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	79.6	−0.2	Scottsboro	101	7	2 stations	58	[1] 27	6.42	+1.67	Robertsdale	15.22	Collinsville	1.38
Arizona	79.0	+.6	Mohawk	118	5	Fort Valley	33	31	1.50	−.84	Ruby	6.99	7 stations	.00
Arkansas	80.0	−.1	England	104	6	5 stations	50	[1] 19	4.90	+1.31	Devils Knob	11.35	Lake City	.67
California	71.7	−.6	Cow Creek	123	13	Portola	26	[1] 23	.02	−.08	Orick (near)	.95	287 stations	.00
Colorado	66.7	+1.0	Las Animas	106	3	2 stations	20	31	.83	−1.09	Colorado Springs	3.73	Holly	T
Florida	81.6	+.1	Fort Lauderdale	100	4	Marianna	61	2	7.72	+.70	De Funiak Springs	18.91	Miami	1.48
Georgia	78.4	−1.1	4 stations	99	[1] 18	2 stations	54	[1] 27	4.95	−.29	Savannah No. 2	13.61	Atlanta Airport	1.46
Idaho	64.4	−1.9	Grand View	106	5	Sun Valley	16	25	.30	−.33	Deception Creek	2.08	33 stations	.00
Illinois	75.5	+.9	3 stations	103	9	Danville	44	25	3.78	+.41	Benton	8.78	Sullivan	1.88
Indiana	75.2	+1.6	2 stations	103	9	Frankfort	39	25	4.00	+.66	Madison	9.77	Columbia City	.96
Iowa	71.8	−.4	do	102	[1] 10	Decorah	41	25	5.88	+2.25	Atlantic Airport	8.83	Davenport	2.23
Kansas	77.9	.0	do	110	[1] 12	2 stations	39	31	5.63	+2.44	Blue Rapids	14.44	Tribune	.04
Kentucky	76.3	+.4	Greensburg	104	12	London	43	[1] 25	5.45	+1.73	Mammoth Cave	9.31	Louisa	1.52
Louisiana	82.7	+.8	2 stations	104	[1] 7	Enon Tower	60	1	7.08	+1.90	Houma	13.36	Natchitoches	.90
Maryland-Delaware	74.2	+.7	3 stations	102	[1] 11	Oakland, Md	34	[1] 25	3.59	−.92	Cheltenham, Md	9.32	Keedysville, Md	1.16
Michigan	69.5	+2.4	4 stations	102	[1] 2	Watersmeet	27	25	2.39	−.38	Ishpeming	4.87	Gaylord	.76
Minnesota	67.6	.0	New Ulm	100	10	Meadowlands	33	18	5.14	+1.83	Big Falls	11.88	Alexandria	1.37
Mississippi	81.2	+.4	3 stations	102	[1] 8	3 stations	60	[1] 20	5.42	+1.21	Magnolia	11.48	Kosciusko	1.48
Missouri	75.9	−.7	Union	107	15	Edgerton	41	26	6.09	+2.24	Amity	14.56	Alton (near)	1.23
Montana	62.7	−2.3	Roundup	101	6	4 stations	25	[1] 5	1.63	+.54	Opheim No. 2	4.40	Rapelje	.05
Nebraska	73.9	+.5	Loup City	107	13	Gordon	33	31	3.26	+.56	Sedan	9.85	Haigler	.00
Nevada	70.0	−.7	Overton	117	12	Mala Vista	26	[1] 3	T	−.48	Owyhee	.05	64 stations	.00
New England	70.5	+3.4	Norwalk, Conn	103	11	Lake Frontiere, Maine	30	27	1.79	−1.96	Burlington, Conn	5.14	New Castle, N. H.	.29
New Jersey	73.9	+1.9	Canoe Brook	104	5	Charlotteburg	35	26	2.79	−1.96	Layton	6.37	Flemington	.72
New Mexico	71.6	+.9	3 stations	110	[1] 2	Selsor Ranch	23	30	2.62	+.18	Thomas (near)	6.86	Aztec Ruins National Mon.	.45
New York	70.8	+3.1	do	102	[1] 11	2 stations	32	[1] 25	2.27	−1.45	Delhi	6.93	Ogdensburg	.31
North Carolina	74.7	−1.2	Weldon	100	5	Mount Mitchell	38	27	3.99	−1.54	Sloan	8.49	Winston Salem	1.61
North Dakota	65.6	−.9	Fort Yates	103	9	Towner	34	23	4.40	+2.31	Grand Forks Airport	12.73	McClusky	.99
Ohio	73.7	+1.9	Napoleon	105	3	Canton	37	25	4.02	+.62	Circleville	8.18	Defiance	.84
Oklahoma	82.6	+1.0	Hollis	116	2	Boise City	45	31	3.46	+.53	Hollow	8.97	Guymon	.80
Oregon	63.5	−.8	Illahe	109	29	Seneca	19	24	.14	−.28	Astoria	1.36	15 stations	.00
Pennsylvania	71.5	+1.2	3 stations	103	[1] 4	Kane	30	27	2.55	−1.62	Braddock	6.33	Montrose	.81
South Carolina	77.4	−1.5	Calhoun Falls	103	24	Caesars Head	46	27	3.32	−2.37	Beaufort	9.30	Little Mountain	.73
South Dakota	70.1	−.9	Moenville	108	8	Custer	34	31	3.71	+1.58	Marion	11.62	Deerfield	.11
Tennessee	77.5	+.7	Clarksville	102	[1] 9	Rugby	47	25	4.66	+.62	Red Boiling Springs	14.88	Greenville	.89
Texas	83.6	+.8	Memphis	117	3	Pecos	45	31	4.16	+1.79	Beaumont	13.35	Tulia	.39
Utah	70.1	+.3	St. George	108	13	4 stations	29	[1] 3	.18	−.84	Soldier Summit	2.16	39 stations	.00
Virginia	73.8	−.3	2 stations	102	[1] 5	Burkes Garden	35	25	3.56	−.89	Dante	9.51	Clifton Forge	.20
Washington	64.9	−.8	Wahluke (near)	109	30	Newport	29	19	.40	−.44	Palmer (near)	2.64	8 stations	.00
West Virginia	72.2	+.4	Great Cacapon	105	13	Cranberry Glades	32	25	2.96	−1.15	New Cumberland	7.41	Hamlin	.80
Wisconsin	70.0	+2.3	Wisconsin Rapids	103	13	Land O'Lakes	30	25	3.44	+.09	Grantsburg	8.91	Ladysmith	1.19
Wyoming	64.2	+.1	2 stations	102	8	Big Piney	18	15	.23	−.84	Pine Bluffs	1.37	14 stations	.00
Alaska (July)	56.0	+.5	Eagle	90	7	2 stations	29	[1] 15	2.54	−.10	Whittier	16.77	Golovin	.57
Hawaii	74.5	−.4	2 stations	94	[1] 7	Haleakala Ranger Station	46	[1] 17	4.10	−2.47	Kukiu	24.00	14 stations	.00
Puerto Rico	78.8	−.1	Ponce	100	14	Guineo Reservoir	58	24	11.52	+3.74	Rio Blanco (1,800 ft)	24.81	Mona Island	2.44

[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 thunderstorms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.		°F	°F.		°F.	°F		°F.	%	In.	In.	In.		Mi.								0-10	In	In.	
