CLIMATOLOGICAL DATA FOR OCTOBER 1949

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

[For description of tables and charts, see Review, January 1943, p. 15]

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data as indicated by the several headings.

The mean temperature for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Section	Temperature								Precipitation					
			Monthly extremes								Greatest monthly		Least monthly	
	Section average	Departure from the normal	Station	Highest	Date	Station	Lowest	Date	Section average	Departure from the normal	Station	Amount	Station	Amount
	°F.	°F.		°F.			°F.		In.	In.		In.		In.
Alabama	70.2	+5.4	Selma	92	13	3 stations	37	[1] 27	3.37	+0.47	Guntersville	10.54	Newton	0.63
Arizona	59.0	−2.2	Parker	104	3	Fort Valley	−9	21	1.15	+.26	Junipine	6.12	Safford	.08
Arkansas	62.8	.0	2 stations	91	11	2 stations	23	31	8.50	+5.25	Augusta	14.92	Denver	2.66
California	59.3	−1.9	Brawley	106	1	Gem Lake	8	19	.27	−.82	Gasquet R. S	5.24	121 stations	.00
Colorado	45.8	−1.2	Eversoll Ranch	94	3	2 stations	−5	[1] 21	1.24	+.04	Steamboat Springs	3.12	San Luis Lakes	.10
Florida	76.8	+3.8	2 stations	94	[1] 6	Pensacola WB City	43	31	3.72	−.43	Homestead Experimental Station.	13.61	Grape Hammock 3 W	.25
Georgia	69.9	+4.6	Quitman	92	[1] 6	Blairsville Experimental Station.	32	1	3.07	+.35	Flat Top	13.54	Mount Vernon	.40
Idaho	42.5	−4.9	Burley	86	5	Obsidian, 4 NNE	6	9	1.53	+.11	Roland W. Portal	4.30	Grand View	.01
Illinois	58.8	+2.9	Henry	91	9	3 stations	21	31	5.17	+2.50	Du Quoin	10.53	Illinois City Dam 16	1.23
Indiana	59.2	+4.0	Plymouth Power Station.	93	8	Elwood Water Works	21	27	4.89	9+2.12	Frankfort Disposal Plant.	8.66	Moores Hill	1.51
Iowa	55.5	+3.0	Knoxville	92	9	Spencer	10	31	1.93	−.36	State Center	3.91	Sac City	.72
Kansas	58.1	+.8	Lincoln	95	7	2 stations	17	31	2.42	+.50	Lebo	8.61	Great Bend	.65
Kentucky	61.8	+3.3	2 stations	89	[1] 7	Paducah No. 5 Fire Station.	25	31	4.53	+1.87	Clinton	8.94	Headquarters	1.25
Louisiana	71.4	+2.8	Angola	94	10	Monroe CAA	34	31	7.30	+4.03	Keithville	16.60	Pearl River	1.83
Maryland-Delaware	61.0	+4.5	Coleman, Md	97	[1] 9	Oakland, Md	18	27	3.57	+.52	Milford, Del	5.86	Luke, Md	2.37
Michigan	53.2	+4.4	Wayne	91	9	Cadillac, CAA	14	25	2.49	−.17	Detroit WB Airport	5.50	Michigamme	.68
Minnesota	48.1	+1.4	2 stations	83	[1] 3	2 stations	10	26	3.24	+1.39	Duluth WB Airport	7.53	Harmony	.54
Mississippi	69.2	+3.6	Eupora	94	9	Philadelphia 1 WSW	29	31	4.75	+2.17	Rosedale	12.30	Heidelburg	.66
Missouri	59.3	+1.4	Brunswick	93	8	2 stations	17	31	6.09	+3.15	Rolla	13.67	Bethany	1.93
Montana	41.0	−4.3	Crow Agency	83	15	do	2	19	1.34	+.33	Heron 2 SW	3.54	Deer Lodge	.21
Nebraska	52.3	+.3	Weeping Water	91	8	Loup City	12	31	1.70	+.23	Gordon	3.63	Broken Bow	.30
Nevada	49.5	−1.7	Lathrop Wells	104	1	Lehman Caves, Nat'l Mon.	3	20	.40	−.25	Jarbidge	2.98	12 stations	.00
New England	53.5	+3.9	Waterbury, Conn	91	10	Prentiss, Maine	14	25	2.29	−1.14	Chatham, Mass	4.40	Fort Adams, R. I	.74
New Jersey	59.9	+5.2	Rutherford	94	10	3 stations	20	28	2.49	−1.13	Atlantic City	5.57	Lakehurst	1.06
New Mexico	53.0	−1.8	Jal	95	10	do	7	[1] 21	.68	−.45	Cloudcroft No. 2	3.15	13 stations	.00
