	45	41	78	2.82	.....	15	8,151	s.	39	s.	10	4	12	15	6.7	T.	....
Marquette	734	77	111	29.20	30.01	.00	46.4	+ 0.7	75	1	53	24	31	40	28	41	37	74	3.20	0.0	13	8,390	nw.	38	s.	23	4	10	17	7.1	1.7	0.4
Port Huron	638	70	120	29.29	29.99	− .05	51.8	+ 2.3	82	7	59	25	31	44	30	47	44	81	4.27	+ 1.5	12	7,383	s.	30	nw.	20	4	12	15	6.9	T.	....
Saginaw	641	62	64	29.30	30.00	.....	50.2	.....	84	7	58	27	31	42	30	46	43	83	2.61	− 0.2	15	5,242	nw.	24	s.	22	3	16	12	6.7	T.	....
Sault Ste. Marie	614	11	61	29.30	30.00	− .01	45.4	+ 2.0	76	7	52	18	30	39	28	41	38	82	2.51	− 0.8	15	6,705	se.	36	w.	12	3	9	19	7.8	2.9	0.5
Chicago	823	140	310	29.13	30.02	− .02	53.3	+ 0.1	83	10	60	27	21	47	21	48	44	76	2.23	− 0.3	15	9,097	w.	36	ne.	27	12	6	13	5.3	1.9	....
Green Bay	617	109	144	29.31	29.98	− .04	48.2	+ 1.1	80	4	56	21	31	40	27	43	39	76	2.55	+ 0.2	11	8,847	s.	43	sw.	10	8	10	13	6.8	T.	....
Milwaukee	681	119	133	29.26	30.00	− .03	50.4	+ 0.2	77	10	57	25	31	44	23	45	41	75	3.56	+ 1.2	11	7,540	sw.	33	s.	10	12	5	14	5.5	1.0	....
Duluth	1,133	11	47	28.76	30.00	.00	40.7	− 4.5	77	3	49	14	21	32	32	36	32	77	3.33	+ 0.6	10	10,460	w.	48	w.	14	6	12	13	6.3	1.0	T.
North Dakota.							38.8	− 4.4										75	1.68	+ 0.6										5.7		
Moorhead	940	8	57	29.00	30.04	− .04	40.6	− 2.2	74	3	52	8	29	30	41	36	33	84	3.19	+ 1.1	9	6,089	n.	32	n.	28	14	7	10	4.8	0.5	....
Bismarck	1,674	8	57	28.25	30.07	+ .08	41.1	− 3.0	84	2	53	6	29	29	47	34	28	69	1.13	+ 0.1	5	7,764	nw.	37	nw.	25	8	11	12	5.7	T.	....
Devils Lake	1,482	11	44	28.40	30.01	+ .02	37.9	− 2.6	78	2	48	8	29	28	37	32	28	77	1.40	+ 0.2	9	8,757	w.	46	n.	28	8	10	13	6.0	0.9	....
Williston	1,872	40	47	28.02	30.04	+ .06	39.0	− 3.9	82	2	49	6	28	29	42	33	28	69	0.89	+ 0.1	6	6,463	nw.	34	nw.	18	7	9	15	6.4	1.4	....
Upper Mississippi Valley.							51.3	− 1.5										77	3.08	+ 0.6										5.6		
Minneapolis	918	102	208	.....	.....	.....	46.4	.....	84	3	56	16	21	37	35	....	....	....	2.55	0.0	8	8,813	s.	36	nw.	19	9	11	11	6.0	1.1	T.
St. Paul	837	201	236	29.08	29.99	− .02	45.8	− 2.3	84	3	55	15	21	36	38	40	36	72	2.03	− 0.3	6	9,699	n.	39	s.	6	7	11	13	6.3	0.6	T.
La Crosse	714	11	48	29.23	30.01	− .01	48.0	− 1.9	77	3	58	21	31	38	37	....	....	....	2.87	+ 0.4	15	3,993	s.	29	sw.	10	11	8	12	5.3	T.	....
Madison	974	70	78	28.96	30.02	− .01	48.3	− 0.5	76	4	56	22	31	41	26	44	40	79	2.53	+ 0.1	12	7,605	nw.	42	sw.	10	10	8	13	5.8	T.	....
Charles City	1,015	10	49	28.93	30.02	.00	47.4	− 0.8	81	3	58	16	21	37	38	42	39	79	4.05	+ 2.0	15	5,426	nw.	25	sw.	10	10	10	11	5.5	0.1	....
Davenport	606	71	79	29.35	30.02	− .02	51.6	− 1.0	79	5	60	21	31	43	34	46	43	78	3.01	+ 0.6	9	5,321	nw.	25	w.	10	12	7	12	5.2	2.0	....
Des Moines	861	84	97	29.09	30.00	− .03	51.2	− 1.3	84	6	61	20	31	42	34	44	39	69	2.67	0.0	12	5,954	nw.	40	sw.	10	13	10	8	4.8	0.2	....
Dubuque	698	81	96	29.27	30.03	− .01	49.8	− 2.2	78	5	58	22	31	41	34	44	40	75	2.92	+ 0.2	13	4,784	s.	24	sw.	10	12	5	14	5.8	0.2	....
Keokuk	614	64	78	29.35	30.03	− .02	52.8	− 1.7	83	5	62	20	31	44	34	46	42	74	1.43	− 1.1	11	5,812	nw.	28	s.	10	12	7	12	5.3	T.	....
Cairo	356	87	93	29.64	30.03	− .04	57.2	− 1.9	85	6	65	32	31	49	28	52	49	81	5.50	+ 2.9	11	5,774	s.	29	nw.	20	13	1	17	5.7	T.	....
Peoria	609	11	45	29.36	30.03	− .02	52.0	0.0	82	4	62	21	31	42	39	46	43	82	3.11	+ 0.5	10	4,556	s.	21	w.	10	7	9	15	6.2	0.1	....
Springfield, Ill	644	10	91	29.33	30.02	− .03	53.6	− 1.0	82	10	62	25	31	45	28	47	44	77	3.61	+ 1.0	12	6,008	s.	25	s.	10	8	10	13	5.7	0.9	....
