CLIMATOLOGICAL DATA FOR DECEMBER 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	49.9	+2.3	Brewton, 3 SSE	82	12	Valley Head	15	16	4.01	−1.27	Barton	6.49	Newton	1.54
Arizona	41.1	−1.2	Gila Bend	89	5	Maverick	−29	12	1.24	−.06	Workman Creek	4.54	Ehrenberg	.00
Arkansas	44.9	+2.1	Portland	85	12	Lead Hill	9	14	4.77	+.53	Beaty Lake	10.08	Gilbert	1.58
California	43.3	−2.3	Indio, U. S. Date Garden.	94	2	Bridgeport Dam	−17	20	1.94	−1.73	Gasquet R. S	9.70	Lucerne Valley Tanner Ranch.	T
Colorado	27.0	+1.1	Edgewater	76	5	Wagon Wheel Gap	−31	12	.55	−.34	Wolf Creek Pass	5.68	7 stations	.00
Florida	63.6	+3.6	2 stations	86	[1] 5	Jasper, 10E	25	6	2.39	−.40	Loxahatchee	10.62	2 stations	.03
Georgia	50.6	+2.2	do	83	12	Blairsville Exp. Sta	12	24	2.52	−1.61	Flat Top	10.40	Valdosta WBAS	.74
Idaho	26.3	.0	Swan Falls	60	29	2 stations	−27	20	1.72	−24	Roland West Portal	12.48	Grand View	T
Illinois	35.7	+4.5	2 stations	73	11	do	−7	[1] 23	4.72	+2.57	Washington	7.88	Rockford	1.86
Indiana	35.8	+3.5	do	70	[1] 20	Elwood Water Works	1	15	4.21	+1.47	Hobart, 1 NE	6.97	Winchester Power Plant.	2.31
Iowa	27.1	+2.7	6 stations	68	[1] 11	Decorah	−22	24	1.07	−.02	Muscatine	3.25	Council Bluffs, 6 NE	.11
Kansas	34.4	+1.3	Lakin	73	5	Centralia	−8	23	.87	+.01	Ft. Scott	3.69	8 stations	T
Kentucky	40.9	+3.1	Ashland Dam 29	73	22	Farmers	7	16	5.70	+1.90	Elizabethtown	11.64	Hindman Settlement Sch.	3.21
Louisiana	55.4	+2.8	2 stations	85	[1] 11	Chatham	19	16	5.00	−.32	Evans	9.42	Oak Ridge	1.88
Maryland-Delaware.	38.9	+3.5	Cheltenham, Md	77	23	Friendsville, Md	−1	16	2.28	−.89	Clear Spring, Md	4.33	Ocean City, Md	.39
Michigan	27.4	+2.7	5 stations	63	[1] 11	Watersmeet U. S. Forest.	−21	[1] 24	2.80	+.86	Coloma, 2 S	6.32	L'Anse, 7 NE	.58
Minnesota	14.7	−1.1	Red Wing Dam 3	56	11	Warroad	−37	24	1.02	+.26	2 stations	1.91	Little Falls	.25
Mississippi	51.5	+3.1	5 stations	83	[1] 11	2 stations	16	16	4.23	−1.02	Mount Pleasant	8.15	Pickens	1.59
Missouri	38.1	+3.8	Camdenton	82	11	Tarkio	−12	23	3.67	+1.49	Wappapello Dam	6.36	Oregon	.41
Montana	17.6	−5.2	Columbus	67	5	2 stations	−34	[1] 13	.88	+.11	Summit	8.73	Ennis	.07
Nebraska	28.4	+1.3	Trenton	72	2	Bridgeport	−14	12	.29	−.39	Springview	1.20	6 station	T
Nevada	31.4	−1.3	2 stations	79	[1] 1	Mala Vista Ranch	−20	20	.48	−.48	Mt. Charleston Lodge	2.45	Lathrop Wells	.00
New England	29.5	+3.2	East Deering, N. H	67	27	Campton, N. H	−18	10	2.51	−.81	Shepaug Dam, Conn	5.94	Woodstock, Vt	1.04
New Jersey	37.1	+3.5	2 stations	66	[1] 22	Layton	−1	10	2.90	−0.63	Long Valley	5.31	Cape May	.80
New Mexico	33.9	−1.5	do	76	[1] 1	Galivan	−31	22	.55	−.20	Mogollon	3.01	3 stations	.00
New York	29.8	+3.1	Hilton	71	22	Indian Lake	−19	10	2.74	−.21	Richland	8.16	Dansville AP	.76
North Carolina	45.3	+2.7	Goldsboro	80	13	Mt. Mitchell	6	23	2.30	−1.49	Highlands	10.88	Oxford Exp. Sta	.41
North Dakota	8.6	−4.6	New England	62	2	Center	−38	14	.65	+.17	Jamestown CAA	1.97	Reeder, 14N	T
Ohio	35.6	+3.9	2 stations	70	21	Mansfield, 6 W	−4	9	2.96	+.27	Portsmouth	5.14	Vickery, 2NW	1.11
Oklahoma	41.6	+1.5	Clayton	80	12	Kenton	−1	12	1.64	−.07	Battiest	6.48	Kenton, 5N	.08
Oregon	33.8	−.5	3 stations	69	[1] 4	Danner	−25	20	3.57	−.69	Valsetz	20.00	Rome CAA Airport	.02
Pennsylvania	33.6	+2.4	Johnstown No. 1	70	23	Hawley, 1 S Wallen Dam.	−8	10	3.32	+.25	Eagles Mere	5.66	Covington	1.06
South Carolina	47.9	+1.1	Yemassee	81	14	Walhalla	17	24	1.92	−1.60	Sassafras Mtn	7.26	Walterboro	.82
South Dakota	19.3	−2.7	Pickstown	68	3	Pollock	−27	24	.65	+.14	Spearfish	2.39	2 stations	T
Tennessee	43.7	+2.9	2 stations	77	11	3 stations	10	16	5.18	+.65	Moscow	9.97	Limestone TVA	1.44
Texas	50.1	+1.2	Rio Grande City	93	12	Dalhart Exp. Station	1	12	2.38	+.06	Anahuac	11.23	Agua Nueva	.00
Utah	26.2	−.9	Zion Natl. Park	70	4	Woodruff	−25	12	1.81	+.71	Alta	11.76	Callao	.00
Virginia	40.6	+2.5	5 stations	73	12	Gordonsville	5	17	2.18	−.87	Olinger	4.91	Speedwell	.96
Washington	32.9	−1.3	Forks, 1 E	64	1	Lacrosse, 3 ESE	−17	20	5.34	−.10	Quinault Ranger Sta. E.	28.55	Prosser, 4NE	.05
West Virginia	37.9	+3.2	Williamson	73	22	Shady Springs	1	16	3.82	+.55	Clay No. 1	7.05	Brushy Run	1.29
Wisconsin	22.6	+1.9	2 stations	61	[1] 11	Hatfield Power Co. Dam.	−31	23	1.28	−.01	Kenosha	3.75	Ashland Exp. Farm	.11
Wyoming	22.1	.0	Buffalo	67	1	2 stations	−30	12	.71	−.07	Snake River	2.71	3 stations	T
Alaska														
Hawaii	69.7	−.5	Puunene AP	89	16	Haleahala RS	35	5	7.77	−.23	Kukui	48.00	Olowalu	.03
Puerto Rico	73.6	−1.0	Coloso (2)	95	27	Utuado	50	22	5.61	−1.49	Rio Blanco (1800 ft.)	14.73	Aguirre	.86

[1] Other dates also

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR DECEMBER 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	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: Partly cloudy	Character of day: Cloudy	Sky cover,[7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F	°F	°F.	°F		°F.			°F.	%	In.	In.	In.			In.	In.	m. p. h.					0-3	4-7	8-10	0-10	%