New England							71.1	+4.1										75	1.57	-1.9											4.8			
Eastport	75	67	85	1,010.5	1,013.2	-1.4	64.2	+3.5	91	11	74	51	26	55	37	76	54	78	0.66	-2.3	0.49	6	7.4	sw	19	nw	19	13	9	9	4.8	0.0	0.0	2
Greenville, Maine	1,070	6	41	975.6	1,014.6	-----	66.1	+3.8	96	14	80	39	8	52	43	86	58	---	2.83	-.5	1.80	11	----	nw	----	----	----	4	20	7	----	.0	.0	5
Portland, Maine [1]	103	5	43	1,010.2	1,014.6	-.6	70.6	+4.2	99	12	83	46	26	58	34	36	62	80	.59	-2.6	.40	4	7.6	s	21	n	24	19	10	2	3.6	.0	.0	2
Concord [1]	289	5	45	1,004.4	1,015.2	.0	70.2	+4.7	99	12	85	40	20	56	43	51	59	72	.95	-2.6	.70	5	6.4	nw.	23	nw.	18	3	20	8	5.8	.0	.0	5
Burlington [1]	403	5	51	1,000.0	1,014.6	-.3	72.1	+4.2	101	11	85	46	26	60	35	32	60	70	2.76	-.6	1.95	8	8.0	s.	26	s.	16	10	11	10	5.3	.0	.0	4
Boston [1]	124	33	62	1,010.5	1,015.2	-.4	74.7	+4.8	101	12	84	53	27	65	27	10	60	66	1.79	-1.8	1.25	5	10.0	sw.	34	nw.	16	13	10	8	4.9	.0	.0	6
Nantucket	12	11	59	1,014.9	1,015.6	.0	71.0	+3.2	84	23	77	55	25	65	20	3	64	84	.57	-2.8	.27	4	11.6	sw.	29	ne.	8	16	8	7	4.3	.0	.0	3
Block Island	26	11	46	1,014.6	1,015.9	+.3	71.4	+2.9	88	11	78	56	27	65	21	2	64	84	2.06	-1.6	1.63	4	13.9	sw.	28	ne.	8	15	8	8	4.4	.0	.0	2
Providence [5]	159	46	60	1,009.8	1,015.9	+.3	75.6	+4.6	100	12	86	52	26	65	32	5	60	72	1.34	-2.2	.87	4	8.3	sw.	27	sw.	14	11	11	9	4.8	.0	.0	2
Hartford [1]	159	5	44	1,009.8	1,015.9	+.3	73.0	+4.1	98	12	85	44	26	60	36	21	62	76	2.44	-1.8	1.11	9	7.3	s.	27	nw.	5	9	16	6	5.0	.0	.0	5
New Haven [1]	107	5	39	1,011.9	1,015.9	+.3	73.2	+4.6	94	11	84	50	25	63	31	3	62	70	1.30	-2.6	.57	9	6.4	sw.	24	w.	5	13	10	8	4.8	.0	.0	3
Middle Atlantic							75.1	+1.7										74	3.63	-0.6											4.7			
Albany [1]	97	26	40	1,011.5	1,015.6	+.4	72.2	+3.2	99	12	84	44	26	60	35	27	62	75	2.80	-.3	1.08	10	6.4	s.	22	nw.	18	11	11	9	5.3	.0	.0	7
Binghamton [2]	871	60	79	985.4	1,016.9	+1.3	71.8	+3.8	98	13	84	42	20	59	38	36	61	83	4.99	+1.4	2.17	11	4.8	w.	20	nw.	24	7	16	8	5.4	.0	.0	10
New York	314	415	454	1,004.4	1,015.9	.0	75.9	+2.8	96	4	85	55	25	67	28	0	62	68	3.08	-1.2	1.79	8	13.4	sw.	52	nw.	16	14	10	7	4.3	.0	.0	3
Harrisburg [1]	374	30	49	1,003.1	1,016.6	+.3	75.3	+2.7	101	12	88	46	26	63	35	8	62	70	1.51	-2.5	.88	6	6.7	w.	26	s.	21	9	12	10	5.6	.0	.0	3
Philadelphia [1]	114	6	56	1,012.5	1,016.6	+.7	75.4	+2.1	97	5	86	51	27	65	32	2	62	70	2.78	-1.8	2.61	5	8.2	sw.	24	e.	2	13	9	9	4.8	.0	.0	1
Reading	323	47	306	1,003.7	1,016.6	-----	76.0	+3.1	100	13	87	49	26	65	31	3	----	---	2.53	-1.7	1.54	7	9.3	n.	32	e,	2	14	9	8	4.4	.0	.0	3
Scranton	805	72	104	988.2	1,017.3	+1.4	72.8	+3.0	98	13	84	45	26	61	35	28	----	---	3.28	-.4	1.17	9	5.6	n.	28	nw.	16	12	15	4	4.3	.0	.0	8
Atlantic City	52	37	172	1,014.6	1,016.6	+.7	72.9	+.4	94	5	80	55	25	66	25	2	64	80	2.91	-1.6	2.40	5	14.6	s.	36	e.	2	17	6	8	4.3	.0	.0	0
Trenton	190	89	107	1,009.5	1,016.6	-----	75.3	+2.3	97	4	85	53	27	66	31	1	62	68	1.84	-2.9	1.53	8	8.5	sw.	24	n.	24	12	11	8	4.7	.0	.0	3
Baltimore [2]	123	100	215	1,012.2	1,016.9	+.6	77.4	+1.9	99	4	86	56	26	68	24	0	64	68	4.22	-.2	3.01	9	9.4	s.	34	ne.	2	17	6	8	4.2	.0	.0	2
Washington [3]	112	56	100	1,012.9	1,017.3	+1.0	76.2	+1.2	96	5	86	53	26	66	27	0	64	72	6.49	+2.5	6.15	9	6.1	s.	23	ne.	2	15	9	7	4.4	.0	.0	3
Cape Henry	18	8	54	1,016.3	1,017.3	-----	77.1	+.2	95	5	85	58	26	69	26	0	66	76	4.66	-.2	1.89	8	10.3	sw.	42	e.	2	13	10	8	4.5	.0	.0	6
Lynchburg	686	144	184	992.9	1,017.8	+1.0	74.5	-1.0	97	5	86	54	27	64	32	3	62	72	1.89	-1.9	1.16	8	7.4	s.	31	nw.	12	11	12	8	5.2	.0	.0	8
Norfolk [2]	91	80	125	1,014.2	1,018.0	+2.1	77.4	.0	97	5	85	63	28	70	26	0	66	78	6.25	+1.0	2.69	8	9.2	sw.	27	e.	2	12	10	9	5.0	.0	.0	7
Richmond	144	11	52	1,011.9	1,016.9	+.6	75.7	-.8	97	5	86	56	25	66	29	1	65	77	5.16	+.7	2.88	9	7.0	sw.	22	n.	7	14	8	9	4.6	.0	.0	5
South Atlantic							77.8	-0.3										81	5.13	-0.5											6.0			
Asheville	2,253	77	92	940.4	1,018.3	+1.7	72.0	+1.5	91	11	82	51	27	62	29	14	62	81	2.76	-1.4	.98	8	6.5	se.	23	se.	26	3	15	13	6.4	.0	.0	6
Charlotte [3]	779	63	86	990.2	1,017.6	+1.0	76.6	-.5	93	5	86	55	27	67	26	11	66	76	2.27	-2.8	.80	9	6.4	ne.	20	s.	13	8	11	12	5.8	.0	.0	4
Greensboro [1]	886	6	56	986.8	1,018.3	-----	74.8	-----	95	11	85	55	27	64	33	12	66	80	3.10	-----	1.66	12	7.0	sw.	29	n.	2	8	12	11	5.8	.0	.0	5
Hatteras	11	5	50	1,017.3	1,018.0	+2.1	77.4	-.6	88	5	82	62	28	72	18	0	70	80	4.52	-1.2	2.57	8	12.8	sw.	49	nw.	18	9	14	8	5.4	.0	.0	6
Raleigh [1]	376	5	69	1,004.4	1,018.3	+2.0	76.3	-.6	95	5	86	56	10	66	31	0	66	81	5.48	+.1	2.20	8	8.6	sw.	32	n.	2	12	11	8	5.0	.0	.0	6
Wilmington	72	73	107	1,015.2	1,017.6	+1.7	77.9	+.3	92	24	85	61	10	71	25	0	68	80	6.60	+.2	4.18	10	9.2	sw.	46	s.	1	12	9	10	5.4	.0	.0	7
Charleston [2]	48	11	92	1,015.9	1,017.6	+1.3	79.8	-1.2	97	18	86	67	28	74	25	0	70	85	3.24	-3.3	1.32	15	10.3	s.	27	se.	13	4	15	12	6.3	.0	.0	6