Hannibal	534	74	109	29.44	30.02	− .03	53.0	− 2.9	82	6	62	24	31	44	37	....	....	....	2.77	+ 1.1	11	6,306	nw.	39	sw.	10	15	6	10	4.7	2.0	....
St. Louis	567	208	217	29.42	30.03	− .03	56.2	− 2.2	82	6	64	28	29	48	24	50	46	76	4.08	+ 1.7	13	9,218	nw.	52	s.	10	11	7	13	5.4	0.3	....
Missouri Valley.							50.2	− 2.5										68	2.35	+ 0.5										5.0		
Columbia, Mo	784	11	84	29.19	30.03	− .02	53.8	− 1.0	85	6	64	24	31	44	35	....	....	....	2.40	0.0	7	5,438	s.	33	s.	10	13	6	12	5.2	2.9	T.
Kansas City	963	161	181	28.99	30.03	− .01	54.6	− 1.2	85	6	64	23	29	46	27	48	43	71	5.64	+ 3.4	7	8,958	s.	39	nw.	19	13	8	10	4.9	3.0	T.
St. Joseph	967	11	49	28.98	30.03	.....	53.0	.....	84	3	63	22	30	43	32	46	42	73	4.23	.....	11	6,021	s.	32	nw.	25	13	8	10	4.8	T.	....
Springfield, Mo	1,324	98	104	28.64	30.05	.00	55.0	− 2.3	83	6	64	22	29	46	28	48	44	74	3.57	+ 0.8	9	7,319	s.	31	nw.	20	12	8	11	4.9	3.7	....
Iola	984	11	50	28.98	30.03	− .01	54.6	− 2.3	84	2	66	21	29	44	36	....	....	....	3.70	+ 1.4	8	5,367	s.	25	s.	14	13	10	8	4.1	6.0	....
Topeka	983	85	101	.....	.....	.....	53.6	− 2.7	84	2	63	20	29	44	28	....	....	....	6.16	+ 4.2	11	7,429	s.	39	sw.	10	12	12	7	4.3	1.5	....
Lincoln	1,189	11	84	28.75	30.03	.00	50.9	− 2.4	84	3	62	15	29	39	36	43	37	70	0.70	− 1.1	7	8,014	n.	41	nw.	28	13	10	8	4.5	0.5	....
Omaha	1,105	115	121	28.84	30.04	+ .01	50.9	− 3.3	84	3	61	17	29	41	33	43	38	68	1.06	− 1.3	7	6,425	s.	36	n.	25	11	8	12	4.8	0.3	....
Valentine	2,598	47	54	27.31	30.06	+ .05	44.2	− 4.3	86	3	58	5	29	31	41	36	28	61	0.19	− 1.1	5	7,431	nw.	34	nw.	25	14	8	9	4.9	T.	....
Sioux City	1,135	94	164	28.80	30.03	+ .01	47.3	− 3.8	84	3	59	10	29	36	39	40	35	70	0.76	− 1.0	5	9,314	nw.	42	s.	9	14	10	7	4.3	2.8	T.
Huron	1,306	56	67	28.63	30.05	+ .04	44.2	− 0.5	90	3	57	3	29	31	43	37	30	65	1.98	+ 0.6	5	7,381	nw.	42	nw.	25	8	11	12	5.8	0.3	T.
Pierre	1,572	70	75	28.38	30.07	+ .06	46.0	− 3.1	86	13	58	8	29	34	42	37	28	57	0.53	− 0.3	4	7,019	nw.	40	nw.	25	7	12	12	5.8	T.	....
Yankton	1,233	49	57	28.68	30.02	− .01	47.2	− 3.3	86	3	60	8	29	35	40	....	....	....	1.52	0.0	7	5,901	nw.	37	nw.	28	6	14	11	6.1	2.0	T.

TABLE I.—*Climatological data for United States Weather Bureau stations, October, 1913*—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.
Northern Slope.							**41.6**	**− 3.1**										**68**	**1.32**	**+ 0.4**										**6.0**		
Havre	2,505	11	44	27.37	30.04	+ .06	40.8	− 2.8	83	2	52	12	31	30	42	36	32	75	0.88	+ 0.4	3	6,199	sw.	40	sw.	13	8	10	13	6.4	1.5	....
Helena	4,110	87	114	25.84	30.09	+ .06	41.8	− 2.2	79	2	50	20	28	33	35	35	28	65	1.39	+ 0.6	9	6,340	sw.	33	sw.	13	6	10	15	6.6	13.6	....
Kalispell	2,962	11	34	26.99	30.10	+ .09	39.4	− 3.1	78	2	50	19	15	29	45	35	31	76	1.29	+ 0.1	10	2,693	se.	30	sw.	13	6	8	17	7.0	1.3	....
Miles City	2,371	26	48	27.50	30.10	+ .10	44.3	− 2.2	83	2	54	14	28	35	44	38	34	77	1.83	+ 1.0	9	4,093	nw.	24	n.	24	14	8	9	4.8	T.	....
Rapid City	3,234	46	50	26.63	30.09	+ .08	43.8	− 2.8	83	2	54	14	29	33	38	37	29	63	1.56	+ 0.5	9	5,797	w.	31	nw.	25	7	13	11	6.1	0.6	....
Cheyenne	6,088	58	64	24.02	30.06	+ .05	41.5	− 3.8	72	2	52	14	26	31	35	34	29	67	1.43	+ 0.7	8	10,115	nw.	50	w.	27	6	14	11	6.3	2.6	T.
Lander	5,372	60	68	24.67	30.09	+ .05	40.4	− 1.7	76	2	54	2	26	26	49	33	24	59	1.71	+ 0.7	5	3,758	sw.	40	sw.	13	10	10	11	5.4	10.0	0.8
Sheridan	3,790	10	47	26.14	30.10	.....	40.6	.....	79	2	52	5	26	29	46	35	30	71	2.05	.....	9	4,657	nw.	38	nw.	9	6	8	17	6.8	4.7	....
Yellowstone Park	6,200	11	48	23.90	30.12	+ .10	35.6	− 5.9	68	1	46	10	28	25	37	30	24	69	1.68	+ 0.5	13	5,739	s.	40	sw.	13	7	11	13	5.7	11.5	....