New York	54.8	+4.6	Dansville	93	11	Saranac Lake	14	25	1.79	−1.49	Peekamoose	4.20	Canisteo	.51
North Carolina	64.6	+4.4	5 stations	88	[1] 9	Transou	29	[1] 1	4.10	+.89	Cedar Mountain	13.44	Willard Experimental Station.	T
North Dakota	43.5	−.7	Fort Yates	91	5	2 stations	8	[1] 24	2.55	+1.52	Cavalier power plant	6.02	Grenora	.43
Ohio	59.1	+5.3	Hillsboro 1 E	92	9	Mansfield 6 W	16	27	1.68	−.83	Wauseon	5.12	Ashland	.50
Oklahoma	61.8	−.8	Alva	97	7	Kenton	18	31	3.57	+.61	Flashman Tower	10.46	Kenton	.16
Oregon	45.6	−4.7	Powers	87	30	The Poplars	5	16	1.89	−.33	Timberline Lodge	11.01	Grizzly	T
Pennsylvania	57.0	+4.3	Wellsboro	95	11	Kane 1 NNE	16	27	2.29	−.93	Kregar 4 SE	4.30	Beaver Falls	.57
South Carolina	67.8	+3.6	Yemassee	90	7	Union 7 SW	36	1	3.51	+.61	Sassafras Mountain	13.19	Summerville 2 WNW	.41
South Dakota	48.3	−.6	2 stations	93	5	Deerfield Dam	5	21	2.15	+.94	Murdo	4.50	Hot Springs	.60
Tennessee	64.1	+4.2	3 stations	90	[1] 9	Gatlinburg 2 SW	30	[1] 1	6.61	+3.76	Copper Hill Substation.	13.84	Mountain City	2.59
Texas	66.0	−1.7	Pecos	102	9	Dalhart Experimental Station.	21	31	5.56	+2.87	Splendora	25.34	4 stations	.00
Utah	47.0	−2.7	St. George P. H	94	[1] 3	Bryce Canyon CAA-AP.	2	21	1.89	+.71	WBES Rice (storage)	7.72	Callao	.05
Virginia	61.2	+3.7	5 stations	89	[1] 9	Burkes Garden	25	[1] 27	3.38	+.39	Dante	7.08	Smithfield	1.43
Washington	45.9	−4.2	Longview	80	[1] 2	Bumping Lake	10	19	2.96	−.05	Snoqualmie Pass	13.81	2 stations	.05
West Virginia	59.9	+5.1	Morgantown No. 1	95	10	Canaan Valley	16	27	2.99	+.17	Kayford	5.99	New Cumberland	.90
Wisconsin	52.2	+3.7	Richland Center	87	8	Danbury	14	31	1.80	−.56	Superior Bong AP	5.80	Cashton	.45
Wyoming	40.7	−3.6	La Grange	89	5	Kaycee	−3	21	1.85	+.72	Bedford	4.02	Pine Bluffs	.61
Alaska														
Hawaii	73.0	−1.1	Puunene CAA	91	[1] 19	Haleakala RS	37	15	3.51	−2.41	Makabanaloa	21.00	11 stations	.00
Puerto Rico	77.9	−.5	Caguas (3)	95	11	Utuado	54	3	7.24	−.65	San Lorenzo (Espino)	16.47	Ponce	2.49

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR OCTOBER 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	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, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
NEW ENGLAND																																			
									53.2	+4.7							76	2.27	−1.3														5.7	
Caribou [2]	628	5	33	997.0	1,020.5	------	58	36	46.7	+5.2	76	12	20	25	569	37	73	2.35	−1.2	0.66	9	2	T	0	11.9	ssw.	37	wsw.	12	9	7	15	6.1	--
Eastport	75	67	82	1,018.3	1,021.0	+5.1	58	45	51.3	+3.8	68	10	30	25	426	----	--	1.82	−1.7	.71	9	0	.0	0	9.2	------	36	s.	22	12	7	12	5.3	62
Portland, Me [2]	103	6	43	1,017.3	1,021.7	+4.4	64	40	51.6	+2.9	81	10	22	25	419	45	80	2.26	−.9	.88	8	0	.0	0	5.4	s.	28	se.	26	11	10	10	5.3	66
Concord [2]	289	5	45	1,011.2	1,022.3	+5.0	66	37	51.6	+3.8	84	10	21	28	427	42	75	2.07	−.8	.96	8	0	.0	0	3.8	nw.	27	w.	31	10	10	11	5.4	48
Mt. Washington	6,274	5	37	811.0	1,026.1	------	42	29	35.2	+5.5	57	11	7	27	923	----	--	5.16	−1.1	.90	12	0	4.3	0	28.2	------	---	------	---	9	9	13	5.7	51
Burlington [2]	403	6	51	1,005.8	1,021.1	+4.2	65	41	53.2	+4.0	85	11	22	25	378	45	75	1.46	−1.5	.39	8	0	.0	0	8.9	s.	44	s.	22	7	15	9	5.4	54
Boston [2]	124	33	62	1,017.3	1,022.2	+4.9	66	50	58.4	+4.8	86	10	37	25	230	46	68	1.60	−1.6	.90	6	0	.0	0	10.8	sw.	35	sw.	12	12	5	14	5.5	68
