CLIMATOLOGICAL DATA FOR MARCH 1949

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

[For description of tables and charts, see Review, January 1948, 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	54.8	−1.3	Eufaula	90	27	Valley Head	17	16	6.16	+.08	Gulf Shores	11.38	Newton	2.13
Arizona	49.5	−1.3	Tucson, Univ. of Ariz.	91	19	Fort Valley	−8	1	.51	−.57	Maverick	2.51	3 stations	.00
Arkansas	50.9	−1.6	Ashdown	84	26	Mount Magazine	18	18	5.42	+.65	Dermott	10.46	Berryville	2.09
California	48.9	−2.8	Cow Creek	89	27	2 stations	−6	[1] 5	4.30	+1.38	Upper Mattole	27.43	3 stations	.00
Colorado	35.1	+.6	Fruita	78	19	Taylor Park	−20	[1] 3	1.53	+.20	Wolf Creek Pass	4.51	Manassa	.07
Florida	65.2	−.2	Cross City Arpt.	96	25	2 stations	31	[1] 1	2.19	−1.13	Eglin Field	8.53	2 stations	.04
Georgia	55.5	−.8	3 stations	90	[1] 24	Blairsville Exp. Sta.	12	16	2.98	−2.09	Suches	8.28	Brunswick	.91
Idaho	36.8	+1.1	Kuna	74	14	Island Park Dam	−20	28	1.03	−.65	Roland (W. Portal)	4.37	May R. S.	.03
Illinois	41.1	+.1	3 stations	79	[1] 21	Stockton	5	1	3.21	+.01	Elizabethtown	8.34	Carpenter, 1 SW	1.28
Indiana	41.4	+.5	Jeffersonville	84	29	Goshen College	3	17	3.81	+.05	Evansville, WBAS	8.50	Howe Military School	.67
Iowa	34.5	−1.2	Burlington	76	29	Inwood	−4	15	2.44	+.75	Rock Rapids	4.42	Corning	1.31
Kansas	42.8	−.4	2 stations	80	[1] 28	4 stations	0	15	1.99	+.53	Atwood	4.28	Fredonia	.86
Kentucky	45.8	−.7	Williamsburg	86	26	Hindman Settlement School.	10	16	5.17	+.41	Uniontown Dam 49	8.47	Greenup Dam 30	2.26
Louisiana	59.1	−1.4	2 stations	87	[1] 6	Tallulah Delta Lab.	28	19	8.25	+3.26	Naval Amn. Depot	16.13	Koran	2.33
Maryland-Delaware	44.7	+1.9	Randallstown, Md.	88	27	Oakland, Md.	−4	20	2.83	−.73	Salisbury Mun. Arpt., Md.	4.68	2 stations, Md.	.65
Michigan	30.9	+.9	Midland Dow. Chem.	78	25	Watersmeet, U. S. Forest.	−25	19	2.05	+.05	Coloma, 2 S.	5.34	White Pine Mine	.54
Minnesota	24.2	−2.5	Winona	60	[1] 22	Red Lake Indian Agency.	−30	1	1.71	+.49	New Ulm	5.24	Detroit Lakes	.05
Mississippi	55.7	−1.3	Wiggins	87	27	2 stations	23	1	8.45	+2.49	Natchez	14.36	Rural Hill	3.28
Missouri	43.3	−.7	Cumdenton	82	29	3 stations	4	15	3.23	−.04	Campbell	8.26	Palmyra	1.06
Montana	28.8	[1] −1.8	Boulder State School	68	7	Summit	−32	14	.80	−.10	Trout Creek	3.77	Chester	T
Nebraska	35.9	−.7	2 stations	77	20	Valentine, WB	−14	15	2.45	+1.31	Atkinson	6.52	Chadron	.21
Nevada	39.7	−.2	Las Vegas	85	27	Marlette Lake	−6	5	.79	−.19	Mt. Charleston Lodge	4.16	3 stations	T
New England	33.6	+1.2	2 stations, Mass.	79	[1] 26	Fabyan, N. H.	−20	20	2.22	−1.36	Tuckerman Ravine, N. H.	4.84	North Chichester, N. H.	1.02
New Jersey	42.3	+2.9	3 stations	81	27	Layton, 3 NW	−5	20	2.61	−1.20	Atlantic City	3.91	Layton, 3 NW	1.15
New Mexico	45.4	+1.8	Hagerman	88	16	Selsor Ranch	−6	2	.44	−.31	Palma	1.95	11 stations	.00
New York	33.6	+1.3	Sodus	83	28	Wanakena Ranger School.	−23	20	1.96	−1.09	Raguette Lake	5.17	Andes	.60
North Carolina	51.0	+.9	Chapel Hill	88	27	Mount Mitchell	−2	1	2.94	−1.26	Highlands	8.60	Red Springs	1.10
North Dakota	21.9	−1.9	New England	55	27	2 stations	−22	15	.60	−.18	Sherwood	1.55	Ashley	.14
Ohio	40.9	+1.8	Irontown	83	26	Millport, 2 NW	4	2	2.91	+.55	Chilo Dam 34	4.77	Put-in-Bay, Stone Lab	.45
Oklahoma	49.3	−1.3	Wichita Mt.	85	24	Boise City	13	15	2.30	+.10	Fairview	6.07	Kenton	.36
Oregon	41.3	−.5	Arlington	71	19	3 stations	3	[1] 27	2.39	−.51	Port Orford	14.02	2 stations	.03
Pennsylvania	39.0	+1.2	Lancaster, 2 NE	86	27	Kane, 1 NNE	−8	19	1.98	−1.50	Greensburg Unity Res., 3 SE.	4.34	McConnellsburg	.37
South Carolina	54.8	.0	Ridgeland, 2 SE	90	[1] 26	Caesar's Head	13	16	2.09	−1.94	Sassafras Mountain	7.69	4 stations	.91
South Dakota	30.0	−1.3	Gregory	71	20	Hardy, R. S.	−21	15	1.37	+.26	Fairfax	4.96	Milesville	.01
Tennessee	48.6	−.9	Newport	87	27	Point Park, Lookout Mt.	10	2	5.56	+.20	Leapwood	8.47	Lick Creek	2.51
Texas	57.6	−.9	3 stations	95	[1] 6	2 stations	15	15	1.78	−.21	Port Arthur, WBAS	10.21	19 stations	.00
Utah	38.7	.0	Hite	79	19	Silver Lake (Brighton)	−7	28	1.46	+.13	Alta	7.17	Callao	.09
Virginia	46.0	+.1	3 stations	86	[1] 27	Big Meadows	3	1	2.66	−.96	Pinnacles	5.80	Winchester Research Lab.	.92
Washington	41.2	−.6	Centralia	70	4	Bumping Lake	0	28	2.51	−.76	Clearwater	11.90	Okanogan	.36
West Virginia	42.4	−.1	2 stations	88	26	Bayard	−6	20	2.50	−1.38	Pickens No. 2	6.09	Martinsburg	.84
Wisconsin	29.6	+.2	Lake Geneva	69	29	Land O' Lakes	−22	19	2.31	+.55	Eau Claire	4.82	Marinette	.29
Wyoming	31.4	+1.6	Yoder	69	19	Lake Yellowstone	−22	28	.95	−.17	Snake River	4.20	Sarageton	.05