North Platte	2,821	11	51	27.12	30.08	+ .06	46.9	− 3.1	89	13	62	4	29	32	47	37	30	63	0.14	− 1.0	4	5,430	w.	40	n.	25	11	14	6	4.8	T.	....
Middle Slope.							**52.4**	**− 3.2**										**67**	**1.59**	**+ 0.1**										**4.6**		
Denver	5,291	129	172	24.75	30.04	+ .03	46.4	− 4.6	77	13	59	13	29	34	37	37	28	55	1.17	+ 0.2	11	5,778	sw.	36	sw.	9	7	19	5	4.9	8.6	....
Pueblo	4,685	80	86	25.32	30.03	+ .04	49.3	− 3.0	81	14	64	17	29	35	46	38	28	51	0.17	− 0.5	5	4,290	nw.	31	w.	10	15	15	1	3.5	T.	....
Concordia	1,398	42	50	28.56	30.04	+ .01	53.4	− 2.0	85	2	66	15	29	41	36	45	40	73	1.19	− 0.8	6	5,938	s.	29	n.	25	9	13	9	5.4	0.4	....
Dodge City	2,509	11	51	27.44	30.06	+ .04	52.8	− 1.9	88	14	66	14	29	39	46	44	40	74	0.30	− 1.1	4	7,476	nw.	47	n.	25	16	11	4	3.9	0.5	....
Wichita	1,358	139	158	28.57	30.01	+ .02	55.0	− 3.8	82	6	64	19	29	46	30	48	44	71	4.18	+ 1.9	10	9,248	s.	42	sw.	14	11	11	9	4.9	1.3	....
Oklahoma	1,214	10	47	28.76	30.05	+ .02	57.4	− 3.9	84	2	68	22	29	47	31	50	46	76	2.52	+ 0.7	7	10,235	s.	50	n.	28	9	14	8	5.2	1.3	....
Southern Slope.							**58.9**	**− 3.3**										**64**	**2.53**	**+ 0.6**										**4.2**		
Abilene	1,738	10	52	28.24	30.05	+ .04	61.6	− 2.6	86	5	72	30	29	51	32	53	48	69	3.88	+ 1.6	7	7,563	s.	35	sw.	21	10	11	10	5.4	.....	....
Amarillo	3,676	10	49	26.31	30.04	+ .04	55.2	− 0.9	85	14	68	24	29	42	46	45	39	65	0.81	− 0.9	5	8,492	sw.	44	n.	28	22	9	0	3.0	0.7	....
Del Rio	944	8	57	29.02	30.00	+ .02	67.3	− 2.6	88	5	77	32	27	58	37	....	....	....	3.78	+ 2.3	7	5,130	se.	42	nw.	26	16	8	7	4.1	.....	....
Roswell	3,566	9	57	26.40	29.99	+ .03	57.0	− 2.5	84	14	70	23	27	44	43	48	39	57	0.85	− 0.7	3	5,007	s.	40	ne.	25	13	12	6	4.2	.....	....
Southern Plateau.							**60.8**	**− 0.8**										**42**	**0.12**	**− 0.5**										**2.3**		
El Paso	3,762	110	133	26.20	29.93	+ .01	63.6	+ 1.2	87	14	77	34	29	51	37	48	32	36	T.	− 1.0	0	7,860	w.	34	se.	28	19	9	3	3.0	.....	....
Santa Fe	7,013	57	62	23.28	29.99	+ .03	47.8	− 2.2	70	12	59	19	26	36	33	37	27	49	0.42	− 0.6	4	5,569	se.	34	se.	1	22	7	2	2.9	...	....
Flagstaff	6,907	8	57	.....	.....	.....	44.6	− 0.1	70	12	61	20	6	29	44	34	....	....	1.40	.....	3	.....	w.	38	w.	9	20	4	7	.....	.....	....
Phoenix	1,108	76	81	28.75	29.90	+ .02	69.6	− 0.6	96	12	85	44	7	54	39	52	35	31	0.01	− 0.3	1	3,661	e.	20	w.	5	20	8	3	2.4	.....	....
Yuma	141	9	58	29.74	29.89	+ .02	72.6	+ 0.2	99	12	90	45	8	55	45	55	42	43	T.	− 0.2	0	3,528	n.	24	ne.	2	30	1	0	0.5	.....	....
Independence	3,910	11	42	26.06	30.04	+ .09	57.2	− 2.1	82	22	73	29	7	42	38	46	46	53	T.	− 0.3	0	3,688	nw.	34	n.	4	22	9	0	2.5	.....	....
Middle Plateau.							**46.9**	**− 1.5**										**48**	**0.60**	**− 0.3**										**3.2**		
Reno	4,532	74	81	25.55	30.07	+ .08	51.4	+ 1.7	80	24	67	25	6	36	43	40	28	46	T.	− 0.4	0	4,210	w.	32	w.	13	22	7	2	2.2	.....	....
Tonopah	6,090	12	20	24.13	30.01	.....	52.2	.....	73	3	63	24	5	42	27	39	23	34	0.07	− 0.8	1	4,711	w.	40	nw.	4	21	9	1	2.3	.....	....
Winnemucca	4,344	18	56	25.71	30.13	+ .08	47.4	− 1.2	79	2	64	18	15	39	48	38	29	55	0.51	0.0	3	4,095	ne.	31	sw.	13	18	7	6	3.7	0.1	....
Modena	5,479	10	43	24.67	30.03	+ .07	46.5	− 3.6	77	24	63	18	16	30	47	35	19	40	0.25	− 0.6	3	7,442	w.	48	n.	4	18	13	0	3.0	.....	....
Salt Lake City	4,360	147	189	25.69	30.08	+ .07	50.4	− 1.8	77	2	60	31	29	41	28	41	32	54	1.31	− 0.1	5	4,779	nw.	38	nw.	4	16	9	6	4.0	2.5	....
Durango	6,546	18	56	23.68	30.01	+ .04	45.9	− 3.0	70	1	61	19	27	31	42	34	24	50	1.59	− 0.2	6	4,627	nw.	30	n.	25	18	8	5	3.3	.....	....
