CLIMATOLOGICAL DATA FOR AUGUST 1949

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	−0.1	3 stations	99	[1] 7	Valley Head	57	25	4.61	−0.11	Brundidge	9.8	Sylvania	0.12
Arizona	77.5	−.6	do	116	[1] 2	2 stations	27	[1] 15	1.25	−1.00	Silver Creek Ranch	4.34	6 stations	T
Arkansas	77.7	−2.4	Camp Chaffee	104	13	Siloam Springs	42	22	3.11	−.42	Eagle Gap	8.99	Wedington Lake	.33
California	72.3	−2.5	Cow Creek	122	4	Boca	25	19	.10	−.07	Blacks Mtn. Branch	1.17	241 stations	.00
Colorado	66.0	+.3	Florence	104	21	Pearl	21	21	1.29	−.65	Bonny Dam	6.96	3 stations	.05
Florida	81.2	−.2	Fernandina	99	19	Milton Exp. Sta	62	24	11.05	+3.93	Brooksville Chinsegut Hill.	23.95	Pensacola, WB City	2.95
Georgia	79.1	−.7	2 stations	99	1	Cornelia	51	21	6.81	+1.48	Camp Stewart	13.89	Adairsville	1.53
Idaho	68.1	+1.5	do	109	[1] 2	2 stations	27	[1] 8	.35	−.23	Clark Fork, 1 ENE	1.71	Ola	.00
Illinois	74.6	.0	Pana	99	11	5 stations	45	[1] 21	2.90	−.46	Rock Island Dam 15	9.52	Des Plaines, 1 NW	.50
Indiana	73.8	+.1	Seymour, 1 N	100	[1] 10	2 stations	40	21	3.66	+.34	Elliston	11.51	W. Lafayette Purdue U.	.64
Iowa	73.0	+.4	4 stations	100	[1] 7	New Hampton	36	31	2.34	−1.42	Davenport	8.93	Toledo	.07
Kansas	75.9	−2.1	Bison	105	[1] 11	Alton, 6 E	38	31	2.72	−.39	Topeka	10.27	Toronto	.27
Kentucky	75.3	−.5	Owensboro	97	[1] 9	Princeton	48	30	4.54	+.84	Benton	10.11	Constantine	1.44
Louisiana	80.8	−1.1	Bogalusa	101	21	Logansport	50	23	4.04	−1.05	Grand Isle	13.92	Evans	.55
Maryland-Delaware	74.8	+1.3	Salisbury Police Brk's, Md.	102	11	Oakland, Md	40	21	4.32	−.19	Crisfield, Md	9.55	Bently Springs, Md	1.69
Michigan	68.8	+1.9	Bergland Hydro. Plant.	99	7	Watersmeet U. S. Forest	28	20	2.45	−.44	Yale	6.99	Cheboygan	.73
Minnesota	70.8	+3.0	2 stations	102	[1] 9	2 stations	36	[1] 20	2.01	−1.26	Hill City R. S.	5.54	Lake City	.10
Mississippi	79.9	−.9	Clarksdale	101	[1] 11	Holly Springs	55	1	3.89	−.25	Laurel	9.01	Russum	.92
Missouri	75.1	−1.5	6 stations	99	[1] 11	Vandalia	42	31	3.08	−.69	Seymour	7.47	St. Charles	.52
Montana	68.6	+3.0	2 stations	112	7	Summit	23	14	.57	−.56	Scobey	1.88	2 stations	.00
Nebraska	73.6	.0	Chadron	104	22	2 stations	40	[1] 30	2.74	+.05	Geneva	8.64	Merriman	T
Nevada	70.5	−.3	Overton	114	3	Fish Creek Ranch	26	12	.28	−.22	Schurz	1.15	11 stations	.00
New England	69.7	+2.5	Billerica, Mass	105	10	Somerset, Vt	32	21	2.86	−.85	Wolcott Reservoir, Conn.	7.21	South West Harbor, Maine.	.26
New Jersey	74.7	+2.7	Plainfield	106	11	Sussex	36	20	3.62	−1.09	Toms River	11.26	Moorestown	1.42
New Mexico	71.0	+.2	2 stations	104	[1] 15	2 stations	25	20	1.62	−.82	Bonita Dam	6.65	San Jon	.09
New York	70.5	+2.7	West Point	103	10	do	32	21	4.28	+.60	Watertown	8.55	Kendall	1.28
North Carolina	76.6	+.7	Weldon	100	12	Mt. Mitchell	42	21	9.31	+3.88	Davidson River Fish Sta.	17.36	Yanceyville	3.80
North Dakota	71.2	+4.5	2 stations	111	[1] 7	Parshall	30	30	.99	−1.07	Grand Forks University.	3.54	Elbowoods	T
Ohio	73.2	+1.5	Vickery, 2 NW	105	10	Millport, 2 NW	38	.20	3.31	−.06	Plymouth	7.63	Lowell Lock 3	.60
Oklahoma	78.6	−3.0	Altus Dam	106	20	Pawhuska	45	22	2.00	−.89	Bengal	6.01	Lyons	T
Oregon	65.1	−.5	Owyhee Dam	109	3	Chemult	22	25	.14	−.30	Otis	1.25	32 stations	.00
Pennsylvania	71.5	+1.2	Lock Haven 1	102	[1] 10	Philipsburg Ap., 7 E	31	[1] 20	3.67	−.46	Donegal	8.71	Schenley 15	.82
South Carolina	78.6	−.3	Cheraw	98	12	Paris Mtn	53	21	9.94	+4.17	Columbia WB Ap	16.72	Myrtle Beach	4.01
South Dakota	74.0	+2.9	2 stations	108	[1] 7	Deerfield Dam	24	31	1.93	−.18	Fairfax	6.75	Gelhaus Farm	.06
Tennessee	76.0	−.8	3 stations	98	[1] 11	Crossville Exp. Sta	51	30	4.28	+.31	Mount Le Conte	11.98	Dyersburg	.52
Texas	80.2	−2.6	Mirando City	110	[1] 19	2 stations	50	[1] 5	2.32	−.05	Camp Wood	8.12	4 stations	.00
Utah	70.3	+.1	Zion Nat'l. Park	109	5	Woodruff	27	19	.54	−.57	Park City	2.14	New Harmony	.00
Virginia	74.3	+.2	Danville	101	11	Monterey	42	21	7.01	+2.53	Holland, 1 E	15.57	Fredericksburg Embry Plant.	3.32
Washington	65.0	−.5	Richland, 2 NW	108	1	3 stations	29	[1] 14	.61	−.15	Clearwater	4.32	6 stations	.00
West Virginia	72.6	+.8	3 stations	98	[1] 11	Pickens No. 1	36	21	4.33	+.24	Crawford	9.51	New Cumberland Dam.	1.13
Wisconsin	70.2	+2.3	2 stations	99	[1] 7	Land O'Lakes	30	20	2.20	−1.12	Berlin Power Plant	5.42	Genoa Dam 8	.67
Wyoming	66.7	+2.4	Arvada, 3 N	109	7	Bondurant	19	21	.58	−.56	Pine Bluffs	2.39	Quaking Aspen Creek	.00
Alaska	59.9	−1.5	Eagle	91	16	Puntilla	25	[1] 16	2.55	−.10	Point Retreat	11.36	Fort Yukon	.12
Hawaii	73.5	−1.2	Kaanapali	90	[1] 2	Haleakala R. S	43	[1] 22	4.37	−2.90	Kukui	42.00	25 stations	.00
Puerto Rico	79.1	0	Guayama (3)	96	[1] 15	Guineo Reservoir (2)	56	[1] 20	7.06	−.17	Guineo Reservoir	14.00	Mona Island	1.56

