CLIMATOLOGICAL DATA FOR AUGUST 1948

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	79.3	−0.5	3 stations	103	[1] 30	Valley Head	52	7	3.77	−.98	Mobile Airport	11.09	Muscle Shoals	0.35
Arizona	79.7	−1.1	Yuma Valley	117	30	2 stations	32	[1] 25	2.05	−.30	Crown King	9.35	2 stations	.00
Arkansas	78.0	−2.1	Magnolia	108	13	Lead Hill	46	6	4.25	+.71	West Fork	15.16	Lake City	.67
California	70.7	−1.9	2 stations	121	30	Bora	27	5	.05	−.08	Ft. Jones	2.99	472 stations	.00
Colorado	66.0	+.3	Holyoke	105	28	Pearl	21	21	1.67	−.28	Springfield	5.85	Greeley	.15
Georgia	78.3	−1.2	Washington	105	30	Blairsville Exp. Sta	48	6	4.42	−.78	Suches	11.74	Sylvania	.97
Idaho	65.4	−.9	Grand View	104	[1] 4	4 stations	24	[1] 20	.48	−.15	Cottonwood	2.74	6 stations	.00
Illinois	74.9	+.3	Alton Dam	106	23	Freeport	42	[1] 5	1.84	−1.56	Oregon Power Plant	4.40	Illinois City Dam	.53
Indiana	73.6	−.1	Madison	103	27	Salamonia	45	6	2.01	−1.33	Mt. Vernon Water Works.	4.76	Princeton	.58
Iowa	73.9	+1.2	2 stations	104	23	Decorah	37	[1] 5	2.59	−1.18	Lake View	5.63	Iowa City	.45
Kansas	77.3	−.7	6 stations	105	[1] 17	Burr Oak	48	5	2.87	−.28	Anthony	8.75	Natoma	.28
Kentucky	75.6	−.3	Owensboro	105	25	Beaver Dam	47	6	2.17	−1.55	Brownsville Lock	5.33	Madisonville	.51
Louisiana	82.6	+.7	Winnfield	109	14	Chatham	52	2	3.87	−1.24	Tallulah	13.51	Gloster	T
Maryland-Delaware.	73.4	−.1	Glenelg, Md	107	28	Tonoloway, Md	44	6	6.13	+1.65	Leonardtown, Md	12.81	Luke, Md	2.54
Michigan	68.2	+.5	East Tawas	103	25	Watersmeet	29	5	1.71	−1.05	Hulbert	4.39	Holland Hope College	.38
Minnesota	69.4	+1.7	Winona	103	24	Meadowlands	40	[1] 4	3.43	+.14	Le Center	11.22	Morehead St. Teachers' Col.	.68
Mississippi	79.8	−1.0	Woodville	103	13	Pontotoc	54	6	4.26	+.12	Vicksburg	12.08	Corinth	.39
Missouri	76.1	−.5	3 stations	104	[1] 22	2 stations	46	6	2.15	−1.66	Pleasant Hill	6.52	Leeper	.23
Montana	66.0	+.9	Glasgow	107	[1] 18	do	25	[1] 15	.98	−.11	Lustre	4.99	Shelby	.02
Nebraska	74.7	+1.2	Nenzel	109	30	Nenzel	38	4	2.98	−.32	Pilger	6.35	Upland	.45
Nevada	69.8	−.9	Overton	114	30	Fish Creek Ranch	27	22	.16	−.33	Kyle Canyon R. S	2.88	23 stations	.00
New England	68.9	+1.8	Nashua Water Works, N. H.	105	28	Somerset, Vt	34	11	2.44	−1.29	Plymouth, N. H	6.97	Glen Cove, Maine	.06
New Jersey	73.2	+1.2	Clayton	106	26	2 stations	41	[1] 3	5.62	+.90	Chatsworth	10.87	Ringwood	2.42
New Mexico	72.6	+1.8	Jal	106	9	Gavilan	28	26	1.80	−.66	Endee	5.56	2 stations	.04
New York	69.0	+1.3	Cairo	106	26	2 stations	37	[1] 7	3.20	−.47	Schroon Lake	6.36	Wilson	.15
North Carolina	75.0	−.9	Monroe	106	29	Banners Elk	40	[1] 7	5.27	−.22	Hickory	12.05	Elizabethtown Lock	1.40
North Dakota	69.1	+2.5	Elbowoods	102	[1] 19	Sanish	36	[1] 2	1.82	−.27	Foxholm Wildlife Ref	5.05	Wildrose	.27
Ohio	72.4	+.7	Chesapeake	103	[1] 27	Norwalk	43	[1] 6	2.52	−.86	Cleveland, Shaker Hts	5.89	Montpelier	.60
Oklahoma	79.8	−1.8	Lawton	109	22	Kingfisher	50	6	3.84	+.93	Watts	12.99	Tishomingo	.00
Oregon	63.1	−2.1	Lake Creek	107	1	Chemult	26	[1] 16	.87	+.43	Seaside	3.52	3 stations	T
Pennsylvania	70.0	−.3	Marcus Hook	106	27	2 stations	34	[1] 8	3.67	−.47	Chadds Ford	7.18	Pleasant Mount	1.48
South Carolina	77.5	−1.4	Orangeburg	105	31	3 stations	51	[1] 6	4.33	−1.35	Cleveland	9.95	Orangeburg No. 2	1.18
South Dakota	72.2	+1.1	Tyndall	107	29	Ralph	37	4	1.97	−.14	Watertown	5.63	McLaughlin	.43
Tennessee	76.0	−.8	Norris	103	30	Rugby	46	6	2.12	−1.85	Tri-City	5.34	Hokenwald	T
Texas	83.8	+1.0	Henrietta	114	21	Ysleta	51	21	1.67	−.70	Freeport	7.33	15 stations	.00
Utah	69.9	0.0	Zion Nat'l Park	109	31	Woodruff	25	25	.96	−.11	Santaquin	2.62	2 stations	.00
Virginia	73.5	−.6	2 stations	103	[1] 27	Emory	44	7	6.18	+1.75	Fredericksburg	12.85	Davenport	1.44
Washington	62.6	−2.9	do	98	[1] 1	Stockdill Ranch	32	31	2.03	+1.27	Mt. Baker Lodge	13.13	Lacrosse	T
West Virginia	71.4	−.4	Charleston	105	28	Canaan Valley	39	8	3.96	−.13	Princeton	8.19	Man	1.06
Wisconsin	69.8	+2.0	La Crosse	104	24	Coddington	24	5	1.94	−1.42	Berlin Lock	5.27	Watertown	.37
Wyoming	66.3	+2.2	Red Bird	105	30	Clarkelen	18	1	.79	−.26	Yellowstone Park	2.45	Wamsutter	.01
Alaska (July)	53.4	−2.1	Circle Hot Springs	87	18	Point Hope	27	3	3.40	+.74	Whittier	17.92	Fort Yukon	.55
Hawaii	75.2	+.4	2 stations	91	[1] 18	Haleakala R. S	41	29	5.65	−.69	Iliilula Intake	33.40	Puako	T
Puerto Rico	79.4	+.7	Aguirre	97	18	Garzas Dam	56	21	7.02	−.21	Garzas Dam	17.15	Mona Island	2.47

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS, AUGUST 1948