Columbia, S. C. [2]	347	70	91	1,005.4	1,018.0	+1.7	78.6	-1.0	96	24	88	58	27	69	30	1	68	78	1.82	-3.6	.88	7	7.3	s.	26	s.	13	7	9	15	6.1	.0	.0	2
Greenville, S. C. [1]	1,040	18	36	981.4	1,018.0	+1.7	76.2	+.4	94	12	85	55	27	67	26	12	66	78	5.68	+.2	2.37	9	7.7	sw.	32	w.	17	8	11	12	6.0	.0	.0	6
Augusta [2]	182	62	77	1,010.8	1,017.3	+1.0	79.4	-1.0	98	12	88	59	27	70	25	3	68	78	2.47	-2.6	1.09	13	5.2	s.	24	nw.	17	5	11	15	6.5	.0	.0	7
Savannah [2]	65	73	152	1,015.2	1,017.6	+1.3	80.8	+.1	96	18	88	68	27	73	21	0	72	87	13.60	+6.3	4.06	17	9.4	s.	27	e.	26	3	16	12	6.4	.0	.0	11
Jacksonville [2]	43	86	110	1,016.3	1,018.0	+1.7	81.2	-.5	93	18	88	71	28	74	21	0	73	86	8.03	+2.2	3.42	16	6.9	s.	26	w.	6	1	19	11	6.4	.0	.0	15
Florida Peninsula							83.3	+0.9										79	3.41	-2.8											6.0			
Key West [2]	21	10	64	1,015.2	1,016.3	+1.1	85.1	+1.6	91	29	90	72	11	80	17	0	74	74	3.25	-1.3	2.01	11	8.8	e.	23	e.	15	6	19	6	5.6	.0	.0	3
Miami [2]	25	242	249	1,015.9	1,016.9	+.3	82.0	-.1	87	30	86	75	1	78	12	0	74	82	1.48	-4.4	.59	14	11.6	se.	39	se.	2	6	20	5	5.1	.0	.0	15
Tampa [1]	35	6	43	1,015.9	1,017.3	+1.4	82.8	+1.3	93	18	90	73	14	75	19	0	74	82	5.49	-2.7	1.39	14	7.9	e.	43	se.	3	0	15	16	7.4	.0	.0	24
East Gulf							79.9	-0.1										84	5.20	-0.2											6.3			
Atlanta [1]	1,173	33	72	976.3	1,016.9	+.6	77.2	-.8	94	23	86	57	28	68	24	6	66	78	1.46	-3.2	.37	13	9.0	e.	31	w.	6	4	12	15	6.8	.0	.0	7
Macon [2]	370	79	87	1,003.7	1,016.9	+.6	79.0	-.9	95	24	88	60	28	70	25	0	70	82	3.24	-1.1	1.15	13	5.8	s.	21	e,	13	6	12	13	6.3	.0	.0	6
Thomasville	278	49	58	1,007.8	1,018.0	+2.1	80.3	-.7	95	18	90	65	28	71	24	0	----	---	8.77	+3.0	1.90	18	----	----	----	----	----	1	14	16	----	.0	.0	12
Apalachicola	35	11	51	1,015.6	1,016.9	-----	81.0	-.2	90	19	87	72	28	75	16	0	74	82	5.58	-2.0	1.69	12	6.8	s.	29	e.	19	6	8	17	6.7	.0	.0	12
Pensacola	56	54	79	1,014.6	1,016.6	+1.4	81.0	+.1	92	18	87	71	13	75	17	0	74	86	12.13	+4.1	3.32	17	6.2	sw.	24	s.	4	4	18	9	5.8	.0	.0	11
Anniston	741	9	----	----	----	-----	77.6	-.6	95	8	87	60	28	68	30	0	----	---	3.95	-.1	1.08	14	----	se.	----	----	----	6	15	10	----	.0	.0	7
Birmingham [1]	700	5	62	991.9	1,016.9	+1.3	78.4	-.1	97	8	87	62	28	69	29	0	69	80	3.48	-----	.85	11	6.9	se.	38	nw.	6	3	16	12	6.7	.0	.0	10
Mobile [2]	57	86	161	1,014.2	1,016.3	+1.1	81.6	+.6	96	18	89	70	1	74	22	0	74	90	6.94	.0	2.84	16	5.4	s.	20	s.	4	4	14	13	6.5	.0	.0	20
Montgomery [2]	218	92	105	1,009.1	1,016.9	+1.3	80.1	-.7	96	8	88	63	28	72	24	0	72	87	4.01	-.2	1.28	13	6.3	e.	24	nw.	18	7	9	15	6.3	.0	.0	10
Meridian [2]	375	67	92	1,002.7	1,015.9	+.7	80.6	+1.1	98	8	90	65	1	71	27	0	72	84	4.72	+.2	1.67	12	4.8	sw.	22	e.	3	6	19	6	5.5	.0	.0	14
Vicksburg [2]	247	82	102	1,006.4	1,014.9	-.3	82.0	+1.2	95	7	91	69	1	73	23	0	72	85	1.24	-2.2	.63	10	7.2	s.	21	nw.	8	5	14	12	6.2	.0	.0	12
New Orleans [4]	53	50	84	----	----	-----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
West Gulf							83.9	+1.5										74	4.59	+1.3											5.2			
Shreveport [1]	249	5	64	1,005.4	1,013.9	-1.0	83.9	+2.2	101	8	94	67	10	74	31	0	72	76	5.05	+2.4	1.83	11	7.9	se.	48	e.	7	7	19	5	5.5	.0	.0	11
Fort Smith	463	57	82	997.3	1,012.9	-2.0	81.6	+1.1	101	13	91	60	28	72	31	0	70	76	7.19	+3.9	2.70	8	7.1	e.	27	nw.	7	10	12	9	5.4	.0	.0	8
Little Rock [1]	357	5	58	1,002.4	1,014.9	-.8	81.0	+1.2	99	23	91	62	28	71	31	0	70	76	2.82	-.9	1.00	8	6.6	sw.	25	nw.	8	6	14	11	5.9	.0	.0	7
Austin [1]	605	10	41	992.2	1,012.9	-----	84.4	+.6	101	3	95	65	31	74	26	0	69	68	4.47	+2.4	1.89	8	9.4	s.	26	se.	20	10	13	8	5.3	.0	.0	6
Brownsville [1]	57	5	54	1,009.8	1,011.9	-----	84.8	+.9	96	1	92	71	31	77	20	0	75	80	7.08	+4.2	3.05	7	12.1	se.	38	ne.	22	1	21	9	5.8	.0	.0	4
Corpus Christi [1]	20	4	33	1,012.5	1,012.9	-.6	84.2	+2.6	97	1	92	70	31	76	21	0	74	80	7.52	-----	3.72	8	13.0	se.	34	s.	30	20	7	4	3.4	.0	.0	4
Dallas [1]	512	5	45	994.9	1,012.9	-----	85.5	+2.0	103	2	96	61	31	75	27	0	68	64	3.10	+.3	1.29	6	10.2	s.	28	w.	26	19	5	7	4.2	.0	.0	4
Fort Worth [1]	679	35	56	989.2	1,012.5	-1.4	85.5	+2.8	104	2	95	63	31	76	25	0	66	58	2.65	.0	1.32	6	10.5	s.	32	s.	26	17	7	7	4.3	.0	.0	3
Galveston [2]	54	106	114	1,012.5	1,014.2	-.4	83.8	+.8	90	1	88	72	31	80	15	0	75	78	4.32	-.0	1.23	10	10.7	s.	27	s.	30	8	15	8	5.4	.0	.0	8
Houston [2]	138	157	190	1,009.5	1,013.9	-----	84.9	+1.7	100	2	94	69	31	76	24	0	73	79	6.95	+2.8	2.76	9	9.1	s.	30	ne.	19	8	15	8	5.7	.0	.0	14
Palestine	510	64	72	996.6	1,013.9	-1.0	83.5	+1.7	99	6	94	65	30	73	25	0	69	70	2.44	+.3	1.53	10	6.8	s.	22	se.	10	10	18	3	4.7	.0	.0	3
Port Arthur	34	59	134	1,013.5	1,014.6	-----	84.2	+1.0	96	18	91	68	2	78	26	0	74	85	4.67	-1.4	1.64	16	11.0	s.	38	se.	19	7	15	9	5.6	.0	.0	18
San Antonio [1]	693	8	51	988.8	1,012.5	-1.0	84.0	+.5	100	2	94	64	31	74	27	0	70	70	4.32	+1.9	1.46	6	9.0	se.	31	se.	21	5	15	11	6.2	.0	.0	5

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	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunderstorms