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR AUGUST 1949

District and station	Elevation of instruments: Barometer above sea level [1]	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, Averages: Mean maximum	Averages: Mean minimum	Averages: Mean	Averages: Departure from normal	Extremes: Highest	Extremes: Date	Extremes: Lowest	Extremes: Date	Total heating degree days	Mean temperature of the dew-point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset), number of days: Clear	Character of day: Partly cloudy	Character of day: Cloudy	Sky cover, [7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F	F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p. h.					0-3	4-7	8-10	0-10	%
NEW ENGLAND									68.5	+3.2							73	2.93	−.8														5.8	
Caribou [2]	628	5	33	990.9	1,013.9	------	75	52	63.4	+1.9	88	27	38	25	101	54	75	2.49	−.8	1.09	12	6	.0	0	11.3	------	45	wsw.	30	2	15	14	7.0	--
Eastport	75	67	82	1,015.5	1,014.2	−1.0	72	56	64.3	+3.6	93	27	49	20	78	----	--	1.85	−1.2	.80	8	2	.0	0	7.9	------	30	s.	29	9	13	9	5.5	58
Portland, Me. [2]	103	6	43	1,010.8	1,014.9	−1.0	81	57	69.0	+4.4	97	27	46	20	27	59	73	1.22	−1.9	.39	6	3	.0	0	5.4	------	40	s.	29	11	10	10	5.4	70
Concord [2]	289	5	45	1,005.1	1,015.5	−.4	83	56	69.5	+4.0	97	26	39	21	26	58	71	2.04	−1.5	.78	7	5	.0	0	4.9	------	25	nw.	19	9	10	12	5.8	59
Mt. Washington	6,274	5	37	811.4	1,022.4	------	55	44	49.2	+1.2	63	8	28	20	485	----	--	6.27	+.1	2.75	12	3	.0	0	25.2	------	---	------	---	4	15	12	6.4	48
Burlington [2]	403	6	51	1,000.3	1,015.1	−.1	83	58	70.8	+2.9	97	8	44	25	20	59	69	4.42	+1.0	2.75	10	7	.0	0	7.4	------	36	nw.	10	12	11	8	5.2	60
Boston [2]	124	33	62	1,011.2	1,015.9	.0	83	66	74.4	+4.5	101	10	54	20	1	60	66	2.12	−1.5	.59	9	3	.0	0	10.6	------	50	sw.	29	12	8	11	5.2	71
Nantucket [2]	12	4	34	1,015.6	1,016.1	−.2	77	63	70.0	+2.2	92	10	51	17	6	65	84	1.95	−1.4	.66	9	6	.0	0	10.1	------	43	sw.	28	8	11	12	6.0	58
Block Island	26	11	46	1,015.2	1,016.3	.0	77	66	71.4	+2.9	89	11	58	20	1	----	--	3.71	.0	1.63	9	5	.0	0	11.6	------	37	s.	29	9	10	12	5.6	66
Providence [2]	159	65	60	1,010.2	1,016.0	−.3	85	64	74.4	+3.4	100	10	51	20	3	62	75	3.23	−.3	1.36	7	5	.0	0	7.0	------	36	se.	29	8	11	12	5.4	67
Hartford [2]	159	5	44	1,010.2	1,016.0	−.3	85	61	73.4	+4.5	100	10	45	21	5	62	73	3.02	−1.3	1.26	7	4	.0	0	6.4	------	36	se.	29	7	7	17	6.6	64
New Haven [2]	107	5	39	1,011.9	1,016.1	−.2	81	63	72.1	+3.5	93	11	48	21	2	64	74	2.88	−1.1	1.50	10	6	.0	0	6.2	------	34	se.	29	9	9	13	6.1	65
MIDDLE ATLANTIC									75.7	2.4							74	4.89	+.6														6.1	
Albany [2]	97	6	40	1,011.5	1,015.3	−1.0	84	59	71.6	+2.6	96	10	44	25	15	60	71	2.92	−.2	1.79	7	8	.0	0	6.3	------	29	w.	29	10	10	11	5.6	70
Binghamton [4]	871	57	79	986.1	1,016.6	.0	84	59	71.6	+3.6	97	9	44	21	14	60	77	5.47	+1.9	2.86	7	4	.0	0	4.5	------	17	sw.	11	8	12	11	5.7	62
New York [4]	314	415	454	1,005.1	1,016.3	.0	84	69	76.6	+3.5	99	10	56	20	0	63	68	3.87	−.5	1.20	11	8	.0	0	8.8	------	70	se.	29	6	13	12	6.2	61
Allentown [2]	385	4	58	1,002.7	1,016.7	------	86	63	74.4	+2.3	99	10	48	21	5	63	74	5.28	+.9	2.07	10	8	.0	0	5.0	------	---	------	---	7	11	13	6.1	--
Harrisburg [2]	374	30	49	1,002.7	1,016.4	−.2	85	64	74.6	+2.0	98	10	50	20	3	63	72	2.49	−1.6	1.52	8	4	.0	0	4.4	------	34	w.	11	7	11	13	6.0	66
Philadelphia [4]	114	174	150	1,012.9	1,016.1	−.5	85	70	77.4	+2.6	97	11	57	20	0	65	73	4.29	−.4	1.45	10	6	.0	0	7.0	------	29	se.	29	8	10	13	6.2	63
Reading	323	47	306	1,004.7	1,016.3	.0	85	67	76.0	+3.1	98	10	51	21	1	----	--	1.06	−3.2	.58	7	2	.0	0	7.4	------	35	se.	29	7	10	14	5.9	68
Scranton	805	72	104	987.8	1,016.6	−.3	84	62	72.8	+3.0	97	10	46	21	14	----	--	4.98	+1.3	1.68	12	7	.0	0	4.7	------	24	n.	15	12	12	7	5.1	51
Atlantic City	52	37	172	1,013.9	1,015.6	−.7	81	71	76.1	+3.6	96	11	58	20	0	----	--	3.37	−1.1	1.74	8	4	.0	0	12.3	------	56	se.	29	9	9	13	5.6	70
Newark [2]	30	5	46	1,014.6	1,016.0	------	86	66	76.2	+3.2	102	10	52	20	1	63	68	2.66	−2.5	1.06	10	4	.0	0	8.5	------	40	nw.	12	5	13	13	6.3	--
Trenton	190	89	107	1,009.1	1,015.9	−.4	84	66	75.4	+2.4	96	11	53	20	2	----	--	1.79	−3.0	.88	9	6	.0	0	6.3	------	32	se.	29	8	11	12	5.9	66
Baltimore [4]	123	100	215	1,011.9	1,016.4	+.1	86	71	78.1	+2.6	98	10	58	20	0	66	71	2.82	−1.6	.93	10	5	.0	0	7.7	------	49	se.	29	7	13	11	5.8	61
Washington [4]	112	56	100	1,012.2	1,016.5	+.2	87	70	78.2	+3.2	96	11	57	21	0	65	70	4.57	+.6	1.32	10	2	.0	0	8.3	------	43	e.	28	7	11	13	6.2	60
Cape Henry	18	8	54	1,014.9	1,015.6	−.7	83	72	77.8	+.9	95	10	67	26	0	----	--	10.49	+5.6	5.17	17	10	.0	0	10.4	------	40	nw.	5	9	4	18	6.[illegible]	62
Lynchburg [2]	686	5	58	983.4	1,016.5	−.4	83	65	74.2	−.1	95	12	56	22	6	65	79	4.03	+.2	1.64	11	2	.0	0	6.1	------	34	e.	28	8	9	14	6.5	56
Norfolk [4]	91	80	125	1,012.9	1,016.4	−.5	86	72	78.8	+1.4	97	11	67	20	0	70	81	14.51	+9.3	4.59	17	9	.0	0	9.3	------	31	sw.	28	5	8	18	7.2	62
Richmond [4]	144	11	52	1,009.8	1,015.8	−.8	85	69	77.0	+.5	95	11	60	21	0	69	83	8.56	+4.1	2.18	18	10	.0	0	5.3	------	36	sw.	11	4	9	18	7.3	52
SOUTH ATLANTIC									78.6	+.7							82	9.60	+4.0														7.0	
Asheville [4]	2,253	77	92	1,012.2	1,016.4	−.9	82	63	72.4	+1.9	91	9	55	21	12	65	89	5.78	+1.6	1.85	15	9	.0	0	5.7	nnw.	25	se.	28	2	12	17	7.5	61
Charlotte [4]	779	63	86	988.8	1,016.1	−.8	86	69	77.5	+.4	95	12	60	20	3	68	79	6.53	+1.5	3.09	16	7	.0	0	5.8	nne.	24	ne.	28	3	9	19	7.3	50
Greensboro [2]	886	6	56	985.4	1,016.7	−.6	84	67	75.5	−.1	94	11	59	20	2	67	80	11.71	+6.5	4.47	13	4	.0	0	7.5	ne.	38	se.	28	5	13	13	6.5	55