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	Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Days with 0.01 inch or more	Days with thunderstorms	Total snowfall (unmelted)	Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Prevailing direction	Maximum Velocity: Miles per hour	Maximum Velocity: Direction	Maximum Velocity: Date	Character of day (sunrise to sunset) Number of days: Clear	Partly cloudy	Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-1	%
NEW ENGLAND									68.0	+2.7								81	2.42	-1.3														6.0	
Caribou [2]	628	5	33	990.5	1,013.2	-----	76	54	64.9	+3.4	86	24	45	11	31	60	56	77	3.45	+.2	1.21	9	6	.0	.0	----	s.	--	------	--	4	16	11	6.5	--
Eastport	75	67	82	1,011.2	1,015.9	+.7	71	53	61.7	+1.0	89	29	49	19	35	129	55	84	1.48	-1.5	1.15	8	5	.0	.0	6.8	s.	24	e.	6	3	19	9	5.9	66
Portland, Maine [2]	103	6	43	1,010.5	1,014.2	-1.7	81	58	69.4	+4.8	100	26	46	19	34	22	60	77	1.06	-2.1	.53	9	3	.0	.0	7.2	s.	24	s.	12	9	15	7	5.2	71
Concord [2]	289	5	45	1,004.4	1,014.9	-1.0	82	56	69.1	+3.6	100	26	42	9	38	29	60	78	1.73	-1.8	1.06	7	3	.0	.0	5.2	nw.	23	nw.	31	6	12	13	6.1	59
Mt. Washington	6,274	5	37	809.8	1,020.8	-----	54	44	48.7	+.7	66	26	31	31	18	505	46	94	5.65	-.5	1.75	17	2	.0	.0	24.4	w.	--	------	--	1	9	21	8.1	26
Burlington [2]	403	6	51	1,000.0	1,014.6	-.6	81	59	70.0	+2.1	96	26	50	10	30	18	61	78	3.41	.0	1.14	9	6	.0	.0	6.7	s.	22	s.	11	8	12	11	5.5	54
Boston [2]	124	33	62	1,010.4	1,014.8	-1.1	82	65	73.7	+3.8	100	27	58	31	25	1	62	72	1.24	-2.4	.46	7	4	.0	.0	9.6	nw.	32	sw.	12	7	15	9	5.6	68
Nantucket [2]	12	4	34	1,014.9	1,015.2	-1.1	77	62	69.3	+1.5	95	28	53	20	25	7	64	90	3.12	-.3	1.29	11	3	.0	.0	10.2	w.	28	n.	31	9	10	12	5.9	66
Block Island	26	11	46	1,013.9	1,014.9	-1.4	77	64	70.8	+2.3	95	27	59	8	23	0	65	88	.98	-2.7	.32	7	1	.0	.0	11.2	sw.	30	n.	31	8	9	14	5.9	63
Providence [2]	159	65	60	1,009.1	1,015.2	-1.1	84	64	74.3	+3.3	102	26	57	18	27	0	62	79	2.15	-1.4	1.69	4	2	.0	.0	6.5	w.	30	sw.	12	8	12	11	5.6	69
Hartford [2]	159	5	44	1,009.5	1,015.2	-1.1	83	61	71.8	+2.9	99	26	49	10	32	7	64	78	2.63	-1.7	1.06	6	1	.0	.0	6.1	s.	27	sw.	12	5	13	13	6.1	68
New Haven [2]	107	5	39	1,011.2	1,015.2	-1.1	81	63	71.8	+3.2	100	27	49	8	27	5	64	78	2.20	-1.8	1.66	9	2	.0	.0	5.6	sw.	23	e.	5	8	9	14	5.8	61
MIDDLE ATLANTIC									74.5	+.8								79	5.25	+.9														5.5	
Albany [2]	97	6	40	1,011.2	1,014.9	-1.4	83	59	70.9	+1.9	98	28	46	8	33	14	60	76	1.96	-1.1	.88	7	4	.0	.0	6.9	w.	27	n.	5	4	17	10	6.0	70
New York [4]	314	415	454	1,004.4	1,015.6	-.7	82	68	74.8	+1.7	101	26	60	6	22	0	64	71	3.21	-1.1	1.29	9	3	.0	.0	10.7	nw.	37	s.	12	8	11	12	5.9	59
Allentown [2]	385	4	58	1,002.4	1,016.3	-----	84	62	72.5	+.4	99	26	51	8	31	1	63	80	4.33	-.1	1.77	9	4	.0	.0	----	w.	--	------	--	5	11	15	6.4	--
Harrisburg [2]	374	30	49	1,002.4	1,015.9	-.7	83	63	73.1	+.5	100	28	54	10	29	2	63	78	3.70	-.3	1.21	9	8	.0	.0	5.3	w.	19	nw.	6	6	10	15	6.2	61
Philadelphia [4]	114	174	150	1,011.5	1,015.6	-1.0	83	68	75.9	+1.1	101	26	60	6	24	0	66	80	5.39	+.8	1.31	11	8	.0	.0	6.3	w.	18	nw.	6	8	11	12	5.8	59
Reading	323	47	306	1,004.1	1,015.6	-.7	84	64	73.8	+.9	101	27	54	8	31	1	----	--	5.15	+.9	1.66	11	6	.0	.0	7.7	n.	40	nw.	7	9	8	14	6.1	64
Scranton	805	72	104	987.1	1,015.0	-1.0	81	61	70.8	+1.0	98	26	49	8	30	8	----	--	2.14	-1.6	.83	8	1	.0	.0	5.5	n.	20	n.	31	4	22	5	5.4	70
Atlantic City	52	37	172	1,013.5	1,015.2	-1.1	80	68	73.7	+1.2	97	29	59	6	22	0	68	86	8.23	+3.7	4.97	7	3	.0	.0	11.5	s.	30	n.	31	11	8	12	5.4	63
Newark [2]	30	5	46	1,014.2	1,015.2	-----	84	66	74.7	+1.7	103	26	57	7	30	0	64	73	4.35	-.6	1.08	10	3	.0	.0	----	ne.	--	------	--	7	11	13	6.0	--
Trenton	190	89	107	1,008.5	1,015.2	-1.1	82	66	74.2	+1.2	99	26	57	8	25	0	----	--	4.71	.0	1.13	10	8	.0	.0	7.0	s.	22	nw.	6	10	9	12	5.5	56
Baltimore [4]	123	100	215	1,011.5	1,015.9	-.4	85	68	76.6	+1.1	102	27	57	6	25	0	66	77	5.75	+1.4	1.94	13	11	.0	.0	8.5	s.	30	nw.	29	12	9	10	4.9	68
Washington [4]	112	56	100	1,012.2	1,016.3	.0	86	66	76.0	+1.0	100	28	56	6	26	0	66	76	8.00	+4.0	2.96	10	8	.0	.0	5.2	sw.	29	w.	11	10	13	8	4.9	72
Cape Henry	18	8	54	1,015.2	1,015.9	-.4	83	70	76.4	-.5	96	29	64	16	20	0	70	84	7.35	+2.5	2.90	11	10	.0	.0	8.4	s.	46	nw.	19	12	9	10	4.8	69
Lynchburg [2]	686	5	58	992.2	1,016.6	-.3	84	64	74.2	-.1	98	28	53	6	27	0	66	84	8.26	+4.5	3.22	11	10	.0	.0	5.9	n.	26	se.	21	11	11	9	4.9	71
Norfolk [4]	91	80	125	1,013.2	1,016.6	-.3	86	70	78.0	+.6	100	29	62	6	24	0	68	83	5.15	-.1	2.76	8	7	.0	.0	7.3	sw.	26	w.	4	11	10	10	5.2	70
Richmond [4]	144	11	52	1,010.5	1,015.6	-1.0	86	67	76.2	-.3	99	29	58	7	29	0	67	83	6.38	+2.0	3.45	13	7	.0	.0	5.3	s.	30	nw.	29	13	12	6	4.5	71
SOUTH ATLANTIC									78.2	+.4								78	5.09	-.6														5.3	
Asheville	2,253	77	92	944.6	1,017.3	0	83	62	72.2	+1.7	98	29	50	6	35	3	62	84	4.75	+.6	2.16	10	6	.0	.0	5.1	nw.	28	nw.	29	5	14	12	6.3	59
Charlotte [4]	779	63	86	989.2	1,016.3	-.6	88	68	78.0	+.9	100	29	58	6	26	0	66	75	6.18	+1.1	3.18	13	9	.0	.0	5.3	s.	21	w.	30	12	13	6	4.9	68
