CLIMATOLOGICAL DATA

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

[For description of tables and charts, see REVIEW, January 1943, p. 15]

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

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

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Section	Temperature								Precipitation					
	Section average	Departure from the normal	Monthly extremes						Section average	Departure from the normal	Greatest monthly		Least monthly	
			Station	Highest	Date	Station	Lowest	Date			Station	Amount	Station	Amount
	°F.	°F.		°F.			°F.		In.	In.		In.		In.
Alabama	64.2	−0.6	8 stations	92	[1] 6	Valley Head	24	28	0.56	−2.33	Greenville	3.04	6 stations	0.00
Arizona	64.0	+2.4	Mohawk	112	[1] 8	Fort Valley	20	17	.62	−.24	Ruby	4.14	Truxton	.00
Arkansas	63.9	+1.1	2 stations	95	[1] 3	Gilbert	25	13	1.13	−2.04	Bentonville	4.38	5 stations	.00
California	61.9	+1.5	El Centro	104	[1] 10	Boca	18	[1] 6	1.21	−.02	Vollmers	6.90	31 stations	.00
Colorado	49.6	+2.7	3 stations	89	[1] 5	Fraser	7	30	.98	−.21	Wolf Creek Pass	4.15	4 stations	.00
Florida	71.2	−1.8	do	96	[1] 1	High Springs	35	28	5.84	+1.68	Vero Beach	15.45	Chattahoochee	.00
Georgia	64.0	−1.0	5 stations	93	[1] 1	Blairsville	25	30	2.34	−.30	Brunswick Airport	11.45	Donalsonville	.03
Idaho	52.0	+4.7	Bliss	89	8	Landmark	8	[1] 6	.71	−.79	Nezperce	2.66	2 stations	.06
Illinois	56.1	+.3	Mt. Vernon	94	4	Freeport	21	22	1.22	−1.42	Macomb	4.26	Carlyle	.00
Indiana	55.0	.0	New Harmony	91	6	3 stations	21	[1] 28	1.13	−1.63	La Porte	5.33	Moores Hill	T
Iowa	53.8	+2.0	2 stations	84	31	Decorah	18	22	1.08	−1.27	Donnellson	3.33	Forest City	.20
Kansas	58.9	+1.6	do	91	[1] 6	Oberlin	25	12	1.73	−.24	Independence	4.70	Hudson	.41
Kentucky	57.5	−.9	do	90	4	2 stations	23	28	1.31	−1.34	Ashland	3.02	Murray	.15
Louisiana	66.9	−1.6	Enon Tower	98	1	Tallulah	30	28	1.16	−2.09	Lake Charles	4.75	3 stations	.00
Maryland-Delaware	55.0	−1.3	Great Falls, Md	88	7	Oakland, Md	17	[1] 16	3.36	+.27	Friendsville, Md	5.57	Aberdeen, Md	1.87
Michigan	48.1	−.6	2 stations	84	6	2 stations	11	[1] 22	1.17	−1.53	Niles	2.74	Croton Dam	.17
Minnesota	48.5	+2.0	3 stations	81	[1] 27	do	17	[1] 10	.36	−1.49	Red Lake	1.33	Milaca	T
Mississippi	64.9	−.6	Utica	95	3	3 stations	30	[1] 28	.78	−1.78	Senatobia	4.26	Leakesville	.00
Missouri	59.6	+1.9	2 stations	92	[1] 6	2 stations	25	[1] 17	1.68	−1.28	Galena	5.94	Cape Girardeau	.02
Montana	49.8	+4.7	Forsyth	86	9	Outlook	4	1	.23	−.83	Northeast Entrance	1.93	27 stations	.00
Nebraska	54.0	+2.2	Fort Robinson	92	5	4 stations	18	[1] 19	.80	−.65	Auburn	2.68	Potter	.00
Nevada	54.6	+3.9	Mesquite	98	11	Fish Creek Ranch	13	25	.33	−.29	Lewers Ranch	3.23	7 stations	.00
New England	48.6	−.9	Weston, Mass	88	7	Fort Kent, Maine	9	31	2.85	−.66	Fort Fairfield, Maine	7.65	Windsor Locks, Conn.	1.42
New Jersey	53.6	−1.0	Newark	88	7	4 stations	18	23	2.41	−1.20	Hammonton	5.43	Layton	.50
New Mexico	55.0	+1.3	San Marcial	96	1	Eagle Nest	14	30	1.39	+.23	Valmora	4.63	3 stations	.00
New York	48.8	−1.1	Avon	90	6	Tupper Lake	12	28	2.41	−.90	Morrisville	4.57	Kendall	.61
North Carolina	59.6	−.4	2 stations	95	7	Mount Mitchell	18	[1] 27	3.06	−.20	Wilmington	7.91	Murphy	.73
North Dakota	48.7	+4.5	3 stations	84	27	2 stations	11	21	.12	−.87	Milnor	1.42	37 stations	.00
Ohio	53.3	−.3	2 stations	87	6	Fredericktown	17	28	1.42	−1.10	Willoughby	5.86	Dayton Airport	.10
Oklahoma	63.9	+1.4	3 stations	94	[1] 1	Smithville	28	13	2.73	−.33	Anadarko	6.73	Elk City	.28
Oregon	53.6	+3.8	Huntington	88	11	Wickiup Dam	16	6	1.09	−.84	Willow Creek	5.82	Sod House	.04
Pennsylvania	50.8	−1.7	Phoenixville	90	7	Bradford	12	28	3.15	−.12	Lake Lynn	5.67	Stroudsburg	1.03
South Carolina	63.4	−.4	Walterboro	100	3	Dillon	29	28	3.68	+.81	Florence No. 2	7.13	Myrtle Beach	1.41
South Dakota	51.4	+2.6	Murdo	88	14	3 stations	17	[1] 11	.66	−.51	Aberdeen	3.24	Ralph	.06
Tennessee	59.0	−.8	Coldwater	90	4	Rugby	21	[1] 28	1.43	−1.37	Springfield	4.85	Etowah	.08
Texas	67.4	−.3	Smithville	98	2	Stratford	29	12	1.39	−1.30	Del Rio	6.50	12 stations	.00
Utah	53.0	+3.8	St. George	95	7	Woodruff	15	24	.49	−.65	Hewinta Ranger Sta	2.77	Vernal	.00
Virginia	56.7	−.7	Diamond Springs	91	7	Big Meadows	20	28	3.29	+.28	Balcony Falls	5.88	2 stations	1.56
Washington	54.4	+4.3	Mottinger	92	2	2 stations	22	[1] 4	1.56	−1.48	Tatoosh Island	10.26	Naches Heights	T
West Virginia	53.7	−1.0	Romney	88	7	Seneca State Forest	15	27	4.07	+1.19	Stoney River Dam	7.12	Parkersburg	1.89
Wisconsin	48.9	+.6	Kenosha	85	6	Coddington	12	22	.59	−1.84	Solon Springs	2.82	Shawano	.08
Wyoming	47.7	+3.9	Fort Laramie	86	24	Yoder	11	19	.58	−.53	Northeast Entrance	1.93	Carpenter	.00
Alaska (September)	44.3	+.2	Tree Point	79	8	Shungnak	14	30	3.56	−.05	Yakataga	16.28	Circle Springs	.70
Hawaii	73.2	−.6	Waianae	95	1	Haleakala	39	[1] 4	5.99	+.55	Piihonua	39.80	5 stations	.00
Puerto Rico	78.1	+.1	Ponce	98	6	Juncos	55	13	8.48	+.32	Rio Blanco	19.64	Boringuen Field	1.71