Alaska (Feb.)	.9	−7.0	Ketchikan	56	26	Allakaket	−58	[1] 9	1.50	−.37	Five Finger Light	17.21	Barrow	.08
Hawaii	67.7	−1.1	Mahukona	88	[1] 11	Haleakala R. S.	32	15	6.37	−3.06	Kukui	44.00	7 stations	.00
Puerto Rico	74.0	−.1	Caguas	92	13	Garzas Dam (2)	48	[1] 13	4.20	+1.02	Humacao	16.19	Yauco	.13

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 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	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: 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	%
NEW ENGLAND									33.2	+3.0							67	2.44	-1.3														6.3	
Caribou [2]	628	5	33	988.5	1,010.5	------	32	14	22.6	+.8	48	26	-10	8	1,317	15	72	2.48	+.1	.71	15	0	14.4	8	15.6	nw.	--	------	--	6	9	16	6.8	--
Eastport	75	67	82	1,009.5	1,012.2	-.7	38	26	31.7	+2.8	58	28	10	20	1,031	----	--	3.15	-.7	.77	17	0	19.8	0	11.9	w.	33	e.	1	7	4	20	7.2	46
Portland, Me. [2]	103	6	43	1,010.2	1,012.7	-.8	43	24	33.2	+2.1	69	26	4	20	986	24	70	2.04	-1.8	.69	14	1	7.5	0	9.2	nw.	39	nw.	1	9	7	15	6.1	67
Concord [2]	289	5	45	1,001.0	1,013.7	-.5	45	24	34.8	+5.7	74	26	5	20	939	21	60	1.20	-1.8	.38	10	0	5.5	0	9.5	wnw.	29	nw.	1	8	8	15	6.1	48
Mt. Washington	6,274	5	37	976.5	1,015.6	------	20	6	13.2	+1.7	44	27	-18	19	1,608	----	--	3.79	-3.4	.77	17	0	16.7	0	40.0	nw.	--	------	--	6	6	19	7.2	33
Burlington [2]	403	6	51	1,001.7	1,014.5	-.4	40	22	31.0	+1.9	64	27	-2	20	1,057	22	70	1.40	-.6	.43	11	0	7.5	0	10.6	nw.	45	s.	5	5	11	15	6.8	45
Boston [2]	124	33	62	1,012.5	1,013.6	-.6	47	31	39.2	+3.6	71	26	13	20	799	24	58	1.66	-1.9	.54	6	0	9.9	0	14.0	sw.	44	n.	1	9	5	7	6.2	61
Nantucket [2]	12	4	34	1,013.2	1,013.6	-.3	43	32	37.7	+2.2	59	28	18	20	850	31	79	3.34	-.4	1.28	10	0	1.6	0	17.4	sw.	47	n.	1	9	4	18	6.5	47
Block Island	26	11	46	1,013.5	1,014.3	-.3	43	32	37.8	+2.4	61	28	18	20	839	30	74	3.55	-.3	1.08	11	0	8.2	0	19.2	nw.	57	nw.	14	12	6	13	5.6	60
Providence [2]	159	65	60	1,011.9	1,014.0	-.6	49	32	40.4	+4.7	72	27	10	20	765	25	61	2.32	-1.2	.98	5	0	11.4	0	10.8	wnw.	31	n.	1	11	6	14	5.7	63
Hartford [2]	159	5	44	1,014.2	1,014.7	-.5	48	29	38.5	+3.5	72	26	2	20	825	26	64	2.37	-1.5	.59	8	0	15.8	0	11.3	n.	30	s.	22	10	6	15	6.1	65
New Haven [2]	107	5	39	1,014.6	1,014.7	-1.2	47	31	38.8	+4.3	66	28	8	20	811	27	62	1.95	-1.8	.52	8	0	8.4	0	7.8	n.	29	s.	23	12	6	13	5.5	64
MIDDLE ATLANTIC									43.6	+3.4							62	2.38	-1.1														6.0	
Albany [2]	97	6	40	1,003.7	1,014.7	-.9	45	26	35.6	+5.8	73	27	6	20	910	24	65	1.07	-1.6	.50	9	0	7.8	0	11.6	s.	42	w.	13	3	10	18	7.2	64
Binghamton [4]	871	57	79	984.4	1,015.9	+.3	46	28	37.0	+4.4	75	27	6	20	872	25	68	1.56	-1.1	.43	17	1	3.4	T	7.3	w.	26	w.	11	4	7	20	7.7	53
New York [4]	314	415	454	1,014.6	1,016.1	+.5	51	34	42.4	+4.7	73	27	16	19	701	28	59	1.97	-1.7	.71	7	0	4.2	0	17.5	nw.	54	nw.	1	11	7	13	5.7	58
Allentown [2]	385	4	58	1,002.0	1,016.2	------	51	29	40.0	+2.3	80	27	6	20	772	28	63	1.39	-2.1	.55	8	0	2.7	0	10.2	w.	--	------	--	8	9	14	6.2	--
Harrisburg [2]	374	30	49	1,017.3	1,016.4	-.2	52	33	42.3	+3.4	78	30	18	20	709	27	58	1.20	-1.8	.61	8	0	6.2	0	10.3	wnw.	36	nw.	12	9	7	15	6.4	66
Philadelphia [4]	114	174	150	1,015.2	1,016.2	-.4	53	36	44.7	+3.9	78	30	20	19	637	30	62	3.17	-.2	1.03	11	0	1.7	0	9.2	w.	29	nw.	1	11	7	13	5.4	64
Reading	323	47	306	1,004.4	1,016.6	+.3	53	34	43.6	+3.0	82	27	15	20	672	----	--	1.82	-1.7	.69	9	0	2.5	0	13.9	nw.	49	w.	12	9	8	14	6.0	65
Scranton	805	72	104	986.1	1,015.6	-.3	47	30	38.6	+2.9	77	27	8	20	829	----	--	1.50	-1.7	.49	8	0	5.4	0	7.5	n.	31	nw.	1	6	12	13	6.2	49
Atlantic City	52	37	172	1,013.9	1,016.1	-.2	48	36	41.9	+3.3	67	28	20	1	717	32	70	3.91	+.3	1.24	12	0	7	0	18.5	n.	47	nw.	1	12	5	14	5.4	69
Newark [2]	30	5	46	1,014.6	1,015.4	------	52	33	42.5	+2.9	78	27	15	20	704	28	59	1.95	-2.0	.70	6	0	6.4	0	12.8	wsw.	--	------	--	11	6	14	5.8	--
Trenton	190	89	107	------	------	------	52	34	42.8	+3.7	76	27	17	19	690	----	--	2.76	-.6	.76	8	0	6.0	0	10.9	nw.	32	nw.	1	12	7	12	5.4	61
Baltimore [4]	123	100	215	1,016.3	1,018.3	+1.7	55	38	46.6	+4.3	82	27	23	1	578	31	60	2.74	-1.0	1.15	9	1	T	0	13.1	s.	66	w.	12	9	13	9	5.5	59
Washington [4]	112	56	100	1,014.9	1,017.0	+.4	56	38	47.2	+4.6	83	27	23	1	565	31	58	3.96	+.2	1.31	10	2	T	0	9.1	nw.	35	nw.	1	8	12	11	6.0	59
Cape Henry	18	8	54	1,015.2	1,015.9	-.4	57	41	49.0	+2.4	85	27	27	1	512	----	--	2.74	-1.1	1.23	12	5	T	0	14.7	n.	49	nw.	11	11	8	12	5.5	62
Lynchburg [2]	686	5	58	983.4	1,017.1	-.2	58	36	46.9	+1.5	80	27	19	1	566	32	59	3.49	-.1	2.43	10	0	T	0	8.0	sw.	29	w.	10	8	10	13	6.1	61