Greensboro [2]	886	6	56	985.8	1,017.3	0	87	64	75.6	.0	100	29	54	7	33	0	65	78	4.49	-.8	2.21	11	12	.0	.0	5.5	ne.	28	ne.	14	9	13	9	5.1	65
Hatteras	11	5	47	1,015.6	1,015.9	-.7	83	74	78.5	+.5	89	28	66	7	14	0	72	80	4.83	-.9	2.64	10	6	.0	.0	10.2	sw.	27	sw.	4	8	14	9	5.6	73
Raleigh [4]	376	5	71	1,000.7	1,016.6	0	88	67	77.8	+.8	102	29	57	7	28	0	66	78	5.41	.0	1.84	11	7	.0	.0	5.3	sw.	20	sw.	4	7	17	7	5.2	65
Wilmington	72	73	107	1,015.2	1,016.6	-.3	87	71	78.8	+1.2	95	28	64	7	23	0	70	80	4.07	-2.3	1.96	8	7	.0	.0	7.6	n.	34	nw.	31	10	14	7	5.0	72
Charleston [4]	48	11	92	1,014.2	1,015.9	-1.0	86	73	79.8	-1.2	96	14	67	6	25	0	70	82	4.10	-2.4	1.35	11	7	.0	.0	9.1	e.	32	nw.	31	13	9	9	5.1	69
Columbia, S. C. [4]	347	70	91	1,008.1	1,016.3	-.6	90	69	79.4	-.2	100	28	62	6	30	0	68	74	4.57	-.9	1.19	10	7	.0	.0	6.3	s.	37	se.	30	12	12	7	4.7	68
Greenville, S. C. [2]	1,040	18	36	979.7	1,015.9	-.7	86	68	76.9	+1.1	100	29	57	6	29	0	66	74	4.25	-1.2	2.56	9	9	.0	.0	6.0	ne.	28	n.	12	12	9	10	5.3	64
Augusta [4]	182	62	77	1,000.7	1,015.6	-.7	91	70	80.6	+.2	102	30	64	7	33	0	66	69	4.37	-.7	1.97	9	6	.0	.0	4.9	s.	26	sw.	3	9	14	8	5.3	73
Savannah [2]	65	19	51	1,014.2	1,015.9	-.7	88	72	80.2	+.3	98	30	65	20	29	0	71	78	6.76	-.6	1.87	13	10	.0	.0	8.4	e.	50	nw.	30	7	18	6	5.3	67
Jacksonville [4]	43	86	110	1,014.6	1,015.6	-1.3	88	73	80.9	-.8	96	15	70	15	26	0	72	80	7.27	+1.5	2.94	13	5	.0	.0	7.3	e.	35	nw.	15	4	17	10	6.1	47
FLORIDA PENINSULA									82.7	+.3								78	6.32	+.1														6.4	
Key West [4]	21	10	64	1,014.9	1,015.2	-.4	90	80	84.9	+1.4	93	15	73	27	16	0	75	74	2.73	-1.8	1.22	9	6	.0	.0	7.3	e.	27	w.	1	7	17	7	5.8	58
Miami [4]	25	242	249	1,014.9	1,015.2	-1.4	86	76	81.3	-.8	90	16	70	2	16	0	74	80	7.81	+1.9	2.41	15	17	.0	.0	10.5	se.	38	se.	20	4	15	12	6.5	60
Tampa [2]	35	5	36	1,015.2	1,015.6	-1.0	90	74	81.9	+.4	95	15	70	21	22	0	73	81	8.43	+.2	2.47	15	20	.0	.0	6.5	e.	25	sw.	12	2	16	13	7.0	63
EAST GULF									79.9	-.4								78	6.56	+1.3														5.5	
Atlanta [2]	1,173	33	72	982.1	1,015.9	-1.0	87	68	77.3	-.7	98	30	58	6	25	0	66	74	4.20	-.5	1.41	10	6	.0	.0	6.4	e.	33	se.	1	14	6	11	5.1	71
Macon [4]	370	79	87	990.3	1,015.6	-1.0	89	69	78.9	-1.0	100	30	59	6	29	0	68	73	3.61	-.7	1.04	10	11	.0	.0	4.6	e.	24	ne.	30	9	11	11	5.6	76
Thomasville	273	48	----	1,007.1	1,016.9	+1.0	89	71	79.7	-1.3	97	31	64	22	29	0	----	--	4.31	-1.4	.95	12	9	.0	.0	----	------	--	------	--	0	14	17	----	----
Apalachicola	35	11	51	1,013.5	1,014.9	-1.4	86	74	79.9	-1.3	90	15	70	7	18	0	74	84	13.61	+6.1	2.98	16	17	.0	.0	6.6	se.	29	ne.	21	9	9	13	5.9	49
Pensacola [4]	56	54	79	1,010.8	1,014.9	-1.4	89	74	81.4	+.5	95	15	70	22	20	0	73	80	4.39	-3.6	1.22	13	14	.0	.0	6.3	w.	23	nw.	31	5	17	9	5.8	66
Anniston	618	6	32	994.6	1,016.3	-.7	88	66	77.2	-1.0	98	30	56	6	31	0	69	82	5.46	+1.4	1.61	10	12	.0	.0	----	e.	--	------	--	----	----	----	----	----
Birmingham [2]	700	5	63	993.6	1,015.6	-1.3	88	68	78.0	-.5	96	29	56	6	28	0	67	76	4.10	-.2	1.79	9	10	.0	.0	5.5	e.	28	e.	30	10	10	11	5.5	59
Mobile [4]	57	86	161	1,007.5	1,015.2	-1.1	91	73	82.1	+1.1	97	15	69	22	23	0	72	80	10.92	+4.0	4.27	15	17	.0	.0	6.1	n.	29	nw.	14	2	21	8	6.4	53
Montgomery [4]	218	92	105	1,007.8	1,014.9	-1.7	89	72	80.4	-.4	98	30	64	6	24	0	70	76	3.42	-.8	2.01	10	9	.0	.0	5.4	e.	20	n.	15	14	9	8	4.8	75
Meridian [4]	375	67	92	1,004.4	1,015.2	-.7	90	69	79.9	+.4	98	30	62	6	27	0	69	77	5.56	+1.0	1.64	11	7	.0	.0	4.4	n.	19	w.	16	14	11	6	4.5	74
Vicksburg [4]	247	82	102	1,005.8	1,014.9	-1.4	90	71	80.3	-.5	96	13	66	2	25	0	70	79	10.02	+6.6	5.31	7	11	.0	.0	6.7	n.	38	w.	15	14	8	9	4.5	70
New Orleans C. O.	53	76	84	1,012.9	1,014.9	-1.0	90	75	82.3	+.1	96	20	71	23	24	0	73	79	9.84	+4.0	2.90	15	14	.0	.0	5.6	se.	26	e.	21	4	14	13	6.2	61
New Orleans A. P. [3]	30	6	52	1,012.9	1,014.6	-----	90	74	81.7	-----	95	21	68	22	25	0	72	82	5.79	-----	----	16	17	.0	.0	----	e.	--	------	--	7	15	9	5.8	--
WEST GULF									84.4	+1.5								69	2.14	-1.1														4.3	
Shreveport [2]	181	5	64	1,005.8	1,014.6	-.6	97	72	84.6	+2.0	105	13	63	6	32	0	69	68	1.06	-1.6	.40	4	4	.0	.0	7.5	e.	33	se.	28	12	11	8	4.6	87
Fort Smith [2]	463	6	30	999.0	1,014.9	+.3	90	69	79.4	-1.1	97	13	59	5	29	0	68	77	3.39	+.1	2.04	14	12	.0	.0	6.0	ne.	22	nw.	12	10	6	15	5.5	67
Little Rock [2]	265	26	58	1,003.4	1,015.9	+.3	88	70	79.2	-.6	96	13	62	6	26	0	70	78	3.31	-.4	.80	10	8	.0	.0	5.8	ne.	24	ne.	30	13	5	13	4.8	68
Austin [2]	621	5	41	992.2	1,013.2	-1.0	98	73	85.8	+2.0	103	22	70	3	33	0	66	61	.27	-1.8	.15	3	4	.0	.0	8.8	s.	27	se.	24	16	10	5	3.8	86
Brownsville [2]	20	5	54	1,010.2	1,012.2	-1.0	94	75	84.6	+.7	99	16	70	23	26	0	74	78	1.38	-1.5	.96	5	5	.0	.0	10.2	se.	24	se.	13	13	12	6	4.8	79
