CLIMATOLOGICAL DATA FOR MARCH 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	59.8	+3.8	Ozark	89	20	Valley Head	19	13	9.58	+3.84	Lockhart	15.22	Waterloo	6.08
Arizona	46.0	−5.3	Gould's Ranch	86	23	Alpine	−25	4	.87	−.19	Tonto Creek Fish Hatchery.	3.68	Maricopa	.08
Arkansas	50.6	−1.9	2 stations	89	[1] 20	2 stations	−14	12	5.72	+.96	Fordyce	11.48	Green Mountain	.96
California	47.0	−4.2	2 stations	88	[1] 28	2 stations	−14	20	4.06	+.45	Squaw Creek Guard Station.	17.75	4 stations	.00
Colorado	27.9	−6.6	Yuma	82	30	Taylor Park	−42	12	1.80	+.47	Wolf Creek Pass	10.55	Olathe	.07
Florida	69.8	+4.4	Ft. Lauderdale	94	24	Niceville	30	29	6.94	+3.60	Monticello	21.14	Lake Trafford	.04
Georgia	58.8	+2.5	Several	90	21	Blairsville	15	13	8.96	+3.86	Valdosta	15.94	Milledgeville	5.35
Idaho	32.1	−3.6	Bliss	72	25	Island Park Dam	−28	[1] 5	1.70	−.07	Roland	6.90	May	.04
Illinois	40.9	−.1	Sparta	85	20	Jacksonville	−14	12	5.06	+1.85	Hardin	9.11	Dixon	2.30
Indiana	42.3	+1.4	3 stations	84	[1] 20	Frankfort	−16	12	4.84	+1.08	Jeffersonville	8.28	Rochester	1.55
Iowa	32.5	−3.2	4 stations	77	[1] 24	Sibley	−30	11	2.64	+.93	Keokuk	5.22	Alton	.31
Kansas	36.9	−6.5	2 stations	82	[1] 20	3 stations	−25	11	2.73	+1.23	Garnett	7.41	Goodland	.73
Kentucky	49.8	+2.3	Ashland	87	21	2 stations	8	[1] 12	6.24	+1.49	Murray	8.64	Pikesville	3.97
Louisiana	61.6	+1.1	Franklin	94	[1] 21	Plain Dealing	17	12	8.12	+3.19	New Orleans	21.09	DeRidder	.39
Maryland-Delaware.	46.6	+3.7	2 stations, Md	91	21	2 stations, Md	4	5	3.84	+.26	2 stations, Md	5.34	2 stations, Md	2.53
Michigan	29.3	−.6	Benton Harbor	72	26	2 stations	−39	11	3.32	+1.22	Lowell	7.14	White Pine	.53
Minnesota	23.2	−3.5	Winona	73	25	Itasca State Park	−44	10	1.09	−.12	Pigeon River Bridge	3.27	Albert Lea	.21
Mississippi	58.4	+1.4	Eupora	93	25	Hernando	18	12	8.85	+2.93	Biloxi	15.96	Vicksburg	3.64
Missouri	42.5	−1.5	Greenville	87	25	2 stations	−17	[1] 11	4.78	+1.52	New Madrid	8.39	Bethany	1.96
Montana	26.5	−4.7	Townsend	69	29	Summit	−41	10	.84	−.13	Summit	4.26	Opheim, No. 2	.02
Nebraska	32.1	−4.4	North Loup	84	24	Nenzel (near)	−32	11	1.05	−.07	Wymore	4.70	Burwell	.16
Nevada	35.7	−4.8	Overton	79	[1] 26	2 stations	−11	[1] 5	.78	−.20	Marlette Lake	4.00	3 stations	.00
New England	32.0	−.4	Westbrook, Conn	76	22	2 stations	−32	6	3.19	−.41	Somerset, Vt	5.67	East Ryegate, Vt	1.29
New Jersey	42.0	+2.6	6 stations	86	21	Layton	−12	6	3.57	−.24	Paterson	5.44	Millville	2.20
New Mexico	38.1	−5.5	Carlsbad	86	15	Eagle Nest	−32	5	.88	+.13	Batesmans Ranch	4.20	5 stations	.00
New York	32.9	+.6	Patchoque	77	22	Stillwater Reservoir	−29	12	3.51	+.44	Hoffmeister	7.07	Dannemora	1.46
North Carolina	53.3	+6.7	2 stations	93	[1] 21	Mount Mitchell	11	28	5.38	+1.16	Rock House	12.68	Manteo	1.52
North Dakota	17.6	−6.3	Mott	64	22	Langdon	−40	10	.45	−.34	Hillsboro	1.30	3 stations	T
Ohio	42.0	+3.0	Ironton	85	21	Mansfield	−20	12	4.83	+1.36	Shaker Heights	10.23	Mineral Ridge	2.27
Oklahoma	44.7	−6.0	3 stations	88	[1] 24	Kenton	−18	6	3.11	+.91	2 stations	7.16	2 stations	.59
Oregon	37.6	−3.3	Lake Creek	83	29	Joseph	−10	10	2.98	+.22	Valsetz	13.03	McNary Dam	.11
Pennsylvania	39.9	+2.1	Phoenixville	90	22	Albion	−18	12	3.71	+.20	Youngsville	7.49	Butler	1.54
South Carolina	57.4	+2.6	Sumter	90	21	Walhalla	17	13	7.36	+3.30	Walterboro	11.30	Batesburg	4.08
South Dakota	27.9	−3.4	Winner	85	24	4 stations	−29	[1] 10	.41	−.70	Victor	1.40	2 stations	T
Tennessee	52.4	+2.8	2 stations	85	20	Dover	14	13	7.09	+1.74	Monteagle	11.04	Greeneville	3.34
Texas	56.1	−2.4	2 stations	98	[1] 15	Spearman	−12	6	1.34	−.65	Naples	5.78	4 stations	.00
Utah	31.5	−6.8	4 stations	72	[1] 24	Moon Lake	−24	11	2.01	+.56	Alta	13.30	Callao	T
Virginia	49.0	+3.1	3 stations	90	21	Big Meadows	4	5	4.23	+.59	Pinnacles	8.68	Washington, Va	1.66
Washington	38.9	−2.7	2 stations	75	28	2 stations	−4	[1] 3	2.71	−.85	Denney Creek	13.32	Wilbur	.00
West Virginia	46.7	+4.2	Inwood	89	21	Terra Alta	0	5	4.30	+.39	Cranberry Glades	6.46	Hamlin	2.53
Wisconsin	28.1	−1.3	Ellsworth	73	25	Long Lake	−44	11	2.00	+.25	Williams Bay	4.58	Alma	.54
Wyoming	26.2	−3.7	Torrington (city)	75	24	Moran	−40	11	.72	−.41	Snake River	3.65	3 stations	T
Alaska (Feb.)	−3.4	−11.4	Radioville	54	27	Allakaket	−50	25	1.06	−.82	Latouche	10.46	Wainwright	.02