NEW ENGLAND																																		
									30.7	+4.2							73	2.48	−1.3														6.1	
Caribou[2]	628	5	33	996.6	1,021.2	------	27	12	19.6	+6.4	43	23	−9	11	1,405	12	72	2.14	−.4	.58	12	0	10.5	1	13.6	w.	54	nw.	30	4	10	17	7.3	--
Eastport	75	67	82	1,018.6	1,021.7	+7.2	38	25	31.6	+5.3	53	13	8	9	1,038	----	--	2.75	−1.0	.88	11	0	3.2	0	11.2	------	39	nw	29	9	6	16	6.5	52
Portland, Me.[2]	103	6	43	1,019.0	1,023.1	+6.2	40	20	30.0	+5.0	60	22	−8	10	1,081	23	76	1.75	−2.2	.39	11	0	5.3	0	6.4	w.	33	w.	28	14	3	14	5.2	62
Concord[2]	289	5	45	1,012.9	1,024.2	+7.6	39	17	28.0	+4.0	63	22	−13	10	1,147	20	74	1.39	−1.7	.44	12	0	6.5	0	4.9	wnw.	37	w.	29	12	5	14	5.7	51
Mt. Washington	6,274	5	37	837.1	1,024.7	------	20	4	11.8	+3.2	40	22	−20	29	1,638	----	--	3.69	−3.4	.92	17	0	7.2	T	45.1	------	---	------	---	6	3	22	7.5	28
Burlington[2]	403	6	51	1,010.5	1,023.7	+6.1	36	20	28.4	+4.0	57	23	−6	10	1,139	21	74	1.80	−.8	.48	13	0	7.1	1	11.7	s.	52	s.	22	3	11	17	7.4	30
Boston[2]	124	33	62	1,019.6	1,024.6	+7.7	44	29	36.8	+4.3	64	23	15	30	872	26	65	1.64	−1.8	.49	13	0	2.4	0	12.6	sw.	37	nw.	30	12	5	14	5.5	59
Nantucket[2]	12	4	34	1,024.4	1,024.7	+8.1	45	32	38.4	+2.6	55	23	16	10	825	32	76	2.59	−1.2	.76	10	0	T	0	13.0	nw.	45	nw.	29	9	4	18	6.6	36
Block Island	26	11	46	1,023.4	1,024.0	+7.1	46	33	39.4	+3.4	58	23	20	30	797	----	--	3.54	−.3	1.30	13	1	.9	0	17.7	------	61	nw.	6	13	6	12	5.3	57
Providence[2]	159	65	60	1,018.6	1,025.0	+7.4	45	29	37.6	+6.0	62	23	14	10	867	26	70	1.86	−1.5	.57	14	0	1.3	0	9.3	nw.	42	nw.	6	14	4	13	5.2	45
Hartford[2]	159	5	44	1,019.0	1,025.6	+7.3	42	22	32.1	+2.3	60	27	2	10	1,020	25	78	3.40	−.6	.98	13	0	12.6	0	6.8	nw.	35	nw.	29	13	3	15	5.5	54
New Haven[2]	107	5	39	1,021.0	1,025.1	+6.8	43	27	34.9	+4.0	55	28	11	10	933	----	--	3.15	−.6	.75	14	0	4.8	0	6.6	------	26	w.	29	18	3	10	5.2	59
MIDDLE ATLANTIC																																		
									39.0	+3.8							71	2.47	−.8														5.8	
Albany[2]	97	6	40	1,020.7	1,024.7	+6.4	39	21	29.7	+4.2	59	22	−3	10	1,098	23	76	1.65	−1.0	.73	10	0	8.6	0	9.6	s.	40	nw.	29	9	8	14	6.5	38
Binghamton[4]	871	57	79	992.6	1,025.2	+6.9	41	24	32.0	+3.8	60	22	3	10	1,021	23	75	2.65	+.3	1.00	17	0	9.5	0	6.1	wsw.	26	w.	29	4	11	16	7.0	45
New York[4]	314	415	454	1,013.9	1,025.8	+7.2	47	33	40.2	+5.2	62	27	21	30	767	28	66	2.03	−1.6	.69	11	0	.7	0	12.2	nw.	56	nw.	29	14	4	13	5.4	57
Allentown[2]	385	4	58	1,011.5	1,026.6	------	43	26	34.3	+1.6	59	22	13	16	952	26	75	3.17	−.1	1.15	12	0	2.7	0	7.0	nw.	---	------	---	10	8	13	5.8	--
Harrisburg[2]	374	30	49	1,012.2	1,026.7	+6.7	43	28	35.6	+2.9	64	22	15	17	913	25	69	2.77	−.2	1.10	11	0	2.5	0	6.4	wnw.	27	w.	5	9	8	14	6.1	57
Philadelphia[4]	114	174	150	1,016.6	1,026.5	+6.9	47	34	40.8	+4.5	64	27	24	16	753	30	71	3.03	−.4	.79	12	0	.4	0	9.0	wnw.	25	n.	3	14	5	12	5.2	59
Reading	323	47	306	1,013.5	1,026.1	+6.5	45	31	38.0	+3.8	61	22	18	16	836	----	--	3.72	+.2	1.23	10	0	4.5	0	10.4	------	36	nw.	27	10	7	14	6.1	59
Scranton	805	72	104	995.6	1,026.1	+7.1	40	26	33.4	+2.7	60	22	13	10	976	----	--	3.86	+.8	1.29	8	0	4.6	0	6.0	------	28	w.	29	9	11	11	5.7	56
Atlantic City	52	37	172	1,023.7	1,025.7	+6.1	47	34	40.6	+4.2	57	27	22	16	756	----	--	2.15	−1.8	.49	14	0	.0	0	14.7	------	38	w.	23	11	6	14	5.6	67
Newark[2]	30	5	46	1,024.4	1,025.9	------	46	30	38.3	+4.9	64	22	19	9	830	28	67	2.47	−1.3	.86	12	0	1.5	0	10.1	sw.	34	nw.	29	13	5	13	5.4	--
Trenton	190	89	107	1,018.6	1,025.7	+6.7	46	31	38.4	+4.0	63	27	19	16	824	----	--	2.45	−.9	.66	13	0	.6	0	8.6	------	28	nw.	3	9	9	13	5.8	51
Baltimore[4]	123	100	215	1,022.0	1,027.0	+7.4	48	35	41.5	+4.3	66	22	23	16	728	29	68	2.25	−1.1	.78	12	0	T	0	7.7	nw.	37	nw.	7	10	9	12	5.7	50
Washington[4]	112	56	100	1,022.4	1,027.0	+7.0	50	34	42.0	+4.5	67	22	22	17	718	28	77	1.72	−1.6	.39	10	0	T	0	9.4	nw.	37	nw.	27	10	7	14	5.7	57
Cape Henry	18	8	54	1,025.7	1,026.4	+7.8	53	40	46.6	+2.9	73	22	30	4	571	----	--	1.87	−1.6	.72	8	0	T	0	13.3	------	49	n.	23	12	8	11	5.2	58
Lynchburg[2]	686	5	58	991.5	1,026.9	+6.6	50	32	40.6	+3.3	66	19	16	17	753	29	67	2.31	−1.0	.53	12	0	1.5	0	7.8	ssw.	30	nw.	2	12	6	13	5.5	53
Norfolk[4]	91	80	125	1,023.7	1,027.3	+7.0	55	40	47.5	+4.4	73	12	32	16	545	36	69	2.10	−1.2	.99	9	0	T	0	11.6	nne.	26	nw.	2	10	8	13	5.8	54
Richmond[4]	144	11	52	1,020.7	1,027.2	+6.9	54	34	43.9	+4.1	72	22	21	17	660	32	71	1.84	−1.4	.67	8	0	T	0	6.2	ssw.	28	w.	7	10	9	12	5.5	57
SOUTH ATLANTIC																																		
									49.4	+2.9							72	1.73	−1.7														6.0	
Ashville[4]	2,253	77	92	950.6	1,026.5	+4.8	54	33	43.2	+5.4	69	27	17	24	677	32	76	2.52	−.7	1.07	14	0	.2	0	8.8	nnw.	34	se.	12	11	5	15	5.8	51
Charlotte[4]	779	63	86	998.6	1,027.0	+6.3	53	37	45.3	+2.3	69	12	25	17	613	34	70	1.79	−2.1	1.23	10	0	.1	0	7.0	nne.	19	sw	23	10	2	19	6.4	49