Corpus Christi [2]	44	6	33	1,012.5	1,013.5	-1.1	95	75	84.6	+3.0	100	16	70	19	29	0	74	80	4.14	-----	3.15	5	7	.0	.0	11.3	s.	29	s.	8	12	15	4	4.0	78
Dallas [2]	488	34	45	995.9	1,013.9	-.7	98	75	86.2	+2.7	107	20	65	5	31	0	65	56	.54	-2.2	.30	3	2	.0	.0	8.5	se.	24	se.	25	18	10	3	3.5	90
Fort Worth [2]	706	40	56	990.2	1,013.5	-.4	98	74	85.8	+3.1	106	20	64	5	31	0	64	56	.90	-1.7	.53	4	5	.0	.0	9.0	e.	40	nw.	30	17	11	3	3.6	85
Galveston [4]	54	122	129	1,012.2	1,014.2	-1.0	88	78	83.0	.0	93	3	71	28	20	0	74	78	2.62	-1.7	1.23	10	8	.0	.0	12.1	s.	29	e.	28	17	10	4	4.1	81
Houston [4]	138	157	190	1,008.8	1,013.5	-1.7	95	76	85.7	+2.5	100	20	72	24	24	0	73	78	1.25	-2.9	.53	8	7	.0	.0	8.8	s.	34	e.	31	8	17	6	5.3	78
Laredo [2]	418	10	38	997.0	1,011.5	-----	101	77	89.0	+2.1	106	10	72	25	29	0	66	56	.15	-1.5	.13	3	1	.0	.0	----	se.	--	------	--	18	10	3	3.3	--
Palestine	510	64	72	996.6	1,014.2	-1.0	96	73	84.5	+2.7	103	21	67	6	29	0	65	60	.36	-1.8	.14	5	3	.0	.0	6.5	ne.	26	e.	28	14	15	2	3.8	86
Port Arthur [4]	34	59	134	1,012.9	1,013.9	-1.3	92	76	84.0	+.8	97	21	72	6	22	0	72	81	4.75	-1.3	1.01	10	10	.0	.0	11.6	s.	37	w.	16	13	10	8	4.8	76
San Antonio [2]	794	6	51	989.2	1,013.2	-.7	98	72	85.2	+1.7	103	20	66	26	33	0	66	62	5.83	+3.4	5.21	7	5	.0	.0	8.3	s.	27	se.	27	18	7	6	4.2	77

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS, AUGUST 1948—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	Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Days with 0.01 inch or more	Days with thunderstorms	Total snowfall (unmelted)	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	Partly cloudy	Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	0-7	8-10	0-10	
OHIO VALLEY AND TENNESSEE									74.8	+.5								72	2.24	-1.2														4.6	
Chattanooga [2]	762	6	66	991.9	1,016.3	-.3	88	66	77.0	+1.3	99	29	56	6	33	0	67	77	3.24	-.8	2.37	5	3	.0	.0	5.0	n.	26	n.	4	12	9	10	5.3	56
Knoxville [2]	995	27	71	982.1	1,016.6	-.3	87	66	76.6	+1.2	102	29	57	7	32	0	65	72	1.71	-2.2	.93	8	6	.0	.0	5.0	ne.	24	w.	4	11	9	11	5.4	42
Memphis [3]	399	5	49	1,005.4	1,015.2	-.7	90	68	78.9	+.5	96	22	58	6	30	0	68	73	2.62	-.7	2.30	5	5	.0	.0	5.8	n.	25	sw.	13	13	11	7	4.7	79
Nashville [2]	546	5	72	994.6	1,016.3	-.3	90	67	78.4	+.6	99	28	55	6	34	0	64	67	2.07	-1.6	.98	7	5	.0	.0	5.6	s.	24	e.	28	12	12	7	4.6	75
Lexington [2]	989	4	58	982.1	1,017.6	+1.3	86	62	74.2	-.3	99	26	51	6	32	2	61	70	2.61	-.8	1.24	6	5	.0	.0	----	------	--	------	--	14	12	5	4.4	--
Louisville [2]	525	5	54	999.7	1,016.6	.0	90	63	76.2	+.1	100	25	54	6	35	0	62	66	1.34	-2.1	.85	8	4	.0	.0	4.6	e.	34	nw.	30	16	11	4	4.0	79
Evansville [2]	431	6	40	1,001.0	1,016.3	.0	88	62	75.0	.0	98	24	52	6	34	0	64	73	1.63	-1.7	.71	6	8	.0	.0	5.0	n,	28	se.	18	13	13	5	4.4	86
Indianapolis [2]	823	5	54	987.5	1,016.9	+.3	86	61	73.6	+1.2	97	26	50	6	31	3	61	68	1.04	----	.52	5	4	.0	.0	6.4	ne.	27	nw.	13	11	15	5	4.6	78
Terre Haute [2]	575	4	36	996.6	1,017.3	+1.4	88	61	74.2	-.6	97	25	49	6	32	5	62	70	.99	-2.3	.50	6	5	.0	.0	5.9	se.	34	s.	17	11	15	5	4.6	75
Cincinnati [4]	627	135	148	994.6	1,017.3	+.7	88	66	76.7	+3.1	102	27	57	6	31	0	62	69	2.58	-.8	1.11	8	5	.0	.0	3.6	ne.	18	nw.	30	17	11	3	4.0	71
Columbus [4]	822	90	110	987.8	1,017.3	+.7	85	63	74.4	+1.4	100	27	51	6	28	2	61	71	2.31	-1.0	1.12	5	4	.0	.0	6.4	n.	28	s.	11	19	9	3	3.5	80
Dayton [2]	1,003	6	55	981.7	1,017.3	+1.0	84	62	73.0	+.1	97	27	51	6	27	4	59	66	2.08	-1.2	.76	6	4	.0	.0	6.4	n.	27	nw.	11	15	11	5	4.1	81
Elkins [2]	1,947	5	45	949.9	1,018.0	+.4	80	56	67.8	-.5	95	27	46	7	33	29	60	90	3.66	-.2	.88	13	10	.0	.0	4.3	nw.	28	w.	18	4	18	9	6.3	67
Parkersburg	637	77	84	------	------	------	85	62	73.5	-.4	100	27	52	6	31	2	64	82	2.89	-.6	.86	8	5	.0	.0	4.8	nw.	18	nw.	4	12	14	5	4.6	74
Pittsburgh [2]	842	39	54	986.8	1,016.9	+.3	82	62	71.8	+.5	99	27	52	7	27	9	59	72	2.90	-.3	2.01	10	7	.0	.0	7.6	n.	26	n.	5	9	16	6	5.0	43
LOWER LAKES									71.0	+1.8								73	2.36	-.6														4.8	
Buffalo [2]	768	34	96	988.8	1,016.3	+.4	81	60	70.2	+1.8	99	27	47	7	32	17	59	72	1.10	-2.0	.51	5	4	.0	.0	10.5	sw.	33	sw.	1	7	18	6	5.3	81
Canton	448	10	61	998.6	1,014.2	-.7	80	58	68.9	+2.4	95	26	45	31	29	28	58	74	2.18	-1.5	.59	12	9	.0	.0	6.2	w.	21	sw.	1	9	11	11	5.6	65
Oswego	335	71	85	1,003.1	1,015.2	-.7	77	62	69.7	+1.9	94	28	54	10	24	11	60	74	2.25	-.4	1.42	7	6	.0	.0	7.6	w.	22	n.	31	14	12	5	4.4	69
Rochester [2]	523	4	69	997.0	1,015.9	-.4	82	59	70.2	+1.0	99	26	46	7	34	19	59	75	1.82	-1.1	1.06	6	5	.0	.0	8.0	sw.	26	w.	1	8	17	6	5.1	64
Syracuse [2]	596	5	57	994.2	1,015.9	-.7	82	58	70.0	+2.7	98	28	47	31	32	20	60	77	2.53	-.3	1.20	10	6	.0	.0	7.9	sw.	43	nw.	28	9	12	10	5.5	60
Erie [4]	714	57	81	991.2	1,016.6	+.3	78	65	71.4	+1.8	92	26	56	10	24	5	61	79	1.71	-1.6	.61	8	5	.0	.0	6.2	w.	17	w.	17	12	14	5	4.4	62