Hawaii	68.8	−.2	Mahukona	86	18	Haleakala Ranger Station.	35	14	12.61	+4.24	Kuki	89.00	Puako	.00
Puerto Rico	73.8	+.4	Ponce	94	[1] 11	Cayey (2)	51	1	1.61	−1.49	Rio Blanco	7.25	Potala	.00

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 1948

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.	Mb.	Mb.	Mb.	°F.	°F.	°F.		°F.	°F.		°F.	°F.		°F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
NEW ENGLAND							34.2	+1.2										77	3.36	−0.1											6.0			
Eastport	75	67	82	1,015.6	1,018.6	+5.7	27.8	−1.1	57	20	35	−6	5	21	31	1,151	22	76	2.80	−1.0	0.59	16	11.6	n.	40	e.	8	8	6	17	6.4	20.1	T	1
Portland, Maine [2]	103	6	43	1,014.6	1,018.3	+4.8	30.8	−.3	70	22	42	−13	6	20	45	1,060	24	78	2.63	−1.2	.79	11	9.4	s.	29	w.	22	10	5	16	5.7	15.5	0	0
Concord [2]	289	5	45	1,007.8	1,019.0	+4.8	31.0	+1.9	68	22	45	−13	1	17	49	1,050	21	73	2.25	−.8	.64	10	7.5	nw.	28	nw.	24	10	6	15	5.6	16.2	0	1
Burlington [2]	403	6	51	1,002.7	1,018.0	+3.1	27.7	−1.4	71	31	41	−20	6	15	49	1,156	20	76	1.99	.0	.53	16	11.0	s.	37	s.	16	9	7	15	6.3	12.4	0	2
Boston [2]	124	33	62	1,014.2	1,018.9	+4.7	38.0	+2.4	72	22	47	1	5	29	34	837	28	70	3.14	−.4	.89	13	12.9	sw.	36	sw.	19	10	8	13	5.7	11.8	0	1
Nantucket [2]	12	4	34	1,018.6	1,019.0	+5.1	37.3	+1.8	62	20	44	13	5	30	25	860	32	84	4.08	+.3	1.03	16	15.4	s.	40	sw.	16	7	11	13	6.5	1.8	0	3
Block Island	26	11	46	1,017.3	1,018.3	+3.7	36.9	+1.5	64	22	43	7	5	30	24	874	32	85	4.75	+.9	1.34	12	16.6	s.	38	n.	4	11	7	13	5.8	3.1	0	2
Providence [2]	159	65	60	1,012.9	1,019.0	+4.4	39.4	+3.7	75	22	48	5	5	31	33	793	27	73	3.73	+.2	.95	10	9.8	n.	38	sw.	20	10	7	14	5.9	8.7	0	1
Hartford [2]	159	5	44	1,013.2	1,019.3	+4.1	36.3	+1.3	75	22	47	−4	6	26	43	890	28	78	3.74	+.2	.97	15	9.6	s.	32	s.	19	8	8	15	6.1	11.8	0	2
New Haven [2]	107	5	39	1,015.2	1,019.3	+3.4	36.6	+2.1	74	22	46	1	6	28	32	878	28	76	4.48	+.7	1.01	2	7.5	n.	20	sw.	27	9	8	14	6.1	9.3	0	2
MIDDLE ATLANTIC							45.1	+4.1										73	3.86	+.4											6.4			
Albany [2]	97	6	40	1,014.9	1,018.6	+3.0	31.9	+2.1	70	31	44	−21	6	19	56	1,029	24	74	1.92	−.7	.69	12	10.5	w.	33	w.	24	7	9	15	6.6	12.3	0	1
New York [4]	314	415	454	1,007.8	1,019.6	+4.0	42.0	+4.3	73	22	51	8	3	33	29	714	30	69	3.71	+.1	1.04	14	15.7	n.	47	sw.	16	9	10	12	6.1	3.6	0	1
Harrisburg [2]	374	30	49	1,005.1	1,019.3	+2.7	43.0	+4.1	83	21	54	11	5	32	36	681	32	68	3.34	+.3	1.48	12	9.0	nw.	34	s.	16	8	6	17	6.7	.9	0	2
Philadelphia [4]	114	174	150	1,014.6	1,019.0	+2.4	44.8	+4.0	84	21	54	12	5	36	32	638	34	74	4.14	+.8	.91	14	9.0	s.	27	s.	16	9	6	16	6.4	2.2	0	1
Reading	323	47	306	1,006.8	1,019.0	+2.7	44.0	+3.4	80	21	54	11	5	34	32	655	----	---	3.94	+.4	1.07	13	12.8	se.	37	n.	4	8	9	14	6.5	.9	0	1
Scranton	805	72	104	988.8	1,018.6	+2.7	39.0	+3.3	71	22	49	0	6	29	39	805	----	---	3.54	+.3	.81	13	7.1	n.	29	sw.	16	8	9	14	5.9	7.8	0	0
Atlantic City	52	37	172	1,017.3	1,019.3	+3.0	42.0	+3.4	84	22	49	13	5	35	33	716	35	80	3.48	−.1	.78	13	17.6	n.	42	s.	16	8	7	16	6.7	T	0	3
Trenton	190	89	107	1,012.2	1,019.3	+3.4	43.2	+4.1	82	21	53	10	5	34	34	680	----	---	3.91	+.5	.12	14	10.7	s.	33	sw.	16	8	9	14	6.2	2.2	0	1
Baltimore [4]	123	100	215	1,014.6	1,019.0	+2.4	47.8	+5.5	89	21	57	16	5	38	31	562	35	70	3.85	+.1	.85	14	11.8	s.	41	s.	27	9	9	13	6.2	T	.0	2
Washington [4]	112	56	100	1,014.9	1,018.3	+1.7	48.9	+6.3	89	21	59	16	5	39	30	522	35	63	5.31	+1.5	1.88	15	8.8	s.	29	n.	27	9	8	14	6.2	.0	.0	2
Cape Henry	18	8	54	1,018.3	1,019.0	+2.4	51.0	+4.4	90	21	59	24	5	43	32	463	44	80	2.43	−1.4	.92	11	13.1	n.	38	n.	12	6	7	18	6.8	.0	.0	3
Lynchburg [2]	686	5	58	993.2	1,018.3	+1.0	49.6	+4.2	83	21	60	20	13	39	32	492	38	72	6.69	+3.2	2.41	16	9.5	s.	32	s.	27	5	9	17	6.6	T	.0	3
Norfolk [4]	91	80	125	1,016.3	1,019.6	+2.3	52.9	+4.7	88	22	62	24	5	44	32	415	42	76	2.82	−1.0	1.00	10	11.5	s.	29	n.	11	6	5	20	7.0	T	.0	2
Richmond [4]	144	11	52	1,013.2	1,018.3	+1.4	51.4	+4.2	86	22	62	19	5	41	33	451	40	76	4.98	+1.3	1.10	15	9.4	s.	34	sw.	27	7	9	15	6.2	T	.0	3
SOUTH ATLANTIC							57.4	+4.4										78	6.95	+3.2											6.8			
Asheville	2,253	77	92	943.8	1,019.0	+1.0	50.0	+5.1	83	20	60	22	13	40	34	473	40	78	4.41	+.4	1.07	13	10.7	se.	29	se.	31	6	9	16	6.9	1.0	.0	3
Charlotte [4]	779	63	86	990.5	1,019.0	+1.7	55.2	+4.8	85	20	65	27	13	45	31	334	42	72	6.78	+2.6	1.89	11	8.5	s.	26	sw.	27	4	10	17	7.1	.0	.0	3