Hatteras	11	5	47	1,015.6	1,016.0	−.6	84	74	79.0	+1.0	86	14	70	15	0	74	87	9.02	+3.3	3.79	14	10	.0	0	10.7	sw.	73	nw.	24	3	10	18	7.2	55
Raleigh [4]	376	5	71	1,000.4	1,016.4	−.2	86	70	78.2	+1.2	95	11	63	21	0	70	82	8.70	+3.3	2.35	15	8	.0	0	6.2	sw.	32	se.	28	3	16	12	6.5	42
Wilmington	72	73	107	1,014.9	1,016.4	−.5	87	73	80.1	+2.5	93	11	67	21	0	73	--	8.51	+2.2	2.61	20	12	.0	0	8.5	sw.	47	s.	28	5	13	13	6.4	60
Charleston [4]	48	11	92	1,013.9	1,015.6	−1.3	88	75	81.3	+.3	92	5	71	20	0	73	85	11.45	+4.9	3.29	17	16	.0	0	9.4	ssw.	56	se.	28	3	15	13	6.9	66
Columbia, S. C. [4]	347	70	91	1,007.8	1,015.6	−1.3	88	70	79.0	−.6	94	25	64	22	0	71	80	15.40	+9.9	7.40	17	13	.0	0	7.0	s.	32	s.	28	5	6	20	7.3	58
Greenville, S. C. [2]	1,040	18	36	979.3	1,015.8	−.8	84	67	75.8	.0	92	12	56	21	10	68	81	8.62	+3.1	3.46	14	9	.0	0	6.8	ne.	52	ne.	28	4	9	18	7.1	59
Augusta [4]	182	62	77	1,000.4	1,015.5	−.8	89	72	80.4	.0	95	6	65	21	0	70	76	6.74	+1.7	3.40	15	14	.0	0	5.4	sw.	27	e.	28	3	13	15	6.9	66
Savannah [2]	65	19	51	1,013.5	1,015.7	−.9	90	73	81.3	+1.4	98	19	69	23	0	72	80	11.20	+3.9	4.01	16	16	.0	0	10.9	sw.	52	se.	28	1	17	13	7.0	48
Jacksonville [4]	43	86	110	1,014.6	1,015.9	−1.0	90	74	82.2	+.5	95	19	71	23	0	74	80	11.51	+5.7	3.48	18	19	.0	0	8.2	s.	48	se.	27	2	12	17	7.3	51
FLORIDA PENINSULA									82.2	−2							78	9.60	+3.4														6.2	
Key West [4]	21	10	64	1,015.2	1,016.0	+.4	89	78	83.7	+.2	92	23	72	4	0	74	75	4.85	+.3	1.35	17	18	.0	0	8.4	e.	36	sw.	27	7	16	8	5.5	65
Miami [4]	25	242	249	1,014.9	1,015.9	−.7	86	77	81.4	−.7	90	21	71	7	0	73	77	5.36	−.5	1.95	16	16	.0	0	12.3	se.	60	sw.	27	6	14	11	6.0	76
Tampa [2]	35	5	36	1,014.2	1,015.7	−.9	89	74	81.4	−.1	94	17	71	6	0	73	81	18.59	+10.4	5.37	17	19	.0	0	8.4	ssw.	54	sw.	27	3	11	17	7.2	56
EAST GULF									80.6	+.3							78	4.79	−.4														6.2	
Atlanta [2]	1,173	33	72	974.9	1,015.3	−1.6	86	70	77.9	−.1	93	9	60	22	0	68	77	6.47	+1.8	2.23	13	5	.0	0	7.0	ene.	35	nw.	28	8	8	15	6.7	44
Macon [4]	370	79	87	1,002.4	1,015.2	−1.4	88	70	78.8	−1.1	93	7	64	21	0	70	77	7.34	+3.0	3.01	13	10	.0	0	5.7	sse.	30	n.	9	5	8	18	7.1	59
Apalachicola	35	11	51	1,013.5	1,014.9	−1.4	87	76	81.4	+.2	91	26	72	13	0	----	--	6.37	−1.2	2.31	17	17	.0	0	7.9	sw.	34	n.	27	7	11	13	6.2	66
Pensacola [4]	56	54	79	1,013.2	1,015.0	−1.3	90	74	82.3	+1.4	95	11	68	20	0	73	--	2.95	−5.1	1.14	14	16	.0	0	6.4	nnw.	26	n.	20	6	16	9	6.0	76
Anniston	618	6	32	993.6	1,015.5	−1.1	89	68	78.4	-----	95	11	62	21	0	70	81	6.06	+2.0	2.20	13	14	.0	0	4.5	ene.	---	------	---	2	15	14	7.6	--
Birmingham [2]	700	5	63	993.2	1,015.5	−1.4	88	69	78.6	+.1	95	12	62	22	0	69	78	5.22	+1.0	1.06	17	14	.0	0	5.6	ne.	49	nw.	28	2	15	14	7.1	44
Mobile [4]	57	86	161	1,007.5	1,015.2	−1.1	91	73	82.2	+1.2	95	14	69	25	0	71	79	4.45	−2.5	1.44	12	16	.0	0	8.1	n.	54	ne.	9	4	22	5	5.4	62
Montgomery [4]	218	92	105	1,007.8	1,015.0	−1.6	90	72	80.6	−.2	95	9	65	22	0	71	78	4.95	+.7	1.75	10	9	.0	0	5.4	sw.	26	w.	20	7	12	12	6.2	57
Meridian [4]	375	67	92	1,002.0	1,015.3	−.6	92	69	80.5	+1.0	97	15	64	23	0	71	79	2.50	−2.0	1.31	12	12	.0	0	4.4	sw.	---	------	---	3	19	9	6.3	--
Vicksburg [4]	247	82	102	1,006.4	1,015.1	−1.2	90	72	80.6	−.2	95	13	62	22	0	71	--	1.98	−1.5	1.01	7	8	.0	0	6.0	nw.	31	sw.	5	11	14	6	5.2	79
New Orleans C. O.	53	76	84	1,013.2	------	------	91	76	83.1	+.9	96	20	69	26	0	----	--	5.51	−.3	2.14	10	16	.0	0	5.3	------	22	sw.	20	7	20	4	5.2	56
New Orleans A.P. [2]	30	6	52	1,013.2	1,015.1	−.8	91	74	82.2	-----	95	20	68	24	0	72	77	3.63	------	1.19	9	16	.0	0	7.0	sw.	32	nnw.	14	9	16	6	5.2	--
WEST GULF									82.4	−.5							70	2.44	−.6														4.6	
Shreveport [2]	181	5	64	1,006.1	1,015.1	−.1	92	70	81.1	−1.7	98	12	57	22	0	71	76	1.06	−1.6	.52	8	7	.0	0	7.1	se.	30	se.	3	15	10	6	4.3	73
Fort Smith [2]	463	6	30	998.6	1,014.5	−.1	92	68	79.6	−.9	101	12	55	22	0	65	67	1.42	−1.9	.36	7	9	.0	0	6.3	ne.	25	s.	4	10	10	11	5.3	78
Little Rock [2]	265	26	58	1,003.1	1,014.3	−1.3	88	70	79.0	−.8	97	12	62	22	0	69	76	6.01	+2.3	2.96	13	10	.0	0	4.9	sw.	29	se.	8	8	11	12	5.8	65
Austin [2]	621	5	41	993.2	1,014.6	+.4	94	70	82.5	−1.3	101	16	64	23	0	69	69	2.37	+.3	1.40	7	4	.0	0	6.8	s.	37	n.	31	18	6	7	3.7	80
Brownsville [2]	20	5	54	1,012.2	1,013.3	+.1	92	75	83.6	−.3	96	15	70	24	0	73	76	4.14	+1.3	1.85	8	5	.0	0	9.6	se.	30	se.	5	11	15	5	4.7	71
Corpus Christi [2]	44	6	33	1,013.5	1,014.6	.0	93	73	83.0	+1.4	99	21	66	23	0	73	75	1.40	−.9	.67	5	7	.0	0	8.1	sse.	39	se.	5	11	13	7	4.6	87
Dallas [2]	488	34	45	997.0	1,014.6	.0	94	72	82.6	−.9	105	19	63	23	0	66	61	.79	−2.0	.27	7	7	.0	0	7.3	se.	38	sw.	15	16	7	8	3.8	86
Fort Worth [2]	706	40	56	990.9	1,014.6	+.7	94	72	83.0	+.3	104	15	64	23	0	65	58	2.27	−.4	2.11	4	5	T	0	12.0	se.	44	nnw.	31	17	8	6	3.8	--
Galveston [4]	54	122	129	1,014.6	1,015.2	.0	87	78	82.4	−.6	92	20	69	3	0	73	75	3.32	−1.0	1.37	9	9	.0	0	12.0	se.	47	ne.	3	12	12	7	4.6	80
Houston [4]	138	157	190	1,012.2	1,014.8	−.4	92	74	82.6	−.6	98	20	66	3	0	73	78	3.83	−.3	1.05	9	11	.0	0	8.8	se.	33	ne.	31	11	11	9	5.3	61
Laredo [2]	418	10	38	997.6	1,012.6	------	100	76	88.0	+1.1	106	15	71	3	0	68	56	.24	−1.4	.15	6	2	.0	0	12.8	se.	---	------	---	12	13	6	4.7	--
Palestine	510	64	72	997.0	------	------	90	71	80.2	−1.6	98	19	62	24	0	----	--	3.02	+.8	2.09	7	6	.0	0	5.6	e.	20	nw.	16	16	8	7	4.3	83
Port Arthur [4]	34	59	134	1,013.9	1,014.8	−.4	90	75	82.8	−.4	96	20	67	26	0	72	80	3.33	−2.7	1.13	9	13	.0	0	5.0	w.	30	s.	4	11	13	7	5.1	70
San Antonio [2]	794	6	51	990.2	1,014.4	+.5	94	71	82.5	−1.0	101	2	65	24	0	67	65	1.03	−1.4	.68	6	3	.0	0	7.1	se.	35	se.	20	17	8	6	4.2	78