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Total degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunder storms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	° F	° F	° F		° F	° F		° F	° F		° F	%	In.	In.	In.		Mi.								0-10	In.	In.	
New England							50.3	−0.4										77	2.75	−0.5											5.4			
Eastport	75	67	85	1,012.9	1,015.9	0.0	47.0	−0.5	73	7	53	27	31	41	24	560	40	79	5.13	+1.6	1.39	12	10.9	sw.	41	e.	21	5	10	16	7.0	0.0	0.0	1
Greenville, Maine	1,070	6	41	977.0	1,017.6	----	42.8	−1.7	73	18	52	16	31	33	39	691	36	...	3.88	+.3	1.64	10	----	n.	---	----	---	2	15	14	----	.5	.0	1
Portland, Maine [1]	103	5	43	1,012.9	1,016.9	−.4	47.6	−2.4	78	7	58	20	31	37	42	542	42	86	2.36	−.8	1.11	8	9.0	n.	31	ne.	21	13	8	10	5.0	.0	.0	2
Concord [1]	289	5	45	1,006.4	1,018.0	+.4	47.3	−.5	81	7	60	17	31	35	44	547	38	78	1.74	−1.1	1.25	6	7.8	nw.	34	nw.	29	12	11	8	5.5	.0	.0	2
Burlington [1]	403	5	51	1,002.7	1,018.3	+1.0	46.4	−2.8	75	7	56	21	28	36	32	579	39	80	2.56	−.4	.90	10	9.8	s.	35	nw.	19	4	14	13	6.7	T	.0	2
Boston [1]	124	33	62	1,012.2	1,017.3	−.3	53.8	+.2	86	7	62	30	31	45	27	363	42	70	2.58	−.6	1.78	71	1.2	nw.	41	ne.	21	11	10	10	5.4	.0	.0	1
Nantucket	12	11	59	1,016.3	1,016.9	−.7	54.6	+.4	69	19	60	37	31	49	20	322	46	80	2.39	−1.0	1.48	8	11.9	sw.	50	ne.	28	10	8	13	5.7	.0	.0	0
Block Island	26	11	46	1,015.9	1,017.3	−.3	54.8	−.1	72	7	61	37	28	49	20	319	47	76	1.89	−1.7	1.40	11	16.0	n.	43	nw.	29	15	8	8	4.6	.0	.0	0
Providence [6]	159	46	60	1,011.5	1,018.0	+.4	54.6	+2.4	78	7	63	32	31	46	27	331	41	72	3.33	+.2	2.52	6	8.0	n.	28	nw.	29	10	9	12	5.4	.0	.0	1
Hartford [1]	159	5	44	1,011.9	1,018.3	+.3	51.4	+.2	86	7	64	25	23	39	41	430	41	78	2.38	−1.1	1.66	5	7.9	s.	30	nw.	15	16	8	7	4.5	.0	.0	1
New Haven [1]	107	5	39	1,013.9	1,018.3	+.3	52.7	+.9	80	7	63	26	23	42	36	391	42	74	1.99	−1.4	1.54	8	7.2	ne.	25	n.	29	17	8	6	4.2	T	.0	1
Middle Atlantic							55.6	−0.7										75	2.72	−0.2											4.5			
Albany [1]	97	26	40	1,014.6	1,018.3	+.3	48.6	−.7	82	7	59	24	31	38	36	512	39	76	2.69	+.3	1.10	10	8.2	s.	31	w.	7	10	11	10	5.4	.0	.0	4
Binghamton [2]	871	60	79	987.1	1,020.0	+2.0	48.9	−1.1	78	7	60	25	23	38	44	505	40	83	3.52	+.6	1.35	10	5.4	w.	20	sw.	7	9	14	8	5.5	T	.0	3
New York	314	415	454	1,006.4	1,018.3	+.3	56.3	.0	83	7	64	35	28	48	23	283	42	66	3.44	−.1	2.57	6	14.8	n.	52	nw.	29	18	5	8	3.8	T	.0	0
Harrisburg [1]	374	30	49	1,005.8	1,019.6	+1.0	53.6	−1.2	84	7	63	29	23	44	35	359	42	75	3.04	+.1	2.05	8	7.1	w.	28	nw.	29	11	10	10	5.1	.0	.0	2
Philadelphia [1]	114	6	56	1,014.6	1,019.3	+1.0	54.7	−.8	85	7	65	31	23	44	36	329	44	74	1.81	−1.0	1.16	7	8.5	nw.	30	e.	20	15	7	9	4.4	.0	.0	1
Reading	323	47	306	1,007.1	1,019.6	----	54.6	−.8	85	7	65	31	23	45	37	334	----	---	1.91	−1.2	1.31	7	9.8	nw.	38	n.	27	18	4	9	4.2	T	.0	1
Scranton	805	72	104	990.2	1,020.0	+1.7	50.6	−1.3	81	7	60	27	23	41	38	455	----	---	1.75	−1.3	.58	9	5.9	n.	25	nw.	15	8	16	7	5.4	T	.0	2
Atlantic City	52	37	172	1,016.3	1,019.0	+.7	57.2	+.3	79	7	65	36	28	50	23	256	48	78	4.01	+.8	3.50	8	14.2	nw.	54	e.	20	16	5	10	4.4	.0	.0	2
Trenton	190	89	107	1,011.9	1,019.3	----	55.0	−.6	84	7	64	34	16	46	32	323	42	70	1.57	−1.2	1.02	7	8.7	nw.	29	n.	15	17	6	8	4.0	T	.0	0
Baltimore [2]	123	100	215	1,014.6	1,019.6	+1.0	57.8	−.4	87	7	66	36	28	49	27	246	45	72	4.01	+1.1	2.01	7	9.4	nw.	34	ne.	20	17	7	7	4.2	.0	.0	1
Washington [2]	112	56	100	1,015.2	1,020.0	+1.4	56.4	−1.0	86	7	66	33	23	46	30	280	45	74	3.22	+.4	1.21	10	6.6	n.	24	ne.	20	14	10	7	4.3	.0	.0	1
Cape Henry	18	8	54	1,017.6	1,018.6	----	62.1	.0	84	6	68	43	28	56	21	130	53	77	2.59	−.4	1.84	5	13.7	n.	44	e.	20	17	5	9	4.3	.0	.0	0
Lynchburg	686	144	184	994.6	1,019.6	+.6	56.4	−2.1	85	7	67	31	16	45	33	281	44	72	2.01	−1.1	1.62	6	7.6	n.	36	n.	20	16	7	8	4.1	.0	.0	2
Norfolk [2]	91	80	125	1,015.6	1,019.3	+1.0	62.4	−.1	88	7	70	38	28	55	24	131	52	80	3.45	+.4	2.51	6	9.5	n.	32	e.	20	15	6	10	4.8	.0	.0	1
Richmond	144	11	52	1,013.5	1,019.0	+.4	58.8	−.8	87	7	70	34	28	48	36	213	47	77	1.76	−1.1	1.44	7	7.4	n.	25	nw.	27	16	9	6	3.7	.0	.0	0
South Atlantic							64.2	+0.1										78	4.67	+1.4											3.5			
Asheville	2,253	77	92	941.1	1,021.0	+2.0	56.4	+1.1	84	4	68	32	23	44	39	291	42	73	2.06	−.7	1.35	4	7.2	nw.	24	nw.	27	16	8	7	3.7	.0	.0	1
Charlotte [2]	779	63	86	991.2	1,019.6	+1.0	61.6	−.1	89	7	72	38	28	51	30	163	48	76	3.81	+.9	2.89	5	6.5	ne.	28	ne.	20	18	7	6	3.3	.0	.0	3
Greensboro [1]	886	6	56	987.5	1,020.0	----	58.0	----	86	7	71	33	23	45	36	247	48	82	2.57	----	2.11	4	7.3	ne.	35	ne.	20	18	7	6	3.6	.0	.0	1
Hatteras	11	5	50	1,017.3	1,018.0	.0	65.6	−.3	82	7	71	43	28	60	20	73	58	84	5.16	+.2	2.71	5	13.6	ne.	38	nw.	27	11	10	10	4.8	.0	.0	4
Raleigh [1]	376	5	69	1,005.8	1,020.0	+1.7	60.6	−.2	90	7	73	30	28	48	39	181	49	82	2.24	−.6	2.11	6	8.6	ne.	29	s.	20	18	10	3	3.1	.0	.0	1
Wilmington	72	73	107	1,015.9	1,018.6	+.6	64.4	−.9	87	7	74	36	28	54	28	104	55	83	7.91	+4.6	4.73	5	8.2	n.	37	s.	20	19	5	7	3.7	.0	.0	3