Greensboro [2]	886	6	56	986.8	1,019.0	+2.4	52.5	+5.4	86	20	64	23	29	41	37	411	42	76	4.85	+.5	1.46	13	10.0	sw.	29	sw.	27	4	12	15	6.6	T	.0	4
Hatteras	11	5	47	1,019.0	1,019.3	+2.4	56.1	+4.1	73	27	62	33	5	50	24	301	50	82	2.97	−1.3	.90	11	15.5	ne.	34	ne.	12	4	4	23	7.9	T	.0	1
Raleigh [4]	376	5	71	1,004.7	1,018.6	+1.3	54.8	+4.6	88	20	66	25	13	44	33	352	43	77	4.88	+1.0	1.38	10	8.7	sw.	28	sw.	16	4	17	10	5.8	T	.0	1
Wilmington	72	73	107	1,018.3	1,019.6	+1.6	58.7	+5.4	83	20	67	29	6	50	27	233	50	80	4.75	+1.6	1.47	12	11.2	s.	34	s.	7	7	6	18	6.6	.0	.0	4
Charleston [4]	48	11	92	1,016.9	1,018.6	+.6	60.2	+2.8	84	20	67	34	13	53	24	187	52	84	8.29	+5.3	1.75	13	11.5	ne.	33	ne.	5	8	6	17	6.6	.0	.0	4
Columbia, S. C. [4]	347	70	91	1,005.8	1,018.6	+.6	58.6	+3.4	86	21	68	32	6	49	29	242	48	75	6.74	+3.3	1.87	13	9.4	s.	26	sw.	27	5	10	16	6.5	.0	.0	5
Greenville, S. C. [2]	1,040	18	36	980.7	1,018.0	+1.7	54.3	+4.4	81	20	64	28	6	45	33	352	43	74	8.38	+3.2	1.74	14	10.6	ne.	32	ne.	28	3	8	20	7.3	.0	.0	5
Augusta [4]	182	62	77	1,011.5	1,018.0	+.7	60.1	+4.1	88	21	70	32	6	50	31	207	47	71	9.15	+5.0	2.31	13	6.7	s.	22	w.	27	3	11	17	7.1	.0	.0	6
Savannah [2]	65	19	51	1,016.3	1,018.6	+.6	62.0	+4.9	84	21	70	38	30	54	31	153	54	82	9.70	+6.6	2.71	12	11.0	s.	31	sw.	27	6	6	19	6.8	.0	.0	3
Jacksonville [4]	43	86	110	1,016.9	1,018.3	.0	66.6	+4.0	86	21	74	40	29	59	23	78	58	82	12.52	+9.6	4.31	13	9.1	s.	43	ne.	31	7	5	19	6.8	.0	.0	7
FLORIDA PENINSULA							74.9	+5.0										79	1.99	−.2											4.7			
Key West [4]	21	10	64	1,016.6	1,017.3	.0	78.2	+5.6	86	24	83	58	30	73	23	0	68	77	1.89	+.5	1.33	6	10.9	se.	26	nw.	28	14	14	3	4.0	.0	.0	1
Miami [4]	25	242	249	1,016.9	1,017.6	−.7	74.7	+4.4	84	28	78	56	29	71	19	0	66	78	.71	−1.9	.23	7	16.2	se.	44	ne.	5	12	15	4	4.8	.0	.0	0
Tampa [2]	35	5	36	1,016.6	1,017.6	−.7	71.8	+5.0	87	20	80	44	29	63	29	15	63	83	3.37	+.9	1.04	11	10.0	se.	30	s.	31	9	14	8	5.3	.0	.0	3
EAST GULF							60.6	+2.9										78	10.75	+5.5											7.0			
Atlanta [2]	1,173	33	72	975.6	1,017.6	−.4	55.7	+3.7	85	20	66	28	13	46	32	320	46	76	10.19	+4.8	3.54	15	11.8	nw.	29	w.	23	5	8	18	7.0	.0	.0	7
Macon [4]	370	79	87	1,004.4	1,017.6	−.4	59.0	+2.3	84	20	69	32	13	49	36	226	47	72	7.53	+2.6	1.83	14	7.7	s.	23	sw.	27	4	8	19	7.3	.0	.0	9
Apalachicola	35	11	51	1,015.9	1,017.3	−.3	64.8	+3.2	78	23	71	42	13	59	21	73	60	86	13.48	+9.2	8.17	14	10.1	se.	33	e.	5	6	10	15	6.6	.0	.0	8
Pensacola [4]	56	54	79	1,014.6	1,016.9	−1.4	63.9	+3.6	82	31	70	36	13	58	29	114	58	84	16.53	+11.8	6.02	16	9.6	se.	32	se.	6	6	8	17	6.9	.0	.0	10
Anniston	618	6	32	998.6	1,018.0	.0	56.6	+2.5	84	20	68	27	13	46	39	303	46	76	8.61	+3.0	2.25	14	----	ne.	---	------	--	4	8	19	----	T	.0	7
Birmingham [2]	700	5	63	991.9	1,017.3	−1.0	57.2	+3.4	86	20	68	23	13	46	38	290	46	72	6.73	+1.0	1.81	12	11.4	s.	35	se.	6	6	8	17	6.9	.0	.0	5
Mobile [4]	57	86	161	1,014.6	1,016.6	−1.4	63.4	+3.7	82	31	71	33	13	56	30	132	55	82	11.48	+5.5	3.73	13	10.1	s.	25	sw.	16	3	8	20	7.4	.0	.0	6
Montgomery [4]	218	92	105	1,009.1	1,017.3	−1.0	60.9	+3.1	86	20	70	33	13	52	31	197	50	76	8.00	+2.0	2.33	13	8.5	s.	28	e.	2	6	9	16	6.8	.0	.0	5
Meridian [4]	375	67	92	1,002.7	1,016.3	−1.3	59.4	+2.3	85	21	69	27	13	50	36	233	50	75	10.66	+5.4	3.14	11	8.4	s.	26	sw.	16	7	5	19	6.9	.0	.0	5
Vicksburg [4]	247	82	102	1,006.8	1,015.6	−2.4	59.7	+1.2	87	20	69	27	12	50	33	236	47	74	3.90	−1.7	1.23	11	10.8	n.	27	s.	30	6	4	21	7.3	.0	.0	6
New Orleans	53	76	84	1,013.9	1,015.9	−1.7	65.3	+2.5	83	26	72	37	13	58	25	110	58	82	21.09	+16.4	10.93	11	8.3	se.	24	e.	5	2	9	20	7.3	.0	.0	7
WEST GULF							58.3	−1.7										72	2.15	−.8											6.9			
Shreveport [2]	249	5	64	1,005.8	1,014.9	−2.0	57.2	−1.2	83	31	68	20	12	47	34	293	45	70	3.39	−.7	1.56	13	11.8	s.	34	s.	19	5	11	15	6.8	T	.0	7
Fort Smith [2]	463	6	30	998.0	1,014.6	−1.7	49.4	−3.2	84	20	60	7	11	39	38	505	36	67	2.95	−.1	.86	7	10.1	ne.	35	sw.	19	12	2	17	6.2	1.2	.0	4
Little Rock [2]	357	26	58	1,002.4	1,015.6	−1.3	51.8	−1.2	84	19	61	17	12	42	33	431	41	69	6.43	+1.8	2.84	12	10.9	ne.	42	sw.	26	7	8	16	6.7	T	.0	9
Austin [2]	605	5	41	992.9	1,014.6	−.6	58.0	−2.7	90	30	70	18	12	46	41	286	44	66	1.35	−1.0	.49	10	12.0	s.	32	s.	18	6	6	19	6.9	T	.0	6
Brownsville [2]	57	5	54	1,010.2	1,012.2	−2.0	67.5	−.7	87	26	76	32	11	59	36	91	60	82	.57	−1.0	.41	5	12.7	se.	41	s.	15	2	7	22	8.1	T	.0	1
Corpus Christi [2]	20	6	33	1,012.9	1,013.5	−2.1	63.2	+.1	86	26	72	28	11	54	38	158	56	84	2.51	------	1.89	6	13.5	se.	38	s.	18	2	6	23	8.0	T	.0	1