Greensboro[2]	886	6	56	994.2	1,027.2	+6.5	52	31	41.6	+2.4	68	22	17	17	725	31	68	1.29	−2.5	.88	7	0	T	0	9.2	ne.	25	nw.	2	11	3	17	5.9	50
Hatteras	11	5	47	1,025.7	1,026.1	+6.5	58	46	52.0	+1.9	72	12	36	3	401	45	78	2.40	−1.8	1.47	9	0	.0	0	13.4	nnw.	31	w	2	11	3	17	5.7	46
Raleigh[4]	376	5	71	1,010.5	1,026.7	+6.0	56	37	46.4	+3.4	73	13	23	16	580	34	69	1.37	−2.2	1.04	11	0	T	0	6.3	ne.	23	nw.	5	10	8	13	5.6	50
Wilmington	72	73	107	1,025.1	1,026.4	+5.7	60	41	51.0	+1.9	74	13	30	17	438	42	--	2.04	−.7	.85	9	0	.0	0	8.5	n.	24	w.	23	12	5	14	5.5	58
Charleston[4]	48	11	92	1,023.7	1,025.6	+4.9	62	46	53.9	+2.2	76	13	34	16	349	42	73	.93	−1.8	.65	6	0	.0	0	8.0	ne.	31	sw.	7	9	8	14	5.9	61
Columbia, S. C.[4]	347	70	91	1,018.0	1,024.9	+3.9	59	39	49.1	+1.9	76	12	28	24	492	38	73	1.31	−1.7	.82	7	0	.0	0	6.7	ne.	27	ne.	28	10	4	17	6.1	42
Greenville, S. C.[2]	1,040	18	36	988.2	1,026.2	+6.2	52	36	44.3	+2.1	64	22	25	24	643	34	72	2.28	−2.6	.77	15	0	T	0	7.7	ne.	40	n.	23	9	5	17	6.5	45
Augusta[2]	182	62	77	1,019.3	1,026.1	+5.4	60	41	50.8	+2.7	78	12	27	14	446	37	65	1.99	−1.4	1.30	8	0	T	0	8.3	nne.	---	------	---	8	5	18	6.5	--
Savannah[2]	65	19	51	1,024.0	1,025.6	+4.9	65	45	54.9	+4.2	78	27	33	16	326	45	74	1.80	−1.1	.83	4	0	.0	0	12.6	n.	28	ne.	9	8	8	15	6.0	66
Jacksonville[4]	43	86	110	1,023.0	1,024.3	+3.6	68	52	60.2	+3.9	78	13	36	24	184	51	79	1.05	−2.0	.50	5	0	.0	0	8.9	nne.	26	ne.	24	7	5	19	6.7	38
FLORIDA PENINSULA																																		
									69.8	+3.0							75	1.96	.0														5.4	
Key West[4]	21	10	64	1,019.0	1,019.5	+.9	77	68	72.7	+2.4	81	25	63	1	0	65	80	1.99	+.3	1.11	10	0	.0	0	10.7	ne.	25	e.	31	11	10	10	4.9	61
Miami[4]	25	242	249	1,019.3	1,020.3	+1.0	76	66	70.8	+1.7	79	28	55	6	2	61	72	3.58	+1.6	.71	16	1	.0	0	16.7	e.	47	ne.	31	7	14	10	5.8	54
Tampa[2]	35	5	36	1,021.0	1,022.3	+2.3	76	56	66.0	+4.9	82	11	42	6	53	55	74	.30	−1.8	.28	3	0	.0	0	7.6	ne.	23	e.	30	8	18	5	5.4	61
EAST GULF																																		
									53.0	+3.0							74	3.65	−1.4														6.6	
Atlanta[2]	1,173	33	72	983.1	1,025.9	+5.2	54	38	45.6	+1.4	73	12	25	24	600	35	73	2.80	−2.0	.70	13	0	.0	0	9.0	ene.	28	nw.	23	9	4	18	6.5	44
Macon[2]	370	79	87	1,012.9	1,025.5	+4.8	61	39	50.0	-----	78	12	25	24	466	39	70	2.80	------	1.08	7	0	.0	0	8.6	ne.	26	s.	22	9	3	19	6.7	51
Apalachicola	35	11	51	1,022.0	1,023.4	+3.1	65	52	58.5	+2.8	76	19	34	24	209	----	--	.99	−4.1	.58	4	0	.0	0	9.6	ne.	27	n.	15	10	8	13	6.0	50
Pensacola[4]	56	54	79	1,021.3	1,023.7	+3.0	66	50	58.0	+4.0	75	13	33	23	227	48	--	3.88	−.8	1.40	10	2	.0	0	8.9	ne.	27	nw.	22	6	6	19	7.0	49
Anniston	618	6	32	1,002.7	1,025.5	------	58	35	46.6	+1.4	72	12	21	16	575	38	75	2.46	−2.6	.59	6	0	T	0	8.7	ene.	---	------	---	9	8	14	6.5	--
Birmingham[2]	700	5	63	1,002.0	1,025.3	+4.0	58	36	47.4	+3.3	70	20	20	16	548	37	72	3.44	−1.7	.83	15	0	T	0	9.3	n.	38	se.	25	8	7	16	6.5	40
Mobile[4]	57	86	161	1,015.2	1,023.6	+2.9	66	48	57.1	+4.9	76	27	30	23	258	47	76	4.82	−.2	2.35	10	0	.0	0	11.1	nne.	38	nw.	22	6	11	14	6.4	41
Montgomery[4]	218	92	105	1,017.3	1,025.0	+3.7	61	43	51.8	+2.4	77	12	29	24	418	40	73	3.41	−1.4	1.39	9	0	.0	0	7.5	ene.	22	s.	22	8	5	18	6.5	43
Meridian[4]	375	67	92	1,010.8	1,024.5	+3.5	63	38	50.4	+2.7	80	12	23	24	462	41	75	5.53	+.3	1.14	13	2	T	0	6.7	ssw.	---	------	---	8	5	18	6.4	--
Vicksburg[4]	247	82	102	1,014.2	1,023.4	+2.4	62	42	53.2	+3.2	80	11	29	16	376	41	--	2.96	−2.4	1.01	11	1	T	0	9.3	ese.	28	s.	21	6	10	15	6.7	50
New Orleans C. O.	53	76	84	1,020.7	------	------	66	52	59.0	+3.4	82	12	36	16	223	----	--	5.33	+.5	2.23	11	1	.0	0	7.9	------	18	ne.	14	5	11	15	6.6	46
New Orleans A. P.[2]	30	6	52	1,020.7	1,022.7	+2.0	67	50	59.0	-----	82	12	36	16	225	51	77	5.36	------	1.95	11	0	.0	0	11.7	e.	27	n.	15	5	8	18	6.9	--
WEST GULF																																		
									55.1	+3.4							77	4.08	+.9														7.1	
Shreveport[2]	181	5	64	1,013.2	1,022.4	+1.7	62	41	51.2	+1.9	79	11	25	23	428	44	78	5.20	+.9	3.12	17	3	T	0	9.9	sse.	29	se.	10	8	4	19	6.5	45
Fort Smith[2]	463	6	30	1,005.4	1,022.7	+2.7	55	32	43.8	+1.7	77	11	18	15	658	33	70	2.55	−.2	.76	11	1	T	0	7.0	ne.	45	sw.	11	9	7	15	6.3	47
Little Rock[2]	265	26	58	1,010.2	1,023.7	+3.0	56	36	45.9	+1.7	76	11	22	16	594	38	74	4.78	+.6	1.51	14	2	T	0	7.4	se.	30	s.	11	10	2	19	6.5	39
Austin[2]	621	5	41	999.7	1,021.4	+.4	63	45	54.2	+3.2	81	11	24	23	348	46	77	4.04	−1.4	1.24	15	2	T	0	8.4	ne.	32	ne.	12	6	7	18	6.9	34
Brownsville[2]	20	5	54	1,017.3	1,017.7	−.6	74	59	66.7	+5.5	84	1	39	23	83	61	83	2.14	+.3	.68	11	0	.0	0	11.5	sse.	36	s.	21	3	8	20	7.8	24
Corpus Christi[2]	44	6	33	1,019.0	1,019.6	.0	71	57	64.0	+7.5	84	11	38	16	124	58	84	1.77	+.3	1.35	7	1	.0	0	10.6	nne.	45	s.	20	4	4	23	7.9	34
Dallas[2]	488	34	45	1,003.4	1,021.3	+1.0	60	40	50.4	+2.7	78	11	27	15	459	38	67	1.38	−1.0	.30	11	0	T	0	9.0	sse.	47	se.	21	8	7	16	6.4	45