Charleston [2]	48	11	92	1,016.3	1,018.3	+.3	67.4	.0	87	7	76	44	28	59	25	46	55	84	4.35	+1.1	4.20	3	10.7	n.	60	ne.	19	15	11	5	3.9	.0	.0	1
Columbia, S. C. [2]	347	70	91	1,006.1	1,019.0	+.7	64.8	+.5	90	6	76	38	28	54	32	94	51	75	2.39	−.2	2.21	4	7.6	ne.	30	ne.	19	19	7	5	3.3	.0	.0	0
Greenville, S. C.	1,040	18	36	982.1	1,019.6	----	61.8	+1.6	86	7	72	39	28	52	34	155	47	68	2.77	−.4	2.04	5	8.8	ne.	43	ne.	20	20	6	5	2.9	.0	.0	3
Augusta [2]	182	62	77	1,011.9	1,018.6	+.3	65.6	+.3	89	6	78	38	28	53	38	71	48	63	2.90	+.4	2.39	4	5.4	ne.	29	n.	20	22	3	6	2.8	.0	.0	1
Savannah [2]	65	73	152	1,015.6	1,018.3	+.7	68.2	+.3	90	7	78	43	28	58	32	35	56	84	7.96	+5.0	7.85	4	9.9	n.	42	ne.	19	18	9	4	3.4	.0	.0	0
Jacksonville [2]	43	86	110	1,016.3	1,018.0	+1.4	69.6	−1.5	90	7	78	45	28	61	25	22	58	80	10.04	+5.6	9.62	5	9.0	ne.	41	ne.	19	21	4	6	3.3	.0	.0	1
Florida Peninsula							75.3	−1.8										79	6.11	+0.5											4.8			
Key West [2]	21	10	64	1,013.9	1,014.9	+1.0	77.8	−1.3	88	1	82	61	30	73	16	0	68	78	9.50	+3.5	5.64	14	11.0	ne.	56	se.	18	12	11	8	5.1	.0	.0	0
Miami [2]	25	242	249	1,014.2	1,015.2	+.3	75.0	−3.0	86	1	80	59	29	70	19	0	66	84	3.17	−4.6	1.16	17	15.0	ne.	65	s.	19	13	10	8	4.9	.0	.0	4
Tampa [1]	35	6	43	1,015.2	1,016.9	+1.7	73.2	−1.1	92	1	82	53	14	65	24	3	62	74	5.67	+2.6	5.24	4	10.8	n.	56	ne.	19	14	9	8	4.3	.0	.0	0
East Gulf							66.1	−0.4										73	0.91	−2.1											2.1			
Atlanta [1]	1,173	33	72	977.7	1,019.6	+1.3	62.8	+.1	86	4	74	38	28	52	31	130	46	65	1.09	−1.6	.66	6	9.6	nw.	37	n.	20	19	7	5	3.0	.0	.0	3
Macon [2]	370	79	87	1,005.4	1,019.0	+1.0	64.2	−.3	87	7	77	36	28	52	41	95	49	70	1.33	−1.0	1.27	4	6.6	n.	23	nw.	20	23	3	5	2.5	.0	.0	1
Thomasville	273	49	58	1,009.1	1,019.6	+2.3	67.7	−.5	89	6	80	42	28	56	36	40	----	---	2.15	−.8	1.88	4	----	----	---	----	---	21	7	3	----	.0	.0	0
Apalachicola	35	11	51	1,016.6	1,018.3	----	69.4	−1.2	87	5	78	46	28	61	29	18	57	73	.23	−3.0	.18	2	8.9	nw.	29	n.	19	22	5	4	2.5	.0	.0	1
Pensacola	56	54	79	1,017.3	1,019.6	+2.7	68.8	−1.1	86	7	79	45	13	58	33	35	54	71	.03	−4.2	.03	1	7.4	n.	20	ne.	27	23	7	1	2.0	.0	.0	0
Anniston	741	9	----	----	----	----	61.1	−1.9	85	7	75	33	28	47	39	174	----	---	1.83	−.8	1.31	2	----	nw.	---	----	---	24	5	2	----	.0	.0	1
Birmingham [1]	700	5	62	995.3	1,020.7	+2.4	61.4	−1.0	86	6	77	31	28	46	44	169	47	76	.46	----	.40	2	5.8	e.	25	n.	27	22	6	3	2.3	.0	.0	2
Mobile [2]	57	86	161	1,017.6	1,020.0	+2.7	67.8	−1.5	88	2	79	45	11	57	33	47	53	73	.84	−2.8	.63	3	6.6	n.	20	n.	27	25	2	4	1.9	.0	.0	2
Montgomery [2]	218	92	105	1,011.9	1,020.0	+2.0	66.8	+.2	90	6	79	44	28	55	35	55	51	75	.87	−1.6	.66	2	6.2	n.	21	nw.	7	24	2	5	2.0	.0	.0	1
Meridian [2]	375	67	92	1,006.8	1,020.7	+2.7	64.4	+.1	89	4	78	37	28	50	42	99	51	80	.64	−1.8	.57	2	4.4	n.	17	nw.	7	26	2	3	1.6	.0	.0	0
Vicksburg [2]	247	82	102	1,011.5	1,021.0	+3.0	67.4	+.7	90	3	79	43	28	56	32	54	48	80	.20	−2.6	.20	1	7.2	n.	18	ne.	27	26	2	3	1.9	.0	.0	1
New Orleans [4]	53	50	84	1,017.6	1,019.6	+2.7	71.0	+1.0	90	4	79	49	13	63	23	14	56	64	.78	−2.5	.51	3	6.6	ne.	18	e.	16	27	1	3	1.6	.0	.0	3
West Gulf							69.8	+1.3										71	1.91	−1.2											2.8			
Shreveport [1]	249	5	64	1,011.9	1,020.7	+3.1	67.2	+1.6	91	2	82	38	13	53	40	57	54	74	.03	−2.7	.03	1	6.2	n.	21	n.	11	21	9	1	2.4	.0	.0	0
Fort Smith	463	57	82	1,004.1	1,020.3	+2.7	66.1	+3.3	89	1	78	42	13	54	34	55	52	66	3.32	+.3	2.02	5	5.3	e.	26	n.	7	16	12	3	3.2	.0	.0	3
Little Rock [1]	357	5	58	1,008.1	1,021.3	+3.3	65.4	+1.8	90	3	80	38	11	51	41	87	49	68	.01	−2.7	.01	1	6.3	sw.	23	nw.	7	20	11	0	2.4	.0	.0	0
Austin [1]	605	10	41	998.6	1,020.0	----	69.3	+1.0	91	2	82	42	13	56	35	20	54	68	.35	−2.8	.19	4	6.6	s.	22	n.	11	19	12	0	3.0	.0	.0	2
Brownsville [1]	57	5	54	1,016.3	1,018.3	----	74.0	−.9	92	6	84	52	13	64	32	1	64	79	3.59	.0	1.79	4	7.6	se.	24	ne.	7	17	12	2	3.5	.0	.0	3
Corpus Christi [1]	20	4	33	1,018.6	1,019.3	+3.4	73.2	+2.1	91	21	83	50	13	63	35	3	61	74	.23	----	.19	3	8.4	ne.	25	n.	12	26	5	0	2.0	.0	.0	1
Dallas [1]	512	5	45	1,002.4	1,020.7	----	68.5	+1.2	91	1	82	42	13	55	37	30	54	70	3.30	+.6	2.65	5	6.6	s.	25	s.	31	17	8	6	3.7	.0	.0	1
Fort Worth [1]	679	35	56	996.6	1,021.0	+4.1	68.9	+3.2	90	2	80	42	12	57	30	24	53	64	2.53	−.3	2.25	3	7.9	s.	26	nw.	11	18	10	3	3.5	.0	.0	2
Galveston [2]	54	106	114	1,018.0	1,020.0	+3.1	73.0	+.3	86	5	78	56	12	68	17	5	60	70	2.92	−1.4	2.64	4	7.4	n.	23	n.	11	24	4	3	2.2	.0	.0	2
Houston [2]	138	157	190	1,015.2	1,020.3	----	72.0	+1.7	90	1	82	49	12	62	27	8	57	75	.01	−3.7	.01	1	8.4	se.	21	se.	31	21	7	3	2.6	.0	.0	2
Palestine	510	64	72	1,003.1	1,021.0	+4.1	69.6	+2.4	89	2	81	46	12	59	30	19	52	60	.12	−3.2	.12	1	5.7	s.	16	ne.	8	20	11	0	2.8	.0	.0	1
Port Arthur	34	59	134	1,018.6	1,020.0	----	71.0	−.6	89	2	80	49	12	62	26	13	58	82	5.18	+1.8	3.90	3	9.7	n.	24	e.	27	26	2	3	2.0	.0	.0	4
San Antonio [1]	693	8	51	995.6	1,020.0	+3.7	69.7	−.8	91	1	83	43	13	56	36	16	54	68	1.52	−.7	1.42	3	7.1	n.	24	e.	7	17	12	2	3.4	.0	.0	1