Dallas [2]	512	34	45	995.9	1,014.9	−1.4	54.0	−3.4	85	30	65	12	11	43	34	380	39	62	2.83	−.1	1.69	7	12.6	s.	42	w.	30	11	6	14	5.7	T	.0	3
Fort Worth [2]	679	40	56	990.2	1,014.6	−1.3	52.8	−3.9	85	24	64	11	11	42	34	403	40	65	1.07	−1.2	.38	8	14.1	s.	44	w.	30	12	6	13	5.6	T	.0	4
Galveston [4]	54	122	129	1,012.9	1,014.9	−2.0	61.2	−1.2	77	31	66	31	12	56	25	176	55	85	1.40	−1.3	.81	9	13.6	e.	29	se.	18	5	9	17	7.2	0	.0	3
Houston [4]	138	157	190	1,009.5	1,014.6	−2.3	62.1	−1.2	85	31	70	24	12	54	30	191	54	79	1.64	−1.9	.96	8	12.1	n.	32	se.	18	6	6	19	7.0	0	.0	1
Palestine	510	64	72	997.0	1,015.2	−1.4	57.6	−1.5	86	30	68	16	12	47	40	298	43	64	1.44	−2.0	.67	9	9.3	s.	28	nw.	22	8	6	17	6.4	.1	.0	4
Port Arthur [4]	34	59	134	1,013.5	1,014.6	−2.0	62.4	+.5	81	19	70	28	12	55	26	165	54	81	1.82	−1.4	1.05	9	14.9	s.	35	s.	18	4	8	19	7.2	0	.0	3
San Antonio [2]	693	6	51	989.2	1,010.2	−5.4	60.4	−2.4	92	30	73	21	11	48	49	234	44	62	.59	−1.2	.32	9	10.7	ne.	45	nw.	22	4	4	23	7.5	T	0	3
OHIO VALLEY AND TENNESSEE							47.4	+4.3										72	5.74	+1.5											7.0			
Chattanooga [2]	762	6	66	989.8	1,017.6	−.4	54.7	+5.6	85	20	66	25	13	44	38	346	43	72	9.18	+3.4	2.54	14	10.1	s.	42	w.	31	3	11	17	7.1	T	.0	6
Knoxville [5]	995	27	71	981.4	1,017.3	−.3	54.2	+6.7	82	20	64	22	13	44	39	360	41	67	5.19	+.1	1.44	11	10.6	sw.	43	w.	31	5	8	18	7.2	T	.0	4
Memphis [2]	399	5	49	1,001.4	1,015.6	−2.0	52.4	+.5	83	19	62	20	12	43	34	424	44	74	8.21	+3.0	2.03	12	10.3	s.	30	s.	19	5	6	20	6.9	T	.0	8
Nashville [2]	546	5	72	997.0	1,016.6	−1.4	52.8	+3.6	83	20	64	21	13	42	35	405	41	72	6.49	+1.4	1.46	13	11.3	s.	43	sw.	19	5	10	16	7.0	T	.0	5
Lexington [2]	989	4	58	980.0	1,016.9	−.7	47.6	+3.9	78	21	57	12	12	38	34	548	37	74	7.06	+2.7	2.78	15	----	s.	---	------	--	6	7	18	6.8	T	.0	8
Louisville [2]	525	5	54	999.3	1,016.5	−.4	48.8	+4.7	82	20	59	15	12	38	34	509	36	66	7.15	+2.8	1.91	15	10.7	s.	44	sw.	19	4	12	15	7.0	T	.0	4
Evansville [2]	431	6	40	1,000.3	1,016.3	−1.3	46.9	+2.5	81	20	57	11	12	36	35	568	38	77	3.77	−.4	1.10	14	11.3	s.	50	sw.	19	4	6	21	7.3	.6	.0	4
Indianapolis [2]	823	5	54	985.8	1,016.3	−.3	41.2	+2.4	79	20	51	−5	12	31	36	738	32	76	6.32	------	2.01	17	12.5	sw.	52	sw.	19	5	6	20	6.9	5.6	.0	4
Terre Haute [2]	575	4	36	995.3	1,016.6	.0	42.6	+2.0	80	20	53	−4	12	32	38	696	34	78	4.89	+1.1	1.49	14	12.5	s.	55	w.	19	4	8	19	7.3	5.7	.0	4
Cincinnati [4]	627	135	148	993.6	1,016.6	−.7	47.4	+6.5	80	21	57	13	12	38	33	556	36	74	6.20	+2.3	1.82	12	5.6	se.	16	se.	19	7	6	18	6.7	.5	.0	7
Columbus [4]	822	90	110	986.8	1,016.9	.0	44.2	+5.1	77	21	54	7	12	35	33	648	33	74	3.86	+.4	1.23	13	11.7	s.	51	sw.	19	6	8	17	6.5	.8	.0	6
Dayton [2]	1,003	6	55	980.0	1,016.9	+.6	41.2	+2.5	77	21	51	−1	12	31	32	739	32	76	4.60	+.9	1.37	13	13.6	ne.	59	w.	19	7	5	19	6.8	3.8	.0	5
Elkins [2]	1,947	5	45	947.9	1,018.0	+.4	44.9	+5.8	78	21	57	11	5	32	47	624	34	76	5.47	+1.7	2.22	16	8.9	s.	35	w.	16	4	9	18	7.2	.1	.0	4
Parkersburg	637	77	84	993.9	1,017.3	−.3	48.3	+5.5	82	21	59	13	12	37	37	533	35	65	4.02	+.5	.79	12	8.2	se.	30	s.	19	6	8	17	6.8	T	.0	3
Pittsburgh [2]	842	39	54	986.1	1,016.9	+.3	43.9	+6.7	79	21	55	9	12	33	39	659	30	65	3.69	+.7	1.01	17	11.5	s.	47	w.	22	6	8	17	6.8	2.5	.0	4

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 1948—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Total degree days	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunderstorms
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	° F.	° F.	° F.		° F.	° F.		° F.	° F.		° F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
LOWER LAKES							35.0	+2.7										76	3.91	+1.2											6.6			
Buffalo [2]	768	34	96	988.8	1,017.6	+2.0	35.4	+3.8	69	26	45	0	12	25	42	940	26	76	3.24	+.7	1.07	14	14.8	sw.	54	sw.	16	5	12	14	6.6	4.2	0	4
Canton	448	10	61	1,000.7	1,017.3	+2.7	28.7	+1.1	71	31	40	−28	5	18	43	1,122	21	72	2.94	+.4	.90	14	9.5	sw.	35	w.	16	8	6	17	6.5	8.5	.0	3
Oswego	335	71	85	1,006.4	1,019.3	+3.7	33.2	+2.1	69	27	42	−3	6	25	43	987	22	68	3.88	+1.3	.92	16	10.9	se.	32	s.	19	4	12	15	6.8	15.6	.0	5
Rochester [2]	523	4	69	998.3	1,018.0	+2.1	34.1	+4.3	71	26	45	−3	6	24	44	958	26	79	2.91	+.2	.71	14	11.1	s.	46	sw.	16	7	8	16	6.7	12.0	.0	5
Syracuse [2]	596	5	57	995.9	1,018.6	+3.0	33.0	+3.3	73	27	45	−10	6	21	45	990	26	74	2.63	−.7	.57	15	11.6	s.	47	s.	19	4	9	18	7.1	12.5	.0	5