Fort Worth[2]	706	40	56	996.6	1,021.6	+1.6	60	40	49.8	+3.3	77	6	27	15	472	37	66	1.04	−.8	.38	11	0	T	0	12.8	sse.	43	s.	21	9	6	16	6.0	--
Galveston[4]	54	122	129	1,020.7	1,020.9	+.6	64	55	59.6	+3.2	73	6	37	15	190	55	85	7.86	+4.1	3.87	13	3	T	0	11.6	nne.	43	s.	10	7	2	22	7.5	28
Houston[4]	138	157	190	1,018.6	1,021.3	+1.0	66	51	58.2	+3.8	79	7	34	23	239	52	83	9.62	+5.4	2.50	15	4	T	0	9.4	nne.	28	nw.	3	5	4	22	7.6	33
Laredo[2]	418	10	38	1,004.1	1,018.7	------	69	53	61.2	+4.6	85	20	35	23	171	52	76	1.27	.0	.39	12	1	.0	0	9.2	ne.	---	------	---	4	4	23	8.0	--
Palestine	510	64	72	1,003.1	------	------	62	44	53.0	+3.1	82	11	30	24	384	----	--	3.47	−.2	1.00	13	2	.0	0	8.3	ne.	25	s.	21	6	10	15	6.9	40
Port Arthur[4]	34	59	134	1,020.3	1,021.0	+1.0	64	51	57.4	+2.7	74	21	33	23	246	51	84	9.27	+4.0	3.74	14	4	T	0	9.6	ne.	32	s.	17	6	2	23	7.4	33
San Antonio[2]	794	6	51	995.6	1,020.3	+.7	64	47	55.8	+2.1	81	11	25	23	296	48	77	2.79	+1.2	.84	17	0	.0	0	10.1	ne.	38	ne.	12	6	4	21	7.4	31

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR DECEMBER 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 [8]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: 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	%
OHIO VALLEY AND TENNESSEE																																			
									39.7	+4.1							72	4.35	+.8														6.3	
Chattanooga [2]	762	6	66	1,000.4	1,025.9	+4.6	53	33	43.3	+2.4	66	12	21	16	673	34	73	4.37	−.8	.96	14	0	T	0	5.3	s.	27	s.	22	10	7	14	6.1	45
Knoxville [2]	995	27	71	990.2	1,026.0	+5.0	53	33	43.1	+4.1	69	12	20	24	680	34	73	3.03	−1.5	1.27	11	0	T	0	7.2	ne.	37	sw.	6	11	4	16	5.8	45
Memphis [2]	399	5	49	1,013.5	1,024.2	+3.2	57	36	46.4	+4.0	77	11	21	16	581	36	70	7.06	+2.6	3.29	12	1	T	0	9.8	sse.	30	s.	11	9	5	17	6.3	47
Nashville [2]	546	5	72	1,002.7	1,025.1	+3.8	54	32	43.4	+2.4	69	20	15	16	670	34	73	5.68	+1.5	2.47	11	2	T	0	8.1	s.	36	s.	22	8	7	16	6.4	41
Lexington [2]	989	4	58	988.5	1,025.5	+4.8	50	30	40.0	+4.2	67	21	15	15	775	30	70	7.26	+3.5	2.97	13	0	.4	0	11.8	sse.	---	------	---	11	4	16	5.9	--
Louisville [2]	525	5	54	1,007.1	1,024.8	+3.8	52	31	41.5	+5.2	70	20	14	16	729	31	68	4.84	+1.1	1.79	13	0	1.4	0	8.4	sse.	58	se.	12	11	3	17	6.1	51
Evansville [2]	431	6	40	1,008.5	1,024.8	+3.8	50	30	40.3	+5.5	68	21	15	16	764	31	73	4.28	+.7	1.43	10	1	.3	0	8.7	sse.	34	s.	11	8	6	17	6.6	49
Indianapolis [2]	823	5	54	993.2	1,023.7	+3.7	45	27	35.8	+4.9	66	20	10	15	903	27	74	4.32	+1.3	1.00	14	2	.6	0	11.0	se.	44	nw.	1	10	5	16	6.0	56
Terre Haute [2]	575	4	36	1,002.0	1,024.0	+4.0	46	28	36.6	+4.1	66	20	9	15	877	28	73	4.22	+1.3	1.17	14	0	1.4	0	11.1	sse.	40	s.	11	10	4	17	6.3	54
Cincinnati [4]	627	135	148	1,001.0	1,024.7	+4.0	50	32	41.1	+4.7	69	20	15	15	743	29	70	3.46	+.5	.91	11	0	.8	0	10.3	ssw.	21	nw.	2	9	4	18	6.4	44
Columbus [4]	822	90	110	993.6	1,024.8	+4.8	45	29	37.1	+4.7	64	12	13	15	867	28	74	2.37	−.4	.88	15	0	.3	0	9.1	se.	37	s.	21	7	7	17	6.7	45
Dayton [2]	1,003	6	55	986.8	1,024.4	+4.8	44	26	35.0	+3.7	61	12	7	15	926	28	74	3.10	+.4	1.06	14	1	1.1	0	11.7	s.	43	w.	27	8	7	16	6.5	45
Elkins [2]	1,947	5	45	952.3	1,026.7	+5.7	48	24	36.2	+4.5	69	21	6	16	892	28	76	3.63	+.2	.69	15	1	3.1	0	5.9	wnw.	35	w.	7	9	5	17	6.3	48
Parkersburg	637	77	84	------	------	------	49	29	39.0	+3.8	68	21	12	16	807	----	--	4.13	+1.1	2.26	13	0	.6	0	6.7	------	24	sw.	22	9	5	17	6.2	41
Pittsburgh [2]	842	39	54	993.2	1,024.9	+5.3	44	28	36.0	+4.0	67	22	11	16	899	27	69	3.43	+.6	1.32	14	0	.8	0	10.5	s.	34	w.	27	8	6	17	6.8	41
LOWER LAKES																																			
									32.8	+4.3							75	3.03	+.3														7.4	
Buffalo [2]	768	34	96	994.2	1,023.5	+5.9	41	26	33.3	+4.5	64	22	12	15	983	25	72	3.68	+.3	1.00	19	0	9.5	0	14.9	w.	47	sw.	27	1	11	19	7.6	35
Canton	448	10	61	1,005.8	1,022.4	+5.1	35	18	26.8	+5.0	62	22	−8	30	1,185	----	--	2.57	−.1	.51	14	0	11.7	4	8.8	------	36	w.	28	7	4	20	7.1	41
Oswego	335	71	85	1,010.5	1,023.7	+5.7	38	26	32.1	+4.0	65	22	11	10	1,020	----	--	4.53	+1.0	.97	20	5	25.3	0	11.6	------	32	nw.	6	3	7	21	7.9	25
Rochester [2]	523	4	69	1,003.7	1,023.8	+5.5	40	24	31.8	+3.2	69	22	5	10	1,026	24	76	1.95	−.8	.45	16	1	9.4	0	12.1	wsw.	56	w.	27	2	14	15	7.1	57
Syracuse [2]	596	5	57	1,001.4	1,024.4	+6.4	40	24	31.6	+4.2	66	22	3	10	1,038	23	71	2.32	−.8	.68	18	2	8.9	0	11.1	w.	61	w.	29	5	7	19	7.1	37
Erie	714	57	81	------	------	------	42	30	35.8	+3.9	63	22	19	16	900	----	--	2.94	+.1	.81	19	0	10.6	0	10.3	------	35	sw.	7	2	7	22	8.0	23
Cleveland [2]	762	27	54	994.6	1,023.4	+4.8	42	26	34.2	+5.1	64	22	9	16	956	28	76	3.30	+.9	.71	18	0	7.6	0	13.4	s.	49	w.	7	2	8	21	7.8	29
Sandusky	629	5	67	999.7	------	------	43	28	35.4	+4.2	63	12	14	16	919	----	--	2.11	−.2	.61	13	0	1.2	0	10.0	------	32	sw.	27	3	12	16	7.4	38
Toledo [2]	628	5	47	999.0	1,023.3	+4.0	42	25	33.2	+4.1	63	12	10	15	987	26	76	2.73	+.4	.68	15	1	4.1	0	12.5	wsw.	38	sw.	12	5	6	20	7.5	39