Norfolk [4]	91	80	125	1,016.3	1,017.4	+.1	60	41	50.9	+2.7	84	27	26	1	466	36	63	2.85	-.9	1.11	11	3	T	0	11.1	n.	37	nw.	11	9	9	13	6.0	71
Richmond [4]	144	11	52	1,010.5	1,016.8	-.1	60	38	49.2	+2.0	84	27	23	16	508	34	61	2.34	-1.3	.96	11	2	.4	0	8.9	sw.	29	nw.	1	11	8	12	6.0	65
SOUTH ATLANTIC									54.6	+1.6							65	1.85	-1.9														5.6	
Asheville [4]	2,253	77	92	------	1,018.1	+.1	58	36	47.0	+2.1	77	26	16	16	562	35	--	3.32	-.6	.88	13	0	T	0	9.8	nw.	34	nw.	10	10	6	15	6.0	66
Charlotte [4]	779	63	86	989.8	1,017.8	+.5	64	42	53.1	+2.7	82	27	25	1	395	37	59	2.35	-1.8	.55	8	3	T	0	7.8	sw.	26	w.	18	10	5	16	6.2	68
Greensboro [2]	886	6	56	985.4	1,018.1	+1.5	62	37	49.4	+2.3	81	27	20	2	499	34	60	2.45	-1.9	.95	10	3	T	0	9.9	sw.	31	nw.	15	11	4	16	5.9	64
Hatteras	11	5	47	1,017.6	1,017.8	+.9	58	46	52.2	+.2	76	28	30	1	401	46	79	2.27	-2.0	1.01	10	3	T	0	13.7	ne.	42	nw.	1	9	10	12	5.9	81
Raleigh [4]	376	5	71	1,001.7	1,017.8	+.5	64	40	52.0	+1.8	85	27	23	1	433	38	63	1.77	-2.1	.50	9	3	.0	0	8.3	sw.	26	sw.	18	9	11	11	5.5	47
Wilmington [4]	72	73	107	1,016.9	1,018.4	+.4	65	46	55.2	+1.9	81	28	29	16	337	43	--	1.66	-1.5	.51	8	5	.0	0	10.9	sw.	44	s.	18	8	15	8	5.2	74
Charleston [4]	48	11	92	1,016.6	1,018.3	+.3	68	49	57.8	+.4	82	28	33	16	263	45	67	1.60	-1.4	.80	7	2	.0	0	10.8	s.	37	n.	7	11	10	10	5.2	75
Columbia, S. C. [4]	347	70	91	1,009.8	1,018.1	+.1	67	46	56.5	+1.3	85	27	28	1	312	41	63	1.04	-2.4	.36	7	2	.0	0	9.1	n.	29	sw.	10	12	7	12	5.3	79
Greenville, S. C. [2]	1,040	18	36	979.0	1,017.5	+1.2	63	42	52.6	+2.7	80	26	23	16	400	38	62	2.63	-2.5	1.08	12	3	T	0	8.8	sw.	50	sw.	10	10	7	14	5.9	69
Augusta [4]	182	62	77	1,002.4	1,018.2	+.9	69	46	57.2	+1.2	87	27	29	16	289	39	56	1.25	-2.9	.39	9	0	.0	0	6.6	s.	33	nw.	15	11	6	14	5.6	68
Savannah [2]	65	19	51	1,016.6	1,018.8	+.8	70	48	59.2	+2.1	83	25	33	1	239	47	68	.92	-2.1	.61	5	2	.0	0	11.1	sse.	40	w.	10	10	11	10	5.4	62
Jacksonville [4]	43	86	110	1,017.6	1,018.8	+.5	74	53	63.4	+.8	87	26	36	1	147	51	71	.99	-1.9	.66	8	1	.0	0	8.8	ne.	40	w.	10	12	10	9	4.9	62
FLORIDA PENINSULA									70.6	+1.0							68	1.12	-1.0														3.7	
Key West [4]	21	10	64	1,016.6	1,017.4	+.1	80	68	74.0	+1.4	84	28	60	2	0	64	72	.41	-1.0	.20	4	0	0	0	9.5	e.	27	nw.	7	16	11	4	3.6	74
Miami [4]	25	242	249	1,016.9	1,017.6	-.7	76	64	69.9	+.4	81	24	50	1	16	59	68	2.72	+.1	2.42	7	1	.0	0	14.7	se.	37	ne.	7	14	13	4	3.8	82
Tampa [2]	35	5	36	1,017.6	1,018.2	-.1	80	56	68.0	+1.2	91	24	44	8	41	53	64	.22	-2.2	.22	1	1	.0	0	8.1	n.	28	s.	28	16	10	5	3.7	81
EAST GULF									57.8	-.1							68	6.89	+1.5														6.2	
Atlanta [2]	1,173	33	72	983.1	1,018.1	+.1	64	42	53.2	+1.2	83	26	24	1	386	38	61	4.32	-1.1	1.60	12	2	.0	0	12.0	nw.	40	w.	10	9	6	16	6.1	58
Macon [4]	370	79	87	1,005.1	1,018.4	+.4	67	44	55.8	-.9	84	26	27	16	321	42	61	2.74	-2.2	1.01	11	5	.0	0	7.3	n.	33	nw.	15	12	3	16	5.7	57
Apalachicola	35	11	51	1,016.9	1,018.3	+.7	68	54	61.2	-.4	78	31	39	1	159	----	--	2.44	-1.8	.80	10	4	.0	0	8.6	se.	34	se.	22	11	6	14	5.5	67
Pensacola [4]	56	54	79	1,016.3	1,018.6	+.3	69	53	60.6	+.3	77	27	36	1	175	51	--	9.66	+4.9	4.00	13	6	.0	0	8.8	s.	44	se.	22	10	6	15	6.1	65
Anniston	618	6	32	996.3	1,018.7	+.7	66	40	53.0	------	84	26	23	16	388	42	69	5.80	+.2	1.87	11	3	.0	0	7.8	ene.	37	s.	21	7	10	14	6.5	--
Birmingham [2]	700	5	63	995.6	1,018.6	+.3	66	42	53.8	.0	83	26	26	1	368	41	66	7.98	+2.3	1.63	11	7	.0	0	10.8	n.	40	se.	21	7	10	14	6.3	51
Mobile [4]	57	86	161	1,010.2	1,018.3	+.3	69	51	60.1	+.4	81	25	35	19	193	50	74	5.93	.0	1.47	13	6	.0	0	12.1	n.	65	se.	30	10	8	13	5.6	55
Montgomery [4]	218	92	105	1,010.8	1,018.5	+.2	68	47	57.8	.0	85	26	31	1	269	44	67	4.56	-1.4	1.15	11	4	.0	0	7.3	n.	24	w.	10	9	9	13	6.0	60
Meridian [4]	375	67	92	1,007.1	1,018.4	+.8	69	44	56.6	-.5	84	25	30	4	285	45	71	10.38	+5.2	4.22	12	9	T	0	8.2	s.	--	------	--	7	9	15	6.5	--
Vicksburg [4]	247	82	102	1,008.5	1,017.7	-.3	67	47	57.4	-1.1	82	26	35	19	257	46	--	8.90	+3.3	3.30	12	9	T	0	9.9	n.	34	w.	9	5	8	18	7.4	47
New Orleans C. O.	53	76	84	1,015.6	------	------	71	54	62.7	-.1	83	26	40	19	143	----	--	11.83	+7.1	6.42	13	3	T	0	7.5	se.	26	se.	21	10	8	13	5.7	63
New Orleans A. P. [2]	30	6	52	1,015.6	1,017.7	+.1	71	52	61.8	------	82	30	39	4	164	53	75	8.13	------	----	12	7	T	0	9.2	ne.	--	------	--	7	7	17	6.7	--
WEST GULF									60.8	+.3							73	3.17	+.4														6.8	
Shreveport [2]	181	5	64	1,009.8	1,016.9	.0	69	46	67.4	-1.0	80	30	34	3	244	49	74	2.94	-1.2	.87	10	6	T	0	10.5	sse.	57	s.	21	5	7	19	7.2	52
Fort Smith [2]	463	6	30	999.3	1,016.0	-.3	63	40	51.8	-.8	79	29	28	2	410	39	66	3.32	+.3	1.47	8	4	.7	0	9.0	ene.	38	e.	25	7	8	16	6.7	58