Erie [4]	714	57	81	990.9	1,017.6	+1.7	37.1	+3.6	72	19	45	5	12	29	31	863	28	80	4.71	+2.1	1.80	16	9.7	ne.	37	sw.	19	8	8	15	6.3	10.6	.0	3
Cleveland [2]	762	27	54	988.5	1,017.3	+1.0	38.9	+4.4	73	20	49	−5	12	29	34	813	30	76	5.81	+3.1	2.76	13	12.4	s.	57	w.	19	7	4	20	6.8	7.1	.0	4
Sandusky	629	5	67	993.6	1,017.3	+.4	37.6	+2.5	73	19	46	1	12	30	31	849	----	---	5.06	+2.4	2.03	16	10.8	e.	42	w.	19	11	1	19	6.1	9.0	.0	4
Toledo [2]	628	5	47	993.2	1,016.9	+.3	36.0	+2.2	71	19	46	−10	12	26	33	900	29	78	3.94	+1.4	1.43	13	13.6	sw.	57	sw.	19	6	6	19	6.8	4.8	.0	4
Fort Wayne [2]	857	5	34	984.8	1,016.6	.0	37.2	+1.1	72	20	47	−7	12	27	38	860	30	80	4.52	+1.3	1.34	11	10.9	s.	61	s.	19	9	2	20	6.7	5.9	.0	4
Detroit [2]	730	5	77	990.2	1,017.6	+1.3	34.8	+1.8	65	19	44	2	5	26	31	932	28	80	3.32	+.9	.91	13	10.7	n.	36	sw.	29	7	6	18	6.6	4.5	.0	4
UPPER LAKES							28.3	+.6										79	3.14	+1.0											6.2			
Alpena	609	5	89	993.9	1,017.3	+1.4	26.3	+.8	66	21	35	−9	11	18	37	1,198	21	82	2.85	+.9	.86	11	10.9	se.	29	n.	27	10	6	15	6.2	9.0	.2	1
Escanaba	612	51	72	993.2	1,016.6	.0	23.6	−.6	49	26	33	−14	5	14	36	1,284	17	80	1.25	−.6	.59	7	11.0	n.	59	n.	27	11	11	9	5.2	2.8	.0	0
Grand Rapids [4]	707	70	244	989.8	1,016.6	+.3	34.8	+1.4	68	21	43	3	5	26	32	940	26	81	6.30	+3.8	2.15	13	11.8	sw.	36	sw.	29	8	4	19	6.7	17.6	.0	5
Lansing [4]	878	5	90	983.7	1,016.9	+1.0	33.2	+1.0	64	19	43	−1	5	24	36	989	24	77	5.21	+2.9	2.71	15	9.2	sw.	26	w.	19	7	7	17	6.3	11.6	.0	1
Marquette	734	44	73	988.8	1,016.9	+.6	25.0	+.2	63	23	34	−9	11	16	31	1,238	19	78	1.47	−.8	.41	9	8.5	n.	34	sw.	25	6	11	14	6.2	9.4	T	2
Sault Sainte Marie [2]	614	10	52	993.6	1,017.3	+.7	21.9	+1.3	52	21	32	−20	11	12	36	1,336	16	84	2.14	+.4	.64	12	10.8	e.	31	nw.	24	7	6	18	6.8	10.0	.7	1
Chicago [2]	673	5	38	990.9	1,015.9	−.7	36.1	+1.6	73	26	44	1	12	28	37	895	28	76	4.65	+2.1	2.50	13	11.3	s.	33	sw.	21	8	3	20	6.9	10.3	.0	4
Green Bay	617	5	32	993.2	1,016.6	+.7	27.4	−1.2	59	23	38	−12	11	17	37	1,168	19	70	1.91	−.1	.78	11	8.6	se.	33	ne.	27	7	11	13	6.0	2.3	.0	0
Milwaukee [2]	681	33	66	990.5	1,016.3	+.4	31.9	+1.8	67	26	40	−3	12	24	37	1,029	24	74	3.59	+1.2	1.56	12	14.8	sw.	43	n.	27	6	10	15	6.4	12.6	.0	3
Duluth [4]	1,133	5	47	973.9	1,016.6	.0	23.2	−.5	55	23	31	−23	10	15	36	1,298	16	86	2.04	+.5	.95	11	12.1	ne.	28	w.	8	13	8	10	5.3	11.4	3.5	3
NORTH DAKOTA							17.4	−4.5										86	.56	−.3											6.1			
Fargo [2]	940	5	47	981.0	1,017.3	.0	17.7	−5.0	48	25	28	−34	10	8	40	1,466	14	86	.87	−.1	.28	9	12.	n.	37	se.	25	9	10	12	6.1	7.1	.0	1
Bismarck [2]	1,677	5	41	954.6	1,018.0	+.4	17.2	−4.7	55	22	28	−31	10	6	53	1,481	14	90	.39	−.5	.13	7	10.4	e.	35	nw.	7	6	10	15	6.3	7.2	2.1	0
Devils Lake	1,478	11	44	961.4	1,017.6	+.3	14.9	−4.9	43	22	25	−32	10	5	34	1,551	12	87	.75	.0	.27	8	9.9	w.	34	ne.	25	10	10	11	5.4	11.0	3.0	0
Williston	1,878	42	50	946.8	1,016.6	.0	19.6	−3.3	60	22	30	−29	10	10	36	1,405	14	81	.23	−.5	.22	3	7.3	se.	24	se.	24	6	7	18	6.6	2.2	T	0
UPPER MISSISSIPPI							35.5	−.3										76	3.51	+1.1											6.1			
Minneapolis-St. Paul [2]	919	43	74	981.4	1,016.3	+.7	27.3	−2.3	70	25	37	−27	11	18	34	1,168	19	74	1.43	.0	.54	8	11.1	se.	35	ne.	26	8	11	12	6.0	5.2	.0	2
La Crosse [2]	714	5	29	989.2	1,016.3	+.4	29.1	−.7	68	25	40	−17	11	18	40	1,112	20	74	1.02	−.6	.39	8	9.2	nw.	30	ne.	26	8	13	10	5.7	4.4	.0	0
Madison [2]	974	27	39	979.7	1,016.3	−.3	30.3	−.3	70	26	41	−9	11	19	40	1,079	23	76	2.86	+.8	.90	10	11.9	s.	36	n.	26	7	11	13	6.1	16.6	T	1
Charles City	1,015	10	51	978.7	1,016.9	+.3	29.8	−.9	72	25	40	−19	11	19	41	1,091	----	---	1.96	−.2	.67	8	7.2	n.	23	n.	27	15	9	7	4.4	17.0	.0	2
Moline [2]	606	6	50	993.2	1,016.3	−.3	35.6	+.8	75	26	46	−2	12	26	40	914	27	74	3.46	+1.2	2.03	12	12.2	n.	29	sw.	26	9	7	15	6.3	8.0	.0	5
Des Moines [4]	860	5	99	------	1,016.3	.0	33.0	−2.9	72	25	42	−12	11	24	36	993	26	76	3.16	+1.4	1.36	9	11.2	n.	32	n.	27	10	9	12	5.8	19.4	.0	2
Dubuque	699	60	79	989.8	1,015.9	−.7	33.7	−.3	71	25	44	−5	11	24	38	971	25	71	3.76	+1.7	1.39	10	6.7	nw.	19	se.	18	9	8	14	6.0	11.0	.0	4
Burlington [2]	702	4	36	989.5	1,015.6	−1.3	36.6	−1.3	77	26	47	−2	12	27	35	882	30	80	3.69	+1.0	2.25	15	12.6	nw.	34	sw.	26	7	10	14	6.5	4.3	.0	4
Cairo	357	5	99	1,003.1	1,016.3	−.6	49.6	+1.9	81	20	58	15	12	41	27	495	----	---	6.62	+2.9	2.17	13	12.2	sw.	43	sw.	19	4	11	16	6.8	.5	.0	6