Grand Junction	4,602	43	51	25.42	30.01	+ .02	50.2	− 3.1	75	1	63	25	26	37	35	40	31	54	0.22	− 0.7	6	3,077	nw.	25	nw.	25	15	14	2	3.8	.....	....
Northern Plateau.							**45.6**	**− 2.2**										**63**	**1.55**	**+ 0.5**										**5.8**		
Baker	3,471	48	53	26.56	30.18	+ .10	43.0	− 2.5	72	2	54	24	28	32	37	37	30	65	1.07	+ 0.2	6	4,514	se.	25	sw.	13	11	11	9	4.6	0.7	....
Boise	2,739	78	86	27.26	30.15	+ .09	48.0	− 2.3	75	12	59	29	15	37	32	40	32	58	1.67	+ 0.4	6	3,373	nw.	24	nw.	4	13	7	11	5.1	T.	....
Lewiston	757	40	48	29.31	30.14	+ .07	48.6	− 3.2	79	2	59	30	30	38	35	....	....	....	2.18	+ 1.0	9	2,024	w.	28	w.	13	9	6	16	6.4	.....	....
Pocatello	4,477	46	54	25.54	30.09	+ .05	45.8	− 2.2	77	2	57	20	26	35	36	37	28	56	0.99	0.0	8	6,729	se.	36	sw.	13	11	9	11	5.4	1.3	....
Spokane	1,929	101	110	28.05	30.13	+ .07	45.0	− 2.3	73	2	54	26	28	36	33	40	34	70	1.58	+ 0.1	12	3,742	w.	39	w.	13	7	8	16	6.6	T.	....
Walla Walla	1,000	107	115	29.06	30.14	+ .07	51.4	− 2.3	77	2	60	34	29	43	27	45	39	65	2.44	+ 1.0	10	4,614	sw.	38	sw.	13	7	10	14	6.4	.....	....
North Pacific Coast Region.							**50.5**	**− 0.6**										**83**	**3.83**	**− 0.1**										**6.8**		
North Head	211	11	56	29.92	30.15	+ .10	52.0	− 0.9	68	19	56	43	16	48	18	50	48	87	4.25	+ 0.3	16	10,549	nw.	66	se.	12	6	10	15	6.7	.....	....
Port Crescent	259	8	53	29.86	30.15	+ .13	45.9	− 1.5	59	2	52	30	5	40	22	....	....	....	3.00	− 0.5	17	3,166	se.	16	sw.	13	3	11	17	7.1	.....	....
Seattle	125	215	250	30.03	30.16	+ .11	50.1	− 0.7	66	1	55	38	30	45	20	48	45	84	2.00	− 0.9	14	5,942	se.	42	s.	13	2	11	18	7.7	.....	....
Tacoma	213	113	120	29.92	30.16	+ .12	49.1	− 1.5	65	1	55	32	28	43	23	47	45	86	3.45	0.0	14	3,838	sw.	24	ne.	3	1	10	20	8.0	.....	....
Tatoosh Island	86	7	57	30.01	30.11	+ .10	49.8	− 0.1	60	1	54	42	4	46	17	47	45	86	8.75	+ 0.8	16	11,362	e.	50	e.	25	10	5	16	6.3	.....	....
Portland, Oreg.	153	68	106	29.98	30.14	+ .08	53.2	− 0.1	75	1	60	38	5	46	25	48	44	76	3.62	− 0.1	11	3,892	nw.	32	sw.	6	7	9	15	6.3	.....	....
Roseburg	510	9	57	29.60	30.16	+ .08	53.4	+ 0.6	75	1	62	38	15	45	33	50	46	70	1.76	− 0.8	10	1,670	s.	21	w.	12	4	20	7	5.5	.....	....
Middle Pacific Coast Region.							**61.1**	**+ 2.4**										**55**	**0.26**	**− 1.3**										**2.3**		
Eureka	62	73	89	30.05	30.12	+ .06	53.2	+ 0.1	78	19	60	40	25	46	33	50	48	88	0.88	− 1.8	6	4,468	n.	31	n.	3	18	7	6	3.5	.....	....
Mount Tamalpais	2,375	11	18	27.59	30.04	+ .03	62.8	+ 4.1	82	1	69	45	5	57	25	48	34	42	0.18	− 1.7	3	12,168	nw.	58	sw.	29	23	5	3	2.1	.....	....
Point Reyes Light	490	7	18	29.47	29.99	.....	55.4	+ 0.7	78	19	61	44	24	50	26	....	....	....	0.21	.....	1	13,350	nw.	75	nw.	4	13	10	8	4.4	.....	....
Red Bluff	332	50	56	29.65	30.00	− .03	68.2	+ 4.4	98	2	80	44	6	56	38	51	33	30	T.	− 1.6	0	5,017	n.	29	n.	4	25	2	4	2.0	.....	....
Sacramento	69	106	117	29.92	29.99	.00	65.2	+ 3.0	94	1	79	44	6	52	34	52	38	42	0.13	− 0.9	1	5,349	nw.	31	nw.	4	28	2	1	0.8	.....	....
San Francisco	155	200	204	29.85	30.02	+ .01	61.5	+ 3.1	90	1	70	48	27	53	29	54	49	73	0.35	− 0.9	1	5,000	w.	32	w.	22	25	5	1	1.8	.....	....
San Jose	141	12	110	29.87	30.02	.....	61.8	+ 1.5	93	1	78	36	15	46	46	....	....	....	0.02	− 0.9	1	3,710	nw.	32	sw.	29	24	6	1	1.6	.....	....
South Pacific Coast Region.							**65.6**	**+ 3.3**										**58**	**T.**	**− 0.8**										**2.4**		
Fresno	327	89	98	29.64	29.99	+ .03	66.7	+ 2.0	92	2	82	43	6	52	38	51	35	36	T.	− 0.7	0	4,190	nw.	20	nw.	13	26	5	0	1.5	.....	....
Los Angeles	338	159	191	29.62	29.98	+ .03	67.9	+ 5.6	93	19	78	50	6	58	31	57	51	64	T.	− 0.8	0	4,051	ne.	19	sw.	5	20	6	5	2.9	.....	....