Little Rock [2]	265	26	58	1,004.1	1,017.5	+.6	62	42	52.0	-1.0	77	30	32	1	408	42	69	7.33	+2.7	2.87	9	8	T	0	9.4	se.	38	nw.	9	6	10	15	6.3	47
Austin [2]	621	5	41	993.2	1,015.8	+.6	72	49	60.5	-.2	83	6	35	3	172	50	72	2.24	-.1	1.28	7	4	.0	0	9.3	se.	32	nw.	9	7	9	15	6.6	57
Brownsville [2]	20	5	54	1,010.8	1,013.5	-.7	78	63	70.2	+2.0	91	30	49	2	36	63	82	.41	-1.2	.26	5	2	.0	0	13.0	sse.	35	s.	17	4	10	17	7.4	22
Corpus Christi [2]	44	6	33	1,012.9	1,015.2	-.4	75	59	66.8	+3.8	89	21	45	3	67	59	78	1.62	.0	.82	6	5	.0	0	12.9	sse.	37	n.	26	4	7	20	7.4	44
Dallas [2]	488	34	45	997.6	1,015.9	-.4	67	46	56.7	-.7	79	24	32	18	268	45	68	2.76	-.1	1.51	7	1	T	0	11.0	s.	38	sw.	26	9	11	11	6.5	50
Fort Worth [2]	706	40	56	990.5	1,016.0	+.1	68	46	57.0	+.3	78	24	31	18	255	43	64	3.69	+1.4	2.37	6	4	T	0	15.6	sse.	--	------	--	8	7	16	6.3	--
Galveston [4]	54	122	129	1,015.6	1,016.3	-.6	68	58	63.2	+.8	80	21	42	2	111	58	83	3.04	+.4	1.23	7	6	.0	0	13.4	e.	45	w.	21	4	13	14	7.0	43
Houston [4]	138	157	190	1,013.5	1,016.4	-.5	71	55	63.2	-.1	85	6	40	1	127	56	79	3.05	-.4	1.07	12	9	.0	0	11.4	se.	37	se.	21	4	10	17	7.2	41
Laredo [2]	418	10	38	994.9	1,013.8	------	80	59	69.4	+1.6	93	25	45	1	50	53	62	.34	-.5	.32	4	3	.0	0	10.5	se.	--	------	--	4	7	20	7.5	--
Palestine	510	64	72	998.0	------	------	69	49	58.8	-.3	78	6	34	2	210	----	--	2.85	-.6	1.43	10	4	.0	0	8.3	s.	29	se.	21	8	9	14	6.3	63
Port Arthur [4]	34	59	134	1,015.2	1,016.4	-.2	70	55	62.2	+.3	80	21	41	2	130	55	81	8.46	+5.2	2.75	11	9	T	0	14.7	s.	43	s.	21	6	9	16	6.6	56
San Antonio [2]	794	6	51	986.8	1,015.3	-.3	73	51	62.2	-.6	90	6	36	10	130	50	69	2.27	+.4	1.27	8	2	T	0	9.4	se.	40	w.	13	7	6	18	6.8	54

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 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	%
OHIO VALLEY AND TENNESSEE									44.8	+1.5							69	4.31	+.1														7.0	
Chattanooga [2]	762	6	66	993.2	1,018.5	+.5	64	39	51.5	+2.4	81	26	20	16	432	38	65	5.26	−.5	1.18	13	5	T	0	6.4	s.	34	w.	10	7	7	17	6.5	44
Knoxville [2]	995	27	71	979.3	1,018.5	+.9	61	38	49.4	+1.9	83	26	19	16	491	36	64	5.06	.0	1.66	12	4	T	0	9.4	sw.	38	nw.	6	7	6	18	6.7	51
Memphis [5]	399	5	49	1,007.1	1,017.8	+.2	60	43	51.6	−.7	77	24	27	1	433	40	68	5.42	+.2	1.82	10	6	T	0	8.6	se.	34	sw.	9	6	10	15	6.7	56
Nashville [2]	546	5	72	995.9	1,018.0	.0	60	39	49.5	+.3	79	24	21	1	493	38	67	5.46	+.4	1.59	12	4	T	0	9.4	sse.	34	se.	21	7	6	18	6.8	50
Lexington [2]	989	4	58	982.1	1,018.2	+.6	54	34	44.2	+.5	76	26	16	16	649	34	70	5.06	+.7	1.35	13	3	3.9	0	11.3	sw.	--	------	--	3	11	17	7.2	--
Louisville [2]	525	5	54	999.7	1,017.7	+.8	57	36	46.2	+2.1	78	24	19	1	589	35	67	5.65	+1.3	1.78	14	1	2.6	0	9.3	ese	42	sw.	22	5	10	16	7.1	56
Evansville [2]	431	6	40	1,003.7	1,018.0	+.4	55	35	45.0	+.6	76	25	18	1	628	36	72	8.50	+4.3	3.03	13	5	5.8	0	9.5	nnw.	34	s.	21	7	12	12	6.5	56
Indianapolis [2]	823	5	54	987.5	1,017.5	+.9	51	31	41.0	+2.2	74	25	16	7	744	33	72	3.16	−.8	1.72	10	2	5.1	0	11.7	wnw.	47	sw.	27	3	8	20	7.2	46
Terre Haute [2]	575	4	36	995.6	1,017.8	+1.2	52	32	41.8	+1.2	73	25	17	1	717	33	71	2.99	−.8	1.43	13	4	1.6	0	11.6	sse.	48	s.	21	6	10	15	6.8	55
Cincinnati [4]	627	135	148	985.4	1,018.0	+.7	55	37	45.9	+3.1	77	25	22	16	596	33	69	3.86	.0	1.66	11	2	3.1	0	5.4	nw.	17	nw.	31	4	10	17	7.2	54
Columbus [4]	822	90	110	986.8	1,017.5	+.6	50	34	42.0	+2.9	76	30	16	1	711	32	71	2.80	−.7	.91	12	0	1.7	0	10.9	sw.	39	sw.	27	5	8	18	7.1	57
Dayton [2]	1,003	6	55	980.7	1,017.6	+1.3	49	32	40.2	+1.5	73	25	17	16	770	31	72	3.31	−.4	1.27	11	3	6.4	0	12.5	s.	45	s.	27	5	7	19	7.2	49
Elkins [2]	1,947	5	45	944.8	1,018.0	+.4	50	28	39.2	+.1	78	24	11	1	796	30	72	3.02	−.8	1.03	16	0	7.8	0	7.9	wnw.	32	wnw.	6	5	5	21	7.6	46
Parkersburg	637	77	84	------	------	------	54	34	43.9	+1.1	78	3	17	1	654	----	--	2.03	−1.5	.67	16	0	2.8	0	7.6	nw.	28	e.	27	6	8	17	7.1	41
Pittsburgh [2]	842	39	54	970.2	1,016.7	+.1	50	31	40.6	+3.4	76	27	15	1	758	29	65	3.14	+.1	.70	21	0	6.1	0	11.2	nw.	36	s.	27	3	7	21	7.5	45
LOWER LAKES									35.4	+2.9								2.23	−.5														7.5	
Buffalo [2]	768	34	96	987.5	1,016.4	+.8	42	26	33.6	+2.3	70	25	7	20	961	25	72	2.52	−.1	.77	16	0	14.3	T	15.1	sw.	49	sw.	27	1	7	23	8.0	54
Canton	448	10	61	998.3	1,014.9	+.3	38	19	29.0	+1.2	66	27	−2	20	1,117	20	70	2.00	−.5	.39	17	0	14.5	0	9.0	w.	34	w.	28	4	10	17	7.3	52
Oswego	335	71	85	1,003.1	1,015.6	.0	41	28	34.8	+3.7	73	27	14	7	938	----	--	1.41	−1.2	.41	17	1	7.2	0	11.1	sw.	35	nw.	12	0	6	25	8.4	31
Rochester [2]	523	4	69	994.9	1,016.0	+.1	43	25	34.1	+2.3	78	27	7	2	956	25	72	1.89	−.9	.43	19	0	13.7	2	12.4	wsw.	49	sw.	28	4	8	19	7.5	55