Peoria [2]	609	7	26	993.2	1,015.9	−.7	37.5	+1.5	73	26	47	−4	12	28	32	854	30	77	3.94	+1.2	1.07	15	11.8	n.	47	sw.	19	9	5	17	6.5	3.0	.0	5
Springfield, Ill. [4]	636	5	191	992.2	1,015.6	−.7	39.2	+1.0	77	20	48	−8	12	30	33	798	32	78	4.86	+1.7	1.01	15	14.6	n.	56	sw.	19	8	4	19	6.7	4.4	.0	4
St. Louis [4]	568	33	59	995.3	1,015.9	−1.0	44.3	+.2	82	20	52	7	12	36	30	645	----	---	5.31	+1.9	1.27	13	13.3	s.	47	s.	19	7	8	16	----	4.5	.0	4
MISSOURI VALLEY							35.1	−2.9										76	2.65	+.8											6.3			
Columbia, Mo. [4]	784	6	66	985.8	1,014.6	−2.0	41.8	−1.1	82	20	52	−4	12	32	42	724	32	75	3.72	+.8	1.00	16	9.3	s.	29	sw.	19	9	10	12	5.6	3.0	.0	7
Kansas City [2]	963	38	76	979.3	1,014.9	−1.4	39.6	−3.1	77	25	49	−3	11	30	32	788	29	68	4.84	+2.5	1.50	15	13.2	sw.	39	sw.	14	8	7	16	6.4	7.4	.0	8
St. Joseph [2]	967	5	51	979.3	1,014.9	−1.4	36.4	−4.1	78	24	47	−8	12	26	42	889	28	76	3.73	+1.2	1.22	10	9.7	n.	32	nw.	27	11	5	15	6.0	15.6	.0	3
Springfield, Mo. [2]	1,324	5	50	966.5	1,014.9	−1.4	41.9	−1.7	81	20	52	−3	11	32	36	719	33	73	4.03	+.6	1.25	12	14.2	s.	43	sw.	19	6	8	17	6.9	3.0	.0	6
Topeka [4]	987	65	87	978.7	1,015.2	−.7	38.6	−4.0	78	20	48	−5	11	29	37	819	30	76	4.51	+2.4	1.43	12	10.7	n.	28	n.	27	11	3	17	6.3	8.0	.0	5
Lincoln [4]	1,189	6	81	971.2	1,015.6	−.7	33.4	−4.1	78	24	43	−14	11	24	39	979	26	80	2.22	+1.0	.61	11	10.4	n.	36	nw.	26	9	5	17	6.2	20.8	.0	0
Omaha [2]	1,105	5	68	974.6	1,015.9	−.7	32.0	−4.1	77	24	42	−16	11	22	41	1,023	25	78	1.74	+1.4	.73	8	12.5	n.	38	n.	31	8	7	16	6.4	27.2	.0	1
Valentine	2,598	46	54	921.1	1,015.6	−1.0	28.9	−3.4	76	24	41	−27	11	16	48	1,118	20	71	.50	−.5	.19	6	8.8	w.	38	nw.	26	8	11	12	5.8	9.2	.0	0
Sioux City [2]	1,138	5	40	973.2	1,015.9	−.7	30.6	−1.5	74	24	41	−19	11	20	43	1,066	24	79	.77	−.4	.34	7	12.1	nw.	39	n.	27	7	6	18	6.6	9.2	.0	0
Huron [2]	1,301	5	41	967.5	1,016.6	−.7	27.4	−1.5	70	25	38	−16	10	17	41	1,170	22	83	.42	−.5	.24	10	13.0	nw.	35	e.	24	4	11	16	7.0	3.8	.0	1
NORTHERN SLOPE							28.5	−3.9										69	.66	−.3											6.9			
Billings [2]	3,570	16	39	887.2	1,014.2	−3.4	29.7	−4.3	61	29	40	−15	10	19	31	1,093	20	70	.79	------	.28	13	11.5	sw.	40	sw.	22	4	7	20	7.2	12.0	.0	0
Havre	2,507	11	67	923.8	1,015.6	−1.0	24.8	−2.3	61	22	36	−19	10	14	39	1,246	16	71	.47	.0	.22	9	9.2	w.	38	sw.	22	3	9	19	7.1	7.2	.0	0
Helena [2]	4,124	5	43	869.6	1,016.6	+1.4	26.2	−5.5	58	22	37	−16	10	15	39	1,203	18	70	.49	−.3	.19	10	8.7	w.	33	w.	18	3	8	20	7.4	7.3	T	0
Missoula [2]	3,263	4	91	898.7	1,015.2	−2.1	31.6	−1.9	60	28	41	−2	10	22	32	1,035	23	72	.41	−.4	.13	9	7.2	se.	29	nw.	29	3	10	18	7.6	4.7	.0	0
Kalispell	2,973	48	56	908.2	1,014.2	−1.7	28.6	−4.3	58	28	38	−9	10	19	32	1,130	20	69	1.24	+.3	.37	13	6.1	w.	19	sw.	22	4	5	22	7.3	19.3	.6	0
Miles City [2]	2,371	5	28	929.2	1,015.6	−2.0	28.7	------	63	29	40	−14	10	17	44	1,126	20	72	.61	------	.40	9	----	nw.	------	------	--	6	5	20	7.0	6.4	.0	0
Rapid City [2]	3,259	5	56	897.7	1,014.6	−2.7	29.3	−2.4	72	24	41	−14	10	18	44	1,108	20	72	.14	−.8	.05	4	13.5	nw.	53	nw.	26	7	8	16	6.7	1.9	.0	0
Cheyenne [2]	6,094	22	40	806.6	1,013.9	−1.3	27.7	−5.4	64	24	39	−19	11	16	51	1,155	16	63	.41	−.6	.16	7	12.7	nw.	37	w.	28	7	13	11	6.2	4.1	.0	0
Lander [2]	5,352	6	30	829.7	1,013.9	−1.7	26.5	−5.9	59	24	38	−11	11	15	37	1,192	16	62	1.10	−.1	.38	10	5.7	sw.	27	nw.	25	5	13	13	6.6	18.2	T	0
Sheridan [2]	3,790	5	38	880.1	1,014.6	−2.0	28.6	−2.8	62	29	41	−16	10	17	55	1,126	20	70	1.02	−.1	.31	12	8.2	nw.	36	nw.	20	6	6	19	6.7	12.6	.3	0
North Platte [4]	2,821	11	51	913.0	1,014.6	−1.7	32.0	−4.6	77	24	45	−15	11	19	44	1,022	20	70	.60	−.3	.31	10	7.9	n.	34	n.	26	11	8	12	5.9	8.2	.0	0
MIDDLE SLOPE							37.6	−6.5										70	2.64	+1.1											5.7			
Denver [4]	5,292	106	113	832.0	1,012.5	−1.7	33.7	−5.6	70	24	45	−5	11	23	40	968	17	58	1.62	+.6	.66	8	8.1	s.	31	sw.	29	12	10	9	5.0	20.8	T	1
Pueblo [2]	4,690	5	36	852.0	1,013.9	+.4	32.0	−8.8	74	24	47	−20	5	17	52	1,026	21	67	1.82	+1.2	.52	10	9.3	nw.	42	sw.	25	14	11	6	4.4	22.4	.0	2
Concordia	1,392	50	58	964.1	1,015.2	−1.1	34.0	−7.0	74	24	43	−11	11	25	36	960	26	74	1.67	+.4	.89	8	9.7	ne.	32	nw.	26	10	6	15	5.8	17.4	.0	1
Dodge City [2]	2,509	5	58	924.5	1,014.2	−1.7	33.8	−9.0	76	25	44	−15	11	23	44	965	26	76	2.00	+1.1	.66	9	16.6	nw.	49	nw.	26	10	7	14	5.6	17.9	T	2
Wichita [2]	1,358	52	64	964.8	1,014.6	−.6	39.9	−5.2	77	24	49	−3	11	31	32	781	30	73	1.51	−.2	.70	10	16.1	s.	40	nw.	26	10	2	19	6.5	4.8	.0	3