San Diego	87	62	70	29.87	29.96	+ .01	65.5	+ 2.5	86	19	72	53	8	59	24	58	54	72	T.	− 0.5	0	4,264	nw.	22	nw.	26	23	8	0	2.0	.....	....
San Luis Obispo	201	47	54	29.81	30.02	+ .03	62.3	+ 3.1	95	19	76	40	5	49	43	52	44	62	0.00	− 1.3	0	3,375	n.	20	nw.	14	16	10	5	3.3	.....	....
West Indies.																																
San Juan	82	8	54	29.87	29.96	+ .06	78.4	.....	90	4	84	69	7	73	16	....	....	....	7.17	+ 1.1	19	5,666	se.	34	e.	5	9	13	9	5.7	.....	....
Panama.																																
Ancon	92	6	69	29.74	29.84	.....	79.5	.....	92	16	87	70	31	72	20	75	75	92	8.30	− 2.5	24	4,276	nw.	22	n.	11	8	19	4	5.3	.....	....
Culebra	404	5	62	29.43	29.84	.....	78.9	.....	90	19	86	69	9	72	18	74	74	95	6.08	− 5.2	21	3,845	nw.	30	ne.	11	0	9	22	8.5	.....	....
Colon	10	5	71	29.85	29.86	.....	79.5	.....	88	18	84	72	20	75	15	76	75	88	18.63	+ 4.2	21	5,627	se.	36	n.	20	4	11	16	6.8	.....	....

TABLE II.—*Accumulated amounts of precipitation for each five minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes, or 0.80 in one hour, during October, 1913, 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	1-2	4.08 p. m.	9.00 a. m.	1.76	5.46 p. m.	7.27 p. m.	.10	.05	.13	.18	.27	.44	.49	.56	.63	.65	.67	.87	1.15	1.45	1.51
Albany, N. Y	20			0.92														.47			
Alpena, Mich	10			0.66														.25			
Amarillo, Tex	17			0.26														.15			
Anniston, Ala	17-18	8.40 p. m.	D. N. a. m.	0.98	11.43 p. m.	12.22 a. m.	.16	.07	.13	.29	.34	.38	.45	.60	.73						
Asheville, N. C	19			0.74														.33			
Atlanta, Ga	19			1.02														.28			
Atlantic City, N. J	20			0.84														.57			
Augusta, Ga	24			0.77														.75			
Baker, Oreg	7			0.57														.11			
Baltimore, Md	1			0.61														.50			
Bentonville, Ark	22	8.50 a. m.	7.15 p. m.	1.52	10.40 a. m.	11.14 a. m.	.14	.15	.20	.30	.45	.50	.58	.64							
Binghamton, N. Y	11			0.38														.27			
Birmingham, Ala	23			0.79														.28			
Bismarck, N. Dak	24-25			0.60														*			
Block Island, R. I	12			0.89														.31			
Boise, Idaho	7			1.18														.18			
Boston, Mass	2			0.75														.49			
Buffalo, N. Y	2			0.56														.31			
Burlington, Vt	20			0.52														.16			
Cairo, Ill	8	7.00 a. m.	11.30 a. m.	1.56	7.14 a. m.	8.00 a. m.	.03	.10	.15	.33	.51	.77	1.02	1.18	1.27	1.32	1.36				
Canton, N. Y	20			2.04														.43			
Charles City, Iowa	9	3.05 a. m.	6.30 a. m.	0.92	3.11 a. m.	3.33 a. m.	.01	.11	.13	.35	.54	.57									
Charleston, S. C	24	D. N. a. m.	9.20 a. m.	1.81	3.49 a. m.	4.38 a. m.	.57	.05	.20	.37	.50	.72	.83	.85	.91	1.01	1.09				
Charlotte, N. C	19			0.91														.30			
Chattanooga, Tenn	17			0.32														.27			
Cheyenne, Wyo	3			0.26														.20			
Chicago, Ill	16-17			0.52														*			
Cincinnati, Ohio	27			0.69														.40			
Cleveland, Ohio	20			0.76														.41			
Columbia, Mo	22			0.46														.18			
Columbia, S. C	19			0.32														.13			
Columbus, Ohio	27			0.22														.13			
Concord, N. H	2			1.73														.37			
Concordia, Kans	15			0.35														.31			
Corpus Christi, Tex	4			0.27														.13			
Davenport, Iowa	10			0.80														.40			
Dayton, Ohio	27			0.40														.16			
Del Rio, Tex	4			1.25														.75			
Denver, Colo	4			0.12														.12			
Des Moines, Iowa	10			0.59														.37			
Detroit, Mich	28			0.57														.26			
Devils Lake, N. Dak	9			0.53														.35			
Dodge City, Kans	18			0.19														.18			
Dubuque, Iowa	10			0.83														.41			
Duluth, Minn	10			1.44														.35			
Durango, Colo	3-4			0.86														*			
Eastport, Me	12			1.01														.43			
Elkins, W. Va	25			0.72														.38			
El Paso, Tex	15			T.														T.			
Erie, Pa	24			1.21														.17			
Escanaba, Mich	1			0.29														.27			
Eureka, Cal	7			0.57														.15			
Evansville, Ind	17			0.46														.26			
Flagstaff, Ariz	2-3			1.24														*			
Fort Smith, Ark	4			1.13														.55			
Fort Wayne, Ind	11			0.43														.26			
Fort Worth, Tex	1			0.74														.52			
Fresno, Cal	8			T.														T.			