Nantucket [2]	12	4	34	1,021.3	1,022.2	+4.6	63	49	55.8	+1.6	72	10	37	27	287	52	84	3.23	−.2	1.31	10	0	.0	0	10.4	sw.	34	ne	16	11	4	16	6.2	52
Block Island	26	11	46	1,020.7	1,021.7	+4.1	64	56	60.0	+5.1	76	10	44	27	191	----	--	.92	−2.6	.64	8	0	.0	0	15.1	------	56	ne.	18	9	8	14	5.7	52
Providence [2]	159	65	60	1,015.9	1,022.2	+4.6	68	49	58.6	+6.4	90	10	38	25	231	47	74	1.98	−1.1	1.14	4	0	.0	0	8.0	sw.	28	sw.	12	11	6	14	5.6	62
Hartford [2]	159	5	44	1,015.9	1,022.4	+4.4	70	46	57.9	+6.7	89	10	29	28	257	48	75	2.06	−1.5	.97	10	0	.0	0	6.8	s.	29	s.	12	11	5	15	6.0	58
New Haven [2]	107	5	39	1,018.0	1,021.7	+3.4	68	49	58.1	+6.3	81	11	33	28	241	----	--	2.30	−1.0	1.56	8	1	.0	0	6.8	------	26	ne.	18	11	5	15	5.9	62
MIDDLE ATLANTIC																																			
									61.5	+5.3							74	2.80	−.2														6.1	
Albany [2]	97	6	40	1,017.3	1,022.6	+5.0	67	43	54.8	+5.5	86	10	25	25	343	46	76	1.95	−.5	.82	11	0	.0	0	6.9	s.	40	nw.	12	9	10	12	5.6	56
Binghamton [4]	871	57	79	990.9	1,022.3	+4.0	67	44	55.6	+5.6	88	10	29	25	315	46	78	1.94	−1.0	.54	9	0	.0	0	4.7	sw.	20	sw.	22	7	11	13	6.2	54
New York [4]	314	415	454	1,010.5	1,022.2	+4.2	70	56	62.8	+6.5	88	10	41	28	123	50	66	2.03	−1.5	1.20	9	0	.0	0	10.9	nne.	38	sw.	12	9	8	14	6.2	48
Allentown [2]	385	4	58	1,007.8	1,022.6	------	69	47	58.4	+5.4	89	10	27	28	239	49	75	2.29	−1.0	.90	12	0	.0	0	6.1	ene.	---	------	---	11	5	15	5.9	--
Harrisburg [2]	374	30	49	1,008.5	1,022.4	+3.4	69	50	60.0	+5.2	88	10	33	28	201	49	72	2.67	−.3	.84	11	0	.0	0	4.7	ese.	23	sw.	22	11	3	17	6.3	47
Philadelphia [4]	114	174	150	1,016.3	1,022.1	+3.1	70	56	62.9	+5.1	85	11	43	28	118	51	73	2.59	−.2	1.08	9	0	.0	0	8.3	sw.	26	ssw.	12	9	5	17	6.4	45
Reading	323	47	306	1,009.8	1,021.7	+2.7	70	52	61.2	+5.8	89	10	33	28	166	----	--	2.56	−.6	1.06	11	0	.0	0	9.0	------	30	sw.	12	9	6	16	6.2	53
Scranton	805	72	104	992.6	1,021.7	+3.1	68	47	57.7	+5.8	87	10	30	28	259	----	--	1.94	−1.1	.52	9	0	.0	0	5.3	------	24	nw.	31	13	9	9	4.8	57
Atlantic City	52	37	172	1,019.3	1,021.3	+2.7	67	58	62.6	+4.7	80	10	42	28	117	----	--	5.57	+2.4	2.66	11	0	.0	0	15.8	------	52	n.	18	10	4	17	6.3	53
Newark [2]	30	5	46	1,020.7	1,022.0	------	71	52	61.6	+6.0	92	10	32	28	154	49	68	1.59	−2.2	.84	8	0	.0	0	9.5	ne.	28	cne.	18	9	7	15	6.1	--
Trenton	190	89	107	1,014.6	1,021.3	+3.0	69	53	61.1	+5.5	85	10	35	28	167	----	--	2.55	−.2	1.44	9	0	.0	0	8.1	------	24	sw.	22	8	4	19	6.9	45
Baltimore [4]	123	100	215	1,017.3	1,022.3	+3.7	72	57	64.2	+6.0	87	11	41	28	98	52	73	4.11	+1.2	1.48	9	0	.0	0	6.9	nne.	30	sw.	12	10	5	16	5.9	47
Washington [4]	112	56	100	1,017.6	1,022.1	+3.1	73	55	64.0	+6.6	88	10	39	28	116	52	73	3.21	+.4	1.66	11	0	.0	0	8.9	ssw.	23	nw.	23	11	3	17	5.9	47
Cape Henry	18	8	54	1,020.0	1,020.7	+2.4	72	62	66.6	+4.5	82	12	51	26	42	----	--	2.11	−.9	.79	8	0	.0	0	13.5	------	42	n.	18	12	4	15	5.8	61
Lynchburg [2]	686	5	58	987.8	1,022.0	+2.7	71	52	61.7	+4.5	84	9	43	28	142	52	76	2.83	−.3	1.07	11	1	.0	0	7.2	ne.	22	w.	22	11	8	12	5.8	51
Norfolk [4]	91	80	125	1,018.0	1,021.7	+2.7	73	60	66.7	+4.2	85	10	52	27	43	58	81	2.29	−.8	.41	8	0	.0	0	10.2	ne.	26	n.	18	10	4	17	6.6	57
Richmond [4]	144	11	52	1,015.6	1,021.9	+2.6	73	55	63.6	+4.0	85	10	43	28	105	55	81	5.36	+2.5	3.53	5	1	.0	0	5.5	n.	20	s.	31	9	7	15	6.2	54