	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							75.8	+1.4										74	4.17	+0.7											5.4			
Chattanooga [1]	762	6	66	989.8	1,016.9	+1.0	77.9	+2.2	96	7	88	62	28	67	30	1	66	76	2.22	−1.8	.74	11	6.4	s.	23	n.	6	4	13	14	6.9	.0	.0	12
Knoxville [1]	995	27	53	982.1	1,017.3	+.7	77.5	+2.1	95	7	88	58	25	67	27	0	66	75	2.87	−1.0	1.26	8	6.6	ne.	36	sw.	17	4	17	10	6.0	.0	.0	7
Memphis [4]	399	5	86	1,000.7	1,014.6	−.6	80.6	+2.2	97	7	90	61	20	71	32	0	69	75	3.21	−.2	1.42	7	6.6	sw.	18	sw.	16	6	13	12	5.9	.0	.0	7
Nashville [1]	546	5	72	996.6	1,015.9	.0	78.7	+.9	98	8	88	59	25	69	29	0	66	74	6.26	+2.6	2.74	15	7.6	s.	30	sw.	16	5	16	10	6.1	.0	.0	9
Lexington [1]	989	4	28	982.1	1,017.3	+1.0	75.0	−.5	96	12	85	52	25	65	30	11	64	76	6.22	+2.8	2.20	10	----	s.	----	----	----	----	----	----	----	.0	.0	9
Louisville [2]	525	106	120	997.3	1,016.6	+.7	76.8	−.2	96	9	86	56	25	68	27	3	64	73	5.69	+2.3	1.57	9	7.2	s.	41	sw.	17	10	11	10	5.7	.0	.0	7
Evansville [1]	431	11	40	1,000.0	1,015.6	.0	77.0	+2.0	97	9	88	52	25	66	37	3	64	72	2.45	−.9	.93	13	7.4	s.	26	sw.	16	7	14	10	5.7	.0	.0	9
Indianapolis [1]	823	5	54	986.5	1,015.9	.0	74.2	+1.8	95	10	85	51	25	63	32	9	62	74	1.98	----	.52	8	8.8	sw.	42	sw.	12	12	12	7	5.1	.0	.0	5
Terre Haute [2]	575	68	149	995.3	1,015.9	----	76.4	+1.2	98	9	86	54	24	66	30	4	64	74	5.85	+2.6	1.82	9	8.2	s.	38	sw.	12	14	9	8	4.7	.0	.0	5
Cincinnati [2]	627	11	51	993.9	1,016.6	+.3	76.6	+3.0	99	13	88	50	25	65	35	10	64	75	5.79	+2.4	1.88	11	6.3	sw.	32	w.	21	10	12	9	5.1	.0	.0	8
Columbus [3]	822	90	110	987.5	1,017.3	+1.0	76.0	+3.0	98	10	86	51	25	66	30	6	62	74	3.68	+.4	1.17	11	8.6	s.	31	sw.	28	14	9	8	4.9	.0	.0	6
Dayton [1]	1,003	6	55	981.0	1,016.6	----	74.6	+1.7	94	11	85	50	25	64	30	10	60	70	3.85	+.6	1.26	14	9.2	sw.	35	w.	16	12	11	8	4.7	.0	.0	8
Elkins [3]	1,947	6	45	950.2	1,018.6	+2.0	68.4	−.7	91	13	81	44	25	56	39	43	60	84	3.03	−.8	1.68	13	4.4	w.	18	s.	13	7	10	14	6.0	.0	.0	7
Parkersburg	637	77	84	994.2	1,016.9	+.6	75.6	+1.7	99	12	87	49	25	64	37	6	62	71	2.97	−.5	1.32	12	5.4	se.	24	nw.	16	12	14	5	4.4	.0	.0	8
Pittsburgh [1]	842	39	54	987.1	1,017.3	+1.0	72.2	+.9	95	13	83	49	25	62	34	17	60	73	4.32	+1.1	1.62	12	8.3	s.	45	s.	13	12	10	9	5.1	.0	.0	7
Lower Lakes							72.9	+3.8										69	2.99	0.0											4.7			
Buffalo [1]	768	34	96	988.8	1,016.6	+1.0	71.8	+3.4	96	2	82	48	25	62	31	18	60	72	6.17	+3.1	3.65	7	11.8	sw.	38	sw.	12	11	11	9	5.0	.0	.0	5
Canton	448	10	61	999.0	1,014.9	----	71.6	+5.1	99	15	85	42	26	58	41	31	55	60	.68	−3.0	.36	6	7.4	w.	24	se.	2	12	12	7	4.7	.0	.0	3
Oswego	335	71	85	1,003.1	1,015.6	.0	71.8	+3.4	96	11	80	50	26	63	28	19	60	68	2.13	−.5	.78	7	7.6	s.	28	n.	18	18	7	6	3.9	.0	.0	2
Rochester [1]	523	5	69	997.3	1,016.3	+.7	72.5	+4.6	98	4	84	45	27	61	35	25	58	70	2.71	−.2	1.56	11	8.6	sw.	33	w.	11	10	12	9	5.2	.0	.0	5
Syracuse [1]	596	5	57	994.2	1,016.3	+.7	72.2	+4.9	97	11	84	45	27	60	37	24	60	71	2.65	−.2	.85	9	7.8	sw.	36	w.	22	13	9	9	5.0	.0	.0	5
Erie [2]	714	57	81	991.2	1,016.9	+.6	73.2	+3.6	93	3	81	53	26	66	25	9	60	72	3.35	+.1	.97	7	6.6	sw.	20	sw.	4	8	17	6	5.1	.0	.0	5
Cleveland [1]	762	27	54	989.2	1,016.6	+.3	74.1	+3.9	97	10	85	45	25	63	32	13	60	70	3.68	+.9	2.07	7	9.4	s.	28	sw.	28	11	12	8	5.0	.0	.0	6
Sandusky	629	5	67	993.6	1,016.6	+.3	74.6	+2.8	98	10	84	51	26	65	31	6	----	----	2.91	−.2	1.04	14	7.9	sw.	23	sw.	15	13	9	9	5.0	.0	.0	8
Toledo [1]	628	5	47	993.6	1,016.3	+.4	72.6	+2.4	98	3	84	45	26	61	34	20	62	75	3.30	+.4	1.44	10	9.3	sw.	38	nw.	17	19	7	5	3.5	.0	.0	6
Fort Wayne [1]	857	5	33	985.1	1,015.9	----	73.2	+2.3	97	3	85	44	25	62	33	19	60	69	3.01	−.1	1.14	10	6.9	sw.	30	nw.	15	13	9	9	4.8	.0	.0	9
Detroit [1]	730	5	78	990.5	1,016.6	+.3	74.4	+5.2	99	11	85	51	24	64	33	10	60	64	2.33	−.4	.83	9	8.3	sw.	26	nw.	15	13	10	8	4.7	.0	.0	5
Upper Lakes							69.5	+3.4										72	2.79	−0.1											5.0			
Alpena	609	5	89	993.2	1,015.9	.0	68.3	+4.2	95	10	78	46	25	59	31	51	57	72	.99	−1.9	.32	8	9.6	nw.	35	se.	28	12	13	6	4.7	.0	.0	7
Escanaba	612	51	72	992.6	1,014.6	−1.0	67.7	+3.4	96	11	76	45	24	59	28	48	57	72	1.18	−2.0	.48	8	10.4	s.	30	n.	17	9	17	5	5.2	.0	.0	3
Grand Rapids [3]	707	70	244	990.2	1,015.9	.0	74.0	+4.3	97	15	84	49	25	64	31	15	58	66	1.65	−1.0	.58	7	10.2	sw.	33	sw.	31	14	12	5	4.2	.0	.0	4
Lansing [3]	878	5	90	984.8	1,016.3	----	71.0	+2.5	96	14	82	45	25	60	36	34	56	64	2.39	−.4	1.00	7	7.2	sw.	26	n.	4	15	11	5	4.2	.0	.0	5
Marquette	734	44	73	987.1	1,014.6	−.6	67.8	+4.0	95	3	77	48	25	59	34	70	56	72	2.87	+.2	1.22	9	8.2	w.	31	sw.	19	7	15	9	5.5	.0	.0	9
Sault Sainte Marie [1]	614	11	52	992.9	1,015.2	−.4	64.9	+4.1	90	4	76	43	19	54	31	76	57	82	4.72	+2.0	2.20	6	10.7	nw.	50	sw.	11	8	15	8	5.3	.0	.0	7
Chicago [1]	673	5	36	991.2	1,015.2	−.7	74.1	+2.5	99	10	85	53	29	64	37	11	60	69	1.89	−1.1	.89	8	8.0	s.	30	n.	15	10	14	7	5.0	.0	.0	4