Oklahoma City [4]	1,214	10	47	970.9	1,014.9	−.7	44.6	−5.4	81	24	54	1	11	35	32	639	34	72	6.18	+4.2	2.13	10	10.7	s.	33	w.	20	9	7	15	6.1	12.5	.0	4
Tulsa [2]	674	6	60	989.8	1,014.6	------	44.9	−4.5	81	20	55	−3	12	34	35	631	34	68	3.70	+.7	1.08	9	13.9	n.	38	nw.	26	9	6	16	6.2	9.7	.0	4
SOUTHERN SLOPE							50.0	−3.8										53	.62	−.2											5.4			
Abilene [2]	1,738	4	59	952.3	1,013.2	−1.7	52.5	−2.7	87	25	65	9	11	40	41	411	32	54	1.00	−.3	.77	3	17.0	s.	46	sw.	14	13	6	12	5.1	T	.0	2
Amarillo [2]	3,676	5	42	885.7	1,013.1	−1.5	40.2	−5.1	81	24	54	−3	11	27	43	765	26	64	.72	.0	.33	6	15.9	sw.	45	w.	30	11	7	13	5.4	4.1	.0	3
Del Rio	960	63	71	978.7	1,011.9	−2.7	62.2	−1.3	90	23	74	24	11	50	45	178	40	50	.11	−.6	.06	4	10.7	se.	41	nw.	31	6	13	12	6.3	.0	.0	0
Roswell	3,614	6	29	888.6	1,012.9	−.6	45.3	−6.0	82	14	62	−5	11	28	52	609	20	45	.64	−.1	.29	4	11.8	n.	49	w.	18	13	10	8	4.8	3.7	.0	0

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 1948—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Total degree days	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month	Number of days with thunderstorms
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.		°F.	°F.		°F.	°F.		°F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
SOUTHERN PLATEAU																																		
							48.7	−4.6										43	.53	−.2											4.5			
El Paso [2]	3,778	35	85	883.5	1,011.5	−1.4	50.8	−4.1	79	14	64	18	11	38	40	444	20	31	.04	−.3	.04	1	14.3	sw.	47	w.	30	12	13	6	4.6	T	.0	0
Albuquerque [2]	4,972	5	45	833.7	1,011.5	−1.7	40.9	−5.0	70	24	54	8	11	28	37	746	20	50	.41	.0	.19	8	10.4	nw.	47	nw.	30	13	9	9	4.8	1.0	.0	2
Flagstaff	6,907	34	48	786.0	1,015.2	+2.3	29.9	−6.6	62	28	44	−8	4	16	46	1,091	18	62	2.10	.0	.55	14	----	w.	--	------	--	10	10	11	5.5	29.7	.0	0
Phoenix [4]	1,107	39	87	974.3	1,013.5	.0	56.9	−3.8	81	24	69	33	5	45	39	256	29	40	.16	−.5	.12	2	7.7	e.	26	nw.	31	14	10	7	4.2	.0	.0	0
Tucson [2]	2,555	5	39	924.5	1,013.2	+.7	54.0	−3.7	80	13	67	28	5	41	39	341	28	40	.29	−.4	.25	2	7.8	se.	26	sw.	24	11	11	9	4.8	.0	.0	0
Yuma	142	9	54	1,009.1	1,014.2	.0	59.8	−4.3	82	23	73	39	2	46	38	167	30	36	.17	−.2	.17	2	7.2	w.	29	w.	17	21	6	4	2.9	.0	.0	0
MIDDLE PLATEAU																																		
							35.0	−5.4										61	1.26	+.2											6.2			
Reno [2]	4,527	20	52	859.5	1,014.6	−2.0	36.4	−3.6	67	31	52	8	4	21	48	886	21	56	.07	−.7	.03	5	9.4	s.	50	s.	23	7	9	15	6.1	.2	.0	0
Winnemucca	4,339	5	56	864.9	1,014.9	−2.0	35.8	−4.2	66	28	48	7	4	23	44	903	21	58	1.25	+.3	.36	11	8.3	sw.	30	nw.	2	5	7	19	6.9	8.9	.0	1
Modena	5,473	10	46	829.7	1,013.2	−1.0	31.7	−6.5	59	28	44	2	21	20	39	1,035	----	---	1.14	+.1	.45	8	9.5	sw.	38	s.	24	9	12	10	5.3	7.3	.0	2
Salt Lake City [2]	4,357	32	58	863.9	1,014.2	−2.1	35.6	−4.4	63	23	45	14	11	26	34	911	24	65	2.30	+.5	.73	12	10.0	se.	33	se.	25	7	7	17	6.4	20.5	T	0
Grand Junction [2]	4,602	5	26	855.7	1,013.9	+.4	35.4	−8.2	65	24	46	5	11	25	34	911	24	64	1.54	+.8	.59	11	8.2	e.	36	sw.	25	8	7	16	6.2	14.9	.0	0
NORTHERN PLATEAU																																		
							36.4	−3.3										65	1.03	.0											7.1			
Baker [4]	3,471	36	54	892.3	1,014.9	−3.1	34.8	−2.8	61	28	44	12	10	26	32	938	25	67	1.56	+.5	.64	10	6.1	se.	21	nw.	22	3	10	18	7.4	15.0	.0	0
Boise [2]	2,739	5	49	917.4	1,014.9	−3.1	37.9	−3.5	60	28	48	15	10	28	30	842	28	69	1.42	+.1	.61	14	11.7	se.	34	se.	12	6	6	19	7.0	6.9	.0	0
Pocatello [2]	4,478	5	31	859.1	1,014.6	−2.0	32.7	−3.2	57	28	42	5	10	23	34	1,002	21	62	1.41	+.1	.41	9	11.9	sw.	35	s.	24	6	7	18	7.1	10.5	T	0
Spokane [2]	1,929	6	51	944.1	1,013.9	−2.7	36.2	−3.5	63	28	45	12	10	28	31	890	26	67	.45	−.8	.12	10	8.9	sw.	34	sw.	22	3	11	17	7.5	1.0	.0	0
Yakima [2]	1,076	4	54	975.3	1,014.9	−1.7	40.2	−3.4	72	28	53	20	10	28	39	759	28	61	.29	+.1	.17	5	----	w.	--	------	--	5	11	15	6.5	T	.0	0
NORTH PACIFIC COAST																																		
							44.4	−1.3										76	4.17	+.1											7.8			
North Head	211	5	55	1,007.5	1,015.2	−2.8	44.0	−1.2	61	27	49	34	10	39	19	652	38	78	5.35	−.2	1.59	23	14.3	nw.	56	s.	21	1	11	19	7.8	T	.0	0
Seattle [4]	125	90	321	1,010.5	1,014.9	−2.4	45.2	−1.2	70	27	52	32	3	39	27	611	35	71	3.65	+.6	2.02	17	10.7	s.	38	s.	21	5	8	18	7.1	.9	.0	2