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Total degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunder storms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	° F	° F	° F		° F	° F		° F	° F		° F	%	In.	In.	In.		Mi.								0-10	In.	In.	
Ohio Valley and Tennessee							56.7	+0.1										76	1.33	−1.3											3.9			
Chattanooga [1]	762	6	66	992.9	1,020.7	+1.7	60.0	+2.3	87	6	75	30	28	45	42	210	48	83	.73	−2.3	.60	3	5.7	n.	25	ne.	27	20	6	5	3.1	.0	.0	3
Knoxville [1]	995	27	53	984.8	1,021.0	+3.0	59.4	+.8	86	4	71	32	28	48	35	222	48	79	1.66	−1.0	.88	5	5.8	ne.	28	nw.	7	20	5	6	3.3	.0	.0	2
Memphis [4]	399	5	86	1,006.4	1,020.7	+2.7	62.8	+1.4	88	3	76	34	28	50	39	140	50	78	2.73	.0	1.34	5	6.6	sw.	20	n.	7	22	6	3	2.3	.0	.0	2
Nashville [1]	546	5	72	1,001.0	1,021.0	+2.4	59.7	−1.3	87	4	72	32	28	47	40	216	46	74	.68	−1.8	.33	4	6.4	n.	20	sw.	5	19	6	6	3.4	.0	.0	1
Lexington [1]	989	4	28	985.4	1,022.7	+4.1	56.0	−1.4	84	4	67	30	28	45	36	310	46	78	1.88	−.7	1.46	4	----	ne.	---	------	---	17	7	7	3.7	.0	.0	2
Louisville [3]	525	106	120	1,001.4	1,021.0	+2.4	58.9	−.4	84	6	69	36	28	49	35	229	45	74	.44	−2.2	.44	1	7.2	n.	24	sw.	14	18	5	8	4.2	.0	.0	1
Evansville [1]	431	11	40	1,005.4	1,021.3	+2.7	57.6	+.6	86	6	72	30	28	44	46	273	43	70	.27	−2.6	.26	2	6.7	n.	24	s.	5	16	8	7	4.2	.0	.0	1
Indianapolis [1]	823	5	54	990.9	1,021.3	+3.0	54.0	−.1	82	6	66	29	28	42	42	353	42	74	.61	----	.52	2	7.9	ne.	26	w.	7	19	4	8	3.6	.0	.0	2
Terre Haute [3]	575	68	149	1,000.3	1,021.7	----	57.1	−.1	86	6	68	34	16	46	38	272	43	76	.43	−2.3	.31	4	8.2	n.	23	w.	7	20	4	7	3.6	.0	.0	3
Cincinnati [2]	627	11	51	998.0	1,021.0	+2.4	56.6	+.9	86	6	68	32	30	45	40	291	44	77	.70	−1.8	.62	2	6.4	ne.	20	w.	28	20	2	9	3.9	.0	.0	1
Columbus [3]	822	90	110	990.9	1,021.0	+2.4	55.3	+.1	83	6	65	33	30	46	35	316	42	77	.25	−2.2	.14	5	7.8	n.	25	sw.	28	12	10	9	4.7	.0	.0	1
Dayton [1]	1,003	6	55	984.4	1,021.3	----	54.5	+.7	85	6	66	31	28	44	36	342	40	68	.10	−2.5	.05	3	9.4	nw.	31	w.	28	19	4	8	3.7	.0	.0	0
Elkins [1]	1,947	4	45	951.2	1,021.3	+2.0	50.6	−.5	79	7	63	22	23	38	46	452	42	84	3.96	+1.0	1.69	14	5.5	nw.	34	nw.	7	9	10	12	5.7	T	.0	2
Parkersburg	637	77	84	997.3	1,021.0	+2.4	55.4	−.7	84	6	66	30	28	45	39	321	45	80	1.89	−.6	.63	9	5.6	n.	23	nw.	7	18	6	7	4.0	.0	.0	2
Pittsburgh [1]	842	39	54	989.5	1,020.7	+2.1	53.0	−1.1	82	5	62	29	28	44	31	383	42	73	2.96	+.4	1.39	10	9.1	sw.	25	w.	14	11	9	11	5.2	.0	.0	1
Lower Lakes							51.0	−0.4										77	1.47	−1.4											5.4			
Buffalo [1]	768	34	96	991.2	1,019.6	+2.0	50.2	−.9	76	5	59	27	28	41	31	467	41	79	1.11	−2.2	.35	9	11.9	s.	34	sw.	16	7	11	13	6.0	.0	.0	0
Canton	448	10	61	1,001.7	1,018.3	----	46.3	−1.2	76	6	56	23	28	36	35	584	37	75	1.74	−1.3	.58	10	7.8	sw.	27	w.	6	8	11	12	6.3	T	.0	2
Oswego	335	71	85	1,006.4	1,019.0	+1.4	49.8	−1.4	78	6	58	30	28	42	31	474	40	74	1.25	−2.0	.39	9	9.1	s.	32	n.	28	9	7	15	5.8	.0	.0	0
Rochester	523	5	69	1,000.0	1,019.6	+2.0	49.4	−.1	79	6	60	26	28	39	35	491	40	78	1.17	−1.5	.63	7	9.0	w.	33	w.	6	6	12	13	6.4	T	.0	1
Syracuse [1]	596	5	57	997.0	1,019.3	+1.3	49.6	+.1	79	6	60	27	28	39	37	484	40	80	1.92	−1.2	.83	10	8.7	sw.	28	nw.	19	6	8	17	6.7	T	.0	1
Erie [2]	714	57	81	993.9	1,020.3	+2.7	52.8	−.6	82	5	60	35	28	46	29	390	42	83	3.95	+.3	1.76	12	7.6	sw.	18	w.	28	6	16	9	5.7	.0	.0	1
Cleveland [1]	762	27	54	992.2	1,021.0	+3.0	53.0	+.3	83	6	63	29	16	43	33	383	42	74	.94	−1.8	.55	6	9.9	s.	28	nw.	28	9	13	9	5.3	.0	.0	1
Sandusky	629	5	67	997.3	1,021.0	+3.0	54.0	−.3	84	6	63	32	16	45	32	350	----	---	1.16	−1.3	.63	5	8.5	sw.	20	ne.	14	15	7	9	4.4	.0	.0	0
Toledo [1]	628	5	47	997.3	1,021.0	+3.4	51.8	+.2	84	6	64	28	16	40	38	420	40	75	.91	−1.5	.75	6	10.2	sw.	26	s.	5	17	6	8	4.3	.0	.0	0
Fort Wayne [1]	857	5	33	989.2	1,021.0	----	51.8	−.9	82	6	64	27	16	40	36	419	41	78	1.29	−1.3	.86	5	7.2	nw.	28	nw.	7	19	3	9	3.9	.0	.0	2
Detroit [1]	730	5	78	993.6	1,020.7	+3.1	52.8	+.9	82	6	62	32	15	43	33	388	42	74	.73	−1.6	.55	4	9.1	w.	29	nw.	7	12	10	9	5.0	.0	.0	1
Upper Lakes							48.7	+0.8										79	0.80	−1.8											5.4			
Alpena	609	5	89	996.6	1,019.6	+2.7	47.2	+.1	74	18	56	27	15	39	34	548	39	82	1.57	−1.1	.65	11	9.8	nw.	31	nw.	26	6	11	14	6.3	.0	.0	2
Escanaba	612	51	72	997.3	1,020.3	+4.0	46.3	+.3	69	6	55	26	22	38	31	580	40	81	.75	−1.9	.60	6	11.5	s.	34	n.	28	10	8	13	5.8	.0	.0	1
Grand Rapids [3]	707	70	244	994.2	1,021.0	+3.7	51.8	+.6	79	6	62	29	22	42	30	418	40	81	.61	−2.2	.42	4	10.3	s.	29	sw.	7	16	5	10	4.5	.0	.0	1
Lansing [3]	878	5	90	988.2	1,021.0	----	48.7	−1.6	77	5	60	27	22	38	33	507	38	75	.65	−1.8	.23	7	7.4	sw.	20	n.	14	15	7	9	4.4	.0	.0	1
Marquette	734	44	73	991.9	1,020.0	+3.7	48.0	+1.3	77	17	56	32	29	40	31	525	38	74	1.23	−1.5	.46	8	9.2	n.	29	sw.	27	9	7	15	6.2	T	.0	1
Sault Sainte Marie [1]	614	11	52	996.6	1,019.6	+3.3	43.6	+.6	68	17	52	23	29	35	38	658	38	86	1.08	−2.0	.32	12	10.5	n.	32	sw.	12	7	6	18	6.9	T	.0	4