Green Bay	617	109	141	992.2	1,015.2	−.4	71.2	+3.5	97	13	81	52	24	61	29	17	58	68	4.80	+1.6	1.55	9	9.8	s.	47	sw.	15	9	12	10	5.6	.0	.0	4
Mallwaukee [1]	681	33	66	990.5	1,014.9	−1.0	71.2	+3.6	97	10	81	50	25	62	32	19	60	72	1.54	−1.1	.42	9	11.5	sw.	38	s.	30	11	12	8	5.1	.0	.0	7
Duluth [3]	1,133	5	47	972.6	1,013.5	−1.4	65.0	+2.4	88	10	74	47	24	56	25	78	56	81	5.90	+2.7	2.18	13	9.9	ne.	31	nw.	3	11	13	7	4.9	.0	.0	10
North Dakota							66.5	+0.6										71	5.62	+3.4											5.4			
Fargo [1]	940	5	43	978.0	1,011.9	−2.7	67.4	+1.3	98	9	78	45	23	57	40	62	58	76	8.52	+5.6	3.67	13	12.0	s.	39	nw.	31	9	13	9	5.3	.0	.0	9
Bismarck [1]	1,677	5	43	952.6	1,011.5	−2.4	67.4	+.7	98	9	80	43	23	55	37	59	55	70	5.05	+3.2	1.19	11	10.1	nw.	60	s.	8	13	11	7	4.8	.0	.0	10
Devils Lake	1,478	11	44	959.7	1,012.2	−1.7	65.5	+.7	89	2	76	42	23	55	32	75	54	72	6.55	+4.1	1.41	12	7.8	se.	26	ne.	3	8	10	13	6.2	.0	.0	8
Grand Forks [1]	832	4	41	981.7	1,011.9	----	66.4	----	93	2	78	39	23	54	38	72	56	----	12.73	----	5.12	15	----	s.	----	----	----	8	10	13	----	.0	.0	10
Lemmon, S. Dak.	2,602	6	30	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Williston	1,878	42	50	945.8	1,011.2	−2.3	65.6	−.5	90	7	77	44	17	54	37	60	52	66	2.35	+.9	1.56	12	6.9	se.	35	w.	9	10	13	8	5.1	.0	.0	9
Upper Mississippi							73.9	+1.3										72	4.02	+0.7											5.2			
Minneapolis-St. Paul [1]	919	43	74	980.0	1,012.9	−2.0	71.6	+1.7	94	9	82	51	28	62	32	24	60	71	3.65	+.5	1.98	10	10.7	se.	40	sw.	3	12	11	8	5.1	.0	.0	7
Springfield, Minn.	1,025	4	42	976.3	1,012.9	----	70.7	----	98	9	81	47	28	60	35	38	60	75	3.89	----	1.14	14	----	se.	----	----	----	12	9	10	----	.0	.0	8
La Crosse [1]	714	5	29	988.2	1,013.9	−1.3	71.0	+1.6	96	10	82	47	25	60	34	17	60	75	3.94	+.2	2.01	8	7.9	s.	56	sw.	15	11	10	10	5.2	.0	.0	6
Madison [3]	974	70	78	980.0	1,015.2	−.4	71.9	+2.1	94	10	81	55	25	63	27	11	58	69	2.49	−.7	1.03	9	7.1	sw.	26	sw.	15	10	12	9	5.0	.0	.0	4
Charles City	1,015	10	51	978.3	1,014.6	−.3	70.5	+1.4	94	10	80	49	24	61	29	26	----	----	5.90	+2.4	2.61	9	5.8	se.	21	nw.	15	18	5	8	4.0	.0	.0	6
Davenport [1]	606	6	50	992.9	1,014.9	−.3	73.4	+1.7	98	10	84	51	24	63	34	8	62	72	2.88	−.6	.92	8	7.8	e.	26	sw.	31	10	14	7	5.6	.0	.0	4
Des Moines [3]	860	5	99	983.1	1,013.5	−1.4	73.3	+.2	98	13	83	53	26	64	30	25	62	76	4.80	+1.3	2.36	11	8.2	se.	32	w.	4	13	8	10	5.0	.0	.0	7
Dubuque	699	81	96	989.5	1,014.6	−.6	72.9	+1.2	94	10	83	53	25	63	27	7	61	70	4.52	+1.3	1.57	9	4.8	s.	17	n.	17	11	10	10	5.1	.0	.0	7
Burlington [1]	702	4	36	989.5	1,014.6	−.6	74.0	.0	100	10	86	54	26	62	34	13	62	72	6.25	+2.7	2.55	10	8.3	se.	34	nw.	15	8	14	9	5.7	.0	.0	7
Cairo	357	5	99	1,002.4	1,015.2	−.4	79.2	+.4	98	9	88	59	28	70	28	0	----	----	4.40	+1.4	2.66	9	6.7	s.	27	se.	16	8	13	10	5.7	.0	.0	8
Peoria [1]	609	6	26	993.6	1,015.2	−.4	73.8	+2.3	97	10	84	54	24	63	34	10	62	72	2.86	−.3	1.15	7	7.5	sw.	30	w.	15	9	10	12	5.6	.0	.0	7
Springfield, Ill. [3]	636	5	191	992.2	1,014.6	−1.0	77.0	+2.5	100	11	87	56	26	67	29	7	62	72	4.11	+.9	1.89	6	9.9	s.	29	se.	26	9	13	9	5.5	.0	.0	3
St. Louis [5]	568	6	303	994.6	1,014.6	−1.0	78.2	+.7	98	11	86	58	26	70	25	6	62	66	2.46	−.5	1.03	9	10.5	s.	27	sw.	30	11	11	9	5.3	.0	.0	5
Missouri Valley							74.3	+0.2										74	6.17	+2.8											5.2			
Columbia, Mo. [3]	784	6	66	986.5	1,014.2	−.7	75.2	−1.1	97	15	84	55	28	66	26	10	64	76	8.39	+4.8	3.10	13	6.6	s.	21	ne.	4	8	15	8	5.2	.0	.0	8
Kansas City [1]	963	38	76	979.0	1,012.5	−2.4	76.5	−.1	101	3	86	54	28	68	35	4	64	71	7.97	+4.4	2.06	12	9.6	se.	37	nw.	16	8	13	10	5.5	.0	.0	12
St. Joseph [2]	967	11	49	979.0	1,012.9	----	74.6	−1.9	98	10	84	50	28	66	28	15	66	77	11.54	+7.7	4.05	15	8.0	se.	33	nw.	15	14	9	8	4.3	.0	.0	9
Springfield, Mo. [1]	1,324	5	60	968.2	1,014.6	−.3	74.2	−.8	93	10	84	52	28	65	29	8	66	81	6.65	+2.6	1.95	15	9.6	se.	41	n.	12	8	11	12	5.8	.0	.0	16
Topeka	987	65	87	978.0	1,012.5	----	77.6	+1.4	104	10	88	56	28	68	31	2	66	72	6.93	+2.8	2.29	12	8.8	se.	34	nw.	16	9	12	10	5.5	.0	.0	12
Lincoln [3]	1,189	11	81	970.5	1,012.2	−2.0	76.0	+1.6	102	10	86	51	28	66	35	15	62	72	5.74	+2.2	2.55	12	9.1	se.	25	n.	11	9	15	7	5.0	.0	.0	12
Omaha [1]	1,105	5	68	973.9	1,012.9	−1.7	74.3	+1.1	100	10	84	48	28	65	32	19	64	75	4.93	+1.9	1.79	10	11.1	se.	57	n.	1	10	12	9	5.0	.0	.0	9
Valentine	2,598	46	54	922.1	1,012.2	−1.7	72.4	+.7	102	8	85	48	31	60	38	15	56	64	1.66	−.5	.74	6	10.0	s.	30	nw.	3	15	8	8	4.6	.0	.0	9
Sioux City [1]	1,138	5	40	972.6	1,012.5	−1.7	71.9	+.8	97	9	82	46	28	61	36	31	63	76	4.17	+1.0	1.47	12	9.9	s.	35	ne.	1	11	10	10	5.3	.0	.0	9
Huron [1]	1,301	5	41	966.1	1,012.2	−2.0	70.2	+.8	100	12	82	43	27	58	41	36	60	76	3.72	+1.3	1.57	12	12.1	se.	42	se.	14	7	17	7	5.4	.0	.0	12

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	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunderstorms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F		°F	°F		°F	°F		°F	%	In.	In.	In.		Mi.								0–10	In.	In.	