Cleveland [2]	762	27	54	989.5	1,016.9	+.3	84	60	71.8	+1.6	102	27	52	10	35	2	60	71	4.47	+1.7	2.43	8	3	.0	.0	7.2	n.	30	w.	12	12	14	5	4.6	71
Sandusky	629	5	67	994.2	1,016.9	+.6	82	63	72.8	+1.0	96	28	55	2	28	0	----	--	2.92	-.2	1.49	5	3	.0	.0	6.9	ne.	27	nw.	11	21	5	5	3.5	77
Toledo [2]	628	5	47	994.2	1,016.9	+.3	83	60	71.2	+1.0	99	27	48	6	29	5	60	71	2.85	0	1.14	4	2	.0	.0	7.6	sw.	32	nw.	11	12	12	7	4.6	76
Fort Wayne [2]	857	5	34	986.5	1,017.3	+.7	84	60	72.2	+1.3	96	27	49	6	29	7	59	68	2.10	-1.0	1.05	6	4	.0	.0	5.5	n.	26	nw.	11	11	17	3	4.2	82
Detroit [2]	730	5	77	991.2	1,017.6	+1.0	83	62	72.1	+2.9	98	25	51	6	28	4	58	66	2.05	-.7	.61	6	3	.0	.0	7.2	n.	41	nw.	11	10	13	8	5.1	67
UPPER LAKES									69.2	+3.0								71	1.52	-1.4														4.8	
Alpena	609	5	89	994.6	1,017.3	+.7	77	59	67.8	+3.7	100	25	49	7	26	40	58	72	1.10	-1.8	.72	12	5	.0	.0	8.7	nw.	26	nw.	1	11	12	8	5.0	71
Escanaba	612	51	72	994.6	1,016.9	+1.0	74	59	66.2	+1.9	84	24	50	5	25	47	58	76	2.51	-.7	1.72	8	5	.0	.0	8.7	s.	27	n.	4	10	13	8	4.9	66
Grand Rapids [4]	707	70	244	991.5	1,016.9	+.6	84	63	73.2	+3.5	97	24	51	5	27	2	57	64	.68	-1.9	.53	6	5	.0	.0	8.6	n.	29	sw.	28	10	14	7	4.8	78
Lansing [4]	878	5	90	985.8	1,017.3	+1.0	83	58	70.8	+1.5	98	27	46	6	32	12	57	66	1.86	-1.0	1.58	8	5	.0	.0	6.9	nw.	26	nw.	11	11	14	6	4.6	72
Marquette	734	44	73	989.2	1,016.3	+.4	74	58	66.0	+2.2	101	24	48	9	27	78	56	72	2.10	-.6	.97	8	6	.0	.0	7.4	w.	29	sw.	23	8	13	10	5.5	63
Sault Sainte Marie [2]	614	10	52	993.6	1,015.9	.0	75	55	64.8	+4.0	93	27	44	31	32	88	57	80	1.76	-.9	1.10	10	4	.0	.0	8.7	nw.	29	nw.	1	10	11	10	5.2	69
Chicago [2]	673	5	38	992.9	1,017.3	+1.0	84	64	73.6	+2.0	98	24	50	6	28	2	60	67	2.50	-.5	.77	10	7	.0	.0	6.8	ne.	26	nw.	11	13	12	6	4.5	78
Green Bay	617	5	32	994.2	1,016.9	+1.3	82	59	70.5	+2.8	100	24	50	5	35	6	58	66	.96	-2.2	.29	8	6	.0	.0	6.7	se.	21	se.	23	12	9	10	4.9	72
Milwaukee [2]	681	33	66	992.6	1,017.3	+1.0	81	63	72.0	+4.4	100	24	53	5	26	3	60	69	.46	-2.2	.34	3	2	.0	.0	10.4	sw.	30	sw.	24	10	14	7	4.9	62
Duluth [4]	1,133	5	47	974.9	1,015.9	+.7	76	57	66.8	+4.2	94	24	50	3	26	47	56	76	1.23	-2.0	.73	9	4	.0	.0	8.7	ne.	25	nw.	15	15	10	6	4.1	73
NORTH DAKOTA									70.0	+4.0								63	.76	-1.4														4.7	
Fargo [2]	940	5	47	980.0	1,013.9	-.3	82	57	70.0	+3.9	100	24	47	1	39	16	58	69	.79	-2.1	.25	9	7	.0	.0	10.4	s.	44	n.	16	11	11	9	5.0	62
Bismarck [2]	1,677	5	41	953.9	1,013.2	-1.0	86	56	71.0	+4.3	98	16	43	1	41	22	56	64	1.18	-.6	.50	6	7	.0	.0	9.7	se.	33	nw.	13	14	10	7	4.6	68
Devils Lake	1,478	11	44	961.4	1,014.2	+.3	82	55	68.4	+3.6	94	19	46	4	38	34	55	62	.63	-1.8	.23	7	5	.0	.0	7.2	se.	26	ne.	13	13	12	6	4.4	78
Williston	1,878	42	50	946.2	1,011.5	-1.7	84	57	70.4	+4.3	98	19	43	3	41	12	52	56	.46	-1.0	.28	5	9	.0	.0	6.8	se.	25	ne.	22	12	12	7	4.8	87
UPPER MISSISSIPPI																																			
Minneapolis-St. Paul [2]	919	43	74	982.4	1,015.2	+.6	83	62	74.8	+2.3	98	24	49	5	35	6	60	70	1.76	-1.5														4.8	
La Crosse [2]	672	5	29	990.2	1,015.9	+.7	86	60	72.7	+2.8	104	24	45	5	40	16	58	68	3.37	+.2	2.16	10	5	.0	.0	9.2	se.	38	se.	9	14	10	7	4.3	70
Madison [2]	974	27	39	982.4	1,017.3	+1.7	85	60	72.8	+3.4	98	24	46	5	37	4	58	65	1.00	-2.7	.59	7	6	.0	.0	7.4	s.	25	sw.	23	14	10	7	4.4	74
Charles City	1,015	10	51	980.7	1,016.9	+1.0	84	62	72.4	+4.3	99	23	48	5	33	12	----	--	1.53	-2.0	.46	9	7	.0	.0	7.8	sw.	26	sw.	24	11	13	7	4.8	75
Moline [2]	606	6	50	994.9	1,017.3	+1.4	85	63	73.6	+1.9	95	24	49	6	32	4	63	71	2.83	-.7	1.29	8	5	.0	.0	5.7	s.	20	s.	23	15	9	7	4.5	65
Des Moines [4]	860	5	99	------	1,016.3	+1.4	87	66	76.3	+3.2	100	23	52	5	31	1	64	72	1.54	-2.0	.61	11	9	.0	.0	6.1	e.	35	ne.	29	11	11	9	5.0	78
Dubuque	699	60	79	991.5	1,016.6	+.7	84	64	74.2	+2.5	97	24	52	6	31	0	62	72	3.17	-.1	.95	7	8	.0	.0	7.8	se,	26	w.	11	13	10	8	4.6	71
Burlington [2]	702	4	36	991.5	1,016.6	+1.4	87	63	74.9	+.9	101	23	50	6	32	2	64	76	2.50	-1.0	1.57	6	3	.0	.0	4.3	s.	23	n.	29	11	12	8	5.0	78
Cairo	357	5	99	1,003.4	1,015.9	+.3	90	69	79.4	+.6	98	24	60	5	27	0	----	--	.85	-2.2	.38	6	4	.0	.0	6.9	s.	28	n.	30	9	12	10	5.2	79
Peoria [2]	609	7	26	995.3	1,016.9	+.3	86	63	74.3	+1.2	95	24	51	5	31	4	62	70	.81	-2.3	.38	6	5	.0	.0	5.6	ne.	33	e.	29	13	13	5	4.5	82
Springfield, Ill. [4]	636	5	191	993.9	1,016.9	+1.0	86	63	74.8	+2.6	94	22	50	6	30	3	64	72	2.03	-1.1	1.01	5	5	.0	.0	6.4	sw.	29	ne.	29	11	10	10	5.1	81
St. Louis [4]	568	33	59	996.6	1,015.9	+.3	88	70	79.0	+1.5	99	23	59	5	29	0	----	66	.84	-2.1	.56	4	4	.0	.0	7.3	e.	42	n.	30	12	9	10	5.0	81
MISSOURI VALLEY									76.3	+2.9								73	3.16	-.2														4.5	
Columbia, Mo. [4]	784	6	66	988.5	1,016.3	+2.4	88	67	77.1	+.8	98	23	55	5	28	0	66	78	4.60	+1.0	1.79	8	7	.0	.0	5.1	s.	19	w.	27	11	13	7	4.9	68