Syracuse [2]	596	5	57	1,000.7	1,016.1	+.5	44	26	35.4	+5.7	76	27	8	19	917	26	68	2.34	−1.0	.83	18	0	17.0	T	10.7	ene.	36	s.	22	1	9	21	8.0	48
Erie [4]	714	57	81	------	------	------	43	30	36.7	+3.2	71	27	16	20	878	----	--	3.28	+.7	1.29	18	1	12.4	0	9.5	w.	29	sw.	28	3	8	20	7.6	39
Cleveland [2]	762	27	54	938.2	1,016.9	+.6	46	29	37.1	+2.6	73	29	11	2	862	29	73	2.66	−.1	.69	18	1	13.2	0	13.6	wsw.	39	w.	27	3	9	19	7.4	44
Sandusky	629	5	67	993.9	------	------	46	30	38.0	+2.9	75	25	17	16	836	----	--	2.10	−.6	.75	11	0	7.1	0	10.8	sw.	33	sw.	27	6	10	15	6.6	44
Toledo [2]	628	5	47	993.2	1,017.0	+.4	46	28	36.6	+2.8	74	25	12	17	878	28	71	1.82	−.7	.67	10	1	6.2	0	13.8	sw.	50	sw.	27	5	10	16	7.3	54
Fort Wayne [2]	857	5	34	986.1	1,017.2	+.6	47	29	38.1	+2.0	72	29	15	17	833	29	72	1.86	−1.4	.52	12	2	2.0	0	9.9	nw.	38	sw.	27	3	8	20	7.5	55
Detroit [2]	730	5	77	993.6	1,017.1	+.8	44	28	35.7	+2.7	73	25	13	1	909	25	66	2.60	+.2	1.52	10	1	2.1	0	12.5	nw.	38	sw.	27	5	7	19	7.4	43
UPPER LAKES									29.9	+2.5								2.31	+.2														7.2	
Alpena	609	5	89	993.2	------	------	36	22	29.0	+3.5	61	25	7	1	1,118	----	--	.90	−1.1	.39	12	2	3.7	0	11.6	nw.	33	sw.	25	4	8	19	7.5	43
Escanaba	612	51	72	993.2	------	------	34	21	27.6	+3.4	49	28	8	19	1,159	----	--	1.86	.0	.94	11	0	.7	0	12.0	nw.	36	ne.	31	4	10	17	7.4	36
Grand Rapids [4]	707	70	244	990.9	1,016.7	+.4	42	25	33.7	+3.0	67	21	−4	17	974	26	74	2.28	−.2	1.05	10	2	7.6	T	11.9	nw.	61	sw.	27	4	7	20	7.5	48
Lansing [4]	878	5	90	984.1	1,016.9	+1.0	42	26	33.8	+2.2	71	29	10	1	965	25	72	2.61	+.3	1.49	11	0	3.9	0	15.2	sw.	42	ne.	31	7	6	18	7.4	41
Marquette	734	44	73	988.5	------	------	33	21	26.8	+2.0	52	4	6	6	1,185	----	--	2.20	−.1	1.19	12	0	5.7	T	9.0	nw.	35	sw.	7	1	5	25	8.5	41
Sault Ste. Marie [2]	614	10	52	988.2	1,016.2	−.4	31	15	23.0	+2.4	47	26	−10	1	1,302	17	76	1.67	−.1	.48	12	1	5.5	T	11.9	nw.	43	sw.	25	2	9	20	8.0	59
Chicago [2]	673	5	38	993.6	1,016.9	+.3	46	29	37.5	+3.0	73	29	13	15	854	27	69	3.32	+.8	1.72	11	3	.6	0	11.3	nw.	36	w.	27	7	8	16	6.9	58
Green Bay	617	5	32	993.6	------	------	38	23	30.5	+1.9	58	21	8	1	1,069	----	--	3.75	+1.7	1.63	11	5	11.1	7	9.7	s.	28	sw.	27	6	11	14	6.7	48
Milwaukee [2]	681	33	66	990.5	1,016.8	+.9	41	26	33.4	+3.3	65	21	10	1	983	24	70	2.57	+.2	1.37	9	1	3.7	T	14.9	wnw.	45	sw.	25	7	8	16	6.6	49
Duluth [4]	1,133	5	47	964.1	1,017.2	+.6	32	16	24.1	+.4	50	26	−3	14	1,267	14	74	1.93	+.4	.79	7	3	12.1	T	12.9	w.	40	sw.	7	11	7	13	5.5	58
NORTH DAKOTA									22.0	+.2								.54	−.3														7.2	
Fargo [2]	940	5	47	983.7	1,018.4	+1.1	30	14	22.1	−.6	41	31	−10	9	1,329	18	82	.36	−.6	.24	5	0	2.1	T	12.9	n.	31	w.	25	4	10	17	7.2	51
Bismarck [3]	1,677	5	41	956.3	1,018.8	+1.2	32	16	24.0	+2.1	48	27	−5	14	1,269	18	79	.31	−.6	.22	4	0	1.4	0	10.2	wnw.	33	w.	27	6	7	18	7.1	54
Devils Lake	1,478	11	44	962.8	------	------	26	8	17.4	−2.4	38	29	−14	14	1,478	----	--	.77	.0	.39	8	0	8.4	0	8.3	sw.	26	n.	7	6	7	18	7.0	44
Williston	1,878	42	50	947.5	------	------	33	16	24.5	+1.6	48	31	−7	14	1,253	----	--	.73	.0	.44	9	0	5.2	T	6.0	w.	23	nw.	7	6	3	22	7.7	68
UPPER MISSISSIPPI									37.0	+1.1								3.00	+.6														7.1	
Minneapolis-St. Paul [2]	919	43	74	985.1	1,017.0	+1.4	37	22	29.5	−.1	56	20	1	15	1,103	21	70	3.37	+2.0	1.06	10	1	8.3	5	12.2	nw.	34	ne.	30	4	6	21	7.6	38
La Crosse [2]	672	5	29	991.2	1,016.8	+.9	39	24	31.6	+1.8	59	24	4	1	1,038	24	73	3.21	+1.6	1.08	8	1	.7	1	10.9	nw.	43	sw.	25	3	7	21	7.6	45
Madison [2]	974	27	39	984.4	1,017.0	+.4	41	24	32.8	+2.2	64	28	5	1	1,001	23	70	2.35	+.3	.91	8	3	1.8	T	14.3	nw.	43	sw.	25	3	12	16	7.1	47
Charles City	1,015	10	51	976.3	1,014.2	−2.4	39	25	31.8	+1.1	60	24	5	1	1,031	----	--	2.45	+.7	.67	8	1	1.6	T	7.8	nw.	28	sw.	24	5	8	18	7.1	39
Moline [2]	606	6	50	994.9	1,017.6	+1.0	46	28	37.1	+2.3	70	29	11	1	868	27	68	2.76	+.4	.94	9	3	.9	0	12.0	w.	42	s.	24	7	7	17	6.7	48
Des Moines [4]	860	5	99	981.4	1,017.2	+.9	44	28	36.2	+.3	69	24	11	15	892	28	77	2.53	+.8	.91	7	1	.5	0	11.1	n.	42	s.	24	4	5	22	8.0	33
Dubuque	699	60	79	990.9	1,016.9	+.3	43	27	35.2	+1.2	66	24	8	15	921	25	71	2.25	+.2	.86	9	1	.5	0	6.8	nw.	21	se.	24	5	8	18	7.2	46
Burlington [2]	702	4	36	990.9	1,017.4	+.5	48	28	37.6	−.3	76	29	8	1	851	29	74	2.93	+.2	.91	9	1	.8	0	11.6	sse.	38	w.	27	6	7	18	6.7	49
Cairo	357	5	99	1,004.7	------	------	57	40	48.4	+.7	76	24	24	15	518	----	--	7.00	+3.2	3.36	15	3	4.0	0	10.2	ne.	34	n.	9	8	6	17	6.6	62
Peoria [2]	609	7	26	995.3	1,017.5	+.9	49	30	39.0	+.7	74	29	12	1	805	28	68	2.57	−.2	.94	7	2	.1	0	13.4	s.	49	sw.	27	9	4	18	6.7	62
Springfield, Ill. [4]	636	5	191	994.6	1,017.5	+1.2	50	31	40.6	+2.4	72	29	15	1	755	31	72	2.01	−1.2	1.05	10	2	1.6	0	14.4	s.	45	sw.	27	6	7	18	7.1	58