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR AUGUST 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	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: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal [1]	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Total heating degree days	Mean temperature of the dew point	Mean relative humidity [8]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Character of day (sunrise to sunset), number of days: Clear	Character of day: Partly cloudy	Character of day: Cloudy	Sky cover [7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p. h.					0-3	4-7	8-10	0-10	%
OHIO VALLEY AND TENNESSEE																																		
									75.3	+1.0							76	3.43	-.1														5.8	
Chattanooga [2]	762	6	66	990.9	1,015.5	-1.1	87	68	77.7	+2.0	94	10	62	30	0	69	79	3.46	-.6	.91	13	7	.0	0	2.7	ne.	36	sw.	2	4	14	13	6.6	49
Knoxville [2]	995	27	71	981.7	1,016.0	-.9	86	68	77.0	+1.6	96	14	60	30	0	68	78	5.07	+1.2	1.00	13	7	.0	0	4.6	ne.	27	ne.	20	6	13	12	6.4	65
Memphis [3]	399	5	49	1,005.1	1,015.0	-.9	90	68	79.5	+1.1	98	12	60	21	0	69	75	2.36	-1.0	1.29	9	17	.0	0	5.4	n.	24	nw.	28	9	10	12	5.4	78
Nashville [2]	546	5	72	995.9	1,015.5	-1.1	87	67	77.2	-.6	95	27	60	21	0	68	80	2.87	-.8	1.02	11	10	.0	0	4.2	n.	21	w.	9	6	10	15	6.5	45
Lexington [2]	989	4	58	981.4	1,016.6	+.3	85	65	74.9	+.4	92	11	55	21	0	65	77	4.37	+.9	.72	15	12	T	0	5.5	ne.				6	18	7	5.4	
Louisville [2]	525	5	54	998.0	1,015.7	-.9	87	66	76.4	+.3	94	11	55	21	0	66	75	3.47	+.1	.76	14	12	.0	0	4.5	ne.	35	w.	31	6	14	11	5.6	67
Evansville [2]	431	6	40	1,000.7	1,016.1	-.2	86	66	76.0	+1.0	94	9	54	21	0	67	78	3.80	+.4	1.75	8	10	T	0	5.1	nnw.	30	se.	9	9	12	10	5.5	67
Indianapolis [2]	823	5	54	987.5	1,016.3	-.3	84	64	73.8	+1.4	93	9	52	21	1	63	73	6.64	+3.3	2.72	9	7	.0	0	7.0	ne.	34	s.	11	12	9	10	5.1	63
Terre Haute [2]	575	4	36	995.6	1,016.3	+.4	85	63	74.2	-.6	92	9	51	21	0	65	76	2.96	-.3	1.17	11	10	.0	0	6.3	nne.	30	nw.	11	12	9	10	5.1	68
Cincinnati [4]	627	135	148	993.9	1,016.6	.0	87	68	77.2	+1.7	96	11	57	21	0	64	75	2.76	-.6	.98	13	7	.0	0	6.0	ssw.	22	nw.	31	13	9	9	5.0	66
Columbus [4]	822	90	110	987.1	1,016.6	.0	85	66	75.4	+2.4	94	11	52	21	1	64	74	2.37	-.9	1.26	9	8	.0	0	5.0	n.	31	sw.	27	8	14	9	5.5	68
Dayton [2]	1,003	6	55	981.0	1,016.6	+.3	84	63	73.5	+.6	92	10	52	20	2	62	72	2.61	-.7	1.13	8	8	.0	0	7.2	nne.	32	nw.	31	9	15	7	5.3	72
Elkins [2]	1,947	5	45	947.5	1,017.4	-.2	80	58	68.8	+.5	88	11	48	21	18	62	84	3.16	-.7	.89	14	8	.0	0	4.2		22	se.	16	1	14	16	7.5	54
Parkersburg	637	77	84				84	64	74.5	+.6	94	11	53	21	1			3.36	-.2	1.34	13	10	.0	0	4.9		32	nw.	4	10	8	13	5.9	58
Pittsburgh [2]	842	39	54	972.2	1,016.8	+.2	83	63	73.4	+2.1	94	9	50	21	5	61	71	2.22	-1.0	.71	7	5	.0	0	7.4		24	w.	11	6	15	10	5.7	63
LOWER LAKES																																		
									72.4	+3.2							69	4.21	+1.2														4.4	
Buffalo [2]	768	34	96	988.8	1,016.6	+.7	82	61	71.6	+3.2	90	9	49	21	8	59	67	5.27	+2.2	2.63	8	5	.0	0	10.5		52	nw.	3	15	9	7	4.4	79
Canton	448	10	61	999.0	1,014.9	.0	82	58	70.2	+3.7	95	9	43	25	31	56	63	3.95	+.3	1.21	11	4	.0	0	6.7		29	w.	3	13	10	8	4.8	68
Oswego	335	71	85	1,003.4	1,015.6	-.3	80	64	71.8	+4.0	89	10	51	25	10			2.85	+.2	1.60	10	3	.0	0	7.4		26	n.	13	19	6	6	3.6	78
Rochester [2]	523	4	69	997.3	1,016.4	+.1	84	60	72.0	+2.8	98	9	47	20	11	58	67	2.93	+.1	1.45	8	5	.0	0	7.6		34	w.	31	13	13	5	4.5	79
Syracuse [2]	596	5	57	994.6	1,016.1	-.5	85	60	72.8	+5.5	97	10	43	25	14	58	67	3.92	+1.1	2.48	6	3	T	0	6.4		36	sw.	28	13	12	6	4.8	79
Erie [4]	714	57	81				80	65	72.6	+3.0	89	9	54	21	5			7.54	+4.3	4.25	9	8	.0	0	5.7		26	sw.	11	16	12	3	3.5	65
Cleveland [2]	762	27	54	989.2	1,016.7	+.1	85	62	73.4	+3.2	96	9	47	21	4	61	71	3.59	+.8	2.54	8	5	.0	0	8.9	s.	38	w.	30	16	10	5	4.0	74
Sandusky	629	5	67	994.2			84	66	74.8	+3.0	96	10	53	21	0			2.92	-.2	1.05	9	4	.0	0	6.3		24	n.	27	12	11	8	4.5	83
Toledo [2]	628	5	47	993.6	1,016.5	-.1	84	63	73.1	+2.9	96	9	50	20	9	61	71	6.13	+3.3	2.63	10	7	T	0	6.9	sw.	43	nw.	31	13	11	7	4.9	80
Fort Wayne [2]	857	5	34	986.8	1,016.7	+.1	83	62	72.5	+1.6	92	10	48	20	11	62	73	2.83	-.3	1.78	8	7	0	0	5.0	ne.	28	nw.	31	10	12	9	5.2	69
Detroit [2]	730	5	77	990.9	1,016.9	+.3	82	62	71.9	+2.7	94	10	48	20	13	61	71	4.40	+1.6	1.41	10	3	.0	0	7.2	n.	34	nw.	31	13	13	5	4.4	72
UPPER LAKES																																		
									69.6	+3.5							72	1.86	-1.0														4.6	
Alpena	609	5	89	994.6			77	60	68.5	+4.4	95	8	48	21	32			2.07	-.8	.85	9	7	T	0	7.9		30	n.	27	10	12	9	5.1	72
Escanaba	612	51	72	994.2			76	60	67.6	+3.3	93	8	42	31	40			2.62	-.6	1.04	11	4	.0	0	9.0		30	n.	18	14	11	6	4.3	69
Grand Rapids [4]	707	70	244	991.5	1,016.5	+.2	84	62	73.0	+3.3	93	8	49	20	6	60	70	.76	-1.8	.45	7	2	.0	0	7.4	wsw.	26	sw.	6	16	9	6	4.2	76