Kansas City [2]	963	38	76	981.7	1,015.2	+.6	89	70	79.2	+8.4	100	22	57	5	29	0	66	65	2.71	-.8	1.27	7	5	.0	.0	8.1	sw.	25	ne.	2	10	14	7	4.8	64
St. Joseph [2]	967	5	51	981.4	1,015.6	+1.4	88	67	77.6	+1.1	100	22	53	5	31	1	67	78	4.36	+.5	3.08	8	9	.0	.0	6.1	s.	29	se.	12	16	6	9	4.4	59
Springfield, Mo. [2]	1,324	5	50	969.9	1,016.6	+1.0	85	65	75.0	.0	95	22	56	5	29	1	68	84	2.04	-2.0	1.03	9	7	.0	.0	7.7	s.	26	ne.	2	10	7	14	5.6	76
Topeka [4]	987	65	87	980.7	1,015.6	+2.4	90	69	79.5	+3.3	102	22	57	5	29	0	67	76	1.88	-2.2	1.13	5	5	.0	.0	7.2	s.	28	nw.	10	9	15	7	5.2	--
Lincoln [4]	1,189	6	81	972.6	1,014.6	+.7	89	67	77.8	+3.4	103	22	55	5	31	5	63	70	3.55	.0	1.12	9	9	.0	.0	8.3	s.	41	nw.	13	16	9	6	4.2	77
Norfolk, Nebr [2]	1,551	5	38	960.0	1,014.6	-----	86	63	74.8	+1.7	101	29	52	5	35	12	62	70	3.42	+.3	1.38	8	8	.0	.0	----	s.	--	------	--	16	10	5	3.8	--
Omaha [2]	1,105	5	68	976.0	1,014.9	+.3	88	66	76.9	+3.7	100	23	52	5	29	3	64	72	3.48	+.4	1.14	9	8	.0	.0	9.9	s.	44	nw.	13	18	9	4	3.9	74
Valentine	2,598	46	54	923.8	1,013.9	-.7	88	60	74.2	+2.5	104	29	47	4	44	11	54	60	2.70	+.5	1.40	8	7	.0	.0	7.8	s.	35	n.	12	16	11	4	4.1	83
Sioux City [2]	1,138	5	40	973.9	1,014.2	0	86	63	74.8	+3.7	100	23	47	5	31	10	64	73	3.53	+.4	1.59	10	7	.0	.0	8.5	s.	31	nw.	10	18	6	7	4.0	75
Huron [2]	1,301	5	41	967.8	1,013.9	-.3	86	59	72.3	+2.9	101	23	46	1	39	18	61	74	2.48	.0	1.12	8	6	.0	.0	10.2	se.	30	se.	19	13	8	10	4.9	71
NORTHERN SLOPE									68.7	+1.9								52	1.25	+.2														4.5	
Billings [2]	3,570	16	39	890.6	1,011.5	-2.7	87	57	72.0	+1.4	106	18	50	21	42	1	44	40	.48	-----	.19	8	8	.0	.0	8.3	w.	59	nw.	19	18	10	3	3.9	82
Butte	5,533	44	58	831.4	1,016.3	-----	77	42	59.2	-1.5	89	29	36	21	47	177	42	58	1.58	+.7	.65	10	12	.0	.0	----	s.	--	------	--	14	9	8	4.7	--
Glasgow	2,086	34	53	938.7	1,011.5	-----	89	56	72.8	+4.2	107	18	46	21	44	1	49	47	.88	-.4	.48	8	7	.0	.0	----	e.	--	------	--	14	13	4	4.1	--
Great Falls [2]	3,657	16	75	888.3	1,012.5	-----	82	56	68.6	+1.5	95	18	47	7	33	13	43	44	.50	-.7	.13	6	6	.0	.0	4.8	sw.	38	sw.	24	13	14	4	4.3	88
Havre	2,507	11	67	924.8	1,012.2	-1.7	86	55	70.2	+4.8	99	18	48	21	41	2	44	43	.28	-.9	.13	4	4	.0	.0	7.9	w.	34	sw.	4	16	13	2	4.0	85
Helena [2]	4,124	5	43	873.7	1,013.2	-1.0	81	50	65.6	+1.0	94	15	42	21	43	39	47	55	1.02	+.2	.63	6	12	.0	.0	7.5	w.	38	w.	23	13	14	4	4.5	76
Missoula [2]	3,263	4	32	901.8	1,014.2	0	80	48	64.2	.0	94	29	41	20	44	67	46	58	.24	-.5	.12	6	7	.0	.0	6.2	nw.	27	nw.	10	9	13	9	5.5	69
Kalispell	2,973	48	56	911.6	1,013.2	-.7	75	50	62.3	-.5	85	18	43	7	36	104	50	67	2.33	+1.5	1.50	8	8	.0	.0	5.5	w.	24	sw.	23	8	15	8	5.4	81
Miles City [2]	2,371	5	28	929.6	1,011.9	-2.0	89	59	74.0	-----	105	30	49	3	44	1	49	46	.69	-----	.29	5	8	.0	.0	----	se.	--	------	--	17	7	7	4.2	--
Rapid City [2]	3,259	5	56	901.8	1,013.2	-1.4	86	58	71.6	+2.1	102	30	48	3	42	18	52	58	3.06	+1.4	1.31	8	11	.0	.0	11.8	se.	60	sw.	13	12	12	7	4.8	70
Cheyenne [2]	6,094	22	40	816.1	1,013.9	-.7	82	53	67.4	+1.8	90	16	46	21	42	23	42	50	.86	-.7	.22	12	10	.0	.0	9.1	w.	35	w.	22	6	18	7	5.5	61
Lander [2]	5,352	6	30	837.1	1,013.2	-.7	86	53	69.2	+3.7	94	30	44	9	40	7	38	39	.26	-.3	.16	3	6	.0	.0	8.6	sw.	43	sw.	23	20	7	4	3.8	76
Sheridan [2]	3,790	5	38	884.2	1,018.6	+2.7	87	54	70.2	+3.7	101	30	46	21	48	6	45	48	1.06	+.2	.29	8	11	.0	.0	7.1	s.	56	nw.	19	16	9	6	3.9	75
North Platte [4]	2,821	11	51	917.0	1,013.5	-.7	88	60	73.9	+3.1	100	19	49	4	37	11	60	70	4.25	+1.9	1.52	9	12	.0	.0	6.1	s.	24	ne.	12	11	16	4	4.7	72

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS, AUGUST 1948—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	Extremes: Greatest daily range	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Days with 0.01 inch or more	Days with thunderstorms	Total snowfall (unmelted)	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	Partly cloudy	Cloudy	Average cloudiness, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.		°F.		°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	0-7	8-10	0-10	
MIDDLE SLOPE									77.0	+.5								66	2.45	-.1														4.5	
Denver [4]	5,292	106	113	840.5	1,013.5	-1.1	87	61	74.0	+3.3	94	31	55	14	33	2	44	44	.19	-1.2	.06	5	9	.0	.0	7.3	s.	28	se.	21	5	22	4	5.2	69
Pueblo [2]	4,690	5	36	858.8	1,013.9	+.4	88	58	73.2	+.5	96	19	49	26	42	0	52	59	3.01	+1.2	1.05	6	11	.0	.0	6.6	nw.	30	w.	13	11	15	5	4.4	78
Concordia	1,392	50	58	966.1	1,014.6	+.7	89	68	78.3	+1.8	102	17	55	5	30	0	62	66	.57	-2.3	.38	7	9	.0	.0	8.0	s.	19	sw.	22	18	9	4	3.6	72
Dodge City [2]	2,509	5	58	928.5	1,014.2	+.3	87	64	75.4	-2.3	98	23	56	4	33	4	62	70	3.61	+.9	.91	11	11	.0	.0	13.2	se.	49	nw.	2	16	7	8	4.2	68
Wichita [2]	1,358	52	64	967.5	1,014.9	+1.4	88	68	78.0	-.3	98	21	57	5	27	0	66	73	2.72	-.4	.98	8	6	.0	.0	10.9	s.	38	ne.	15	15	6	10	4.9	69