St. Louis [4]	568	33	59	996.3	1,017.4	+.5	53	35	44.4	+.3	75	24	15	15	645	34	70	2.54	−.8	.59	12	4	11.5	0	12.5	s.	34	n.	9	5	15	11	6.4	48
MISSOURI VALLEY									37.7	.0							75	2.07	+.2														7.4	
Columbia, Mo. [4]	784	6	66	987.8	1,017.4	+.8	52	33	42.8	−.1	77	29	12	15	688	32	72	2.03	−.9	.53	11	2	8.5	0	8.6	s.	26	s.	24	5	10	16	7.0	46
Kansas City [2]	963	38	76	988.8	1,016.8	+.5	52	34	42.9	+.2	78	29	11	15	684	31	67	2.92	+.6	.90	10	2	4.0	0	10.0	s.	42	sw.	24	4	11	16	7.4	46
St. Joseph [2]	967	5	51	986.1	1,016.5	+.2	51	30	40.6	+.1	76	28	9	15	758	31	71	2.82	+.3	1.31	9	2	2.4	0	12.8	s.	43	sw.	24	2	12	17	7.5	45
Springfield, Mo. [2]	1,324	5	50	970.5	1,017.0	+.7	54	34	43.8	+.2	75	5	14	15	657	35	73	2.58	−.8	.94	10	5	5.8	0	13.2	sse.	35	nw.	9	6	6	19	7.1	49
Topeka [4]	987	65	87	983.7	1,016.6	+.7	52	33	42.4	−.2	75	28	7	15	698	33	73	2.37	+.3	1.05	9	2	2.6	0	10.1	s.	34	sw.	24	4	9	18	7.1	43
Lincoln [4]	1,189	6	81	972.2	1,016.7	+.4	46	29	37.3	−.2	73	28	1	15	860	30	80	1.38	+.1	.47	10	0	3.2	0	10.6	n.	38	s.	24	3	7	21	8.0	40
Norfolk, Nebr. [3]	1,551	5	38	959.7	1,017.0	------	40	25	32.2	−3.2	61	24	−3	15	1,017	27	81	2.93	+1.6	1.07	11	2	3.1	T	----	n.	--	------	--	5	7	19	7.5	--
Omaha [2]	1,105	5	68	980.4	1,016.9	+.3	45	29	36.6	+.5	69	20	6	15	882	28	75	1.40	.0	.58	11	1	1.5	0	13.2	n.	52	sw.	24	2	9	20	7.7	39
Valentine	2,598	46	54	922.5	1,016.6	.0	43	22	32.6	+.3	73	20	−14	15	1,001	24	72	1.59	+.6	.43	8	1	14.1	2	8.7	n.	29	s.	23	7	8	16	6.5	61
Sioux City [2]	1,138	5	40	976.0	1,017.2	+.6	40	26	33.2	+1.1	66	24	1	15	984	28	82	1.70	+.6	.60	9	1	3.0	0	11.5	nw.	43	e.	30	4	5	22	7.8	39
Huron [3]	1,301	5	41	969.5	1,017.8	+.5	40	22	30.6	+1.7	56	4	−2	15	1,065	24	79	1.05	+.1	.53	8	1	5.1	0	11.5	n.	37	n.	30	5	6	20	7.5	39

See footnote at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 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	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	%
NORTHERN SLOPE									30.3	−1.1							70	1.17	+.4														6.6	
Billings [2]	3,570	16	39	889.3	1,016.6	−1.0	42	22	32.0	−2.0	58	6	−1	14	1,028	21	68	.92		.35	9	0	7.6	0	9.8	sw.	49	w.	27	8	6	17	6.5	58
Butte	5,533	44	58	826.3	1,019.4		37	8	22.8	−5.5	50	19	−8	10	1,308	16	74	.64	.0	.15	10	0	13.1	6	6.5	s.				7	4	20	7.0	
Glasgow	2,086	34	53	940.7	1,018.2		41	16	28.6	+3.0	60	31	−10	14	1,125	19	72	.20	−.6	.07	7	0	2.2	0						8	11	12	6.1	
Great Falls [2]	3,657	16	75	886.9	1,016.7		41	22	31.2	−3.1	58	19	−4	14	1,050	19	65	1.11	+.2	.28	10	0	13.8	0	12.2	sw.	54	sw.	27	7	9	15	6.4	69
Havre	2,507	11	67	926.2	1,018.0	+1.4	40	18	28.9	+1.8	60	6	−11	14	1,119			.41	−.1	.18	7	0	5.1	0	7.2	w.	27	nw.	27	10	6	15	6.0	62
Helena [2]	4,124	5	43	872.0	1,018.5	+3.3	40	18	28.8	−2.9	55	6	−3	10	1,124	19	69	.69	−.1	.25	8	0	12.1	0	7.6	w.	44	nw.	27	6	10	15	6.4	69
Missoula [2]	3,263	4	32	900.4	1,017.4	+.1	42	21	31.7	−1.8	51	31	7	17	1,031	23	74	.51	−.3	.23	11	0	8.1	0	5.1	nw.	26	se.	16	7	5	19	6.9	50
Kalispell	2,973	48	56	910.6	1,016.6	+.7	40	22	31.0	−1.9	49	21	1	14	1,056			1.30	+.4	.55	15	0	18.0	T	5.3	w.	19	n.	13	8	4	19	6.9	44
Miles City [2]	2,371	5	28	931.6	1,018.6	+1.0	37	15	26.2		51	22	−15	10	1,204	20		.51		.16	8	0	5.6	0	8.2	wnw.				10	4	17	6.5	
Rapid City [2]	3,259	5	56	901.5	1,017.2	−.1	41	20	30.7	−.9	57	22	−6	10	1,062	22	74	.25	−.7	.08	7	0	2.9	0	13.5	nnw.	43	nw.	24	8	8	15	6.3	70
Cheyenne [2]	6,094	22	40	806.6	1,014.6	−.6	43	21	32.2	−.9	60	19	6	31	1,020	21	67	2.44	+1.4	1.06	11	0	20.2	2	13.0	wnw.	45	w.	27	9	6	16	6.9	56
Lander [2]	5,352	6	30	824.9	1,014.9	−.7	44	22	33.0	+.6	62	19	11	14	985	22	66	1.88	+.7	1.26	8	0	20.2	1	6.1	sw.	28	w.	27	6	11	14	6.3	64
Sheridan [2]	3,790	5	38	876.4	1,016.9	+.3	43	20	31.4	.0	57	4	−4	10	1,041	21	69	1.15	.0	.39	10	0	13.8	0	7.2	nw.	43	nw.	27	9	7	15	6.1	57
North Platte [2]	2,821	11	51	915.7	1,015.8	−.5	46	25	35.4	−1.2	72	20	−7	15	922	27	75	4.37	+3.5	1.47	9	2	19.9	14	12.3	n.	65	n.	30	5	8	18	7.4	43
MIDDLE SLOPE									43.7	−.3							68	1.53	.0														6.7	
Denver [4]	5,292	106	113	832.4	1,013.0	−1.2	51	30	40.3	+1.0	73	19	16	14	765	21	58	2.41	+1.4	.61	10	1	15.4	4	7.4	s.	31	n.	26	3	11	17	7.1	60
Pueblo [2]	4,690	5	36	849.0	1,013.1	−.4	59	26	42.6	+1.8	77	16	16	15	692	24	56	.79	+.2	.37	7	1	7.8	0	7.3	w.	45	sw.	23	6	10	15	6.2	64
Concordia	1,392	50	58	966.5	1,017.3	+1.0	47	31	39.0	−2.0	73	28	6	15	808	32	78	1.03	−.2	.50	11	2	2.9	0	9.9	s.	32	sw.	24	8	4	19	7.1	41
Dodge City [2]	2,509	5	58	923.1	1,014.7	−1.2	53	30	41.8	−1.0	76	23	14	15	722	32	76	1.55	+.7	.60	8	1	.4	0	18.7	s.	49	sw.	7	6	9	16	6.5	48