Chicago [1]	673	5	36	996.3	1,021.3	+4.0	53.4	+.9	85	6	64	30	16	43	36	373	42	74	.59	−2.0	.30	4	8.6	s.	25	sw.	23	16	7	8	4.2	.0	.0	0
Green Bay	617	90	123	997.6	1,020.3	+3.7	49.0	+.5	75	5	58	28	22	40	33	497	42	82	.85	−1.7	.66	3	10.5	s.	34	n.	18	11	9	11	5.6	T	.0	1
Milwaukee [1]	681	33	66	995.6	1,021.0	+4.1	51.2	+1.7	78	6	60	30	22	42	35	430	40	74	.29	−2.1	.28	2	11.6	sw.	32	sw.	5	11	11	9	5.1	.0	.0	0
Duluth [3]	1,133	5	47	978.7	1,021.0	+5.1	47.4	+3.3	74	16	57	27	10	38	35	576	36	80	.46	−1.8	.37	3	11.9	w.	33	nw.	7	12	8	11	5.4	.0	.0	0
North Dakota							49.3	+5.8										66	0.06	−1.1											4.0			
Fargo [1]	940	5	43	985.8	1,021.0	+5.1	47.8	+3.3	78	17	61	22	19	34	40	533	38	78	.17	−1.5	.16	3	10.7	s.	37	nw.	6	14	10	7	4.4	.0	.0	0
Bismarck [1]	1,677	5	43	959.7	1,021.3	+5.7	50.1	+6.5	82	27	66	21	21	34	49	463	34	65	.08	−.9	.05	2	8.7	se.	38	nw.	6	15	10	6	3.9	T	.0	1
Devils Lake	1,478	11	44	966.5	1,021.0	+5.4	48.4	+6.0	78	27	62	19	21	34	39	522	33	64	.01	−1.2	.01	1	8.1	s.	35	nw.	24	14	14	3	4.0	.0	.0	0
Grand Forks [1]	832	4	41	989.8	1,021.0	----	45.7	----	80	27	59	19	21	32	47	599	34	---	.09	----	.07	2	----	s.	---	------	---	17	10	4	----	.0	.0	0
Lemmon, S. Dak.	2,602	6	30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Williston	1,878	42	50	952.3	1,019.3	+4.1	50.8	+7.4	77	27	66	20	1	36	45	441	34	59	T	−.9	T	0	5.7	se.	26	w.	5	15	12	4	3.9	.0	.0	0
Upper Mississippi							54.7	+1.8										72	0.89	−1.6											3.9			
Minneapolis-St. Paul [1]	919	43	74	986.5	1,020.3	+4.0	51.2	+2.3	76	31	62	27	10	40	34	431	38	68	.26	−1.8	.19	4	9.5	nw.	33	w.	6	16	5	10	4.5	.0	.0	0
Springfield, Minn.	1,025	4	42	983.4	1,021.0	----	51.0	----	77	31	64	27	22	38	42	437	38	69	.35	----	.34	3	----	nw.	---	------	---	17	8	6	----	.0	.0	0
La Crosse [1]	714	5	29	994.6	1,021.3	+4.7	50.2	+1.1	76	18	62	24	22	38	36	460	40	78	.37	−2.0	.33	4	7.8	s.	25	w.	6	14	6	11	4.8	.0	.0	1
Madison [3]	974	70	78	985.1	1,021.3	+4.4	51.2	+.9	74	5	60	35	15	42	29	431	38	72	.24	−2.2	.13	3	7.7	sw.	28	ne.	18	15	7	9	4.3	.0	.0	1
Charles City	1,015	10	51	984.8	1,022.4	+5.8	51.2	+2.6	75	31	63	28	22	40	36	432	----	---	.62	−1.7	.35	5	5.4	nw.	17	nw.	7	20	2	9	3.6	.0	.0	0
Davenport [1]	606	6	50	999.0	1,021.7	+4.4	53.4	+1.4	78	18	65	28	16	42	40	362	42	75	1.06	−1.3	.73	4	8.1	sw.	26	nw.	7	16	5	10	4.4	.0	.0	1
Des Moines [3]	860	5	99	989.5	1,021.0	+4.1	55.8	+2.4	80	31	67	30	22	44	40	284	41	68	.61	−1.9	.32	6	7.9	n.	24	nw.	7	18	8	5	3.3	.0	.0	1
Dubuque	699	60	79	995.6	1,021.3	+4.0	53.1	+1.2	75	6	64	31	16	42	35	370	41	70	.84	−1.6	.54	5	4.7	nw.	17	nw.	7	15	7	9	4.4	.0	.0	1
Burlington [1]	702	4	36	995.6	1,021.7	+4.1	54.4	+.6	80	6	66	30	12	42	35	330	43	76	2.86	+.2	2.25	5	9.0	nw.	26	nw.	7	13	9	9	4.5	.0	.0	3
Cairo	357	5	99	1,008.1	1,021.7	+3.4	61.6	+1.1	88	6	73	39	28	50	36	165	----	---	.63	−2.1	.51	3	6.7	n.	21	sw.	5	21	4	6	3.0	.0	.0	2
Peoria [1]	609	6	26	999.3	1,022.0	+4.4	54.4	+3.4	83	6	66	31	12	43	35	338	42	74	1.23	−1.1	1.21	3	8.1	sw.	27	sw.	23	19	4	8	3.3	.0	.0	2
Springfield, Ill. [3]	636	5	191	998.0	1,021.7	+4.1	58.4	+2.6	87	6	69	39	16	48	30	228	44	80	1.22	−1.3	1.05	3	10.0	s.	29	sw.	23	18	6	7	3.8	T	.0	1
St. Louis [1]	568	35	303	1,000.7	1,021.7	+3.7	61.1	+2.3	88	6	71	43	12	51	30	173	43	65	.78	−1.9	.66	4	9.7	nw.	27	sw.	31	20	8	3	2.9	.0	.0	3
Missouri Valley							57.1	+3.2										70	1.23	−1.0											3.6			
Columbia, Mo. [3]	784	6	66	992.6	1,021.7	+4.1	59.4	+2.5	88	6	72	32	12	47	37	203	46	71	1.14	−1.5	.87	3	6.0	e.	20	sw.	23	18	7	6	3.3	.0	.0	3
Kansas City [1]	963	39	76	985.8	1,021.0	+3.7	61.2	+3.5	85	29	72	38	12	50	37	145	45	66	1.03	−1.7	.71	4	8.0	sw.	36	sw.	4	19	6	6	3.5	.0	.0	2
St. Joseph [2]	967	11	49	985.8	1,021.0	----	60.0	+4.0	84	29	71	34	12	49	35	172	46	72	1.58	−1.3	.93	8	6.8	s.	25	s.	4	21	5	5	2.8	.0	.0	4
Springfield, Mo. [1]	1,324	5	67	973.9	1,021.3	+3.7	60.0	+2.4	87	6	73	34	12	47	37	193	48	75	3.16	+.1	2.80	6	7.7	s.	46	nw.	2	21	6	4	2.9	.0	.0	4
Topeka	987	65	87	985.1	1,021.0	----	60.8	+3.8	84	29	73	37	12	49	38	149	46	70	2.33	−.1	1.56	4	7.0	n.	24	sw.	5	18	7	6	3.6	.0	.0	2
Lincoln [3]	1,189	11	81	978.0	1,021.3	+4.4	57.4	+3.2	82	23	69	34	10	45	37	243	42	71	1.17	−.7	.62	4	7.5	n.	22	nw.	18	19	6	6	3.6	.0	.0	2
Omaha [1]	1,105	5	68	981.0	1,021.3	+4.4	56.8	+3.4	83	28	69	33	10	44	37	258	44	72	.85	−1.3	.29	5	8.9	n.	29	nw.	6	17	8	6	4.0	.0	.0	1
Valentine	2,598	46	54	929.2	1,021.7	+4.4	51.6	+2.3	84	5	68	22	19	35	50	420	34	60	.16	−.9	.11	3	7.3	w.	27	nw.	5	17	6	8	4.3	.0	.0	0
Sioux City [1]	1,138	5	40	979.3	1,021.0	+4.4	53.6	+3.9	81	31	67	29	12	40	46	352	40	72	.27	−1.5	.14	3	8.1	e.	27	s.	22	16	8	7	4.1	.0	.0	0
Huron [1]	1,301	5	41	973.9	1,021.7	+5.4	50.2	+2.5	81	24	66	22	19	34	50	454	39	75	.61	−.7	.57	3	9.5	se.	34	s.	22	16	10	5	3.9	T	.0	0