Galveston, Tex	1	8.30 a. m.	10.25 a. m.	0.75	9.34 a. m.	9.49 a. m.	.02	.27	.47	.68											
	22	7.20 a. m.	D. N. p. m.	12.19	10.30 a. m.	12.06 p. m.	.67	.38	1.03	1.57	1.92	2.17	2.60	3.04	3.63	4.07	4.62	5.31	6.02	6.52	
					2.15 p. m.	3.05 p. m.	7.55	.07	.23	.29	.34	.40	.48	.55	.60	.66	.77				
					3.05 p. m.	3.55 p. m.		1.00	1.06	1.20	1.25	1.37	1.55	1.76	1.86	1.96	2.07				
					3.55 p. m.	4.45 p. m.		2.19	2.31	2.39	2.44	2.46	2.48	2.65	2.69	2.73	2.83				
					4.45 p. m.	4.47 p. m.		2.87													
					7.38 p. m.	8.02 p. m.	10.06	.14	.40	.65	.76	.85									
Grand Haven, Mich	10			0.52														.37			
Grand Junction, Colo	5			0.06														.05			
Grand Rapids, Mich	10			0.61														.43			
Green Bay, Wis	10			0.84														.62			
Hannibal, Mo	10			0.54														.39			
Harrisburg, Pa	[1] 30-1	9.33 p. m.	7.00 a. m.	2.52	4.28 a. m.	5.28 a. m.	1.17	.06	.11	.24	.29	.31	.34	.40	.62	.87	.98	1.14			
Hartford, Conn	24-26	3.40 p. m.	5.15 p. m.	6.02	5.54 a. m.	6.53 a. m.	3.26	.07	.17	.24	.35	.46	.52	.63	.75	.85	.92	1.00			
Hatteras, N. C	25	12.03 a. m.	10.23 a. m.	3.49	12.15 a. m.	1.05 a. m.	.05	.14	.23	.27	.49	.53	.64	.71	.78	.83	.87				
					1.05 a. m.	1.55 a. m.		1.04	1.12	1.23	1.37	1.42	1.47	1.48	1.50	1.54	1.58				
					1.55 a. m.	2.22 a. m.		1.62	1.71	1.82	1.88	1.93	1.96								
Havre, Mont	4			0.54														.06			
Helena, Mont	4-5			0.43														*			
Houghton, Mich	4			0.73														*			
Houston, Tex	1	10.53 a. m.	5.05 p. m.	2.52	12.02 p. m.	1.29 p. m.	.43	.16	.33	.51	.58	.67	.70	.73	.82	.92	.98	1.08	1.56	1.84	
	1	6.08 p. m.	D. N. p. m.	1.64	7.49 p. m.	8.23 p. m.	.45	.06	.17	.22	.30	.50	.60	.69							
	22	11.07 a. m.	7.15 p. m.	1.97	5.23 p. m.	6.41 p. m.	.83	.12	.24	.29	.32	.38	.47	.55	.57	.59	.59	.67	1.10		
Huron, S. Dak	4	3.25 p. m.	4.45 p. m.	0.91	3.43 p. m.	4.11 p. m.	.09	.28	.44	.51	.60	.66	.72								
Independence, Cal	1			T.														T.			
Indianapolis, Ind	27			0.54														.26			
Iola, Kans	4			0.97														.42			
Jacksonville, Fla	23-24			1.20														.38			
Kalispell, Mont	24			0.65														(*)			
Kansas City, Mo	9	8.00 p. m.	10.50 p. m.	1.94	9.18 p. m.	10.16 p. m.	.13	.09	.22	.42	.62	.90	1.32	1.51	1.56	1.63	1.65	1.79			
Keokuk, Iowa	9-10			0.34														.13			
Key West, Fla	28	12.10 a. m.	D. N. a. m.	1.27	1.14 a. m.	1.37 a. m.	.41	.09	.12	.32	.74	.81									
Knoxville, Tenn	24			0.52														.46			
La Crosse, Wis	10			0.79														.58			
Lander, Wyo	5			0.25														(*)			
Lansing, Mich	11			0.64														.41			
La Salle, Ill																					
Lewiston, Idaho	24			0.70														.20			
Lexington, Ky	17			0.84														.41			
Lincoln, Nebr	4			0.30														.18			

TABLE II.—*Accumulated amounts of precipitatiin for each five minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes, or 0.80 in one hour, during October, 1913, 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.
Little Rock, Ark	10			0.86														.75			
Los Angeles, Cal	1			T.														T.			
Louisville, Ky	24			1.14														.36			
Ludington, Mich	10			0.53														.25			
Lynchburg, Va	24			1.19														.20			
Macon, Ga	19			0.41														.38			
Madison, Wis	10			0.66														.32			
Marquette, Mich	10			0.78														.53			
Memphis, Tenn	17			0.40														.32			
Meridian, Miss	17–18			0.93														(*)			
Miami, Fla	30	9.25 a.m.	3.10 p.m.	1.61	11.00 a.m.	11.27 a.m.	.15	.17	.45	.67	.87	.96	1.02								
	31	9.53 a.m.	4.05 p.m.	2.18	10.42 a.m.	12.02 p.m.	.03	.06	.13	.29	.42	.48	.51	.53	.60	.65	.82	1.20	1.60		
Milwaukee, Wis	10			0.36														.20			
Minneapolis, Minn	10	12.34 a.m.	8.45 a.m.	1.77	8.23 a.m.	8.33 a.m.	1.01	.42	.75												
Mobile, Ala	23			1.40														.57			
Modena, Utah	3			0.15														.14			
Montgomery, Ala	18	D. N. a.m.	D. N. a.m.	0.59	4.08 a.m.	4.29 a.m.	.06	.07	.21	.40	.47	.51									
Moorhead, Minn	4			1.84														.55			
Mount Tamalpais, Cal	31			0.16														.04			
Mount Weather, Va	26			0.56														.29			
Nantucket, Mass	26			0.91														.47			
Nashville, Tenn	23			1.09														.27			
New Haven, Conn	1–2	5.15 p.m.	D. N. a.m.	2.90	7.23 p.m.	8.18 p.m.	.27	.07	.18	.25	.34	.43	.61	.68	.76	.78	.83	.93			
New Orleans, La	6	1.30 p.m.	3.15 p.m.	0.76	1.33 p.m.	2.00 p.m.	.01	.11	.21	.37	.57	.64	.69	.79	.82	.89	1.00	1.05	1.25	1.45	
	7	1.35 p.m.	4.10 p.m.	1.58	1.57 p.m.	3.27 p.m.	.12	.20	.46	.60	.65	.67	.72								