Oklahoma City [4]	1,214	10	47	972.2	1,014.6	+.7	92	71	81.4	+1.7	102	20	60	5	27	0	66	68	1.63	-1.3	.71	7	5	.0	.0	7.1	s.	17	se.	6	17	11	3	3.8	78
Tulsa [2]	674	10	60	991.2	1,014.9	-----	83	69	78.6	-1.5	96	20	59	5	25	0	70	82	5.43	+2.2	2.18	12	10	.0	.0	7.7	se.	45	n.	12	12	10	9	5.2	62
SOUTHERN SLOPE									82.2	+1.8								54	1.68	-.6														3.7	
Abiline [2]	1,755	4	59	953.6	1,012.5	-.7	98	72	84.8	+4.5	105	12	63	30	32	0	60	52	.37	-1.9	.29	3	7	.0	.0	11.7	s.	36	se.	25	16	13	2	3.6	84
Amarillo [2]	3,604	5	42	891.2	1,013.6	-.3	90	63	76.2	+1.6	96	10	58	24	34	0	58	60	5.16	+2.1	1.61	12	11	.0	.0	12.0	s.	34	e.	1	13	14	4	4.2	77
Del Rio	960	63	71	979.0	1,011.2	-1.0	97	75	86.4	+2.2	100	8	69	25	30	0	64	54	.39	-1.3	.37	2	1	.0	.0	8.2	se.	26	se.	1	19	12	0	3.1	87
Roswell	3,614	6	29	892.3	1,012.5	-.4	94	64	78.6	+2.0	100	20	58	19	37	0	54	51	1.03	-1.1	.49	6	14	.0	.0	7.4	se.	38	sw.	10	14	14	3	3.9	80
Wichita Falls	1,030	4	49	977.7	1,013.2	-----	97	72	84.8	-1.1	106	20	61	5	32	0	62	54	1.45	-.7	1.27	3	6	.0	.0	-----	-----	--	-----	--	16	12	3	3.5	---
SOUTHERN PLATEAU									81.8	+2.4								43	.96	-.6														3.8	
El Paso [2]	3,916	35	85	886.6	1,010.5	-.7	94	70	82.2	+4.2	100	10	61	2	29	0	52	40	1.82	+.1	.74	4	6	.0	.0	9.1	se.	54	n.	29	19	10	2	3.2	88
Albuquerque [2]	5,314	5	45	840.5	1,011.9	+1.1	92	64	77.6	+3.7	96	28	59	27	34	0	50	46	.51	-.7	.29	9	14	.0	.0	7.8	nw.	31	sw.	11	19	9	3	3.7	76
Flagstaff	6,907	34	48	795.5	1,017.6	+7.1	82	49	65.5	+1.5	91	29	37	25	45	28	44	53	2.10	-.6	.80	8	10	.0	.0	-----	nw.	--	-----	--	8	12	11	5.5	---
Phoenix [4]	1,107	39	87	971.2	1,008.8	.0	104	78	88.5	+2.9	113	29	72	28	39	0	58	36	.25	-.7	.20	3	5	.0	.0	6.4	e.	26	e.	29	17	11	3	3.5	89
Tucson [2]	2,555	5	39	924.8	1,010.5	+2.0	99	72	85.2	+1.0	106	28	67	27	37	0	59	46	1.08	-1.3	.65	5	13	.0	.0	6.6	se.	30	sw.	6	9	17	5	5.0	78
Yuma	142	9	54	1,003.1	1,007.8	-.3	107	76	91.8	+1.4	116	29	69	26	42	0	61	39	T	-.5	T	0	0	.0	.0	5.2	s.	16	s.	30	27	4	0	1.6	96
MIDDLE PLATEAU									69.6	+.7								35	.52	-.2														2.6	
Ely [2]	6,262	8	41	811.0	1,014.2	-----	84	44	64.4	+3.1	90	31	31	24	50	65	28	26	.26	-.8	.18	3	4	.0	.0	12.9	s.	39	s.	22	25	5	1	2.2	94
Reno [2]	4,527	20	52	862.5	1,013.5	+1.0	88	43	65.2	-.5	95	28	38	14	53	36	36	38	.08	-.1	.05	2	1	.0	.0	7.8	s.	28	w.	9	27	3	1	1.7	95
Winnemucca	4,339	5	56	867.3	1,011.9	-1.3	90	48	68.6	-.7	98	29	42	12	51	10	34	31	T	-.2	T	0	1	.0	.0	7.1	sw.	24	sw.	7	24	7	0	1.7	95
Modena	5,473	10	46	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Salt Lake City [2]	4,357	32	58	866.9	1,011.2	-1.0	91	60	75.6	+2.8	99	29	46	25	40	4	42	34	.49	-.4	.28	4	6	.0	.0	12.0	se.	45	w.	3	23	7	1	2.6	85
Grand Junction [2]	4,602	5	26	861.5	1,014.2	+.7	89	60	74.4	-1.0	97	1	51	26	40	0	46	44	1.78	+.6	.90	11	13	.0	.0	8.9	e.	31	sw.	7	11	14	6	4.6	73
NORTHERN PLATEAU									66.7	-1.2								53	.35	-.3														4.4	
Baker [4]	3,471	36	54	895.4	1,014.9	-.3	79	47	63.2	-1.4	91	29	37	20	43	78	48	64	.66	+.2	.35	5	6	.0	.0	5.6	se.	22	sw.	15	13	10	8	4.5	85
Meacham [2]	4,056	7	28	877.8	1,016.6	-----	73	46	59.5	-----	83	29	36	5	35	178	46	65	.74	-----	.22	7	6	.0	.0	-----	nw.	--	-----	--	15	8	8	4.5	---
Boise [2]	2,739	5	49	917.7	1,011.9	-1.0	86	54	70.4	-.6	95	3	44	24	39	16	42	38	.05	-.1	.05	1	0	.0	.0	8.8	nw.	27	w.	19	18	9	4	3.6	82
Burley [2]	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Lewiston	1,436	4	23	962.8	1,013.5	-----	83	54	68.8	-----	94	29	46	20	40	9	49	53	.15	-----	.07	4	3	.0	.0	-----	e.	--	-----	--	16	6	9	4.5	---
Pocatello [2]	4,478	5	31	863.2	1,012.9	.0	87	54	70.2	+1.3	96	29	43	21	47	7	39	35	.34	-.2	.13	5	7	.0	.0	9.2	s.	31	w.	10	20	10	1	3.0	82
Ellensburg [2]	1,735	5	58	953.3	1,014.6	-----	79	52	65.4	-1.4	90	2	42	16	40	45	48	58	.48	+.3	.23	6	10	.0	.0	-----	nw.	--	-----	--	13	14	4	4.4	---
Lacrosse	1,544	5	43	959.0	1,013.5	-----	82	50	65.7	-----	93	3	41	31	46	33	48	54	T	-----	T	0	5	.0	.0	-----	sw.	--	-----	--	12	13	6	4.7	---
Spokane [2]	1,929	6	51	945.8	1,014.2	+.3	78	52	65.2	-2.9	86	29	44	5	38	41	46	52	.27	-.4	.26	2	1	.0	.0	7.7	sw.	29	sw.	15	9	12	10	5.5	77
Walla Walla	991	57	65	978.7	1,013.9	+.4	83	59	71.0	-1.7	94	3	52	5	33	1	-----	-----	.39	-.1	.27	5	2	.0	.0	5.4	s.	19	w.	4	14	8	9	4.5	68
Yakima [2]	1,076	4	54	975.6	1,014.2	.0	84	51	67.6	-1.6	95	3	41	5	41	22	50	57	.44	+.1	.27	3	5	.0	.0	-----	nw.	--	-----	--	10	14	7	4.9	---
NORTH PACIFIC COAST									63.0	-.9								73	1.76	+1.0														6.8	
Kelso [2]	750	38	76	-----	-----	-----	71	52	61.4	-----	82	28	41	5	28	116	55	81	3.14	-----	1.10	13	1	.0	.0	-----	s.	--	-----	--	1	4	26	8.4	---
North Head	211	5	55	1,010.2	1,017.6	-.7	64	55	59.8	+2.2	68	16	53	3	13	160	56	89	2.72	+1.7	.69	17	1	.0	.0	9.8	nw.	34	s.	29	1	7	23	8.1	30