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Total degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunder storms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F		°F	°F		°F	°F		°F	%	In.	In.	In.		Mi.								0-10	In.	In.	
Northern Slope							51.3	+5.8										58	0.27	−0.7											4.4			
Billings [1]	3,570	16	40	895.7	1,020.0	----	54.2	+6.2	79	4	68	29	1	41	40	336	32	47	.03	----	.03	1	10.0	sw.	30	nw.	5	14	7	10	4.5	T	.0	0
Havre	2,507	11	67	929.9	1,019.6	+4.4	52.0	+7.5	80	4	70	22	1	34	50	408	32	54	.05	−.6	.04	2	7.0	w.	34	sw.	23	10	15	6	4.9	.0	.0	0
Helena [1]	4,124	5	43	878.4	1,021.3	+4.4	48.8	+5.0	79	4	65	20	1	32	44	505	33	60	.04	−.6	.02	2	5.5	w.	34	w.	5	14	7	10	4.7	.0	.0	0
Missoula [2]	3,205	80	91	906.9	1,021.7	----	51.0	+6.0	77	4	65	30	1	37	37	434	36	68	.38	−.8	.20	3	4.9	se.	24	nw.	4	12	9	10	4.9	.0	.0	0
Kalispell	2,973	48	56	916.4	1,020.0	+3.7	49.2	+5.7	71	4	62	29	30	36	34	487	36	66	.10	−1.0	.06	3	5.3	nw.	18	sw.	23	13	10	8	4.6	.0	.0	0
Miles City [1]	2,371	5	78	935.7	1,020.7	+4.8	53.4	----	79	4	69	28	11	38	42	361	35	58	T	----	T	0	----	se.	----	----	----	14	6	11	4.5	T	.0	0
Rapid City [1]	3,259	5	63	906.9	1,021.7	+5.4	52.6	+5.0	82	5	67	26	19	38	41	384	33	58	.92	.0	.51	3	11.3	s.	43	nw.	18	16	9	6	3.8	1.0	.0	1
Cheyenne [1]	6,094	5	40	818.5	1,020.7	+4.4	49.6	+4.8	78	12	65	22	19	34	43	478	30	53	.06	−.9	.03	3	9.2	w.	37	nw.	5	10	16	5	4.8	.0	.0	2
Lander	5,352	60	68	840.8	1,021.7	+4.4	48.2	+4.7	74	9	63	21	2	34	39	521	34	64	.48	−.9	.20	4	3.6	sw.	24	sw.	31	19	5	7	3.5	4.0	.0	3
Sheridan [1]	3,790	5	38	889.3	1,020.7	----	53.5	+8.9	81	12	71	26	2	36	47	356	30	49	.08	−1.0	.05	2	5.9	nw.	49	nw.	17	18	7	6	3.6	T	.0	0
North Platte [2]	2,821	11	51	921.8	1,021.3	+4.7	54.2	+4.5	86	13	69	30	20	39	49	333	36	65	.30	−.8	.21	4	6.0	n.	19	n.	18	15	9	7	4.6	.0	.0	0
Middle Slope							59.3	+2.7										65	1.66	−0.3											4.1			
Denver [2]	5,292	106	113	843.2	1,020.7	+4.4	55.2	+4.0	82	5	68	33	19	43	37	306	32	50	.05	−1.0	.03	3	6.2	s.	23	ne.	9	17	9	5	3.9	.0	.0	1
Pueblo [1]	4,690	5	36	862.2	1,021.3	+5.7	54.3	+3.1	86	9	71	28	22	38	52	333	34	56	.32	−.3	.15	6	6.6	nw.	26	nw.	9	12	10	9	5.0	.0	.0	1
Concordia	1,392	50	58	971.2	1,021.7	+4.8	58.4	+2.5	82	31	70	36	12	46	39	209	44	70	1.57	−.4	1.17	4	6.5	sw.	20	sw.	30	17	8	6	3.8	.0	.0	1
Dodge City [1]	2,509	5	58	932.6	1,021.0	+4.4	57.7	+1.6	84	24	71	34	12	45	42	231	43	68	1.58	+.3	.81	5	12.4	sw.	32	ne.	6	13	8	10	4.8	.0	.0	0
Wichita [1]	1,358	6	64	972.2	1,020.7	+3.8	60.8	+2.2	84	24	72	38	12	50	37	143	48	69	2.20	−.4	1.51	3	11.2	s.	28	s.	30	17	5	9	4.1	.0	.0	2
Oklahoma City [2]	1,214	10	47	977.3	1,020.7	+3.8	64.6	+3.1	88	6	76	39	12	54	30	75	50	68	3.19	+.3	2.21	6	6.2	s.	19	nw.	11	18	7	6	3.5	.0	.0	4
Tulsa [1]	674	10	60	995.9	1,020.3	----	64.2	+2.6	90	1	77	39	12	52	36	74	51	71	2.70	−.6	1.85	7	8.2	s.	31	n.	11	18	9	4	3.4	.0	.0	6
Southern Slope							64.0	+1.6										68	2.89	+1.0														
Abilene [1]	1,738	4	59	959.0	1,019.6	+3.3	65.8	+1.5	88	2	78	40	12	53	33	52	52	72	3.34	+.8	2.57	3	10.4	s.	26	s.	2	20	7	4	3.6	.0	.0	3
Amarillo [1]	3,676	5	42	894.7	1,020.3	+4.4	58.8	+3.0	81	24	71	38	12	47	37	193	46	70	.84	−.8	.71	5	12.4	sw.	41	se.	15	13	8	10	4.6	.0	.0	3
Del Rio	960	63	71	985.4	1,018.6	+3.4	70.3	+.3	89	7	81	49	23	59	30	4	56	66	6.50	+4.7	6.50	1	7.2	se.	38	w.	3	19	10	2	3.3	.0	.0	2
Roswell	3,566	75	85	897.7	1,019.3	+4.7	61.2	+1.7	87	13	75	39	22	47	41	138	47	66	.89	−.5	.73	4	6.0	s.	24	s.	15	12	12	7	4.8	.0	.0	5
Southern Plateau							69.6	+3.3										50	0.77	0.0											3.			
El Paso [1]	3,778	39	85	889.9	1,015.9	+2.7	65.6	+3.6	90	6	78	45	21	53	42	49	42	46	1.30	+.5	.92	4	9.2	n.	28	e.	26	17	9	5	3.6	.0	.0	4
Albuquerque [1]	5,314	5	45	842.9	1,018.3	----	58.7	+2.1	82	6	71	38	29	46	35	200	42	60	.86	.0	.33	12	9.2	se.	36	s.	1	12	11	8	4.8	.0	.0	7
Flagstaff	6,907	36	51	794.8	1,020.0	+6.8	50.6	----	78	6	66	27	17	35	45	445	33	58	.35	−1.1	.23	5	----	nw.	----	----	----	14	8	9	----	T	.0	3
Phoenix [2]	1,107	39	87	974.9	1,012.5	+.6	74.9	+4.3	100	9	90	53	3	60	39	0	44	42	.36	−.1	.25	3	6.1	e.	27	se.	23	13	12	6	4.1	.0	.0	2
Tucson [1]	2,555	5	39	926.5	1,013.2	----	72.8	+4.1	97	9	87	48	3	59	36	2	45	43	1.13	+.6	.48	7	----	se.	----	----	----	17	7	7	4.0	.0	.0	7
Yuma	142	9	54	1,007.5	1,011.9	+.4	75.8	+2.5	105	10	92	54	16	60	40	0	49	48	.64	+.4	.49	5	4.0	w.	17	e.	23	24	5	2	2.0	.0	.0	5
Middle Plateau							54.8	+4.7										53	0.32	−0.5											3.3			
Reno [1]	4,527	20	52	864.9	1,018.0	+2.4	52.8	+4.3	84	3	74	26	26	32	54	380	34	58	.64	+.3	.46	5	5.6	w.	40	s.	31	21	7	3	3.1	.0	.0	2
Tonopah	6,090	9	20	817.1	1,016.9	----	55.8	+3.7	76	4	66	34	1	46	25	284	27	35	.02	−.3	.02	1	----	se.	----	----	----	22	8	1	----	.0	.0	0
Winnemucca	4,339	5	56	870.6	1,018.0	+.4	54.1	+5.8	85	7	73	27	2	35	49	336	32	49	.13	−.5	.06	4	7.4	ne.	26	sw.	31	21	2	8	3.3	.0	.0	2
Modena	5,473	10	46	837.1	1,017.3	+2.7	51.2	+3.2	80	7	70	27	20	33	47	429	----	----	.14	−.6	.10	4	8.3	w.	28	sw.	8	21	8	2	2.6	.0	.0	1
Salt Lake City [1]	4,227	32	58	871.0	1,019.0	+2.7	56.2	+5.4	85	8	70	36	25	42	37	281	38	56	.18	−1.1	.17	3	7.6	se.	25	s.	31	18	10	3	3.4	.0	.0	4
Grand Junction	4,602	60	68	863.9	1,018.6	+3.0	58.6	+5.8	82	10	71	36	30	46	33	207	37	49	.50	−.4	.29	8	6.0	se.	25	se.	14	16	7	8	4.1	.0	.0	4
Northern Plateau							56.0	+6.8										56	0.36	−0.8											4.4			
Baker [2]	3,471	36	54	899.1	1,019.6	+1.0	54.0	+7.4	81	11	71	27	6	37	45	342	32	60	.30	−.6	.12	4	6.1	se.	22	sw.	31	15	9	7	4.2	.0	.0	2
Boise [1]	2,739	5	49	922.8	1,018.0	.0	58.0	+7.9	82	12	72	34	6	44	39	222	36	46	.43	−.8	.39	5	8.8	se.	26	nw.	1	13	13	5	4.3	.0	.0	1
Pocatello [1]	4,478	5	31	866.9	1,020.3	+3.0	52.1	+5.6	83	8	70	24	26	34	51	398	32	52	.27	−1.4	.26	2	6.2	s.	30	w.	4	16	11	4	3.6	.0	.0	1
Spokane [1]	1,929	27	42	950.2	1,019.0	+1.0	54.2	+5.9	77	11	69	33	6	40	38	331	41	64	.45	−.7	.22	6	5.1	ne.	24	ne.	10	15	7	9	4.5	.0	.0	0
Walla Walla	991	57	65	982.7	1,018.3	.0	59.2	+5.7	79	23	70	39	6	48	31	186	----	----	.57	−1.0	.38	4	4.3	sw.	16	se.	30	11	11	9	4.8	.0	.0	1
Yakima	1,076	58	67	979.3	1,017.6	----	58.8	+8.6	81	11	72	39	6	46	34	191	----	----	.12	−.5	.08	2	4.9	nw.	19	nw.	8	15	5	11	4.9	.0	.0	0
North Pacific Coast							57.6	+5.0										80	3.26	−0.5											6.5			
North Head	211	5	55	1,009.8	1,016.9	−.7	57.2	+4.3	80	10	63	47	31	52	26	245	53	88	3.89	−1.1	1.73	11	10.8	s.	43	s.	30	6	7	18	7.1	.0	.0	1
Seattle [2]	125	90	321	1,013.2	1,017.6	.0	57.5	+3.8	74	7	64	45	26	50	28	231	50	82	1.84	−1.0	.52	8	7.3	s.	30	sw.	4	6	10	15	6.5	.0	.0	1
Tacoma	194	172	201	1,010.8	1,017.3	.0	55.8	+5.3	75	7	62	41	26	49	30	286	----	----	2.39	−.9	.72	9	6.0	n.	29	n.	10	6	10	15	6.4	.0	.0	0
Tatoosh Island	86	9	61	1,013.5	1,016.3	.0	54.8	+4.9	74	10	59	46	15	50	22	316	51	88	10.26	+2.1	5.33	14	16.6	e.	53	s.	23	5	8	18	7.2	.0	.0	2
Medford [1]	1,329	29	58	969.9	1,016.9	----	58.8	+5.2	83	7	74	38	18	44	45	189	46	68	1.54	+.1	.59	6	----	s.	----	----	----	8	10	13	5.6	.0	.0	2
Portland, Oreg. [2]	154	68	106	1,011.9	1,017.3	−.7	60.2	+6.0	78	10	68	46	26	52	26	155	52	80	1.47	−1.6	1.04	6	5.4	nw.	20	ne.	10	7	18	11	6.1	.0	.0	0
Roseburg	510	45	76	999.0	1,017.3	−1.3	59.2	+5.3	82	18	72	39	6	46	39	185	49	74	1.44	−1.2	.67	7	2.5	nw.	20	sw.	31	6	11	14	6.3	.0	.0	2
Middle Pacific Coast							62.4	+2.0										70	1.97	+0.5											4.2			
Eureka	60	72	88	1,016.3	1,018.0	.0	55.4	+1.8	77	28	62	43	25	49	31	301	51	88	2.79	+.5	2.38	6	4.9	n.	23	s.	29	7	12	12	6.3	.0	.0	2
Red Bluff [1]	----	6	26	1,003.1	1,015.2	−1.7	66.8	+2.5	90	6	81	47	18	52	41	30	42	47	.57	----	.41	4	7.4	nw.	35	se.	30	18	8	5	3.5	.0	.0	0
Sacramento	66	92	115	1,013.5	1,015.6	.0	65.8	+2.9	87	24	78	50	14	53	34	31	48	62	1.39	+.5	1.16	4	5.6	s.	18	s.	31	24	5	2	2.1	.0	.0	1
San Francisco [2]	155	112	132	1,011.2	1,016.3	.0	61.4	+.9	82	24	68	50	3	55	25	127	52	82	1.70	+.6	1.09	4	7.0	w.	24	sw.	31	10	12	9	5.0	.0	.0	1
South Pacific Coast							65.3	+1.4										71	0.32	−0.3											3.7			
Fresno [1]	327	5	34	1,003.7	1,014.9	+.3	66.4	+4.1	89	19	81	47	11	52	40	19	48	58	.89	+.3	.84	4	3.8	nw.	17	nw.	10	24	5	2	2.2	.0	.0	1
Los Angeles	338	223	250	1,004.4	1,015.9	+1.7	64.8	−.5	83	23	74	51	11	55	29	34	54	76	.06	−.6	.05	2	5.3	w.	17	nw.	2	16	13	2	3.8	.0	.0	0
San Diego [1]	87	20	55	1,013.2	1,015.6	+1.4	64.6	+.5	78	3	71	52	12	58	22	25	57	79	T	−.5	T	0	6.2	w.	17	w.	8	11	13	7	5.0	.0	.0	0
West Indies																																		
San Juan, P. R.	82	10	54	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS—Continued