Northern Slope							67.0	+0.3										55	0.85	−0.3											4.1			
Billings [1]	3,570	16	40	890.6	1,011.9	----	67.8	−2.8	94	6	81	43	15	54	40	30	44	49	.97	----	.64	7	10.5	sw.	45	n.	22	20	7	4	3.4	.0	.0	5
Havre	2,507	11	67	925.2	1,012.5	−.4	65.6	+.2	94	5	79	42	15	52	39	52	47	58	1.60	+.4	.79	11	7.7	sw.	32	w.	9	13	8	10	5.0	.0	.0	7
Helena [1]	4,124	5	43	873.7	1,013.2	−.7	62.4	−2.2	86	11	76	40	15	48	43	102	46	61	1.62	+.8	.67	13	7.9	w.	32	nw.	28	14	8	9	4.7	.0	.0	10
Missoula [2]	3,205	80	91	901.5	1,013.5	----	65.4	−.2	92	5	80	43	26	50	41	50	44	56	1.43	+.5	1.26	6	6.5	e.	32	n.	28	16	8	7	4.2	.0	.0	9
Kalispell	2,973	48	56	910.6	1,012.2	−1.3	62.2	−.6	86	5	76	42	20	49	37	104	43	56	1.34	+.5	.76	10	6.2	w.	27	sw.	31	14	12	5	4.5	.0	.0	7
Miles City [1]	2,371	5	28	929.2	1,011.9	−1.6	67.8	----	94	6	82	42	31	54	40	38	51	60	2.09	----	.68	11	----	nw.	----	----	----	13	12	6	4.5	.0	.0	12
Rapid City [1]	3,259	5	63	900.4	1,011.9	−1.6	69.8	+.3	103	8	84	44	17	56	40	27	50	56	.45	−1.2	.38	5	14.8	nw.	57	s.	8	12	14	5	4.3	.0	.0	8
Cheyenne [1]	6,094	5	40	814.8	1,011.2	−2.0	68.1	+2.5	94	7	84	37	31	52	43	37	41	46	.03	−1.5	.02	2	9.8	nw.	30	nw.	14	12	15	4	4.2	.0	.0	9
Lander	5,352	60	68	835.4	1,010.8	−2.4	66.6	+1.1	90	7	84	42	30	50	42	32	40	44	T	−.5	T	0	5.7	sw.	27	w.	28	22	8	1	2.2	.0	.0	1
Sheridan [1]	3,790	5	38	883.8	1,012.2	----	67.5	+1.0	97	6	83	42	31	52	46	34	46	53	.42	−.5	.30	3	8.0	nw.	42	nw.	25	18	10	3	3.5	.0	.0	4
North Platte [2]	2,821	11	51	915.0	1,010.8	−3.1	74.6	+3.8	99	13	87	46	31	63	36	1	58	66	.78	−1.6	.36	5	8.0	se.	28	sw.	2	13	14	4	4.4	.0	.0	16
Middle Slope							78.2	+1.7										62	3.84	+1.2											4.6			
Denver [2]	5,292	106	113	838.5	1,010.8	−2.4	73.7	+3.0	96	2	86	47	31	61	34	12	42	44	.96	−.5	.95	2	6.7	s.	25	nw.	26	11	14	6	4.4	.0	.0	5
Pueblo [1]	4,690	5	36	857.1	1,010.8	−2.1	73.4	+.7	100	2	89	43	30	58	42	10	49	54	1.13	−.7	.40	6	7.6	nw.	42	ne.	26	16	9	6	4.2	.0	.0	12
Concordia	1,392	50	58	963.4	1,011.9	−2.3	77.6	+1.1	104	13	88	54	31	67	31	3	63	68	8.00	+5.1	2.80	10	7.8	se.	26	sw.	16	13	10	8	4.8	.0	.0	8
Dodge City [1]	2,509	5	58	925.5	1,010.2	−3.3	77.8	+.1	101	13	91	51	31	64	34	0	62	66	5.11	+2.4	1.49	11	14.2	s.	65	nw.	29	18	6	7	4.1	.0	.0	14
Wichita [1]	1,358	6	64	964.8	1,011.9	−2.3	79.6	+1.3	104	4	90	58	27	69	32	0	64	67	4.77	+1.6	1.90	13	14.0	s.	43	w.	20	11	11	9	5.2	.0	.0	12
Oklahoma City [2]	1,214	10	47	969.9	1,011.5	−2.4	83.6	+3.9	103	11	95	59	27	73	29	0	65	62	1.97	−.9	.72	6	8.8	s.	20	sw.	5	16	5	10	4.4	.0	.0	4
Tulsa [1]	674	10	61	988.8	1,012.5	----	81.8	+1.7	102	13	93	59	28	71	29	0	68	70	4.94	+1.7	2.24	9	10.4	s.	51	nw.	6	13	8	10	4.9	.0	.0	10
Southern Slope							81.6	+2.7										58	2.88	+0.6											4.5			
Abilene [1]	1,738	4	41	952.3	1,011.2	−2.0	83.3	+3.0	105	2	95	57	31	72	28	0	64	60	2.11	−.1	.93	6	11.8	s.	31	ne.	30	14	7	10	4.6	.0	.0	3
Amarillo [1]	3,676	5	42	888.9	1,010.5	−2.7	79.0	+4.4	106	3	92	53	28	66	36	1	57	56	1.40	−1.7	.50	8	14.5	s.	52	s.	14	14	10	7	4.8	.0	.0	11
Del Rio	960	63	71	978.3	1,010.5	−2.0	85.2	+1.0	102	3	95	64	31	76	24	0	66	62	4.19	+2.5	1.49	9	9.9	se.	27	e.	5	17	6	8	4.6	.0	.0	5
Roswell	3,566	75	85	892.3	1,010.8	−1.1	79.0	+2.4	105	3	92	54	31	66	35	0	57	54	3.83	+1.7	3.38	7	7.9	s.	37	ne.	11	14	14	3	4.1	.0	.0	9
Southern Plateau							82.2	+2.4										45	0.84	−0.8											3.4			
El Paso [1]	3,778	5	85	885.5	1,008.8	−1.7	80.0	+2.0	103	1	92	60	24	68	33	0	57	52	1.04	−.7	.55	6	9.0	se.	40	s.	14	14	11	6	4.2	.0	.0	8
Albuquerque [1]	5,314	5	48	839.1	1,009.5	----	76.3	+2.4	100	4	89	53	26	63	37	0	52	50	1.44	+.2	.66	7	9.3	se.	49	s.	3	14	13	4	4.1	.0	.0	11
Flagstaff	6,907	36	51	794.1	1,014.6	----	67.5	+3.5	92	12	84	42	29	50	46	6	40	46	.67	−2.1	.42	5	----	nw.	----	----	----	17	12	2	----	.0	.0	6
Phoenix [2]	1,107	39	87	969.2	1,005.8	−3.0	91.0	+2.5	113	4	105	71	30	77	41	0	56	38	.09	−.9	.09	2	6.7	e.	29	e.	23	22	5	4	3.0	.0	.0	3
Tucson [1]	2,555	6	30	923.1	1,007.5	----	86.4	+2.2	109	4	99	66	16	74	33	0	58	46	1.78	−.6	.91	7	----	se.	----	----	----	14	10	7	4.3	.0	.0	11
Yuma	142	9	54	1,001.4	1,005.4	−2.4	92.0	+1.6	115	4	108	68	27	76	47	0	56	40	.00	−.5	.00	0	5.8	s.	20	se.	8	28	3	0	1.4	.0	.0	0
Middle Plateau							71.2	+0.4										31	0.01	−0.7											1.6			
Reno [1]	4,527	20	52	862.5	1,012.9	+2.4	66.0	+.3	102	12	90	33	24	42	56	39	35	44	.00	−.2	.00	0	6.8	w.	34	w.	31	30	1	0	0.8	.0	.0	0