	22–23	11.30 p.m.	5.35 a.m.	1.96	1.57 a.m.	3.00 a.m.	.36	.11	.22	.43	.52	.57	.60	.64	.80	.83	.93	1.44	1.54		
New York, N. Y	1	6.50 a.m.	6.35 p.m.	4.86	1.10 p.m.	2.00 p.m.	.93	.05	.14	.25	.42	.54	.65	.74	.83	.96	1.02				
					2.00 p.m.	2.50 p.m.		1.06	1.15	1.21	1.62	1.91	2.14	2.58	2.66	2.85	3.00				
					2.50 p.m.	3.40 p.m.		3.10	3.24	3.32	3.34	3.38	3.39	3.39	3.43	3.49	3.64				
					3.40 p.m.	3.45 p.m.		3.69													
Norfolk, Va	95			0.96														.32			
Northfield, Vt	12			0.71														.25			
North Head, Wash	12			0.81														.32			
North Platte, Nebr	28			0.06														.05			
Oklahoma, Okla	4			1.20														.64			
Omaha, Nebr	4			0.56														.29			
Oswego, N. Y	2			0.42														.36			
Palestine, Tex	1	10.12 a.m.	1.57 p.m.	1.04	12.06 p.m.	12.40 p.m.	.06	.21	.35	.50	.59	.66	.76	.83							
Parkersburg, W. Va	24			0.86														.30			
Pensacola, Fla	18			0.40														.16			
Peoria, Ill	7	2.28 p.m.	3.30 p.m.	0.83	2.37 p.m.	2.53 p.m.	.01	.31	.60	.80	.82										
Philadelphia, Pa	12			1.45														.66			
Phoenix, Ariz	3			0.01														.01			
Pierre, S. Dak	25			0.18														(*)			
Pittsburgh, Pa	1	2.00 a.m.	5.15 a.m.	1.00	3.02 a.m.	3.20 a.m.	.27	.19	.36	.46	.54										
Pocatello, Idaho	27			0.29														.21			
Point Reyes Light, Cal	31			0.21														.07			
Port Huron, Mich	11			0.53														.27			
Portland, Me	2			1.45														.31			
Portland, Oreg	12			0.33														.17			
Providence, R. I	25			0.70														.28			
Pueblo, Colo	18–19			0.07														(*)			
Raleigh, N. C	24			1.83														.59			
Rapid City, S. Dak	4			0.99														.16			
Reading, Pa.[1]	11–12	10.45 p.m.	4.25 a.m.	0.93	11.04 p.m.	11.21 p.m.	.02	.34	.52	.61	.65										
	30–1	11.35 p.m.	4.10 p.m.	2.78	7.19 a.m.	8.10 a.m.	.87	.17	.27	.27	.37	.48	.51	.54	.62	.77	.85	.89			
Red Bluff, Cal	31			T.														T.			
Reno, Nev	29–30			T.														T.			
Richmond, Va	25			1.98														.70			
Rochester, N. Y	11			0.68														.40			
Roseburg, Oreg	7			0.52														.14			
Roswell, N. Mex	1			0.57														.29			
Sacramento, Cal	31			0.13														.10			
Saginaw, Mich	8			0.33														.18			
St. Joseph, Mo	6–7	D. N. p.m.	D. N. a.m.	1.16	1.37 a.m.	2.02 a.m.	.30	.10	.25	.32	.38	.55									
St. Louis, Mo	22			1.67														.27			
St. Paul, Minn	6			0.47														.46			
Salt Lake City, Utah	9			0.63														.10			
San Antonio, Tex	1–2	9.20 p.m.	9.00 a.m.	7.54	5.40 a.m.	5.57 a.m.	.60	.19	.31	.49	.55										
					1.41 p.m.	2.17 p.m.	2.26	.08	.17	.30	.52	.66	.77	.85							
					10.21 p.m.	11.10 p.m.	4.77	.10	.29	.38	.40	.47	.56	.65	.77	.92	1.04				
San Diego, Cal	2			T.														T.			
Sand Key, Fla	27–28	11.45 p.m.	1.00 a.m.	1.96	12.06 a.m.	12.43 a.m.	.06	.08	.15	.42	.95	1.38	1.69	1.81	1.89						
Sandusky, Ohio	2			0.37														.31			
San Francisco, Cal	31			0.35														.12			
San Jose, Cal	30			0.02														.02			
San Luis Obispo, Cal	(‡)																				
Santa Fe, N. Mex	3			0.20														.14			
Sault Ste. Marie, Mich	10			0.45														.33			
Savannah, Ga	24			0.51														.24			
Scranton, Pa	20			1.24														.38			
Seattle, Wash	8			0.17														.17			
Sheridan, Wyo	24–25			0.82														(*)			
Shreveport, La	16			0.75														.61			
Sioux City, Iowa	9			0.26														.24			
Spokane, Wash	4			0.18														.16			
Springfield, Ill	10			0.95														.44			
Springfield, Mo	22			1.48														(*)			
Syracuse, N. Y	20			0.77														.24			
Tacoma, Wash	8			0.37														.24			
Tampa, Fla	23			0.73														.48			
Tatoosh Island, Wash	12			1.75														.50			
Taylor, Tex	16	3.36 p.m.	6.15 p.m.	1.46	3.59 p.m.	4.22 p.m.	.05	.40	.74	.95	1.15	1.29									
Terre Haute, Ind	22			2.02														.39			
Thomasville, Ga	23	12.05 p.m.	8.28 p.m.	2.72	6.26 p.m.	7.03 p.m.	1.63	.07	.21	.71	.82	.85	.92	.97	1.02						
Toledo, Ohio	27			0.44														.31			
Tonopah, Nev	8			0.07														.06			
Topeka, Kans	6–7	6.21 p.m.	4.00 a.m.	2.05	6.27 p.m.	7.07 p.m.	.02	.12	.33	.41	.66	.79	.92	1.04	1.13						
	9–10	11.15 p.m.	12.55 a.m.	0.82	11.39 p.m.	12.06 a.m.	.06	.12	.28	.45	.57	.64	.70								

TABLE II.—*Accumulated amounts of precipitation for each five minutes, for the principal storms in which the rate of fall equaled or exceeded 0.25 inch in any five minutes, or 0.80 in one hour, during October, 1913, 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.