Lansing [4]	878	5	90	985.4	1,016.9	+.6	82	59	70.2	+.9	93	9	45	20	23	60	73	1.61	-1.2	.58	10	8	.0	0	10.0	sw.	33	nw.	6	14	12	5	4.1	74
Marquette	734	44	73	989.2			76	59	67.7	+3.9	97	8	43	31	58			2.07	-.6	.95	10	5	T	0	6.7		33	w.	27	8	11	12	5.8	59
Sault Sainte Marie [2]	614	10	52	990.2	1,016.7	+.8	76	55	65.2	+4.4	90	8	42	20	71	57	77	2.47	-.2	1.58	9	4	T	0	6.2	sw.	26	w.	27	10	12	9	5.6	67
Chicago [2]	673	5	38	993.9	1,016.4	+.1	85	64	74.7	+3.1	95	8	50	31	2	62	67	1.31	-1.7	.58	8	5	T	0	7.0	ssw.	54	nw.	31	14	7	10	4.8	69
Green Bay	617	5	32	993.9			82	59	70.2	+2.5	94	8	42	31	15			2.45	-.7	1.48	10	6	.0	0	7.4		33	sw.	26	13	14	4	4.3	80
Milwaukee [2]	681	33	66	991.5	1,016.5	+.2	81	63	72.0	+4.4	94	8	49	31	5	61	72	1.08	-1.6	.55	6	3	.0	0	10.1	nne.	50	w.	31	15	11	5	4.2	73
Duluth [4]	1,133	5	47	965.5	1,016.2	+1.0	77	58	67.2	+4.6	94	7	43	31	44			2.13	-1.0	1.78	6	9	.0	0	13.0	ese.	26	e.	23	13	15	3	3.9	71
NORTH DAKOTA																																		
									72.2	+6.3							62	1.25	-.9														4.5	
Fargo [2]	940	5	47	980.0	1,013.9	-.3	86	60	72.6	+6.5	101	7	44	30	30			1.19	-1.7	.61	4	5	.0	0	12.3	s.	34	nw.	24	12	15	4	4.4	78
Bismarck [2]	1,677	5	41	954.6	1,013.9	-.3	88	57	72.4	+5.7	105	7	40	31	20	56	62	3.25	+1.4	1.95	8	10	T	0	9.5	ese.	57	nw.	12	16	8	7	4.5	81
Devils Lake	1,478	11	44	961.7			86	57	71.6	+6.8	103	7	40	30	39			.37	-2.1	.16	5	7	.0	0	7.5		28	ne.	18	17	8	6	3.8	83
Williston	1,878	42	50	947.2			87	58	72.4	+6.3	108	7	41	30	22			.20	-1.3	.17	3	7	.0	0	6.5		30	nw.	8	8	15	8	5.4	94
UPPER MISSISSIPPI																																		
									74.5	+2.0							74	3.05	-.3														4.4	
Minneapolis-St. Paul [2]	919	43	74	982.4	1,015.3	+.7	85	63	74.2	+4.3	97	7	47	31	14	60	65	2.64	-.5	1.37	7	6	T	0	8.5	s.	26	nw.	31	14	13	4	3.9	79
La Crosse [2]	672	5	29	991.5	1,016.0	+.8	85	60	72.6	+3.2	97	7	43	31	21	60	69	2.01	-1.7	.76	6	6	.0	0	6.7	s.	26	nw.	31	16	10	5	4.1	84
Madison [2]	974	27	39	985.8	1,016.8	+1.2	85	59	72.0	+2.5	96	7	45	29	13	60	69	2.20	-1.0	1.57	5	5	T	0	8.9	ne.	35	nw.	31	17	7	7	4.2	80
Charles City	1,015	10	51	981.4	1,017.6	+1.7	85	61	73.0	+3.9	95	7	47	31	8			.88	-2.6	.79	3	4	.0	0	5.3		15	sw.	5	16	10	5	3.7	74
Moline [2]	606	6	50	994.6	1,016.9	+1.0	84	63	73.5	+1.8	93	8	50	21	3	63	72	7.12	+3.6	4.44	9	8	.0	0	6.0	sw.	49	sw.	27	17	6	8	4.3	77
Des Moines [4]	860	5	99	985.8	1,016.4	+1.5	85	64	74.5	+1.4	95	11	51	31	3	63	82	6.52	+3.0	3.53	7	7	.0	0	7.4		42	s.	11	14	8	9	4.7	76
Dubuque	699	60	79	991.2	1,016.3	+.4	84	64	74.2	+2.5	95	7	51	31	1	62	72	3.09	-.2	1.58	7	7	.0	0	4.6		17	se.	10	14	8	9	4.2	82
Burlington [2]	702	4	36	991.5	1,016.5	+1.3	86	63	74.5	+.5	96	7	50	31	2	63	86	1.58	-2.0	.64	6	5	.0	0	8.8		47	sw.	10	17	6	8	4.4	81
Cairo	357	5	99	1,002.7			88	70	79.1	+.3	95	12	60	21	0			3.21	+.2	1.00	9	13	.0	0	5.4		29	sw.	11	5	13	13	6.2	83
Peoria [2]	609	7	26	994.6	1,016.5	-.1	86	64	74.5	+1.4	93	8	50	31	0	63	70	1.28	-1.8	.58	9	7	.0	0	7.9	ssw.	40	w.	31	15	6	10	4.5	78
Springfield, Ill. [4]	636	5	49	994.2	1,016.3	+.4	85	63	74.0	+1.8	92	9	50	31	2	65	75	4.21	+1.0	2.03	9	9	.0	0	6.6	ne.	42	w.	31	14	10	7	4.4	83
St. Louis [4]	568	33	59	995.6	1,015.6	.0	87	70	78.1	+.6	93	14	57	21	0	65	80	1.86	-1.1	1.59	4	7	.0	0			29	n.	31	11	15	5	4.5	65
MISSOURI VALLEY																																		
									75.2	+1.2							79	3.28	.0														4.5	
Columbia, Mo. [4]	784	6	66	987.8	1,015.7	+1.8	87	65	76.0	-.3	94	11	54	22	0	65	89	2.39	-1.2	1.03	8	8	.0	0	4.7		20	w.	10	14	12	5	4.4	74
Kansas City [2]	963	38	76	988.8	1,015.5	+.9	88	67	77.2	+.6	96	11	54	21	0	64	75	3.15	-.4	.99	7	8	.0	0	6.5		34	ne.	12	13	11	7	4.7	87
St. Joseph [2]	967	5	51	981.4	1,015.5	+1.3	88	64	75.8	-.7	97	11	52	31	0	64	83	1.58	-2.3	.95	5	6	.0	0	7.4		27	nw.	31	14	9	8	4.5	76
Springfield, Mo. [2]	1,324	5	50	971.2	1,016.0	+.4	85	63	74.2	-.8	92	1	50	21	2	64	89	2.48	-1.6	.82	10	14	.0	0	6.5		43	sw.	13	8	14	9	5.5	76
Topeka [4]	987	65	87	984.4	1,015.8	+2.6	89	65	77.1	+.9	99	12	56	21	0	64	85	10.27	+6.2	4.85	8	6	T	0	6.9		40	n.	13	13	12	6	4.8	78
Lincoln [4]	1,189	6	81	973.2	1,015.4	+1.5	86	65	75.2	+.8	96	12	53	31	1	63	83	2.16	-1.4	.80	9	5	.0	0	7.2		39	nw.	16	10	11	10	5.2	78
Norfolk, Nebr. [2]	1,551	5	38	960.7	1,015.6		86	62	73.8	+.7	100	12	48	31	8	60	77	3.08	.0	1.34	8	10	T	0							17	7	7	3.9	
Omaha [2]	1,105	5	68	980.7	1,015.6	+1.0	85	64	75.0	+1.8	94	11	52	31	3	64	81	3.43	+.4	2.84	8	8	.0	0	7.9		34	e.	11	15	5	11	4.5	74
Valentine	2,598	46	54	924.8	1,014.9	+.3	87	61	74.0	+2.3	102	11	43	31	12	55	53	1.30	-.9	1.07	7	9	.0	0	8.9		29	s.	23	17	8	6	4.0	84
Sioux City [2]	1,138	5	40	974.9	1,015.3	+1.1	86	62	73.6	+2.4	95	7	47	31	6	62	83	3.62	+.5	1.77	6	6	.0	0	7.1		36	n.	11	14	9	8	4.5	74
Huron [2]	1,301	5	41	968.2	1,014.1	-.1	88	61	74.8	+5.4	99	6	44	31	13	59	72	2.59	+.1	.95	8	9	.0	0	11.2		70	s.	12	16	11	4	4.0	27