Wichita [2]	1,358	52	64	964.8	1,015.6	+.4	54	34	43.7	−1.4	74	28	12	15	661	34	70	2.01	+.3	.81	8	3	.8	0	17.5	s.	49	s.	28	6	7	18	7.0	50
Oklahoma City [4]	1,214	10	47	968.2	1,015.8	+.2	61	39	50.0	.0	76	28	25	18	467	38	70	1.43	−.6	.66	7	2	T	0	11.0	s.	28	s.	23	12	4	15	5.8	60
Tulsa [2]	674	10	60	991.2	1,016.2		60	38	48.8	−.6	77	24	24	15	509	38	70	1.50	−1.5	.56	9	2	1.3	0	13.6	s.	37	w.	30	5	8	18	7.0	54
SOUTHERN SLOPE									54.6	+.3							59	.64	−.4														5.9	
Abilene [2]	1,755	4	59	952.3	1,014.1	−.8	68	44	55.6	+.4	80	12	30	18	298	41	63	1.12	−.2	.65	3	2	T	0	15.2	s.	56	s.	20	4	6	21	7.2	63
Amarillo [2]	3,604	5	42	888.6	1,013.3	−1.3	61	33	46.7	+1.4	79	16	18	15	567	32	65	.57	−.1	.41	4	2	T	0	16.1	s.	61	sw.	29	10	9	12	5.6	66
Del Rio	960	63	71	979.7	1,013.6	−1.0	73	54	63.7	+.2	84	17	42	1	96	49	64	.35	−.4	.29	5	2	.0	0	9.8	se.	29	nw.	9	8	7	16	6.3	52
Roswell	3,614	6	29	888.6	1,011.8	−1.7	71	36	53.4	+2.1	81	28	27	2	358	25	39	T	−.7	T	0	0	T	0	10.2	s.	65	w.	20	14	8	9	4.3	74
Wichita Falls	1,030	4	49	977.7	1,015.1		65	42	53.6	−2.4	80	23	27	18	357	40	65	1.16	−.7	.60	5	3	T	0	16.5	s.				9	6	16	6.2	
SOUTHERN PLATEAU									53.6	+.5							39	.34	−.5														5.0	
El Paso [2]	3,916	35	85	872.7	1,011.0	−1.9	71	43	57.0	+2.1	82	19	31	1	257	24	30	.04	−.3	.02	2	1	T	0	11.5	sw.	61	sw.	25	13	5	13	5.2	85
Albuquerque [2]	5,314	5	45	834.1	1,011.1	−2.1	62	34	47.9	+2.0	74	19	23	1	530	22	40	.65	+.2	.53	4	1	3.0	0	9.3	nnw.	56	se.	31	11	11	9	5.2	77
Flagstaff	6,907	34	48	786.7	1,015.1	+2.2	50	21	35.4	−1.1	63	19	3	1	915	19	54	.75	−1.4	.28	8	0	6.9	1	6.5	nnw.				4	17	10	6.4	
Phoenix [4]	1,107	39	87	973.6	1,013.0	−.5	74	47	60.4	−.3	85	18	39	30	148	31	39	.38	−.3	.27	3	0	.0	0	7.0	e.	32	nw.	25	14	8	9	4.2	88
Tucson [2]	2,555	5	39	924.1	1,012.7	+.2	73	42	57.6	−.1	87	19	31	9	230	25	32	.19	−.6	.18	2	1	.1	0	8.4	se.	34	sw.	31	11	10	10	5.4	88
Yuma	142	9	54	1,008.1	1,013.4	−.8	77	49	63.2		87	15	42	24	84	35		.04		.04	2	0	.0	0	8.2	wnw.	56	nw.	28	17	8	6	3.8	95
MIDDLE PLATEAU									39.3	+.1							63	1.38	+.3														8.1	
Ely [2]	6,262	8	41	804.9			43	21	31.8	−.7	57	19	7	6	1,030			.53	−.7	.23	8	2	5.5	0	12.5	s.	40	se.	19	0	10	21	8.4	55
Reno [2]	4,527	20	52	862.9	1,014.0	−2.6	53	27	40.2	+.2	66	15	16	29	767	25	59	.74	−.1	.29	8	0	2.7	0	8.7	s.	61	s.	19	1	10	20	8.0	44
Winnemucca	4,339	5	56	864.9			50	29	39.5	−.5	66	18	15	29	793			.91	.0	.22	11	1	3.0	0	8.1	sw.	27	sw.	19	2	4	25	8.4	35
Salt Lake City [2]	4,357	32	58	867.9	1,013.2	−3.1	52	33	42.4	+2.4	71	19	25	28	702	31	67	2.95	+1.2	1.06	12	2	2.3	0	9.1	sse.	49	nw.	16	1	7	23	8.4	52
Grand Junction [2]	4,602	5	26	849.0	1,013.9	+.4	53	33	42.8	−.8	71	19	29	2	687	29	63	1.75	+1.0	.78	11	0	11.0	0	6.1	ese.	33	s.	11	2	10	19	7.5	51
NORTHERN PLATEAU									40.6	−.1							70	1.08	.0														7.1	
Baker [4]	3,471	36	54	893.3	1,015.5	−2.5	48	30	39.2	+1.6	56	16	18	28	799	29		.51	−.6	.12	12	0	T	0	5.9	se.	21	n.	23	6	8	17	7.2	35
Meacham	4,056	7	28	873.7	1,015.9		41	28	34.8		52	4	16	28	936	29	81	1.25		.18	15	0	7.9	25	6.2	se.				2	7	22	8.1	
Boise [2]	2,739	5	49	917.4	1,014.4	−3.6	53	33	43.2	+1.8	63	19	20	28	681	30	63	.48	−.9	.22	7	0	.0	0	10.3	se.	30	nw.	23	5	6	20	7.3	54
Lewiston	1,436	4	23	961.7	1,014.2		53	35	44.0		62	18	26	28	649	34	71	.93		.22	12	0	.4	0	6.2	e.				6	7	18	7.1	
Pocatello [2]	4,478	5	31	860.1	1,015.0	−1.6	48	29	38.8	+2.9	62	19	21	30	815	26	64	1.10	−.2	.57	12	0	3.8	0	10.5	sw.	38	w.	27	4	9	18	7.2	52
Ellensburg [2]	1,735	5	58	952.6	1,016.3		48	29	38.7	−2.2	59	31	16	1	815	30	75	1.16	+.6	.46	10	0	4.0	0	9.2	nw.				7	6	18	6.8	
Spokane [2]	1,929	6	51	945.8	1,015.7	−.9	47	29	38.0	−1.7	56	4	21	9	836	28	71	2.17	+1.0	.42	14	1	4.0	0	7.0	sw.	33	sw.	26	6	8	17	6.9	51
Walla Walla	991	57	65	980.0	1,015.9	−1.4	53	37	44.7	−1.4	67	18	26	1	631	36		1.03	−.6	.28	15	0	T	0	5.2	s.	25	w.	25	7	9	15	6.5	55
Yakima [2]	1,076	4	54	976.0	1,015.8	−.8	55	33	43.7	−0.1	65	4	26	15	658	31	65	1.06	+.8	.40	11	0	1.0	0	8.2	wnw.				7	3	21	6.9	
NORTH PACIFIC COAST									45.9	+1.4							77	3.24	−.5														8.2	
Kelso [2]	750	38	76				55	36	45.4		66	4	27	31	609	39	81	3.31		.66	19	1	T	0	5.7	sse.				1	10	20	8.5	
North Head	211	5	55	1,007.1	1,014.9	−3.1	51	42	46.4	+1.2	59	11	35	28	579			5.29	−.3	.94	19	0	T	0	14.0	e.	52	s.	20	3	7	21	8.2	41
Seattle [4]	125	90	321	1,010.8	1,015.6	−1.7	54	41	47.5	+1.1	62	18	34	28	543	39	77	2.86	−.2	1.04	12	0	.0	0	8.7	s.	42	sw.	26	2	8	21	8.0	37
Tacoma	194	172	201	1,008.1	1,015.2	−2.1	52	40	46.3	+2.1	61	18	31	28	582			3.29	−.2	.87	17	0	T	0	7.6	n.	35	s.	26	6	9	16	7.1	44