Fort Wayne [2]	857	5	34	990.5	1,023.2	+3.9	41	25	33.2	+4.6	63	11	8	15	983	26	78	3.70	+1.1	1.02	15	1	.7	0	9.4	s.	38	s.	21	6	7	18	6.8	50
Detroit [2]	730	5	77	995.3	1,023.1	+4.5	39	27	33.0	+4.1	61	12	13	15	993	25	73	3.51	+1.2	.84	18	1	4.7	0	11.9	wnw.	37	sw.	22	7	4	20	7.4	34
UPPER LAKES																																			
									26.2	+2.8							77	2.68	+.7														7.5	
Alpena	609	5	89	997.3	------	------	34	22	27.9	+3.1	52	12	9	8	1,142	----	--	1.78	−.3	.39	18	1	8.2	T	11.2	------	35	se.	25	0	7	24	8.7	19
Escanaba	612	51	72	996.3	------	------	32	18	25.0	+2.6	50	11	−3	24	1,244	----	--	.89	−.9	.49	11	0	4.7	T	11.0	------	35	sw.	12	6	8	17	6.7	48
Grand Rapids [4]	707	70	244	994.9	1,021.3	+3.0	39	27	32.8	+4.3	62	11	14	15	994	25	80	4.21	+1.6	1.50	21	0	11.5	0	13.1	w.	66	sw.	11	1	11	19	7.9	29
Lansing [4]	878	5	90	988.5	1,022.2	+4.2	38	24	31.1	+4.2	62	11	12	15	1,052	24	78	4.70	+2.6	1.57	18	0	4.2	0	16.6	wsw.	33	se.	25	6	5	20	7.5	30
Marquette	734	44	73	990.5	------	------	30	18	24.1	+1.5	51	11	0	24	1,268	----	--	1.21	−1.4	.35	11	0	20.0	T	9.6	------	42	sw.	12	3	7	21	8.0	30
Sault Sainte Marie [2]	614	10	52	992.2	1,019.7	+2.8	29	16	22.2	+3.4	47	12	2	6	1,329	18	80	2.69	+.5	.40	17	0	31.4	3	9.6	se.	52	sw.	12	2	3	26	8.7	30
Chicago [2]	673	5	38	998.0	1,021.8	+2.8	39	24	31.8	+4.9	61	11	4	23	1,032	24	75	6.67	+4.6	2.38	15	2	5.3	0	10.8	sse.	30	w.	11	7	7	17	6.8	47
Green Bay	617	5	32	996.3	1,020.2	+2.2	32	16	23.6	+1.3	57	11	−9	9	1,279	14	70	1.17	−.5	.36	9	0	8.6	T	11.2	w.	61	sw.	11	8	6	17	6.8	50
Milwaukee [2]	681	33	66	994.2	1,020.8	+2.5	36	22	28.6	+3.9	60	11	1	23	1,126	22	76	2.27	+.6	.47	16	0	6.2	0	13.7	wnw.	50	sw.	12	7	3	21	7.3	33
Duluth [4]	1,133	5	47	964.4	1,018.8	+.8	24	6	14.5	−1.4	46	11	−14	24	1,566	8	77	1.17	.0	1.06	7	0	2.4	T	18.6	wnw.	39	nw.	5	9	2	20	7.0	37
NORTH DAKOTA																																			
									8.6	−3.3							76	.87	+.2														6.6	
Fargo [2]	940	5	47	982.4	1,019.1	−.5	21	1	10.8	−.7	40	3	−18	14	1,691	6	79	1.31	+.6	.70	9	0	10.8	5	13.2	nnw.	36	s.	30	6	9	16	6.4	43
Bismarck [2]	1,677	5	41	955.6	1,019.0	−1.0	20	−1	9.8	−3.0	60	2	−25	14	1,711	3	74	.52	−.1	.29	7	0	6.8	4	10.6	nw.	40	nw.	11	8	6	17	6.5	57
Devils Lake	1,478	11	44	962.1	------	------	13	−3	5.2	−4.3	44	2	−21	14	1,855	----	--	1.04	+.5	.49	8	0	20.1	13	9.4	------	31	n.	11	8	8	15	6.5	55
Williston	1,878	42	50	947.2	------	------	19	−2	8.6	−5.2	54	2	−18	23	1,750	----	--	.60	.0	.31	9	0	6.3	3	6.7	------	31	e.	24	7	4	20	6.9	52
UPPER MISSISSIPPI																																			
									30.3	+3.9							74	2.74	+1.0														6.5	
Minneapolis-St. Paul [2]	919	43	74	984.1	1,019.4	+1.1	29	12	20.4	+.8	54	11	−4	14	1,384	14	75	.99	.0	.32	10	0	6.5	0	12.1	se.	39	w.	11	5	9	17	6.9	33
La Crosse [2]	672	5	20	994.2	1,020.1	+1.1	32	12	21.7	+1.3	56	11	−21	24	1,344	16	74	1.11	−.2	.32	13	0	7.5	T	9.7	sse.	52	sw.	11	8	3	20	7.1	42
Madison [2]	974	27	39	987.8	1,020.8	+1.5	34	17	25.4	+3.0	59	11	−8	24	1,225	18	74	1.70	+.1	.71	12	1	6.9	0	13.2	s.	65	sw.	11	8	2	21	7.0	44
Charles City	1,015	10	51	982.1	1,020.7	+1.1	32	14	23.5	+3.1	56	11	−10	24	1,286	----	--	1.36	+.1	.54	10	0	10.4	0	7.3	------	37	sw.	11	9	7	15	6.2	43
Moline [2]	606	6	50	998.3	1,021.8	+1.8	40	22	31.0	+5.3	67	11	3	23	1,055	22	72	2.91	+1.4	1.00	9	2	2.3	0	11.2	wnw.	42	sw.	11	11	2	18	6.2	46
Des Moines [4]	860	5	99	987.8	1,020.4	+.8	39	19	29.0	+3.0	62	11	0	23	1,118	20	74	.82	−.4	.57	7	1	2.3	0	10.4	s.	58	sw.	11	8	8	15	6.5	57
Dubuque	699	60	79	994.2	1,021.0	+1.4	36	20	28.0	+3.3	62	11	−1	23	1,150	21	75	1.41	.0	.40	8	1	8.1	0	6.0	------	17	sw.	11	9	3	19	6.6	46
Burlington [2]	702	4	36	994.9	1,021.7	+1.7	41	22	31.4	+4.1	67	11	5	23	1,041	24	78	2.18	+.6	1.12	8	2	.6	0	11.5	sse.	47	sw.	11	9	7	15	6.3	52
Cairo	357	5	99	1,010.5	------	------	52	36	43.5	+5.7	71	11	20	15	663	----	--	5.54	+2.1	1.89	12	1	T	0	9.2	------	34	s.	21	9	5	17	6.6	50
Peoria [2]	609	7	26	999.0	1,022.0	+2.0	42	25	33.3	+5.2	64	11	7	23	984	25	75	6.34	+4.6	3.38	12	2	3.6	0	12.1	s.	40	w.	4	9	4	18	6.4	44
Springfield, Ill. [4]	636	5	49	999.3	1,022.4	+2.4	44	27	35.3	+5.6	67	11	8	15	918	28	75	4.74	+2.6	2.40	13	2	.4	0	13.0	s.	43	sw.	11	9	4	18	6.5	42
St. Louis [4]	568	33	59	1,001.7	1,022.4	+2.1	49	33	41.0	+6.1	72	11	18	15	741	28	72	3.81	+1.6	1.63	10	2	.3	0	9.8	s.	40	sw.	11	10	6	15	6.0	55
MISSOURI VALLEY																																			
									30.8	+2.9							72	1.47	+.4														5.8	
Columbia, Mo. [4]	784	6	66	992.2	1,021.4	+1.4	47	28	37.9	+3.9	74	11	12	23	839	27	75	3.55	+1.7	2.22	10	3	.6	0	8.0	sse.	29	sw.	11	8	7	16	6.1	54
Kansas City [2]	963	38	76	992.6	1,020.8	+.5	47	27	37.1	+4.6	68	11	12	23	866	24	66	1.95	+.8	1.25	8	2	3.4	0	9.7	ssw.	56	s.	11	12	4	15	5.6	56
St. Joseph [2]	967	5	51	984.1	1,020.4	+.4	44	22	32.8	+3.2	66	11	0	23	1,000	22	70	1.20	−.1	.51	7	1	5.2	0	11.4	sse.	54	w.	11	12	8	11	5.3	53