Seattle [4]	125	90	321	1,012.2	1,016.9	-.4	70	56	63.0	-2.1	80	28	53	8	22	74	55	78	1.44	+.7	.28	15	0	.0	.0	7.9	s.	24	s.	26	1	13	17	7.4	21
Tacoma	194	172	201	1,010.2	1,016.9	-.4	69	56	62.4	-.2	75	28	52	14	21	86	-----	-----	2.26	+1.5	.51	12	2	.0	.0	7.8	sw.	29	s.	15	4	10	17	7.3	28
Tatoosh Island	86	5	61	1,013.9	1,016.9	-1.1	60	52	55.8	+.5	65	29	47	8	13	289	54	94	5.06	+3.0	1.62	21	0	.0	.0	10.9	s.	40	s.	29	1	2	28	8.8	14
Burns	4,162	35	47	873.7	1,014.6	-----	81	45	63.1	-1.5	91	3	33	24	48	93	39	44	.17	-.1	.11	3	6	.0	.0	-----	n.	--	-----	--	14	11	6	4.1	---
Eugene [2]	433	4	35	1,003.4	1,016.9	-----	77	51	64.3	-----	88	28	42	20	42	44	54	72	.56	-----	.24	9	0	.0	.0	-----	n.	--	-----	--	4	10	17	6.5	---
Medford [2]	1,329	29	58	968.5	1,015.6	+1.7	83	52	67.7	-3.4	95	1	45	16	40	11	51	58	.16	.0	.16	1	1	.0	.0	-----	nw.	--	-----	--	18	11	2	3.3	---
Portland, Oreg. [4]	154	68	106	1,011.9	1,017.6	+1.0	74	57	65.8	-.9	85	28	50	5	28	17	55	72	1.55	+.9	1.01	9	0	.0	.0	5.0	nw.	15	n.	6	1	10	20	7.6	48
Roseburg	510	45	76	998.6	1,016.9	+1.0	79	54	66.3	-1.7	90	28	47	5	40	26	53	69	.54	+.2	.41	3	0	.0	.0	4.4	n.	15	n.	6	3	18	10	6.4	53
MIDDLE PACIFIC COAST									67.1	+1.5								65	.8	T														3.6	
Eureka	60	72	88	1,016.3	1,018.6	+1.3	62	54	58.0	+2.0	69	16	49	5	19	215	54	87	.13	.0	.12	2	0	.0	.0	5.9	nw.	21	nw.	19	6	11	14	6.4	44
Red Bluff [2]	353	5	26	999.7	1,012.2	-----	93	63	77.9	-1.8	102	1	56	23	36	0	48	37	.19	+.1	.19	2	1	.0	.0	6.8	se.	20	se.	21	27	1	3	2.0	94
Sacramento [4]	66	92	115	1,010.5	1,012.5	+.6	88	57	72.8	-.1	98	1	53	11	42	0	52	57	.00	.0	.00	0	0	.0	.0	7.6	s.	20	sw.	21	29	1	1	1.0	96
San Francisco [4]	155	112	132	1,009.5	1,015.2	+1.0	65	54	59.6	+.5	74	28	52	12	18	168	53	80	.02	.0	.02	2	0	.0	.0	10.6	w.	24	w.	30	11	13	7	4.9	65
SOUTH PACIFIC COAST									72.7	-.7								60	T	.0														2.5	
Fresno [2]	327	5	34	1,000.3	1,011.5	+.7	97	60	78.8	-.7	104	2	55	24	42	0	52	44	.00	.0	.00	0	0	.0	.0	6.7	nw.	22	nw.	7	29	2	0	1.2	100
Los Angeles	338	236	263	-----	-----	-----	83	60	71.2	+.1	95	30	56	29	32	0	-----	-----	T	.0	T	0	0	.0	.0	5.1	w.	17	w.	23	26	5	0	2.3	81
San Diego [2]	87	20	55	1,010.5	1,013.5	+.6	75	62	68.2	-1.6	81	30	60	9	21	0	59	75	.00	.0	.00	0	0	.0	.0	5.9	w.	15	nw.	23	13	18	0	3.9	71
ALASKA																																			
Anchorage [2]	132	6	44	1,008.8	1,013.9	-----	63	43	53.2	-2.4	70	11	31	24	30	363	45	74	1.86	-.7	.47	15	0	.0	.0	5.8	s.	31	s.	21	1	8	22	7.7	---
Annette Island	113	5	53	1,009.8	1,013.9	-----	65	52	58.4	-.2	79	14	43	25	23	212	51	80	5.60	+1.2	1.19	12	0	.0	.0	6.4	nw.	--	-----	--	6	10	15	6.4	---
Barrow	29	5	27	1,011.9	1,009.1	-----	41	31	36.0	-2.2	58	3	23	30	21	900	34	92	.78	.0	.36	14	0	.5	T	11.7	nw.	35	nw.	27	0	1	30	8.9	---
Bethel [2]	28	5	31	1,012.9	1,014.2	-----	56	45	50.4	-2.0	67	12	34	25	25	451	46	86	3.14	-.9	.79	22	0	.0	.0	8.0	s.	35	sw.	21	1	3	27	8.8	---
Cordova [2]	45	5	32	1,011.5	1,011.5	-----	62	42	51.6	-.5	74	12	30	25	34	418	47	86	4.29	-6.7	.90	18	0	.0	.0	-----	e.	--	-----	--	3	8	20	7.4	---
Fairbanks [2]	455	5	63	996.3	1,013.5	-----	60	40	50.2	-4.9	76	12	23	24	37	459	43	76	3.51	+1.5	.93	15	0	T	.0	6.7	sw.	22	sw.	27	3	6	22	7.5	---
Galena	139	4	66	1,007.1	1,011.9	-----	57	44	50.5	-1.7	72	13	30	24	28	449	42	72	2.84	-.1	1.13	13	0	T	.0	-----	sw.	30	sw.	27	2	6	23	8.0	---
Gambell	32	5	32	1,011.9	1,012.9	-----	46	40	43.4	-2.2	55	12	35	28	12	670	40	90	1.67	-.4	-----	14	-----	.0	.0	14.0	sw.	38	ne.	21	1	3	27	9.0	---
Juneau [2]	80	6	30	1,012.5	1,013.5	-----	64	43	53.4	+.6	75	15	27	25	32	360	45	74	3.39	-1.3	1.04	13	0	.0	.0	6.2	n.	26	se.	30	4	10	17	6.7	---
Kotzebue [2]	20	5	31	1,012.2	1,012.9	-----	52	42	47.3	-2.6	70	13	31	31	21	549	42	84	2.28	+.6	1.36	11	0	.0	.0	13.4	nw.	34	w.	27	4	3	24	8.0	---
McGrath [2]	341	5	31	1,001.4	1,014.2	-----	58	42	50.0	-2.9	73	12	28	24	45	465	44	78	3.27	-.2	1.26	18	0	T	.0	-----	s.	21	s.	2	3	2	26	8.0	---
Nome [2]	22	10	75	1,012.9	1,013.5	-----	50	39	44.8	-4.7	66	12	31	26	27	624	42	89	2.69	-.5	.60	14	0	.0	.0	11.8	sw.	33	nw.	29	3	5	23	8.0	---
Northway [2]	1,718	5	32	950.9	1,013.9	-----	61	40	50.0	-2.3	78	15	22	25	33	462	40	71	1.51	-.9	.49	11	0	1.8	.0	6.8	nw.	24	w.	17	1	6	24	8.1	---
HAWAII																																			
Honolulu [4]	38	86	98	1,014.6	1,015.9	-----	84	75	79.2	+.8	86	21	70	4	12	0	68	69	.85	-.4	.47	9	1	.0	.0	9.4	e.	22	e.	19	5	15	11	64 6	.3

[1] Height of barometer cistern above mean sea level on January 1, 1900, or when station was first established since January 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; remainder from city office records.

[6] Bihourly hygrometric data.

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