Tonopah	6,090	9	20	815.1	1,010.5	----	72.8	+.8	94	13	86	52	2	60	32	0	24	17	T	−.6	T	0	----	nw.	----	----	----	30	1	0	----	.0	.0	0
Winnemucca	4,339	5	56	866.9	1,011.2	−.7	68.5	−.8	97	5	90	39	25	47	51	7	30	29	T	−.2	T	0	7.0	sw.	30	sw.	31	29	2	0	.8	.0	.0	0
Modena	5,473	10	46	834.1	1,009.8	−1.4	69.2	.0	95	13	88	40	28	50	52	5	----	----	T	−1.3	T	0	11.4	sw.	34	sw.	1	29	2	0	1.3	.0	.0	0
Salt Lake City [1]	4,227	32	46	866.2	1,009.8	−3.1	73.8	+1.0	98	6	90	47	26	58	43	2	37	30	T	−.9	T	0	10.8	se.	33	s.	1	26	5	0	1.9	.0	.0	1
Grand Junction	4,602	60	68	859.1	1,011.2	−1.3	76.6	+1.2	98	14	91	52	26	62	36	0	40	34	.10	−1.1	.06	4	6.7	se.	26	sw.	15	20	9	2	3.2	.0	.0	8
Northern Plateau							69.0	−0.1										42	0.20	−0.2											2.5			
Baker [2]	3,471	36	54	895.4	1,013.9	−.3	64.0	−.6	93	5	82	39	19	46	48	73	38	53	T	−.5	T	0	5.8	n.	17	n.	28	21	10	0	2.6	.0	.0	4
Boise [1]	2,739	5	49	917.7	1,011.5	−2.0	70.7	−.3	99	5	87	47	25	54	39	1	39	36	T	−.2	T	0	9.1	nw.	26	nw.	28	28	3	0	1.5	.0	.0	0
Pocatello [1]	4,478	5	31	861.8	1,011.2	−2.0	68.1	−.8	95	5	87	42	4	49	51	12	33	32	.00	−.5	.00	0	9.8	sw.	35	w.	28	28	3	0	1.1	.0	.0	1
Spokane [1]	1,929	27	42	945.1	1,012.9	−1.3	66.8	−1.3	93	5	81	43	20	52	39	29	44	49	1.02	+.4	.56	3	7.0	sw.	26	sw.	12	16	12	3	3.8	.0	.0	4
Walla Walla	991	57	65	978.0	1,012.9	−1.7	72.8	+.1	96	30	85	52	19	60	37	0	----	----	.16	−.3	.15	3	6.7	sw.	21	sw.	12	23	6	2	2.7	.0	.0	1
Yakima	1,076	58	67	974.9	1,013.2	----	71.6	+2.1	95	11	85	49	19	58	37	1	----	----	.01	−.2	.01	1	7.0	nw.	22	nw.	5	20	6	5	3.5	.0	.0	0
North Pacific Coast							63.8	+0.1										73	0.58	−0.2											5.6			
North Head	211	5	56	1,010.8	1,017.6	+.7	59.0	+1.4	93	29	64	52	20	54	40	193	56	90	1.13	+.1	.42	14	11.6	n.	30	n.	19	5	5	21	7.6	.0	.0	1
Seattle [2]	125	90	321	1,012.5	1,016.6	+.7	64.5	−.6	95	30	73	52	22	56	33	56	54	72	.48	−.2	.18	9	7.7	s.	22	sw.	25	9	8	14	6.2	.0	.0	0
Tacoma	194	172	201	1,010.2	1,016.3	+.4	63.3	+.7	89	30	71	48	19	55	29	75	----	----	.92	+.2	.44	8	7.8	n.	25	w.	30	10	9	12	5.4	.0	.0	0
Tatoosh Island	86	9	61	1,014.9	1,017.6	+1.7	55.2	−.1	78	30	59	48	20	52	25	300	53	94	1.17	−.8	.24	15	10.9	s.	41	e.	30	1	8	22	8.3	.0	.0	0
Medford [1]	1,329	29	58	967.8	1,013.9	----	69.8	−1.3	102	29	87	45	25	52	50	10	46	51	.31	+.1	.20	2	----	nw.	----	----	----	21	8	2	2.5	.0	.0	1
Portland, Oreg. [2]	154	68	106	1,011.2	1,016.6	+.3	67.6	+.9	94	29	77	51	19	58	32	20	54	69	.07	−.6	.05	3	6.3	nw.	18	ne.	29	15	7	9	5.1	.0	.0	0
Roseburg	510	45	76	998.0	1,015.9	.0	67.5	−.5	101	29	82	47	19	53	49	19	50	61	T	−.3	T	0	4.3	n.	15	n.	28	18	7	6	3.8	.0	.0	1
Middle Pacific Coast							63.5	+0.8										62	0.07	0.0											3.2			
Eureka	60	72	88	1,015.2	1,017.3	+1.4	56.8	+.8	68	30	61	49	10	52	16	253	52	86	.19	.0	.17	3	6.2	n.	18	nw.	5	4	14	13	6.7	.0	.0	0
Red Bluff [1]	----	----	----	----	----	----	80.7	----	110	12	98	57	24	64	46	0	41	29	T	----	T	0	7.2	s.	----	----	----	29	2	0	1.2	.0	.0	0
Sacramento	66	92	115	1,008.8	1,010.5	−.3	74.7	+1.8	105	27	92	53	21	58	44	0	49	51	.00	.0	.00	0	7.4	s.	20	s.	1	30	1	0	.5	.0	.0	0
San Francisco [2]	155	112	132	1,008.1	1,013.2	.0	58.9	−.2	83	26	65	50	28	53	30	191	52	82	.02	.0	.02	1	10.5	w.	28	w.	7	10	16	5	4.6	.0	.0	0
South Pacific Coast							73.2	−0.3										60	T	0.0											1.9			
Fresno [1]	327	5	35	998.6	1,009.5	−.3	78.8	−.7	106	27	97	55	3	61	42	0	44	38	.00	.0	.00	0	6.8	nw	20	nw.	31	31	0	0	.6	.0	.0	0
Los Angeles	338	223	250	999.7	1,011.2	−.7	71.3	+.2	93	29	82	56	3	60	31	0	57	67	T	.0	T	0	5.3	w.	18	w.	29	27	4	0	1.5	.0	.0	0
San Diego [1]	87	20	55	1,008.5	1,011.2	−1.0	69.4	−.4	85	29	77	57	7	62	22	2	60	76	T	.0	T	0	6.6	w.	17	w.	28	22	8	1	3.5	.0	.0	0
West Indies																																		
San Juan, P. R.	82	10	54	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Panama Canal																																		
Balboa Heights	118	6	92	----	1,010.5 [3]	+.3	80.1	−0.3	91	26	87	71	23	73	19	----	75	88	14.47	+6.6	----	23	4.8	nw.	28	s.	22	0	13	18	7.5	.0	.0	9
Cristobal	27	47	97	----	1,010.5 [3]	.0	80.7	----	91	23	86	74	23	76	17	----	75	85	18.40	+3.0	----	27	6.1	s.	22	ne.	5	0	6	25	8.6	.0	.0	.16

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	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunderstorms
Alaska	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F	°F		°F	°F		°F	°F		°F	%	In.	In.	In.		Mi.								0-10	In.	In.	