Springfield, Mo. [2]	1,324	5	50	972.9	1,021.8	+1.8	49	29	38.9	+3.4	73	11	15	23	806	30	76	4.46	+2.2	1.29	12	4	.4	0	12.0	sse.	55	w.	21	9	6	16	6.2	43
Topeka [4]	987	65	87	987.5	1,020.6	+.6	45	25	35.2	+3.2	62	3	12	14	929	24	72	2.11	+1.1	1.23	6	2	3.8	0	10.1	s.	49	sw.	11	11	7	13	5.4	66
Lincoln [4]	1,189	6	81	974.9	1,019.5	+.5	41	20	30.2	+2.6	56	6	7	26	1,076	18	71	.36	−.4	.19	5	0	3.3	0	10.0	s.	37	s.	16	11	6	14	5.7	57
Norfolk, Nebr. [2]	1,551	5	38	961.1	1,019.0	------	38	14	26.2	+1.7	54	28	−1	14	1,203	----	--	.35	−.5	.26	4	0	1.8	0	----	------	----	------	---	9	10	12	5.6	--
Omaha [2]	1,105	5	68	978.3	1,019.7	−.6	41	19	29.9	+3.5	56	10	6	14	1,088	18	67	.19	−.7	.10	7	0	1.2	0	12.4	sse.	47	sw.	16	7	10	14	6.2	48
Valentine	2,598	46	54	922.5	1,017.6	−2.4	38	12	25.1	+.5	63	2	−3	13	1,235	14	71	.43	−.2	.38	4	0	2.8	0	8.6	------	32	nw.	11	13	9	9	5.0	74
Sioux City [2]	1,138	5	40	976.6	1,019.4	−.6	38	13	25.6	+4.0	54	11	0	14	1,221	16	71	.29	−.6	.20	5	0	1.5	0	10.5	nw.	42	sw.	16	8	8	15	6.3	58
Huron [2]	1,301	5	41	964.4	1,018.6	−1.7	30	9	19.6	+.9	49	6	−5	8	1,410	12	80	1.30	+.7	1.24	4	0	1.9	T	11.8	ssw.	52	se.	24	8	10	13	6.5	57

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR DECEMBER 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above groundd	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 [2]	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	Speed of fastest mile: Miles per hour	Speed of fastest mile: Direction	Speed of fastest mile: Date	Character of day (sunrise to sunset) number of days: Clear	Partly cloudy	Cloudy	Sky cover,[1] tenths (sunset 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									20.4	−2.6							66	.63	.0														7.2	
Billings [3]	3,570	16	39	887.6	1,015.8	−4.9	33	12	22.6	−3.6	59	2	−12	20	1,315	10	63	.83	------	.45	8	0	11.1	1	12.6	sw.	65	w.	5	3	9	19	7.5	37
Butte	5,533	44	58	824.6	1,018.3	------	32	5	18.2	−2.2	46	1	−26	20	1,446	10	66	.34	−.1	.11	12	0	5.9	1	9.6	nw.	---	------	---	2	5	24	8.4	--
Glasgow	2,086	34	53	940.4	1,018.6	------	19	−2	8.5	−7.1	56	2	−27	20	1,752	3	76	1.49	+1.0	.47	15	0	15.3	14	---	------	---	------	---	6	5	20	7.5	--
Great Falls [3]	3,657	16	75	884.2	1,015.3	------	31	9	19.8	−8.2	51	2	−16	20	1,398	8	64	.53	−.1	.20	10	0	7.2	T	17.1	sw.	63	sw.	1	7	6	18	7.0	51
Havre	2,507	11	67	924.5	1,018.3	−1.0	22	0	10.9	−9.5	55	2	−25	20	1,678	---	--	.86	+.2	.22	11	0	11.5	8	7.9	e.	40	w.	2	2	9	20	7.9	28
Helena [3]	4,124	5	43	869.6	1,017.5	−3.2	32	8	20.0	−2.7	53	29	−20	20	1,395	11	68	.37	−.1	.14	8	0	9.3	T	6.6	w.	54	sw.	22	3	7	21	7.9	42
Missoula [3]	3,263	4	32	899.2	1,017.1	−4.9	33	16	24.6	+3.2	50	29	−3	21	1,250	9	79	.65	−.3	.14	12	0	8.5	T	5.0	se.	34	sw.	27	2	3	26	8.9	21
Kalispell	2,973	48	56	908.6	1,015.2	−4.8	31	17	24.2	−.7	54	29	1	21	1,265	18	--	.97	−.5	.15	18	0	16.1	2	10.4	s.	---	------	---	0	6	25	8.9	--
Miles City [3]	2,371	5	28	929.9	1,017.8	−2.9	26	5	15.6	------	63	2	−14	20	1,536	---	--	.20	------	.10	5	0	4.1	4	8.6	sse.	---	------	---	5	5	21	7.6	--
Rapid City [3]	3,259	5	56	898.7	1,017.0	−3.3	35	9	22.2	−2.9	60	2	−6	12	1,331	11	70	.47	.0	.21	7	0	5.0	1	15.0	sse.	65	nw.	10	8	11	12	6.1	50
Cheyenne [3]	6,094	22	40	807.3	1,016.4	−2.4	40	15	27.5	−1.0	59	2	0	20	1,160	9	50	.26	−.3	.26	2	0	2.3	T	14.4	w.	49	w.	27	10	11	10	5.5	68
Lander [3]	5,352	6	30	824.6	1,017.8	−4.2	33	8	20.6	+.2	55	5	−12	11	1,377	6	57	.86	+.2	.65	5	0	16.4	4	6.1	------	40	sw.	5	5	14	12	6.2	61
Sherdian [3]	3,790	5	38	880.8	1,016.7	−3.6	35	8	21.8	−1.0	65	2	−11	20	1,339	9	64	.50	−.1	.36	5	0	8.1	1	7.8	nw.	47	sw.	30	4	10	17	7.3	54
North Platte [3]	2,821	11	51	917.0	1,018.2	−2.1	42	15	28.6	+1.9	65	2	−2	14	1,124	16	70	.45	−.1	.45	2	0	2.4	0	8.4	se.	34	n.	11	13	12	6	4.4	63
MIDDLE SLOPE									36.5	+2.4							61	.71	−.3														4.5	
Denver [4]	5,292	106	113	833.4	1,015.6	−3.0	48	23	35.2	+2.9	69	5	6	12	923	10	46	.24	−.5	.20	3	0	5.4	0	7.1	s.	32	w.	26	18	6	7	3.8	77
Pueblo [3]	4,690	5	36	854.4	1,017.0	−2.0	51	15	33.0	+2.9	71	5	0	12	992	7	42	T	−.5	T	0	0	T	0	7.5	w.	51	w.	26	19	7	5	3.6	79
Concordia	1,392	50	58	967.8	1,019.3	−1.0	42	22	31.9	+1.2	61	2	7	26	1,024	21	71	.57	−.1	.41	4	0	7.8	T	9.1	------	40	sw.	16	16	5	10	4.5	61
Dodge City [3]	2,509	5	58	925.5	1,018.7	−2.0	46	22	34.2	+1.6	66	5	8	14	956	22	68	.41	−.2	.28	2	0	4.3	0	13.5	s.	42	sw.	16	16	5	10	4.4	74
Wichita [3]	1,358	52	64	969.9	1,019.8	+.2	47	27	37.2	+2.6	64	3	13	14	861	26	68	1.22	+.2	.61	8	1	3.8	0	12.2	s.	51	s.	16	15	4	12	4.6	66
Oklahoma City [4]	1,214	10	47	973.2	1,020.8	+.8	52	32	42.2	+2.9	69	20	21	26	705	30	66	1.07	−.4	.67	7	2	.9	0	15.5	s.	30	w.	11	16	2	13	4.9	58
Tulsa [3]	674	10	60	995.9	1,020.9	------	53	31	41.7	+2.9	70	11	19	14	725	31	69	1.44	−.5	.57	8	1	T	0	9.9	s.	41	sw.	11	11	16	14	5.6	48
SOUTHERN SLOPE									45.5	+1.7							65	1.14	−.1														5.0	
Abilene [3]	1,755	4	59	957.7	1,019.7	−.3	60	38	48.6	+3.5	76	20	21	26	513	36	64	1.20	−.1	.71	6	2	T	0	13.4	s.	42	s.	24	12	5	14	5.6	52