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR AUGUST 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	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, Averages: Mean maximum	Averages: Mean minimum	Averages: Mean	Averages: Departure from normal	Extremes: Highest	Extremes: Date	Extremes: Lowest	Extremes: Date	Total heating degree days	Mean temperature of the dew-point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset), number of days: Clear	Partly cloudy	Cloudy	Sky cover, [7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p. h.					0-3	4-7	8-10	0-10	%
NORTHERN SLOPE									70.4	+3.7							50	.57	−.5														4.1	
Billings [2]	3,570	16	39	892.0	1,012.9	−1.3	88	59	73.4	+2.8	103	6	50	31	2	43	37	.22	------	.16	2	6	.0	0	8.5	sw.	50	nw.	23	16	9	6	4.1	71
Butte	5,533	44	58	832.4	1,016.7	------	81	43	62.0	+1.3	94	6	35	14	130	38	45	.71	−.2	.41	10	16	T	0	8.3	s.	---	------	---	8	17	6	4.9	--
Glasgow	2,086	34	53	940.1	1,013.2	------	91	57	73.8	+5.2	108	7	36	31	18	46	41	.69	−.5	.42	6	8	T	0	---	------	---	------	---	15	10	6	4.2	--
Great Falls [2]	3,657	16	75	889.3	1,013.7	------	85	57	71.0	+3.9	101	6	45	26	12	41	36	.27	−.9	.13	3	4	T	0	10.2	sw.	52	w.	23	15	12	4	3.6	89
Havre	2,507	11	67	926.2	1,013.5	−.4	89	56	72.5	+7.1	106	6	43	30	17	---	--	.23	−1.0	.09	5	8	.0	0	7.1	w.	50	sw.	23	16	10	5	4.2	82
Helena [2]	4,124	5	43	874.7	1,014.1	−.1	86	51	68.3	+3.7	102	6	41	14	27	42	43	.66	−.1	.33	8	13	T	0	7.4	w.	59	s.	11	15	10	6	4.2	76
Missoula [2]	3,263	4	32	901.8	1,014.1	−.1	86	49	67.6	+3.4	98	5	38	14	41	40	41	.22	−.5	.12	5	8	.0	0	6.6	nw.	43	s.	10	12	15	4	3.8	79
Kalispell	2,973	48	56	912.0	1,013.5	−.4	80	50	65.1	+2.3	94	6	37	14	70	44	--	.56	−.3	.28	5	5	.0	0	9.2	nnw.	---	------	---	16	9	6	3.9	--
Miles City [2]	2,371	5	28	930.9	1,013.2	−.7	92	60	75.8	-----	110	7	45	31	8	44	--	.11	------	.05	3	2	.0	0	8.2	wnw.	---	------	---	17	9	5	3.8	--
Rapid City [2]	3,259	5	56	902.1	1,013.1	−1.5	90	59	74.2	+4.7	104	22	44	30	9	47	62	1.16	−.5	.46	6	10	T	0	12.5	------	47	nw.	8	15	14	2	3.8	78
Cheyenne [2]	6,094	22	40	815.4	1,014.2	−.4	81	53	67.0	+1.4	92	22	43	30	27	46	75	2.04	+.5	.97	12	17	1.0	0	8.5	------	28	n.	18	8	19	4	4.9	78
Lander [2]	5,352	6	30	831.7	1,013.9	.0	86	55	70.1	+4.6	97	6	48	30	3	38	32	.09	−.4	.03	6	3	.0	0	7.3	------	37	se.	5	11	13	7	4.7	72
Sheridan [2]	3,790	5	38	885.2	1,013.4	−2.5	90	55	72.7	+6.2	105	6	43	30	7	43	59	.10	−.8	.07	3	10	.0	0	6.7	------	45	nw.	4	18	8	5	3.6	67
North Platte [2]	2,821	11	51	918.1	1,014.6	+.4	86	60	72.8	+2.0	96	12	47	31	5	58	79	.95	−1.4	.30	8	9	.0	0	8.9	------	38	nw.	16	14	13	4	3.9	74
MIDDLE SLOPE									75.9	−.6							70	1.68	−.9														4.3	
Denver [4]	5,292	106	113	839.5	1,013.5	−1.1	85	61	72.9	+2.2	94	22	54	29	3	48	69	.55	−.9	.34	9	9	.0	0	6.5	------	34	nw.	8	11	17	3	3.9	79
Pueblo [2]	4,690	5	36	859.1	1,013.6	+.1	88	58	73.1	+.4	98	23	52	26	3	51	74	.42	−1.4	.21	6	10	T	0	5.9	------	50	w.	17	13	12	6	4.5	75
Concordia	1,392	50	58	966.8	1,015.2	+1.3	87	66	76.2	−.3	97	11	54	31	0	---	--	1.85	−1.1	.75	7	7	.0	0	7.2	------	25	n.	17	13	10	8	4.5	69
Dodge City [2]	2,509	5	58	928.9	1,014.6	+.7	88	64	75.6	−2.1	98	12	56	31	0	60	72	2.57	−.1	1.09	8	10	.0	0	11.2	------	50	nw.	29	13	14	4	4.3	83
Wichita [2]	1,358	52	64	967.8	1,015.0	+1.5	90	66	76.6	−1.7	98	12	57	31	0	62	74	1.13	−2.0	.27	9	11	.0	0	11.3	------	36	n.	18	14	10	7	4.2	78
Oklahoma City [4]	1,214	10	47	969.2	1,015.0	+1.1	90	68	79.0	−.7	96	12	59	22	0	64	66	1.70	−1.2	.91	7	6	.0	0	9.9	s.	17	sw.	11	15	10	6	4.1	71
Tulsa [2]	674	10	60	991.2	1,015.1	------	90	66	78.0	−2.1	99	13	53	22	0	65	68	3.54	+.3	2.20	8	10	.0	0	7.1	s.	31	n.	13	13	12	6	4.7	78
SOUTHERN SLOPE									79.2	−1.2							60	2.47	−.2														4.2	
Abilene [2]	1,755	4	59	953.9	1,013.6	+.4	92	68	80.4	+.1	100	19	61	3	0	62	57	2.20	.0	1.69	5	5	.0	0	10.4	s.	45	n.	31	11	8	12	5.4	76
Amarillo [2]	3,604	5	42	891.0	1,013.9	.0	88	62	74.8	+.2	96	13	50	26	1	60	64	3.78	+.7	1.92	13	12	T	0	9.8	s.	42	n.	26	14	14	3	3.8	80
Del Rio	960	63	71	979.7	1,012.7	+.5	93	72	82.4	−1.8	102	2	65	2	0	67	65	3.29	+1.6	2.90	5	5	.0	0	6.8	e.	40	e.	2	17	7	7	3.8	74
Roswell [2]	3,614	6	29	892.7	1,013.3	+.4	91	63	76.6	.0	98	19	56	6	0	57	55	1.33	−.8	.65	7	13	.0	0	7.1	s.	33	s.	20	16	13	2	3.9	73
Wichita Falls [2]	1,030	4	49	978.3	1,014.1	------	93	70	81.6	−4.3	102	19	60	22	0	63	57	1.77	−.4	.93	7	7	.0	0	11.1	se.	55	nnw.	19	14	9	8	4.3	--