District and station	Elevation of instruments			Pressure			Temperature of the air												Precipitation				Wind											
	Barometer above sea level	Thermometer above ground	Anemometer above ground	Station	Sea level	Departure from normal	Mean	Departure from normal	Maximum	Date	Mean maximum	Minimum	Date	Mean minimum	Greatest daily range	Total degree days	Mean temperature of the dew point	Mean relative humidity	Total	Departure from normal	Greatest in 24 hours	Days with 0.01 inch or more	Average hourly velocity	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, sleet, and ice on ground at end of month	Number of days with thunder storms
Panama Canal	*Ft.*	*Ft.*	*Ft.*	*Mbs.*	*Mbs.*	*Mbs.*	°*F*	°*F*	°*F*		°*F*	°*F*		°*F*	°*F*		°*F*	%	*In.*	*In.*	*In.*		*Mi.*								*0–10*	*In.*	*In.*	
Balboa Heights	118	6	92	------	[2]1,009.8	.0	78.8	−.9	91	2	85	70	14	72	17	0	74	[3]90	11.29	+1.2	3.03	24	5.4	nw.	25	nw.	22	0	12	19	7.8	.0	.0	3
Cristobal	27	47	97	------	[2]1,009.8	−.4	80.4	−.3	90	19	86	73	29	75	15	0	74	[3]84	20.15	+4.3	3.07	24	6.7	s.	27	nw.	22	0	5	26	8.5	.0	.0	6
Alaska																																		
Anchorage [1]	132	6	44	997.6	1,002.7	-----	36.8	+.8	55	10	44	10	26	30	30	873	30	70	1.20	−1.0	.40	12	6.4	n.	34	sw.	18	4	6	21	7.6	T	.0	0
Fairbanks [1]	455	5	63	998.5	1,005.8	-----	29.0	+2.3	55	10	37	−1	26	21	27	114	24	80	.69	−.2	.38	10	6.0	e.	26	w.	23	3	5	23	7.7	6.2	1.4	0
Juneau [1]	80	6	32	1006.4	1,009.5	-----	44.8	-----	61	10	49	27	20	40	19	624	42	88	12.39	-----	2.61	28	9.3	se.	45	se.	9	0	3	28	9.4	.0	.0	0
Nome	22	25	56	1004.4	1,004.7	-----	30.0	+.6	45	1	35	10	26	24	20	038	26	78	1.81	+.2	.83	9	10.7	n.	42	s.	22	4	10	17	6.8	1.5	T	0
Hawaii																																		
Honolulu	38	86	100	1,014.6	1,015.2	-----	76.5	−.3	83	1	81	69	12	72	12	0	----	---	1.17	−.4	.40	13	9.7	ne.	24	ne.	27	8	15	8	5.7	.0	.0	0