Amarillo [3]	3,604	5	42	889.6	1,018.2	−1.1	53	24	38.4	+2.9	68	28	10	13	827	24	62	.30	−.5	.18	6	1	.1	0	12.4	sw.	50	sw.	10	18	5	8	3.7	70
Del Rio	960	63	71	885.1	1,018.9	−.4	64	47	55.4	+3.2	88	11	30	23	306	46	76	2.31	+1.6	1.29	11	0	.0	0	7.4	se.	31	nw.	21	6	8	17	6.9	32
Roswell [3]	3,614	6	29	893.0	1,019.6	+.3	54	24	39.0	−2.2	70	3	12	26	807	22	58	.81	+.2	.31	3	1	.2	0	6.0	s.	42	nw.	25	17	7	7	3.8	70
Wichita Falls [3]	1,030	4	49	983.4	1,020.5	------	57	35	46.3	+1.3	76	20	24	26	580	33	64	1.06	−.5	.66	9	0	T	0	14 6	sse.	55	wnw	11	12	7	12	5.1	--
SOUTHERN PLATEAU									44.0	−.3							54	.83	−.1														3.4	
El Paso [3]	3,916	35	85	883.3	1,019.3	+.7	56	32	44.0	+.3	71	8	19	23	653	27	56	.86	+.3	.40	4	1	T	0	9.8	n.	50	w.	21	16	7	8	3.9	75
Albuquerque [3]	5,314	5	45	849.3	1,019.8	+.2	46	22	34.1	−.4	61	7	8	13	958	19	56	.59	+.1	.34	4	0	5.0	T	5.9	n.	52	sw.	10	18	8	5	3.0	76
Flagstaff	6,907	34	48	789.7	------	------	42	12	27.1	−2.5	58	3	−13	12	1,177	16	64	1.49	−.5	.89	7	0	15.0	T	5.8	nnw.	---	------	---	18	4	9	4.0	--
Phoenix [4]	1,107	39	87	977.3	1,016.7	−.6	66	40	52.9	+.9	83	1	28	12	386	35	58	.92	−.1	.50	5	1	T	0	3.1	e.	34	nw.	10	21	4	6	2.9	80
Tucson [3]	2,555	5	39	927.2	1,016.0	−1.3	64	38	50.8	+.1	78	5	22	21	442	28	46	.84	−.2	.64	4	2	1.4	0	7.1	se.	44	w.	10	17	4	10	3.8	80
Yuma [3]	142	9	54	1,011.9	1,016.4	−1.2	68	42	54.8	------	84	1	29	21	328	30	43	.29	------	.28	3	0	.0	0	5.8	nne.	35	w.	10	20	7	4	2.7	88
MIDDLE PLATEAU									28.5	−.3							67	.53	−.5														6.7	
Ely [3]	6,262	8	41	807.7	------	------	39	8	23.4	−1.1	58	1	−13	12	1,291	---	--	.43	−.4	.23	7	1	10.1	2	11.2	------	37	se.	5	8	6	17	6.7	50
Reno [3]	4,527	20	52	862.2	1,018.8	−2.5	47	16	31.6	−.3	64	4	−5	11	1,037	19	65	.17	−.8	.10	3	0	3.3	0	4.3	w.	44	sw.	4	8	10	13	6.1	65
Winnemucca [3]	4,339	5	56	869.6	1,019.4	−3.0	43	13	28.2	−1.8	59	1	−16	20	1,142	17	62	.31	−.8	.13	6	0	3.8	0	7.9	------	36	nw.	18	4	8	19	7.4	54
Salt Lake City [3]	4,357	32	58	871.7	1,019.4	−2.6	38	22	30.1	−.1	59	5	8	12	1,077	22	72	1.41	.0	.41	10	0	19.0	1	9.7	sse.	37	nw.	24	5	6	20	7.6	40
Grand Junction [3]	4,602	5	26	860.8	1,021.8	+1.1	40	19	29.4	+1.9	58	1	8	22	1,101	18	68	.31	−.3	.15	6	0	3.0	0	5.1	e.	42	s.	19	11	6	14	5.6	61
NORTHERN PLATEAU									31.1	+1.1							76	.98	−.9														8.3	
Baker [4]	3,471	36	54	894.3	1,018.0	−4.4	37	20	28.8	+1.5	48	1	0	20	1,122	---	--	.38	−1.3	.14	10	0	8.3	0	6.5	se.	31	sw.	5	1	7	23	8.4	46
Meacham	4,056	7	28	873.7	1,017.1	------	34	22	28.4	------	49	2	8	20	1,132	22	80	3.06	------	.55	20	0	41.0	17	8.3	ese.	---	------	---	1	3	27	9.1	--
Boise [3]	2,739	5	49	921.1	1,019.1	−4.3	39	23	31.1	+.8	52	29	−1	20	1,051	23	73	.68	−.9	.20	9	0	6.8	0	9.8	ese.	32	se.	17	1	9	21	7.7	32
Lewiston	1,436	4	23	964.1	1,016.8	------	41	28	34.6	------	56	1	8	19	942	26	74	.77	------	.20	10	0	6.6	0	7.9	e.	---	------	---	2	3	26	9.0	--
Pocatello [3]	4,478	5	31	861.8	1,019.4	−3.3	36	18	27.0	+1.7	55	2	6	15	1,180	18	70	.56	−.6	.18	9	0	7.4	T	10.8	s.	40	s.e	17	1	4	26	8.9	31
Ellensburg [3]	1,735	5	58	951.9	1,015.8	------	38	22	30.2	+1.6	50	22	7	19	1,081	26	84	.24	−1.2	.06	10	0	4.9	1	7.9	wnw.	---	------	---	4	9	18	7.5	--
Spokane [3]	1,929	6	51	945.1	1,015.5	−4.8	34	21	27.8	−2.7	49	1	−1	20	1,155	22	78	1.50	−.7	.38	17	0	13.8	T	11.5	ssw.	44	sw.	27	3	7	21	8.0	35
Walla Walla	991	57	65	980.4	1,016.9	−3.8	45	32	38.6	+3.1	62	29	19	19	816	---	--	1.47	−.6	.53	11	0	2.4	0	6.7	s.	36	sw.	24	0	4	27	8.9	17
Yakima [3]	1,076	4	54	976.0	1,015.8	−4.2	44	23	33.6	+1.4	58	27	10	19	973	25	72	.15	−.8	.12	4	0	1.3	0	8.6	w.	---	------	---	6	9	16	6.8	--
NORTH PACIFIC COAST									39.4	−.4							84	5.61	−1.0														8.7	
Kelso [3]	750	38	76	------	------	------	45	34	39.4	------	60	4	22	19	790	36	88	7.60	------	.96	23	1	1.2	0	10.1	sse.	---	------	---	0	4	27	9.3	--
North Head	211	5	55	1,007.5	1,015.2	−1.4	47	39	43.0	−1.1	55	4	29	19	682	---	--	9.19	−.3	1.30	27	0	.1	0	19.6	e.	70	s.	4	1	5	25	8.8	12
Seattle [4]	125	90	321	1,010.5	1,015.2	−2.1	46	38	41.8	−.8	57	1	27	19	722	36	84	4.59	−1.0	1.22	20	0	1.9	0	11.3	s.	43	s.	4	2	6	23	8.4	25
Tacoma	194	172	201	1,007.8	1,014.9	−2.7	45	36	40.3	−.3	57	1	25	20	767	---	--	4.53	−2.2	1.15	23	0	10.0	0	10.1	s.	42	sw.	17	1	7	23	8.4	19
Tatoosh Island	86	5	61	1,010.2	1,013.5	−1.7	46	38	41.7	−2.2	53	1	30	3	725	36	81	13.95	+.6	2.84	27	0	4.5	T	20.8	e.	77	s.	28	2	4	25	8.7	14
Burns	4,162	35	47	872.0	1,018.5	------	37	17	26.8	+.5	49	29	−7	20	1,185	20	74	.71	−.7	.21	11	0	8.9	1	---	------	---	------	---	2	12	17	7.5	--
Eugene [3]	433	4	35	1,005.1	1,019.1	------	47	33	40.0	------	58	1	26	19	772	37	90	5.04	------	1.20	19	0	T	0	8.5	s.	---	------	---	1	5	25	8.7	--
Medford [3]	1,329	29	58	972.2	1,021.2	+1.2	44	30	37.1	−1.0	62	4	22	31	865	32	86	1.19	−1.7	.36	14	0	T	0	5.5	se.	---	------	---	2	4	25	8.9	--