SOUTHERN PLATEAU									81.1	+1.0							39	.79	−.8														3.0	
El Paso [2]	3,916	35	85	886.9	1,011.5	+.3	92	68	80.1	+2.1	99	30	59	6	0	54	44	.43	−1.3	.28	4	14	.0	0	9.1	se.	40	ne.	31	14	11	6	4.4	77
Albuquerque [2]	5,314	5	45	850.3	1,010.5	−.3	90	62	76.3	+2.4	94	31	56	19	0	49	43	.72	−.5	.45	6	8	.0	0	7.5	n.	42	se.	31	18	10	3	3.8	82
Flagstaff	6,907	34	48	795.5	1,017.1	------	82	47	64.6	+.6	89	30	37	18	68	38	44	1.26	−1.5	.72	4	9	.0	0	5.1	nnw.	---	------	---	20	6	5	3.1	--
Phoenix [4]	1,107	39	87	971.6	1,009.4	+.6	104	74	88.6	+.1	111	2	65	11	0	55	36	.41	−.5	.40	2	3	.0	0	5.1	se.	41	e.	6	24	6	1	1.7	95
Tucson [2]	2,555	5	39	924.1	1,010.6	+2.1	98	70	84.2	.0	105	30	65	16	0	49	35	1.92	−.4	1.40	4	9	.0	0	7.7	sse.	42	e.	2	20	4	7	3.1	88
Yuma [2]	142	9	54	1,003.7	1,008.6	+.5	107	78	92.8	-----	115	2	69	12	0	56	33	T	------	T	0	0	.0	0	5.8	se.	30	e.	6	24	4	3	1.9	93
MIDDLE PLATEAU									70.4	+1.5							41	.28	−.4														3.1	
Ely [2]	6,262	8	41	811.7	------	------	84	45	64.5	+3.2	92	4	37	25	73	---	--	.18	−.9	.12	3	4	.0	0	11.4	------	34	n.	1	21	7	3	2.7	83
Reno [2]	4,527	20	52	863.2	1,014.1	+1.6	86	44	65.2	−.5	98	3	37	21	47	39	44	.11	−.1	.09	4	4	T	0	5.5	s.	28	nw.	15	21	5	5	2.7	86
Winnemucca	4,339	5	56	867.6	------	------	90	52	71.0	+1.7	101	3	43	26	0	---	--	.11	−.1	.09	2	4	.0	0	6.8	------	28	s.	22	18	9	4	3.5	76
Salt Lake City [2]	4,357	32	58	871.0	1,011.5	−.7	91	61	76.0	+3.2	102	5	54	18	0	42	34	.70	−.2	.50	4	5	T	0	10.3	sse.	50	w.	4	19	8	4	3.0	87
Grand Junction [2]	4,602	5	26	860.8	1,013.0	−.5	90	60	75.5	+.1	99	1	54	20	0	40	45	.32	−.9	.16	4	11	.0	0	7.5	------	34	ne.	7	15	12	4	3.8	79
NORTHERN PLATEAU									68.5	+1.4							41	.20	−.2														3.5	
Baker [4]	3,471	36	54	896.0	1,014.5	−.7	85	49	67.2	+2.6	98	3	39	13	40	40	--	.26	−.2	.13	3	4	.0	0	5.7	n.	22	w.	10	17	11	3	3.2	83
Meacham	4,056	7	28	878.4	1,016.7	------	77	48	62.4	-----	91	1	38	13	131	40	47	.16	------	.09	3	6	.0	0	5.7	nnw.	---	------	---	17	10	4	3.3	--
Boise [2]	2,739	5	49	918.1	1,011.8	−1.1	89	58	73.6	+2.6	105	3	48	8	1	42	34	.12	−.1	.08	3	6	.0	0	10.6	nw.	50	se.	22	16	11	4	3.5	87
Lewiston	1,436	4	23	962.8	1,013.5	------	89	57	73.1	-----	103	3	45	26	1	43	35	.10	------	.10	1	3	.0	0	6.5	w.	---	------	---	22	6	3	3.1	--
Pocatello [2]	4,478	5	31	863.5	1,012.9	.0	88	56	71.8	+2.9	99	6	47	26	1	36	31	.21	−.3	.15	3	4	.0	0	7.0	s.	47	w.	24	13	13	5	4.0	79
Ellensburg [2]	1,735	5	58	953.6	1,014.9	------	82	52	67.2	+.4	98	1	40	26	43	47	52	.27	+.1	.19	2	4	.0	0	13.8	nw.	---	------	---	14	14	3	3.7	--
Spokane [2]	1,929	6	51	946.8	1,015.0	+1.1	82	55	68.6	+.5	96	3	45	8	37	40	38	.19	−.4	.10	5	2	.0	0	6.9	ssw.	29	sw.	9	16	12	3	3.7	81
Walla Walla	991	57	65	978.7	1,013.9	+.4	86	62	74.0	+1.3	99	1	51	14	0	47	--	.06	−.4	.04	2	4	.0	0	5.1	s.	18	w.	7	16	12	3	3.4	80
Yakima [2]	1,076	4	54	975.6	1,014.0	−.2	87	50	58.7	−.5	102	1	41	26	23	47	49	.42	+.1	.30	4	3	.0	0	7.3	w.	---	------	---	15	14	2	3.4	--
NORTH PACIFIC COAST									64.4	+.5							65	.65	.0														5.3	
Kelso [2]	750	38	76	------	------	------	76	49	62.8	-----	91	28	41	14	93	53	74	.65	------	.23	4	0	.0	0	5.0	nw.	---	------	---	4	13	14	6.5	--
North Head	211	5	55	1,010.5	1,018.0	−.3	65	55	60.1	+2.5	73	26	50	6	151	---	--	1.08	.0	.28	12	0	.0	0	10.4	n.	37	n.	31	7	9	15	6.6	48
Seattle [4]	125	90	321	1,012.9	1,017.5	+.2	73	56	64.6	−.5	89	1	51	26	42	52	69	.39	−.3	.22	5	1	.0	0	7.8	nnw.	28	s.	15	5	15	11	6.0	48
Tacoma	194	172	201	1,010.5	1,017.3	.0	72	55	63.6	+1.0	92	1	49	26	65	---	--	.34	−.4	.23	6	0	.0	0	7.0	n.	26	sw.	7	7	11	13	6.0	55
Tatoosh Island	86	5	61	1,014.9	1,017.9	−.1	61	52	56.4	+1.1	70	28	49	14	266	53	91	3.05	+1.0	.73	19	0	.0	0	9.6	s.	33	s.	17	2	9	20	7.9	35
Burns	4,162	35	47	873.7	1,013.9	------	84	49	66.5	+1.9	97	3	40	22	39	37	37	.77	+.5	.70	2	5	T	0	---	------	---	------	---	22	4	5	2.6	--
Eugene [2]	433	4	35	1,003.7	1,017.6	------	80	51	65.4	-----	94	1	41	13	32	52	67	.08	------	.04	4	0	.0	0	6.7	w.	---	------	---	9	15	7	4.9	--
Medford [2]	1,329	29	58	968.5	1,015.7	+1.8	86	52	68.9	−2.2	98	1	46	8	7	48	51	.00	−.2	.00	0	0	.0	0	7.9	nw.	---	------	---	19	9	3	2.7	--
Portland, Oreg. [4]	154	68	106	1,011.9	1,017.4	+.8	77	58	67.8	+1.1	95	1	52	13	14	53	67	.15	−.5	.12	4	0	.0	0	5.4	nw.	18	sw.	24	6	16	9	5.7	55
Roseburg	510	45	76	999.0	1,017.3	+1.4	81	54	67.4	−.6	95	1	45	13	16	---	--	.03	−.3	.03	1	0	.0	0	4.9	n.	24	sw.	6	10	14	7	4.4	66