SOUTH ATLANTIC																																			
									68.2	+4.6							80	3.90	+.7														6.3	
Asheville	2,253	77	92	947.9	1,021.0	+1.0	70	53	61.6	+6.3	82	9	37	1	141	55	88	5.13	+2.4	1.85	10	0	.0	0	6.6	se.	25	se.	5	3	12	16	7.2	50
Charlotte [4]	779	63	86	992.9	1,021.2	+1.9	74	57	65.8	+4.1	83	22	47	1	58	56	75	6.70	+3.8	2.95	9	0	.0	0	5.5	nne.	19	sw.	31	9	8	14	6.2	56
Greensboro [2]	886	6	56	989.8	1,021.8	+2.2	73	53	62.6	+4.1	83	9	41	21	114	54	77	5.36	+2.3	3.90	8	1	.0	0	7.9	ne.	24	sw.	31	9	6	16	6.2	49
Hatteras	11	5	47	1,019.6	1,020.1	+2.1	74	66	69.8	+3.9	81	10	58	19	9	65	85	2.17	−2.8	1.13	11	4	.0	0	11.2	n.	27	nw.	16	9	5	17	6.5	44
Raleigh [4]	376	5	71	1,005.4	1,021.2	+2.2	75	56	65.6	+3.6	85	9	46	21	57	56	80	3.55	+.7	1.34	8	1	.0	0	5.1	ne.	19	sw.	31	12	8	11	5.3	51
Wilmington	72	73	107	1,019.0	1,020.4	+1.8	77	62	69.4	+4.1	82	13	48	21	13	63	--	2.49	−.8	2.64	6	1	.0	0	8.1	ne.	27	s.	31	11	7	13	5.7	59
Charleston [4]	48	11	92	1,017.3	1,019.2	+.9	77	66	71.3	+3.5	82	30	56	21	0	64	84	1.90	−1.4	.79	6	3	.0	0	10.0	ne.	31	ne.	27	9	5	17	6.4	61
Columbia, S. C. [4]	347	70	91	1,011.9	1,020.1	+1.1	78	59	68.4	+4.1	85	9	50	1	23	60	78	2.00	−.6	1.24	8	2	.0	0	7.4	ne.	24	s.	31	10	3	18	6.4	56
Greenville, S. C. [2]	1,040	18	36	983.4	1,020.5	+1.9	74	58	65.6	+5.4	83	22	49	1	58	57	79	10.40	+7.3	6.33	12	4	.0	0	7.2	ne.	30	n.	6	6	6	19	7.1	50
Augusta [2]	182	62	77	1,013.2	1,019.8	+1.5	80	61	70.3	+4.4	87	13	53	19	10	60	74	3.42	+.8	1.52	9	3	.0	0	7.2	ne.	---	------	---	6	8	17	6.7	--
Savannah [2]	65	19	51	1,016.9	1,019.1	+1.1	81	64	72.6	+6.9	88	24	54	19	0	65	82	1.23	−1.8	.42	9	2	.0	0	11.4	n.	28	se.	30	6	9	16	5.7	66
Jacksonville [4]	43	86	110	1,016.9	1,018.2	+.9	82	69	75.6	+4.5	88	7	60	21	0	68	79	2.48	−2.0	.71	12	0	.0	0	7.7	ne.	23	ne.	14	4	13	14	----	49
FLORIDA PENINSULA																																			
									79.0	+1.8							78	4.19	−1.4														4.8	
Key West [4]	21	10	64	1,014.2	1,014.8	+.9	85	76	80.4	+1.3	88	31	72	10	0	72	78	3.68	−2.3	.89	15	7	.0	0	9.1	ne.	23	e.	9	12	14	5	4.5	74
Miami [4]	25	242	249	1,013.9	1,015.1	+.2	83	74	78.6	+.6	86	26	69	21	0	70	78	7.57	−.2	2.77	16	4	.0	0	14.6	ne.	36	ne.	12	8	19	4	4.7	77
Tampa [2]	35	5	36	1,015.2	1,016.6	+.7	87	69	77.9	+3.6	90	7	62	21	0	69	79	1.32	−1.8	.42	7	9	.0	0	6.4	ne.	22	sw.	31	11	13	7	5.2	62
EAST GULF																																			
									71.7	+4.9							80	3.20	+.1														6.8	
Atlanta [2]	1,173	33	72	978.0	1,019.4	+.4	75	59	67.2	+4.5	83	13	48	13	41	58	78	3.10	+.4	1.64	12	3	.0	0	7.8	ene.	28	nw.	31	4	10	17	7.3	43
Macon [2]	370	79	87	1,006.1	1,019.0	+.4	81	60	70.8	------	91	6	49	24	10	61	76	4.05	------	1.33	9	1	.0	0	6.9	ne.	---	------	---	5	6	20	7.1	--
Thomasville	273	48	---	------	------	------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Apalachicola	35	11	51	1,015.9	1,016.9	.0	81	70	75.1	+4.5	86	6	52	31	0	----	--	4.75	+1.6	2.35	9	4	.0	0	8.2	ne.	31	e.	10	12	7	12	5.4	64
Pensacola [4]	56	54	79	1,015.2	1,017.3	.0	81	68	74.7	+4.8	86	6	43	31	7	68	--	2.83	−1.4	1.61	8	2	.0	0	7.4	ene.	32	nw.	31	11	6	14	5.9	69
Anniston	618	6	32	996.6	1,018.9	+.6	79	58	68.2	------	87	6	42	27	41	60	79	2.23	−.4	1.30	6	4	.0	0	6.4	ene.	---	------	---	5	14	12	7.4	--