Valentine, Nebr	27			0.11														.09			
Vicksburg, Miss	6			0.47														.46			
Walla Walla, Wash	24			0.80														.19			
Washington, D. C	25			0.78														.26			
Wichita, Kans	6	5.18 p.m.	11.05 p.m.	2.11	5.26 p.m.	5.43 p.m.	.01	.16	.43	.63	.66										
					8.24 p.m.	8.58 p.m.	.94	.06	.38	.51	.69	.81	.95	1.04							
Williston, N. Dak	24			0.33														.07			
Wilmington, N. C	7	4.30 p.m.	7.20 p.m.	0.92	6.36 p.m.	7.00 p.m.	.32	.09	.14	.26	.46	.60									
	10	1.55 p.m.	7.30 p.m.	1.23	3.16 p.m.	3.41 p.m.	.24	.12	.28	.47	.64	.75									
	24-25	3.45 p.m.	D. N. a.m.	1.65	4.52 p.m.	5.25 p.m.	.08	.17	.32	.46	.60	.74	.85	.93							
Winnemucca, Nev	8			0.44														.14			
Wytheville, Va	9			0.54														.39			
Yankton, S. Dak	4			0.53														.53			
Yellowstone Park, Wyo	5			0.56														(*)			

[1] Sept. 30–Oct. 1. * Self-register not working. † Record partly estimated. ‡ No precipitation occurred during month.

TABLE III.—*Data furnished by the Canadian Meteorological Service, October, 1913.*

Districts and 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.
St. Johns, Newfoundland	29.94	30.08	+.17	48.1	+ 2.7	54.5	41.7	74	30	3.14	−2.21	.....
Sydney, Cape Breton Island	30.01	30.05	+.09	56.4	+ 9.9	62.9	49.8	70	32	2.96	−1.73	.....
Halifax, Nova Scotia	29.89	29.99	−.01	57.8	+10.6	63.9	51.6	76	30	10.49	+4.94	.....
Yarmouth, Nova Scotia	29.90	29.97	−.05	57.4	+ 9.8	63.5	51.3	74	30	5.64	+0.94	.....
Charlottetown, Prince Edward Island	29.96	30.00	+.04	55.4	+ 8.9	60.6	50.2	68	33	7.49	+2.59	.....
Chatham, New Brunswick	30.00	30.02	+.06	52.6	+ 9.6	59.0	46.3	76	30	9.22	+5.36	.....
Father Point, Quebec	29.97	29.99	+.04	44.8	+ 5.0	51.6	38.0	70	26	4.96	+2.06	T.
Quebec, Quebec	29.66	29.98	−.02	48.8	+ 6.4	55.2	42.5	73	24	3.74	+0.59	T.
Montreal, Quebec	29.76	29.97	−.04	50.9	+ 6.1	56.9	44.8	74	25	5.45	+2.32	0.1
Stonecliffe, Ontario	29.36	29.97	−.04	46.0	+ 3.2	55.5	36.6	80	20	3.00	+0.57	.....
Ottawa, Ontario	29.75	30.08	+.07	50.0	+ 6.2	57.8	42.3	76	23	4.94	+2.39	0.3
Kingston, Ontario	29.68	29.99	−.04	51.1	+ 4.1	58.7	43.5	74	22	2.98	+0.25	0.2
Toronto, Ontario	29.58	29.96	−.08	51.6	+ 5.0	59.6	43.6	81	27	2.46	+0.10	T.
White River, Ontario	28.62	29.95	−.03	37.0	− 0.1	47.1	27.0	71	2	1.80	−0.55	0.2
Port Stanley, Ontario	29.34	29.98	−.07	49.9	+ 2.1	57.5	42.3	72	26	3.58	+0.60	.....
Southampton, Ontario	29.26	.....	.....	49.6	+ 3.5	56.6	42.7	80	25	4.65	+1.48	6.0
Parry Sound, Ontario	29.28	29.98	−.03	48.0	+ 4.1	56.0	40.0	78	17	4.31	+0.39	1.5
Port Arthur, Ontario	29.27	29.98	.00	39.5	− 0.4	48.0	31.0	63	8	3.73	+1.17	3.2
Winnipeg, Manitoba	29.16	30.01	+.03	36.7	− 2.4	45.5	27.9	73	5	0.77	−0.93	1.4
Minnedosa, Manitoba	28.16	30.02	+.05	34.2	− 3.6	44.2	24.2	78	0	0.66	−0.54	1.6
Qu'Appelle, Saskatchewan	27.68	29.97	.00	34.2	− 5.2	43.5	24.9	72	− 4	1.58	+0.48	15.5
Medicine Hat, Alberta	27.68	29.98	+.01	42.4	− 2.4	54.2	30.6	81	19	0.41	−0.17	1.8
Swift Current, Saskatchewan	27.37	29.98	+.01	36.2	− 5.9	47.8	24.7	74	− 3	0.35	−0.53	3.1
Calgary, Alberta	26.40	29.97	+.02	39.8	− 0.3	53.3	26.2	85	11	0.66	+0.18	5.2
Banff, Alberta	25.38	30.04	+.09	34.4	− 4.9	42.9	25.9	64	5	1.23	+0.21	7.4
Edmonton, Alberta	27.66	29.99	+.06	37.4	− 3.7	48.3	26.5	78	12	0.50	−0.20	4.0
Prince Albert, Saskatchewan	28.38	29.96	−.01	35.0	− 2.1	44.7	25.3	69	3	0.88	+0.05	5.2
Battleford, Saskatchewan	28.24	30.00	+.03	37.1	− 2.5	46.6	27.5	76	0	0.18	−0.27	.....
Kamloops, British Columbia	28.73	30.02	+.06	44.7	− 2.3	52.1	37.3	72	22	1.04	+0.43	.....
Victoria, British Columbia	30.03	30.13	+.12	48.8	− 0.4	54.4	43.1	62	35	3.63	+1.26	.....
Barkerville, British Columbia	25.67	30.03	+.09	32.3	− 7.4	39.2	25.4	56	12	4.53	+1.83	38.3
Hamilton, Bermuda	29.89	30.05	+.03	73.6	+ 0.6	78.9	68.2	82	64	4.22	−2.49	.....

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