[1] Data are airport records.
[2] Barometric data (adjusted to old city elevation) and hygrometric data from airport; otherwise city office records.
[3] Observations taken bihourly.
[4] Pressure (adjusted to old city elevation), temperature, and hygrometric data from airport; otherwise city office records.
[5] Temperature and precipitation from city records, other data from airport.

NOTE.—Except as indicated by notes 1, 2, 4, and 5 data in table are city office records.

SEVERE LOCAL STORMS, OCTOBER 1944

[Compiled by Mary O. Souder]

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
	October						
Williamstown and Lawrence, Kans.	4	3:30 p. m.	[1]4	------	$15,000	Tornadic winds	Property damaged, $10,000; loss in crops, $5,000; path 13 miles long.
Florida, vicinity of Wauchula and Arcadia and in southeastern Polk County.	18	----------	----------	------	----------	Tornadoes	These tornadoes preceded the hurricane on 18–19. No other details.
Florida	18–19	----------	----------	18	60,000,000	Hurricane	This storm had its formation in the western Caribbean. Storm warnings were ordered for the Florida Keys on the morning of the 16th and hurricane warnings from Miami to Tampa on the morning of the 18th and later extended to Cedar Keys and Fernandina and thence up the Atlantic coast. The storm was preceded by several tornadoes on the afternoon of the 18th near Wauchula and Arcadia and in southeastern Polk county. The hurricane was very large with its central core or area of light, shifting winds from 40 to 60 miles in diameter, requiring from 2 to 4 hours to pass over towns directly in its path. Dangerous winds extended fully 200 miles to the right or east of the center, and about 100 miles to the left or west, thus affecting all Peninsular Florida. Winds of hurricane or near hurricane velocity surrounded the central core, with gusts up to 100 miles at Tampa and Orlando. Property damage in the State totaled probably 10 to 13 millions. The greatest loss was to truck and citrus. The Florida State Marketing Bureau estimated total crop losses of nearly $50,000,000. 24 persons injured sufficiently to receive hospitalization. Systematic evacuation of all dangerously exposed beaches doubtless saved many lives.
Cherokee and Crawford Counties, Kans.	20	7:30 p. m.	[1]4–5	------	2,000	Heavy hail	Loss in crops; path 25 miles long.

LATE REPORTS

	August						
Dawson County, Mont.	1	9–10 a. m.	[1]2	------	3,000	Moderate to heavy hail.	Principal loss in wheat and barley; some property damage; path 8 to 1 miles long.
Roosevelt and Richland Counties, Mont.	1	3:30–11:30 p.m.	[1]3	------	300,000	Heavy hail	Loss in wheat, barley, and flax; path 45 miles lon.
Golden Valley County, Mont.	1	6 p. m.	----------	------	8,000	Moderate hail	Loss in wheat and oats.
Richland County, Mont.	1	7–9:15 p. m.	[1]4–6	------	200,000	Heavy hail	Chief loss in crops; some buildings damaged; cattle and chickens killed; path 100 miles long.
Golden Valley and Yellowstone Counties, Mont.	1	9 p. m.	[1]8	------	351,250	do	Loss in cereals and hay, $350,000; property damage, $1,250; path 35 miles long.
Musselshell County, Mont.	1	9–10 p. m.	[1]6	------	410,000	do	Chief loss in wheat, $400,000; property damage, $10,000; path 36 miles long.
Rosebud and Treasure Counties, Mont.	1	11–12 p. m.	[1]2–3	------	500,000	Heavy hail and wind.	Loss in crops and alfalfa, $498,500; property damage, $1,500; path 50 to 60 miles long.
Fallon County Mont.	1	p. m.	----------	------	50,000	Heavy hail	Loss in wheat, barley and oats.
Stillwater County, Mont.	1	do	[1]10	------	125,000	do	Loss in wheat and grass; windows broken; path 30 miles long.
Chouteau County, Mont.	2	7 p. m.	[1]1¾	------	15,000	Moderate hail	Loss chiefly in wheat, barley, and oats; path 5 miles long.
Rosebud County, Mont.	2–3	10 p. m. during night a. m.	[1]5	------	15,000	Moderate to heavy hail.	Loss in grains and gardens; path 15 miles long.
Blaine County, Mont.	3	1:30–2 p. m.	[1]1½–2	------	8,000	Moderate hail	Loss in wheat, oats, barley, and flax; path 4 miles long.
Carbon County, Mont.	3	4 p. m.	880	------	10,000	do	Loss in beans and alfalfa; path 3 miles long.

[1] Miles instead of yards.