Birmingham [2]	700	5	63	993.6	1,018.8	+.2	78	59	68.8	+6.4	86	13	39	31	39	60	78	3.00	+.6	1.40	14	2	.0	0	7.4	ene.	29	e.	2	3	14	14	7.1	37
Mobile [4]	57	86	161	1,009.1	1,017.2	−.4	82	67	74.6	+5.3	89	9	44	31	13	67	86	1.52	−2.1	.51	9	1	.0	0	8.1	e.	46	nw.	31	6	11	14	6.5	49
Montgomery [4]	218	92	105	1,010.8	1,018.2	−.4	81	63	72.0	+5.4	88	7	42	31	13	62	78	3.13	+.7	1.61	12	4	.0	0	6.5	ene.	23	nw.	31	6	11	14	6.4	53
Meridian [4]	375	67	92	1,004.4	1,018.1	+.1	80	60	70.2	+5.9	89	12	37	31	31	63	82	1.86	−.5	.60	6	2	.0	0	5.6	e.	---	------	---	7	5	19	7.1	--
Vicksburg [4]	247	82	102	1,008.5	1,017.3	−1.0	76	62	68.8	+2.1	88	10	40	31	46	62	--	4.18	+1.4	1.21	14	3	.0	0	8.3	se.	30	sw.	5	3	9	19	7.7	37
New Orleans C. O	53	76	84	1,014.2	------	------	82	70	75.9	+4.9	88	10	49	31	10	----	--	3.53	+.2	1.06	11	1	.0	0	6.3	------	19	e.	1	4	14	13	6.5	40
New Orleans A. P. [2]	30	6	52	1,014.2	1,016.2	−.7	82	67	74.6	------	89	11	49	31	14	68	82	4.27	------	1.52	9	3	.0	0	8.3	e.	30	nw.	31	7	9	15	6.7	--

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR OCTOBER 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: Partly cloudy	Character of day: Cloudy	Sky cover,[7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
West Gulf									69.8	+0.8							77	8.36	+5.3														6.3	
Shreveport [2]	181	5	64	1,007.5	1,016.6	−1.0	76	59	67.4	+.3	89	10	36	31	81	61	84	14.02	+11.3	6.83	16	2	.0	0	9.0	nne.	34	ne.	4	4	10	17	7.1	44
Fort Smith [2]	463	6	30	1,001.4	1,017.9	+.6	74	52	62.8	.0	87	9	31	31	163	53	74	5.60	+2.6	2.37	10	3	.0	0	7.0	ene.	33	ne.	30	11	3	17	5.9	65
Little Rock [2]	265	26	58	1,014.6	1,018.0	.0	73	56	64.4	+.8	87	8	37	31	115	56	77	9.68	+7.0	4.07	12	1	.0	0	7.1	se.	30	ne.	5	9	6	16	6.3	45
Austin [2]	621	5	41	994.9	1,016.1	−.8	80	60	69.6	+1.3	90	9	40	31	52	59	75	4.38	+1.2	1.94	9	3	.0	0	9.2	n.	36	n.	30	8	11	12	6.2	55
Brownsville [2]	20	5	54	1,011.2	1,013.2	−1.7	84	69	76.9	+2.0	91	11	51	31	8	67	76	.56	−3.0	.27	4	0	.0	0	11.5	se.	30	nw.	30	8	16	7	5.2	46
Corpus Christi [2]	44	6	33	1,013.9	1,014.6	−1.3	83	66	74.3	+3.2	92	4	45	31	18	67	80	6.36	+3.9	2.63	13	7	.0	0	10.3	sse.	40	n.	30	9	9	13	5.6	67
Dallas [2]	488	34	45	999.0	1,016.6	−.3	75	56	65.6	−1.7	88	7	38	31	110	56	74	8.04	+5.3	3.35	10	4	.0	0	8.7	n.	31	n.	30	6	9	16	6.5	39
Forth Worth [2]	706	40	56	992.6	1,016.8	−.1	75	56	65.5	−.2	89	7	37	31	115	55	73	6.50	+3.7	3.44	9	4	.0	0	13.7	sse.	43	sw.	21	8	8	15	5.9	--
Galveston [4]	54	122	129	1,014.6	1,015.0	−1.9	78	69	73.4	+.7	85	10	49	31	21	68	84	8.37	+4.0	3.57	15	2	.0	0	13.6	nne.	66	se.	3	8	5	18	6.7	45
Houston [4]	138	157	190	1,012.5	1,015.0	−1.9	78	65	71.8	+1.5	89	10	44	31	32	66	84	17.64	+13.9	7.63	15	5	.0	0	9.7	nne.	70	e.	4	4	6	21	7.6	31
Laredo [2]	418	10	38	999.0	1,013.6	------	86	65	75.4	+1.7	96	11	47	31	17	62	67	1.61	−.5	1.05	9	3	.0	0	12.5	se.	---	------	---	10	7	14	5.9	--
Palestine	510	64	72	998.3	------	------	75	60	67.3	+.1	87	10	40	31	68	----	--	10.63	+7.3	3.55	9	2	.0	0	7.5	ne.	26	ne.	30	5	9	17	6.8	53
Port Arthur [4]	34	59	134	1,013.9	1,015.0	−1.6	78	67	72.6	+1.0	87	10	44	31	27	67	89	16.03	+12.7	8.18	16	3	.0	0	8.3	ne.	70	se.	4	5	9	17	7.2	38
San Antonio [2]	794	6	51	990.9	1,015.2	−1.1	81	60	70.6	+.1	91	20	41	31	40	58	69	7.58	+5.4	4.69	8	5	.0	0	10.7	ne.	42	n.	30	7	12	12	5.9	53