See footnotes at end of table

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR AUGUST 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	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: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Total heating degree days	Mean temperature of the dew-point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset), number of days: Clear	Character of day (sunrise to sunset), number of days: Partly cloudy	Character of day (sunrise to sunset), number of days: Cloudy	Sky cover, [7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
MIDDLE PACIFIC COAST									66.9	.0							59	.02	−.1														3.3	
Eureka	60	72	88	1,016.6	------	------	63	54	58.7	+2.7	71	6	48	13	193	----	--	.02	−.2	.02	1	0	.0	0	6.6	------	23	sw.	6	6	13	12	6.0	65
Red Bluff [2]	353	5	26	1,000.3	1,012.9	------	92	62	77.4	−2.3	105	31	56	10	0	47	38	.00	.0	.00	0	0	.0	0	7.2	se.	20	se.	6	27	1	3	1.2	97
Sacramento [4]	66	92	115	1,011.2	1,013.9	+2.0	87	57	72.2	−.7	100	31	53	16	1	52	58	.01	.0	.01	1	0	.0	0	11.5	sw.	22	sw.	9	27	3	1	1.1	93
San Francisco [4]	155	112	132	1,015.2	1,015.9	+1.7	65	54	59.4	+.3	71	21	52	23	175	53	81	.04	.0	.04	1	0	.0	0	17.2	w.	28	w.	4	9	17	5	4.9	59
SOUTH PACIFIC COAST									73.6	+.1							64	T	.0														2.4	5
Fresno [2]	327	5	34	1,001.7	1,012.2	+1.4	94	60	76.8	−2.7	103	3	54	24	0	50	44	T	.0	T	0	1	.0	0	7.7	nw.	22	nw.	27	26		3	2 1.	29
Los Angeles [4]	338	236	263	1,010.5	1,014.1	+1.2	84	63	73.7	+2.6	97	27	58	12	0	59	75	.01	.0	.01	1	1	.0	0	6.1	wsw.	18	se.	21	21		9	1 2.	68
San Diego [2]	87	20	55	1,010.8	1,014.1	+1.2	77	63	70.2	+.4	89	27	59	17	0	60	74	T	.0	T	0	0	.0	0	6.2	wnw.	16	s.	22	14	1	7	0 3.	70
WEST INDIES																																		
San Juan, P. R.	82	9	54	1,012.5	1,015.2	------	85	76	80.3	−.2	90	19	73	28	0	----	-	4.27	−1.7	1.27	20	7	.0	0	10.9	e.	39	ne.	23	6	15	10	6.3	64
Swan Island	35	6	36	------	------	------	---	---	----	----	---	--	---	--	---	---	--	----	----	---	---	---	---	---	---	------	---	------	---	---	---	---	---	--
ALASKA																																		
Anchorage [2]	132	6	44	1,008.5	1,013.2	------	64	46	54.8	−.8	76	28	36	15	320	46	74	1.80	−.8	.75	12	0	.0	0	----	nw.	24	s.	12	3	9	19	7.5	--
Annette Island	113	5	53	1,011.9	1,015.9	------	62	50	56.4	−2.0	78	29	45	12	268	50	84	6.50	+1.9	1.35	16	0	.0	0	8.1	se.	---	------	---	4	7	20	7.5	--
Barrow	29	5	27	1,008.8	1,009.1	------	47	36	41.8	+3.5	63	11	30	13	717	40	90	1.62	+.8	.50	16	0	.0	0	13.9	e.	34	e.	27	0	3	28	9.2	--
Bethel [2]	28	5	31	1,008.5	1,009.8	------	56	46	51.2	−1.1	66	18	38	31	427	48	87	4.42	+.3	.75	21	0	.0	0	12.3	s.	---	------	---	0	0	31	9.6	--
Cordova [2]	45	5	32	1,012.2	1,013.9	------	62	43	52.1	.0	72	3	36	20	401	48	86	4.54	−5.7	2.00	15	0	.0	0	2.7	e.	17	se.	8	5	5	21	7.5	--
Fairbanks [2]	455	5	63	994.2	1,011.2	------	68	43	55.5	+.4	84	29	33	15	295	48	88	1.19	−.9	.42	12	0	.0	0	----	sw.	25	sw.	1	3	12	16	6.9	--
Galena	139	4	66	1,004.4	1,009.1	------	60	48	54.1	+1.6	68	19	40	14	338	46	75	2.17	−.6	.42	16	0	.0	0	10.3	se.	---	------	---	0	2	29	9.1	--
Gambell	32	5	32	------	------	------	---	---	----	----	---	--	---	--	---	---	--	----	----	---	---	---	---	---	---	------	---	------	---	---	---	---	---	--
Juneau [2]	80	6	30	1,013.9	1,014.9	------	62	44	53.2	+.4	75	30	37	19	369	47	81	3.52	−1.2	.69	15	0	.0	0	----	n.	24	se.	3	9	6	16	6.4	--
Kotzebue [2]	20	5	31	1,006.8	1,007.5	------	56	47	51.4	+1.4	68	19	41	13	419	48	88	2.21	+.5	.43	16	0	.0	0	----	se.	---	------	---	0	2	29	9.5	--
McGrath [2]	341	5	31	998.3	1,011.2	------	61	46	53.2	+.3	71	3	38	16	364	47	80	4.36	+.8	.60	21	0	.0	0	6.0	s.	---	------	---	2	3	26	8.8	--
Nome [2]	22	10	75	1,006.1	1,006.8	------	52	46	48.9	−.6	60	8	41	29	498	46	90	6.08	+2.9	.73	24	0	.0	0	12.8	ssw.	42	s.	11	0	1	30	9.8	--
Northway [2]	1,718	5	32	950.2	1,012.9	------	66	45	55.6	+2.8	80	29	40	19	290	45	70	1.06	−1.2	.32	11	2	.0	0	7.5	nw.	24	nw.	9	5	4	22	7.5	--
Yakutat	31	5	50	1,013.9	1,015.2	------	59	46	52.2	−.8	72	29	37	20	400	48	87	7.74	−3.5	2.16	17	0	.0	0	----	ese.	---	------	---	7	2	22	7.6	--
HAWAII																																		
Honolulu [4]	38	86	98	1,017.3	1,017.6	------	81	73	77.1	−1.3	82	15	71	19	0	----	--	.41	−.9	.12	14	0	.0	0	14.2	------	26	ne.	24	6	17	8	5.6	66

DELAYED DATA FOR JULY, 1949

ALASKA																																		
Anchorage [2]	132	6	44	1,010.2	1,014.9	------	64	48	56.0	−1.0	78	5	41	1	284	47	74	1.26	−.4	.26	14	0	.0	0	5.0	wnw.	17	s.	31	2	8	21	7.9	--
Annette Island	113	5	53	1,013.9	1,018.0	------	60	50	55.1	−2.5	74	23	44	1	310	49	83	7.02	+1.3	2.01	16	0	.0	0	7.2	se.	---	------	---	0	7	24	8.9	--
Barrow	29	5	27	1,013.5	1,014.2	------	44	32	38.1	−1.7	61	9	28	8	838	34	90	.42	−.4	.27	3	0	T	0	13.7	ene.	32	sw.	3	5	8	18	7.0	--
Bethel [2]	28	5	31	1,011.9	1,013.2	------	61	48	54.6	+.1	78	12	43	2	325	48	81	1.01	−1.3	.34	11	1	.0	0	10.2	s.	---	------	---	2	4	25	8.7	--
Cordova [2]	45	5	32	1,014.2	1,015.9	------	59	43	51.0	−2.0	70	3	35	1	434	48	88	4.47	−.7	.92	20	0	.0	0	2.9	ene.	14	ese.	11	1	6	24	8.0	--
Fairbanks [2]	455	5	63	994.6	1,011.5	------	70	49	59.8	+1.8	85	10	34	1	165	52	79	3.47	+1.6	.58	23	7	.0	0	----	ssw.	27	sw.	23	1	11	19	7.6	--
Galena	139	4	66	1,006.8	1,011.2	------	69	53	60.8	+.3	80	7	40	1	150	50	70	1.61	−1.0	.69	13	2	.0	0	8.4	sw.	---	------	---	2	10	19	7.5	--
Gambell	32	5	32	1,009.5	1,010.5	------	46	40	43.0	−2.1	53	16	34	1	682	42	96	1.60	.0	.32	12	0	.0	0	12.4	ssw.	40	se.	14	0	0	31	10.0	--
Juneau [2]	80	6	30	1,016.3	1,016.9	------	61	46	53.3	−2.2	75	4	38	3	363	46	82	3.97	−.2	.90	19	0	.0	0	----	n.	22	se.	4	0	8	23	8.7	--
Kotzebue [2]	20	5	31	1,011.2	1,011.5	------	59	46	52.7	−.3	77	14	36	1	387	48	83	.65	−.8	.35	8	0	.0	0	----	w.	---	------	---	5	5	21	7.5	--
McGrath [2]	341	5	31	1,000.3	1,012.9	------	68	49	58.3	−.2	81	6	39	3	211	48	74	1.87	−.5	.44	12	2	.0	0	5.5	ssw.	---	------	---	3	3	25	8.1	--
Nome [2]	22	10	75	1,011.9	1,012.5	------	53	44	48.5	−1.4	67	11	37	1	513	46	91	1.23	−1.3	.32	13	0	.0	0	10.3	wsw.	31	e.	14	0	4	27	9.3	--
Northway [2]	1,718	5	32	950.6	1,013.2	------	67	47	57.3	−1.7	86	9	36	3	243	47	76	5.05	+2.2	1.44	19	6	.0	0	5.0	nw.	---	------	---	2	5	24	8.2	--
Yakutat	31	5	50	1,015.9	1,017.3	------	56	47	51.5	−1.5	70	9	40	9	416	48	88	9.09	+.9	2.01	14	0	.0	0	----	e.	---	------	---	2	3	26	8.9	--

[1] Height of barometer cistern above mean sea level on Jan. 1, 1900, or when station was first established since Jan. 1, 1900. When station is moved to new location or airport, the pressure is reduced to the original elevation for homogeneity. These elevations do not represent the present station elevation in most cases.

[2] Data are from airport records. Pressures adjusted to original elevations according to note 1.

[3] Barometric hygrometric, wind, character of day, and average cloudiness data from airport records; remainder from city office records.

[4] Barometric and hygrometric data from airport records, remainder from city office records.

[5] Barometric, temperature, degree day, and hygrometric data from airport; remainde from city office records.

[6] As of Jan. 1, 1949, relative humidity values at temperatures below 32° F. are expressed with respect to water rather than with respect to ice, as used prior to that date. Therefore, these hygrometric values before and after Jan. 1, 1949, cannot accurately be combined without necessary conversion.

[7] As of Jan. 1, 1949, "Sky cover" has been substituted for "Average cloudiness" to include smoke, snow, etc., in addition to clouds that obscure the sky.

NOTE.—Unless otherwise indicated, data in table are city office records.