Tatoosh Island	86	5	61	1,011.9	1,014.7	−1.6	49	41	44.7	+1.8	56	18	37	28	627	38	81	6.44	−1.4	1.05	21	0	T	0	16.0	e.	49	s.	26	6	2	23	7.7	38
Burns	4,162	35	47	870.3	1,014.6		48	28	38.0	+1.7	57	18	19	28	835	28	70	.77	−.2	.18	15	0	2.4	0						0	8	23	8.3	
Eugene [2]	433	4	35	1,001.7	1,014.2		55	39	46.8		64	16	32	28	561	42	86	3.52		.47	22	0	.0	0	6.7	s.				1	6	24	8.6	
Medford [2]	1,329	29	58	967.2	1,015.3	−2.7	57	38	47.4	+0.5	64	12	26	31	542	35	68	1.08	−.4	.34	13	0	T	0	7.5	n.				2	8	21	8.3	
Portland, Oreg. [4]	154	68	106	1,009.8	1,015.9	−2.4	54	42	48.0	+1.1	64	4	36	24	526	39	80	3.33	−.6	.60	21	0	.0	0	5.9	se.	25	e.	10	2	5	24	8.3	31
Roseburg	510	45	76	997.0	1,015.8	−3.2	56	41	48.5	+1.4	68	18	34	31	512	40	72	2.49	−.8	.63	24	1	.0	0	3.9	s.	20	s.	19	0	7	24	8.5	27

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR MARCH 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: 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	Sky cover [7] tenths (sunrise to sunset)	Possible sunshine
MIDDLE PACIFIC COAST	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	%
Eureka	60	72	88	1,013.9	------	------	55	44	49.8	+1.5	65	13	36	31	468	---	74 --	6.32 / 6.94	+2.8 / +1.7	2.34	23	0	.0	0	8.9	se.	35	ne.	30	3	4	24	7.4 / 8.0	48
Red Bluff [2]	353	5	26	1,003.1	1,016.1	------	58	44	51.3	−2.3	72	29	38	11	423	40	72	8.33	+5.1	1.66	19	3	.0	0	9.2	se.	34	se.	15	5	2	24	7.8	43
Sacramento [4]	66	92	115	1,015.2	1,016.3	−1.3	61	46	53.3	−1.0	69	31	40	8	362	43	75	4.15	+1.6	.82	11	2	.0	0	8.1	se.	30	n.	28	4	9	18	7.1	51
San Francisco [4]	155	112	132	1,015.9	1,016.6	−1.4	58	48	53.2	−1.0	65	29	45	24	366	44	76	5.85	+2.7	1.31	12	0	T	0	10.4	w.	36	w.	27	5	8	18	6.8	50
SOUTH PACIFIC COAST																																		
Fresno [2]	327	5	34	1,006.4	1,016.9	−1.1	65	44	55.5 / 54.4	−.8 / .0	77	18	38	31	327	43	72 / 71	1.92 / 3.60	−.1 / +2.0	.90	13	1	.0	0	5.5	nw.	31	nw.	30	3	12	16	5.9 / 7.2	60
Los Angeles	338	236	263	------	------	------	66	47	56.0	−1.5	72	15	43	12	279	----	--	1.40	−1.4	.70	8	0	.0	0	7.1	w.	38	w.	22	9	12	10	5.5	78
San Diego [2]	87	20	55	1,015.6	1,017.2	+.6	64	48	56.2	−.8	70	15	44	9	272	47	73	.75	−1.0	.32	8	1	.0	0	7.0	wnw.	30	w.	28	7	18	6	5.1	77
WEST INDIES																																		
San Juan, P. R.	82	9	54	1,012.5	1,019.0	------	80	70	75.0	−.4	85	17	67	10	0	----	--	3.20	.0	1.02	17	0	.0	0	11.2	e.	38	e.	25	5	20	6	5.9	59
ALASKA																																		
Anchorage [2]	132	6	44	1,003.1	1,008.1	------	39	20	29.4	+5.7	50	7	7	15	1,101	24	74	1.05	+.5	.65	5	0	12.9	17	5.0	nw.	27	s.	22	8	4	19	6.9	--
Annette Island	113	5	53	1,009.5	1,013.5	------	45	34	39.6	+.3	54	10	28	28	785	32	74	7.79	−.7	2.52	15	0	1.9	0	10.8	nw.	--	------	--	8	1	22	7.1	--
Barrow	29	5	27	1,014.2	1,014.9	------	2	−14	−5.6	+9.0	30	9	−33	2	2,189	14	70	.02	−.1	.01	2	0	.2	15	10.0	nne.	35	e.	3	9	13	9	5.4	--
Bethel [2]	28	5	31	1,003.1	1,003.7	------	27	11	19.0	+7.7	40	7	−16	25	1,429	16	82	2.71	+1.8	1.21	12	0	23.1	21	12.0	e.	--	------	--	9	8	14	5.7	--
Cordova [2]	45	5	32	1,007.5	1,009.1	------	39	25	31.7	+1.5	43	8	11	17	1,034	28	87	9.58	+4.1	3.56	18	0	24.3	19	5.4	ese.	30	ese.	23	6	4	21	7.0	--
Fairbanks [2]	455	5	63	991.5	1,009.1	------	34	6	20.0	+10.4	50	9	−11	28	1,395	18	79	.38	−.3	.13	9	0	5.4	15	----	e.	22	sw.	24	10	5	16	6.0	--
Galena	139	4	66	1,003.4	1,008.1	------	26	6	16.4	+12.0	40	9	−20	30	1,503	11	69	.80	.0	.18	13	0	7.9	26	----	n.	30	e.	2	11	5	15	5.8	--
Gambell	32	5	32	1,003.4	1,004.4	------	17	9	12.8	+6.8	34	10	−10	25	1,618	10	87	.71	−.1	----	13	0	7.0	24	23.0	nne.	56	se.	12	6	5	20	8.0	--
Juneau [2]	80	6	30	1,012.5	1,013.5	------	42	28	35.2	+2.4	49	26	18	10	925	28	75	2.09	−1.0	.68	16	0	1.7	0	----	ese.	34	se.	24	9	2	20	6.5	--
Kotzebue [2]	20	5	31	1,008.1	1,008.8	------	19	4	11.2	+12.4	34	10	−26	28	1,665	9	84	.56	+.3	.12	10	0	5.7	20	----	ese.	--	------	--	8	4	19	6.8	--
McGrath [2]	341	5	31	994.6	1,007.8	------	30	6	17.7	+10.3	46	9	−23	27	1,467	12	66	1.33	+.2	.51	15	0	13.6	34	----	nnw.	29	sse.	21	6	7	18	6.9	--
Nome [2]	22	10	75	1,013.9	1,014.6	------	24	11	17.9	+9.2	36	7	−22	29	1,463	15	87	1.41	+.6	.31	14	0	13.8	74	17.0	e.	50	e.	9	7	4	20	6.7	--
Northway [2]	1,718	5	32	946.8	1,011.9	------	30	−7	11.6	+3.5	43	22	−25	17	1,667	6	66	T	−.3	T	0	0	T	8	2.5	nw.	--	------	--	10	7	14	5.8	--
HAWAII																																		
Honolulu [4]	38	86	98	1,017.6	------	------	76	67	71.7	+.3	79	20	64	15	0	----	--	.67	−2.5	.14	14	1	.0	0	10.6	ne.	31	ne.	13	14	14	3	4.4	74

[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, remainder 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.