Ohio Valley and Tennessee																																		
									61.6	+5.0							76	4.28	+1.6														5.9	
Chattanooga [2]	762	6	66	994.9	1,019.7	+.4	75	57	66.2	+8.5	86	8	39	1	69	58	81	9.91	+6.9	2.94	11	3	.0	0	3.4	s.	25	sw.	6	9	8	19	7.3	32
Knoxville [2]	995	27	71	985.1	1,020.0	+1.7	75	56	65.2	+6.6	87	10	40	1	83	57	79	6.67	+4.0	2.17	12	4	.0	0	5.2	ne.	26	s.	6	7	8	16	6.7	51
Memphis [2]	399	5	49	1,008.1	1,018.4	+.1	75	56	65.2	+3.8	88	8	35	31	111	57	78	8.16	+5.5	3.90	14	4	.0	0	6.8	n.	24	nw.	31	5	14	12	6.4	57
Nashville [2]	546	5	72	999.7	1,019.5	+.2	74	54	64.2	+3.2	88	7	38	1	121	56	80	4.38	+1.9	2.02	14	3	.0	0	5.6	s.	26	sse.	6	5	9	17	7.2	38
Lexington [2]	989	4	58	984.8	1,020.8	+2.2	71	52	61.4	+4.0	85	9	35	31	171	52	76	1.85	−.7	.80	12	1	.0	0	8.1	sse.	---	------	---	10	8	13	6.1	--
Louisville [2]	525	5	54	1,001.7	1,019.8	+.8	73	52	62.2	+4.7	86	8	36	27	152	52	72	3.33	+.7	1.66	9	0	.0	0	5.9	ese.	28	s.	6	9	8	14	6.3	51
Evansville [2]	431	6	40	1,004.1	1,020.0	+1.0	71	51	61.0	+4.0	85	11	32	31	172	52	76	7.01	+4.2	1.61	12	4	.0	0	7.5	nnw.	31	nw.	31	7	12	12	6.0	54
Indianapolis [2]	823	5	54	990.2	1,020.0	+1.4	69	49	59.2	+5.1	84	8	30	27	221	49	74	4.25	+1.5	1.44	11	1	.0	0	8.7	se.	36	sw.	6	13	4	14	5.4	62
Terre Haute [2]	575	4	36	998.3	1,019.7	+1.4	70	49	59.1	+2.9	83	9	27	27	220	50	77	6.43	+3.7	2.32	10	4	.0	0	8.7	s.	31	s.	10	11	7	13	5.5	61
Cincinnati [4]	627	135	148	997.3	1,020.6	+1.3	72	53	62.6	+5.6	88	8	37	27	146	50	74	2.53	.0	.89	10	0	.0	0	8.1	ssw.	16	nw.	12	12	6	13	5.4	51
Columbus [4]	822	90	110	990.5	1,021.0	+2.0	70	51	60.9	+5.7	86	8	33	27	187	49	74	1.31	−1.2	.37	8	0	.0	0	7.1	se.	32	sw.	22	14	4	13	4.9	55
Dayton [2]	1,003	6	55	984.1	1,020.8	+2.5	68	50	58.6	+4.8	83	8	30	31	236	49	74	1.95	−.6	.70	9	0	.0	0	9.3	s.	32	w.	22	13	6	12	5.2	56
Elkins [2]	1,947	5	45	950.9	1,022.6	+1.9	70	44	56.8	+5.7	86	10	28	27	270	48	80	3.33	+.4	.93	13	0	.0	0	3.9	sse.	30	w.	22	8	8	15	6.3	54
Parkersburg	637	77	84	------	------	------	73	50	61.6	+5.5	89	10	29	27	172	----	--	1.28	−1.2	.62	12	0	.0	0	5.1	------	22	nw.	12	14	6	11	5.1	56
Pittsburgh [2]	842	39	54	975.3	1,021.4	+2.4	70	50	59.6	+5.5	88	10	34	27	213	47	66	1.79	−.7	.67	11	1	.0	0	8.2	s.	32	w.	22	14	5	12	5.3	52
Lower Lakes																																		
									57.3	+5.8							73	2.27	−.6														5.0	
Buffalo [2]	768	34	96	992.6	1,021.1	+3.5	68	47	57.2	+6.1	85	10	32	31	273	45	69	1.67	−1.6	.49	9	1	.0	0	11.4	sw.	47	sw.	22	9	11	11	5.6	60
Canton	448	10	61	1,003.7	1,020.0	+3.4	64	42	53.2	+5.7	82	11	20	25	382	----	--	1.64	−1.4	.52	7	1	T	0	6.6	------	37	sw.	21	10	9	12	5.2	59
Oswego	335	71	85	1,008.1	1,020.7	+3.4	65	49	56.8	+6.5	85	11	32	25	281	----	--	1.55	−1.7	.62	8	0	T	0	8.4	------	27	nw.	26	10	10	11	5.4	58
Rochester [2]	523	4	69	1,001.7	1,021.2	+3.2	63	44	55.8	+4.3	89	10	29	25	315	46	75	.77	−1.9	.48	7	1	.0	0	6.5	sw.	45	w.	22	8	10	13	5.9	62
Syracuse [2]	596	5	57	998.6	1,021.4	+3.4	62	45	56.2	+6.7	86	11	31	25	297	47	74	1.36	−1.8	.37	11	0	.0	0	8.1	s.	40	nw.	26	7	12	12	5.9	49
Erie [4]	714	57	81	------	------	------	67	51	59.4	+6.0	88	10	34	27	219	----	--	1.31	−2.4	.65	10	0	.0	0	7.8	------	26	sw.	22	11	13	7	4.6	53
Cleveland [2]	762	27	54	992.6	1,020.7	+2.4	71	48	59.2	+6.5	87	8	26	27	229	48	71	1.04	−1.7	.50	8	0	.0	0	10.1	s.	37	w.	22	13	10	8	4.6	68