Portland, Oreg. [4]	154	68	106	1,011.9	1,017.6	−1.4	47	38	42.6	+1.4	56	1	28	19	694	36	82	5.44	−1.3	1.22	21	0	T	0	9.0	ssw.	26	s.	23	0	5	26	9.1	32
Roseburg	510	45	76	1,001.0	1,020.0	+.4	48	36	41.8	.0	69	4	29	30	724	---	--	3.82	−1.5	.90	16	0	T	0	4.0	s.	29	sw.	4	1	3	27	8.8	25

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR DECEMBER 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Total heating degree days	Mean temperature of the dew-point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset), number of days: Clear	Character of day (sunrise to sunset), number of days: Partly cloudy	Character of day (sunrise to sunset), number of days: Cloudy	Sky cover [7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p. h.					0-3	4-7	8-10	0-10	%
MIDDLE PACIFIC COAST																																		
									46.4	−1.6							74	2.48	−2.0														5.7	
Eureka	60	72	88	1,018.6	------	------	53	38	45.6	−2.6	68	4	30	20	602	----	--	4.49	−1.8	1.16	17	0	T	0	6.1	------	28	s.	4	4	8	19	7.0	51
Red Bluff [2]	353	5	26	1,007.1	1,019.2	------	54	34	44.4	−1.7	67	8	25	13	639	32	68	.74	−3.7	.37	6	0	.0	0	7.5	nw.	35	se.	17	5	13	13	6.3	67
Sacramento [4]	66	92	115	1,017.6	1,019.4	−.6	53	37	44.8	−1.4	60	8	28	11	628	36	80	1.90	−1.1	.65	9	0	.0	0	9.0	se.	25	nw.	10	12	6	13	5.5	53
San Francisco [4]	155	112	132	1,018.6	1,019.0	−.3	56	45	50.6	−.7	68	1	40	12	448	39	74	2.77	−1.2	.98	10	0	.0	0	8.6	wnw.	28	se.	14	17	6	8	4.1	64
SOUTH PACIFIC COAST																																		
									51.5	−.9							72	1.45	−.5														4.3	
Fresno [2]	327	5	34	1,007.5	1,019.0	−1.3	54	34	44.1	−1.0	69	29	25	13	645	38	84	.78	−.7	.50	7	0	.0	0	5.9	nw.	43	nw.	10	8	9	14	6.0	60
Los Angeles [4]	338	236	263	1,013.5	1,016.8	+1.5	65	46	55.6	−1.0	80	4	37	12	294	39	66	2.72	+.1	1.85	5	0	.0	0	5.6	w.	27	nw.	10	20	4	7	3.3	81
San Diego [2]	87	20	55	1,013.9	1,016.7	−.9	65	45	54.8	−.7	77	4	36	12	313	41	66	.86	−1.0	.35	6	0	.0	0	6.0	n.	32	w.	10	18	10	3	3.5	72
PACIFIC AREA																																		
Canton Island [2]	12	---	---	1,007.1	1,007.5	------	88	78	83.2	------	92	7	76	5	0	70	70	.17	------	.14	2	0	.0	0	----	------	---	------	---	10	14	7	4.9	--
Wake Island [2]	13	---	---	1,013.9	1,014.6	------	83	75	78.8	------	85	6	68	14	0	68	73	.64	------	.22	9	0	.0	0	10.0	e.	---	------	---	19	10	2	3.6	--
West Indies																																		
San Juan, P. R.	82	9	54	1,011.2	1,014.2	------	82	69	75.3	------	85	23	64	14	0	----	--	10.16	------	2.38	27	2	.0	0	9.7	e.	38	n.	13	2	20	9	6.2	45
Alaska																																		
Anchorage [2]	132	6	44	1,008.1	1,013.2	------	14	0	6.8	−6.5	37	11	−25	26	1,799	1	71	1.45	+.6	.58	12	0	25.9	16	----	ne.	26	nw.	8	8	2	21	7.1	--
Annette Island	113	5	53	1,007.1	1,011.2	------	35	26	30.2	−5.2	46	4	2	31	1,079	24	76	5.36	−4.0	1.11	15	0	2.3	T	10.8	n.	---	------	---	4	6	21	7.6	--
Barrow	29	5	27	1,020.7	1,021.3	------	−4	−16	-10.0	−1.9	25	13	−31	3	2,334	−17	67	.11	−.1	.09	2	0	.4	6	11.4	ene.	35	e.	10	7	13	11	5.9	--
Bethel [2]	28	5	31	1,011.9	1,013.2	------	13	0	6.4	−.6	35	31	−28	25	1,818	2	82	1.95	+1.1	.81	12	0	13.3	12	7.6	ne.	38	nne.	1	4	4	23	7.9	--
Cordova [2]	45	5	32	1,006.4	1,008.5	------	26	11	18.6	−5.3	41	1	−16	31	1,439	17	90	4.14	−3.4	.93	15	1	40.9	6	3.8	e.	40	ese.	7	9	6	16	6.3	--
Fairbanks [2]	455	5	63	1,001.0	1,019.6	------	−3	−18	-10.5	−8.0	22	8	−46	31	2,345	−16	73	.77	+.1	.22	11	0	12.5	13	----	n.	26	w.	8	5	2	24	7.9	--
Galena	139	4	66	1,012.9	1,018.0	------	−3	−18	-10.6	+.2	19	12	−46	30	2,339	−20	62	.71	−.2	.26	6	0	7.1	19	5.2	n.	---	------	---	6	3	22	7.4	--
Juneau [2]	80	6	30	1,012.5	1,013.5	------	26	−16	21.0	−7.1	38	1	−21	31	1,364	14	77	2.35	−1.8	.63	17	0	19.8	15	----	e.	39	se.	8	10	1	20	6.6	--
Kotzebue [2]	20	5	31	1,017.3	1,018.0	------	3	−9	−3.2	−.7	26	12	−28	29	2,113	−9	76	.27	−.5	.09	8	0	2.7	10	----	ese.	---	------	---	2	6	23	8.3	--
McGrath [2]	341	5	31	1,004.1	1,017.6	------	−3	−21	-12.2	−4.4	22	19	−49	30	2,391	−18	68	1.09	−.2	.36	11	0	18.6	17	----	nw.	---	------	---	7	2	22	7.4	--
Nome [2]	22	10	75	1,015.2	1,015.9	------	11	0	5.6	−1.9	30	12	−23	23	1,849	1	81	2.21	−1.1	1.34	9	0	15.4	21	----	e.	72	e.	31	4	3	24	8.0	--
Northway [2]	1,718	5	32	952.9	1,020.7	------	−9	−26	-17.2	−.3	15	8	−62	31	2,532	−18	76	.62	+.2	.36	7	0	8.6	16	1.9	se.	---	------	---	8	0	23	7.3	--
St. Paul Island	------	---	---	1,005.8	1,006.8	------	35	26	30.2	+1.9	40	16	10	6	1,080	27	84	4.18	+1.9	.75	22	0	6.7	0	----	------	---	------	---	1	8	22	8.5	--
Yakutat	------	---	---	1,009.5	1,010.8	------	30	17	23.1	−6.8	42	4	−15	31	1,299	20	83	7.42	−5.1	1.54	20	1	26.8	17	----	ese.	---	------	---	9	2	20	9.0	--
Hawaii																																		
Honolulu [4]	38	86	98	1,014.2	1,014.6	------	77	69	72.9	+.5	80	15	63	21	0	63	72	1.61	−2.4	1.21	11	2	.0	0	10.6	ene.	26	ne.	29	9	13	9	5.5	65

[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.