Tacoma	194	172	201	1,007.8	1,014.9	−2.4	43.6	−.6	66	27	50	31	3	37	24	663	----	---	3.94	+.5	2.18	17	9.9	n.	37	sw.	29	4	11	16	6.9	T	.0	0
Tatoosh Island	86	5	61	1,011.2	1,014.6	−1.7	42.9	.0	57	27	47	34	22	39	15	681	37	80	6.44	−1.4	2.32	19	14.6	e.	49	s.	17	2	6	23	7.6	T	.0	0
Medford [2]	1,329	29	58	968.2	1,016.9	−1.1	43.2	−3.7	71	31	54	24	4	33	42	675	34	74	2.20	+.7	.68	15	----	n.	--	------	--	2	4	25	8.1	T	.0	0
Portland, Oreg. [4]	154	68	106	1,010.2	1,015.9	−2.4	46.1	−.8	72	28	52	33	3	40	24	585	36	74	4.09	+.2	1.76	20	6.2	e.	21	se.	21	2	4	25	8.5	T	.0	0
Roseburg	510	45	76	998.3	1,017.3	−1.7	45.8	−1.3	69	27	54	30	4	37	35	595	37	76	3.55	+.3	.90	20	4.5	sw.	21	sw.	14	1	2	28	8.6	T	.0	0
MIDDLE PACIFIC COAST																																		
							49.7	−2.9										72	4.26	+.7											6.2			
Eureka	60	72	88	1,016.6	1,019.0	−1.0	46.8	−1.5	60	28	53	35	15	41	19	567	40	80	6.16	+.9	1.59	21	7.9	n.	28	se.	15	3	11	17	7.3	.0	.0	0
Red Bluff [2]	353	5	26	1,003.7	1,016.6	-----	49.6	−4.0	78	31	60	29	15	39	34	477	34	62	3.83	+.6	1.71	12	8.8	nw.	34	se.	22	5	12	14	6.4	.0	.0	1
Sacramento [4]	66	92	115	1,014.6	1,016.9	−.7	50.8	−3.5	72	27	61	35	4	41	30	436	38	69	3.68	+1.1	.96	9	7.5	s.	24	nw.	3	10	11	10	5.6	.0	.0	0
San Francisco [4]	155	112	132	1,011.9	1,017.6	−.4	51.7	−2.5	71	27	57	43	25	46	20	412	42	76	3.36	+.2	1.00	11	8.2	w.	34	s.	23	10	9	12	5.6	.0	.0	0
SOUTH PACIFIC COAST																																		
							54.8	−1.5										63	2.32	+.3											5.2			
Fresno [2]	327	5	34	1,005.1	1,016.9	−1.1	53.2	−1.2	77	27	66	33	4	41	38	370	36	60	2.28	+.7	.76	10	5.8	nw.	24	nw.	30	9	10	12	5.8	.0	.0	1
Los Angeles	338	236	263	1,004.4	1,016.9	+.3	55.2	−2.3	76	27	64	42	18	46	30	302	40	64	3.07	+.3	1.39	6	7.6	w.	24	w.	20	14	6	11	4.9	.0	.0	0
San Diego [2]	87	20	55	1,013.9	1,017.3	+.7	55.9	−1.1	74	27	64	41	21	47	28	283	42	66	1.60	−.1	.50	10	6.9	w.	31	s.	24	12	10	9	5.0	.0	.0	0
PANAMA CANAL																																		
Balboa Heights [6]	118	6	97	-------	1,010.4	-----	82.2	+.7	95	31	92	69	21	73	24	-----	71	75	T	−.7	-----	0	9.8	n.	29	n.	14	7	24	0	4.7	0	0	0
Cristobal [6]	23	37	92	-------	1,011.3	-----	80.2	−.9	84	26	83	74	14	78	8	-----	72	78	1.21	−.3	-----	0	15.2	ne.	26	ne.	13	1	11	19	7.6	0	0	0
ALASKA																																		
Anchorage [2]	132	6	44	1,006.4	1,011.5	-----	19.8	−3.9	42	27	30	−8	1	10	34	1,401	13	65	.67	+.1	.27	8	7.8	n.	41	w.	28	9	7	15	5.7	14.0	7.2	0
Fairbanks [2]	455	5	63	997.3	1,015.2	-----	5.4	−4.2	37	14	21	−34	3	−10	49	1,849	1	72	.55	−.1	.38	7	5.9	nw.	37	sw.	28	12	3	16	5.4	9.2	23.4	0
Juneau [2]	80	6	30	1,009.8	1,010.5	-----	27.8	−6.1	42	12	35	1	23	21	35	1,153	23	77	4.16	−.2	1.81	18	6.4	e.	39	se.	17	6	4	21	7.5	52.6	11.0	0
Nome [2]	22	10	75	1,013.2	1,013.9	-----	5.3	−3.4	33	27	16	−28	4	−6	39	1,843	4	92	1.71	+.9	.50	14	12.4	e.	56	e.	16	7	6	18	6.4	17.1	51.0	0
Annette	113	5	53	1,006.8	1,011.2	-----	36.8	−2.5	46	1	42	27	9	32	16	870	30	74	4.64	−4.0	1.96	16	----	nw.	--	------	--	7	5	19	6.9	10.2	0	0
Barrow	29	5	27	1,016.8	1,017.3	-----	−15.4	−.5	8	8	−8	−45	1	−23	26	2,494	−17	86	.01	−.1	.01	1	9.2	se.	26	------	27	14	8	9	4.8	.2	22.5	0
Bethel [2]	28	5	31	1,012.2	1,013.5	-----	13.9	+3.0	38	27	22	−16	1	6	37	1,582	11	88	2.44	+1.6	.86	16	10.0	ne.	56	------	27	5	7	19	7.3	21.9	10.7	0
Cordova [2]	45	5	32	1,006.0	1,007.8	-----	29.0	−1.1	45	7	36	7	26	20	27	1,151	24	77	2.04	−2.8	.49	14	----	e.	26	n.	31	7	7	17	6.7	21.7	10.0	0
Galena	139	4	66	1,008.8	1,013.9	-----	3.2	+.8	39	27	16	−39	2	−10	43	1,914	0	76	1.08	+.3	.33	13	----	n.	45	sw.	28	12	7	12	5.2	10.2	33.6	0
Gambell	32	5	32	1,012.5	1,013.5	-----	8.6	+3.1	31	31	15	−12	19	3	23	1,748	8	96	1.74	+.9	-----	14	16.0	ne.	44	se.	25	7	15	9	6.0	17.4	32.0	----
Kotzebue [2]	20	5	31	1,015.2	1,015.9	-----	−5.3	−3.5	24	16	4	−34	4	−15	38	2,177	−10	73	.77	+.5	.21	13	13.8	e.	47	w.	28	13	6	12	5.1	7.7	25.3	0
McGrath [2]	341	5	31	1,001.0	1,014.6	-----	6.4	+.5	45	27	20	−39	2	−8	49	1,820	4	76	2.04	+.9	.99	10	----	nw.	44	s.	27	9	8	14	5.8	18.7	28.0	0
Northway [2]	1718	5	32	949.2	1,014.9	-----	14.5	+5.1	39	28	18	−34	23	11	46	1,908	−2	65	.31	.0	.11	5	5.3	e.	27	nw.	28	5	9	17	6.7	2.7	22.7	0
HAWAII																																		
Honolulu [4]	38	86	100	1,015.9	1,017.3	-----	72.4	+1.0	80	10	77	63	9	68	13	0	62	70	1.41	−1.8	.74	9	11.6	ne.	29	ne.	11	7	11	13	6.1	.0	.0	4

[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.