Sandusky	629	5	67	997.6	------	------	69	52	60.4	+6.1	88	9	31	27	199	----	--	1.24	−1.2	.52	7	0	.0	0	7.7	------	24	sw.	22	17	9	5	3.9	75
Toledo [2]	628	5	47	997.0	1,020.4	+2.2	68	48	58.0	+6.4	87	8	26	27	263	48	74	3.77	+1.4	2.06	7	1	.0	0	9.4	ssw.	36	nw.	22	15	5	11	4.8	73
Fort Wayne [2]	857	5	34	989.5	1,020.3	+2.0	68	46	57.1	+4.4	86	9	25	27	279	48	75	5.08	+2.5	2.47	8	0	.0	0	7.6	ssw.	35	s.	10	15	2	14	5.1	63
Detroit [2]	730	5	77	993.6	1,020.6	+2.6	67	48	57.4	+5.5	86	9	31	31	270	47	72	5.50	+3.1	3.55	8	0	.0	0	9.2	s.	43	nw.	22	14	9	8	4.4	70
Upper Lakes																																		
									52.4	+4.5							74	2.24	−.4														5.5	
Alpena	609	5	89	995.9	------	------	61	42	51.8	+4.7	82	9	24	31	417	----	--	.75	−2.0	.24	9	1	T	0	10.6	------	34	sw.	10	11	10	10	5.5	57
Escanaba	612	51	72	994.6	------	------	58	43	50.2	+4.2	69	11	25	31	464	----	--	1.16	−1.5	.49	10	1	.0	0	10.5	------	41	s.	10	12	10	9	4.9	80
Grand Rapids [4]	707	70	244	993.6	1,019.3	+1.7	67	48	57.4	+6.2	85	8	31	31	266	45	74	1.73	−1.1	.94	10	0	T	0	10.8	s.	56	s.	10	10	10	11	5.3	67
Lansing [4]	878	5	90	987.5	1,020.2	+2.2	66	44	54.9	+4.6	84	8	25	31	335	45	72	2.35	−.1	.96	9	1	T	0	13.4	ssw.	41	s.	22	13	11	7	4.5	65
Marquette	734	44	73	988.5	------	------	60	42	51.2	+4.5	78	8	25	31	432	----	--	2.50	−.3	.66	14	2	4.6	2	9.4	------	47	s.	10	5	9	17	6.8	43
Sault Sainte Marie [3]	614	10	52	990.5	1,017.8	+1.2	59	38	48.6	+5.6	76	8	20	31	507	42	82	3.12	.0	1.12	17	1	5.2	2	9.8	e.	43	w.	22	6	9	16	6.9	53
Chicago [2]	673	5	38	996.3	1,019.4	+1.4	67	47	57.2	+4.7	87	8	30	26	276	46	72	2.73	+.2	.82	7	2	.0	0	9.4	s.	45	s.	10	12	7	12	5.2	65
Green Bay	617	5	32	994.6	1,017.8	+1.2	63	40	51.6	+3.1	83	8	23	26	430	40	68	1.05	−1.5	.73	3	0	T	T	12.2	ssw.	66	sw.	10	11	13	7	4.9	66
Milwaukee [2]	681	33	66	992.9	1,018.6	+1.3	64	44	53.8	+4.3	83	10	27	31	357	45	75	1.62	−.7	.79	8	2	.0	0	12.5	sw.	60	s.	10	16	4	11	4.5	57
Duluth [4]	1,133	5	47	963.1	1,015.2	−.7	56	38	47.0	+2.9	73	3	18	31	558	37	76	5.38	+3.1	2.09	12	5	.7	0	18.9	wnw	57	sw.	10	5	13	13	6.6	41
North Dakota																																		
									43.9	+.5							72	2.52	+1.4														7.0	
Fargo [2]	940	5	47	979.0	1,013.8	−2.1	57	35	45.9	+1.5	79	5	17	31	592	36	70	2.76	+1.1	1.26	9	2	T	0	16.0	s.	52	w.	10	5	10	16	6.7	43
Bismarck [2]	1,677	5	41	955.0	1,014.8	−2.1	56	33	44.4	+.8	90	5	19	26	646	35	73	2.06	+1.1	.87	13	4	.6	0	12.6	w.	47	nw.	29	6	9	16	6.7	50
Devils Lake	1,478	11	44	959.4	------	------	52	33	42.4	.0	85	5	20	26	701	----	--	3.94	+2.7	2.14	13	2	1.1	0	11.1	------	34	w.	29	9	6	16	6.4	50
Grand Forks [2]	832	4	41	------	------	------	----	----	----	----	----	----	----	----	----	----	--	----	----	----	----	----	----	----	----	------	----	----	----	----	----	----	----	----
Williston	1,878	42	50	946.5	------	------	53	33	43.0	−.4	77	15	22	20	682	----	--	1.33	+.5	.85	7	0	.6	0	9.0	------	37	w.	29	1	8	22	8.2	59
Upper Mississippi																																		
									56.7	+3.9							72	2.87	+.4														5.2	
Minneapolis-St. Paul [2]	919	43	74	981.0	1,015.6	−.3	63	43	52.9	+4.0	80	8	20	31	376	40	66	1.72	−.4	.59	9	1	T	0	12.9	se.	65	s.	10	8	10	13	5.7	47