Anchorage [1]	132	6	44	1,006.8	1,011.5	-----	55.4	−0.2	73	2	64	40	30	47	31	---	48	78	4.01	+1.4	----	19	6.6	s.	28	s.	7	4	6	21	7.5	.0	.0	0
Fairbanks [1]	455	4	63	992.9	1,009.8	-----	52.6	−2.5	73	3	63	32	11	42	41	---	46	79	2.81	+.7	----	15	7.5	sw.	29	w.	5	4	4	23	7.8	.0	.0	0
Juneau [1]	80	6	21	1,012.2	1,015.2	-----	53.8	-----	72	16	61	40	13	46	27	---	48	83	4.70	-----	----	21	7.1	n.	27	e.	26	0	7	24	8.6	.0	.0	0D
Nome	22	25	56	1,009.1	1,009.8	-----	48.8	−.7	61	20	55	34	10	43	25	---	45	85	2.70	−.5	----	12	9.6	sw.	32	sw.	30	5	6	20	7.3	T	.0	0
Hawaii																																		
Honolulu	38	86	100	1,015.9	1,016.9	-----	77.8	−.6	84	17	82	71	31	73	12	0	----	---	.92	−.4	.33	12	10.7	e.	28	ne.	10	16	10	5	3.9	.0	.0	0
Alaska																																		
Bethel	28	7	31	1,009.8	1,011.2	-----	52.0	−.4	63	20	57	36	31	47	17	---	50	91	8.34	+4.2	----	28	10.4	s.	40	------	30	0	2	29	9.4	.0	.0	0
Gambell	32	5	32	1,009.8	1,010.8	-----	44.1	−.5	55	10	48	33	8	40	17	---	40	88	1.61	−.4	----	14	14.0	ne.	36	n.	30	4	5	22	8.0	.0	.0	0
Ketchikan	75	69	90	1,015.2	1,015.9	-----	57.6	−.8	71	23	63	48	20	53	21	---	52	84	9.20	−2.1	----	22	6.4	se.	21	s.	24	2	6	23	8.4	.0	.0	0
Kotzebue	20	5	31	1,008.8	1,009.5	-----	48.4	−2.2	64	20	53	35	31	44	19	---	44	82	1.76	+.5	----	13	----	w.	----	------	---	2	7	22	8.0	.0	.0	0
McGrath	331	5	31	998.3	1,011.2	-----	53.5	-----	74	3	62	32	31	45	32	---	47	80	5.32	+2.0	----	23	----	s.	33	s.	30	3	4	24	7.9	.0	.0	0
Northway	1,718	5	32	949.2	1,011.9	-----	52.3	-----	71	22	62	36	10	43	30	---	44	73	6.42	-----	----	13	6.4	nnw.	28	------	1	4	5	22	7.5	.0	.0	1
Summit	2,405	5	30	926.5	1,013.5	-----	47.6	-----	69	3	55	29	31	40	32	---	44	84	6.74	-----	----	21	----	sw.	----	------	---	3	4	24	8.3	3.0	3.0	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, AUGUST 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
	August						
Rockville, Ind	1	p. m			$500	Wind	Trees and wires down; 6 persons injured by a falling tree.
Ainsworth, Nebr	2	3:30 p. m., C. W. T	[1] 5			Heavy hail	Tops, fenders and windshields of cars damaged; path 15 miles long. Estimate in many thousands of dollars.
Dalton, Nebr	2	5:30-6:30 p. m., M. W. T.	[1] 2			Hail	Loss in small grains; corn stripped; gardens destroyed; windows broken; some loss in poultry; much property destroyed; path 25 miles long.
Hay Springs, Nebr	2	7 p. m., C. W. T				do	Value of property destroyed considerable. Principal loss in corn and small grain; windows broken; roofs damaged.
Davis, S. Dak., west of	2	10:10 p. m	880		14,000	Wind	West-southeast winds for a distance of 5 miles wrecked buildings valued at $10,000; crop loss, $4,000.
Montana, 8 counties	2	p. m			1,000,000	Heavy hail and wind	Until this storm Montana farmers had anticipated a record crop year.
Malone, N. Y., vicinity of.	2				1.500	Electrical	2 barns burned; loss over $1,500.
Potsdam, N. Y	2				4,000	do	Electric power service disrupted; 2 barns burned; damage over $4,000.
Becker, Hubbard, Otter Tail, Wadena, and Cass Counties, Minn.	3	7 p. m., C. W. T	[1] 5		150,000	Thunderstorm and hail.	Crop loss, $125,000; property damage, $25,000.
Minnesota, central counties.	3	do		1	362,000	Thundersqualls and hail.	Several large commercial ice houses wrecked; plate glass windows blown in; rowboat on lake capsized; automobile blown off the road; radio towers, chimneys toppled; many barns, outbuildings and silos, and windmills demolished; poles and wires down; trees uprooted; thousands of turkeys and chickens killed; a number of persons injured, 1 fatally; growing crops lodged or otherwise damaged; shocks of grain shelled out, and haystacks scattered. General direction of the storm from northwest to southeast. There were several reports of rotary winds, but most observers reported straight winds. Uprooted trees lying on the ground were mostly in the same direction.
South Dakota, southeastern portion.	3	7-10 p. m			200,000	Wind, rain and hail	Several hundred buildings and windmills wrecked; power and telephone lines down; trees uprooted, some stock killed, and crops flattened.
Fairmont, Minn	3	10 p. m., C. W. T			2,500	Electrical	Large barn struck by lightning and burned.
Harrisburg, Nebr	5	4 p. m., M. W. T	[1] 1		10,000	Hail and wind	Principal crop loss in oats and barley. Gardens and corn stripped, and a granary lifted over the fence by the wind and destroyed; path 6 miles long.
Del Norte, Colo	5				16,500	Hail	132 acres of various produce crops damaged or destroyed.
Broken Arrow, Okla	7	7 a. m			60,000	Electrical	A stable, 15 show horses, and equipment burned.
Electra, Tex	7	5 p. m	[1] 1			Wind	About 20 farm residences damaged and utility lines blown down.
Carthage, Tex	7	5:30 p. m	[1] 1		80,000	do	Rain damage to unroofed buildings; at least 45 farm homes blown from their foundations.
Elizabeth, Pa	7				18,000	Electrical	Barn burned.
Sebeka, Minn., and vicinity.	7	P. m				Rain and flood	Heavy to excessive rains in connection with a severe thunderstorm resulted in a flash flood in the Red Eye River. Some farm lands flooded; several houses in Sebeka isolated and highway was under water in several places.
Polk, Norman, Red Lake, and Marshall counties, Minn.	8	7:30 p. m., C. W. T	[1] 15		47,000	Hail	Loss in crops, $47,000; some property damage not estimated; path 60 miles long.
Cottonwood, Idaho, vicinity of.	8	7:30-7:45 p. m., M. W. T.	[1] 5-6		60,000	Moderate hail	Small loss in wheat; considerable loss in peas, barley, and oats.

[1] Miles instead of yards.