La Crosse [2]	672	5	29	992.2	1,017.0	+.4	65	41	53.2	+4.1	78	7	20	31	376	42	68	1.17	−1.2	.56	6	4	.0	0	9.6	s.	69	sw.	10	10	8	13	5.8	62
Madison [2]	974	27	39	986.1	1,018.4	+.8	66	42	53.6	+4.3	83	8	25	26	374	43	69	1.86	−.6	1.37	6	1	.0	0	12.4	s.	63	sw.	10	13	10	8	4.3	66
Charles City	1,015	10	51	980.7	1,017.6	+.3	66	42	54.0	+5.4	82	7	20	31	352	----	--	1.58	−.8	.68	8	3	.0	0	7.5	------	48	sw.	10	9	13	9	5.2	57
Moline [2]	606	6	50	996.3	1,018.8	+1.2	68	46	57.0	+5.0	87	8	25	31	289	45	69	2.27	−.1	1.54	7	3	.0	0	9.0	s.	56	sw.	10	14	4	13	4.8	61
Des Moines [4]	860	5	99	986.1	1,017.6	+.7	69	46	57.1	+3.7	87	7	21	31	276	44	72	1.70	−.8	.66	10	4	.0	0	10.2	s.	54	s.	10	11	7	13	5.4	68
Dubuque	699	60	79	992.6	1,018.0	+.4	66	46	56.0	+4.1	86	8	26	31	304	46	73	1.87	−.6	.78	8	3	.0	0	5.5	------	26	se.	10	10	10	11	5.1	65
Burlington [2]	702	4	36	992.9	1,018.8	+1.2	69	46	57.2	+3.4	87	8	21	31	284	47	78	1.89	−.8	.87	8	1	.0	0	11.1	sse.	47	sw.	10	14	7	10	4.9	66
Cairo	357	5	99	1,005.8	------	------	72	55	63.2	+2.7	84	11	35	31	135	----	--	6.55	+3.8	2.94	13	2	T	0	7.9	------	30	ne.	5	9	9	13	5.9	64
Peoria [2]	609	7	26	996.6	1,019.2	+.9	68	47	57.4	+3.9	85	9	26	31	266	47	72	2.71	+.4	1.35	10	3	.0	0	10.3	s.	47	sw.	10	13	4	14	5.2	59
Springfield, Ill. [4]	636	5	49	996.6	1,019.1	+1.1	68	48	57.9	+4.3	86	9	27	31	268	50	76	4.60	+2.1	1.64	9	2	.0	0	10.2	s.	44	s.	10	15	1	15	5.2	61
St. Louis [4]	568	33	59	998.3	1,018.8	+.8	69	53	61.2	+2.4	87	8	30	31	175	50	76	6.47	+3.8	1.73	11	5	.0	0	7.6	sse.	45	sw.	10	14	2	15	5.4	52

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR OCTOBER 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 [3]	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.	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	%
MISSOURI VALLEY									56.0	+2.3							73	3.75	+1.6														5.1	
Columbia, Mo. [4]	784	6	66	989.5	1,018.2	+0.2	70	49	59.6	+2.7	88	7	25	31	227	49	78	5.31	+2.7	3.03	10	3	T	0	7.4	sse.	26	sw.	10	13	7	11	5.0	56
Kansas City [2]	963	38	76	990.2	1,017.6	.0	71	50	60.6	+2.9	88	7	26	31	195	48	69	5.70	+3.0	2.19	8	3	.0	0	8.0	ssw.	56	s.	10	12	7	12	5.2	64
St. Joseph [2]	967	5	51	982.1	1,017.2	−.1	71	47	58.9	+2.9	90	7	24	31	233	46	73	4.29	+1.4	2.91	6	5	T	0	10.1	sse.	36	sw.	10	12	10	9	4.9	61
Springfield, Mo. [2]	1,324	5	50	970.5	1,018.4	+.4	69	49	59.0	+1.4	84	8	26	31	232	49	78	8.46	+5.4	5.48	10	3	.0	0	8.7	sse.	40	sw.	10	13	5	13	5.1	57
Topeka [4]	987	65	87	985.4	1,017.5	+.2	71	49	60.2	+3.2	87	8	26	31	208	48	76	3.94	+1.5	1.93	8	3	.0	0	9.4	s.	30	sw.	10	12	8	11	5.2	58
Lincoln [4]	1,189	6	81	973.2	1,016.4	−.2	68	46	57.0	+2.8	87	7	22	31	268	44	73	2.99	+1.1	.97	9	7	.0	0	9.7	s.	44	s.	10	15	8	8	4.5	63
Norfolk, Nebr. [2]	1,551	5	38	960.0	1,016.0	------	66	40	53.0	+1.3	84	3	16	31	381	40	72	1.27	−.3	.66	7	2	.0	0	----	------	---	------	---	11	10	10	5.1	--
Omaha [2]	1,105	5	68	976.6	1,016.6	−.7	68	45	56.7	+3.3	88	8	20	31	280	43	68	3.22	+1.1	1.34	9	8	T	0	11.6	sse.	59	s.	10	13	8	10	4.8	60
Valentine	2,598	46	54	923.5	1,015.6	−1.7	60	37	48.3	−1.0	79	1	23	30	522	36	70	2.61	+1.5	1.49	7	5	T	0	9.6	------	40	n.	10	13	7	11	5.1	61
Sioux City [2]	1,138	5	40	974.6	1,016.1	−.8	66	41	53.8	+4.1	83	3	17	31	358	42	72	2.22	+.4	1.45	7	3	.0	0	10.5	sse.	70	w.	10	11	9	11	5.5	68
Huron [2]	1,301	5	41	967.5	1,015.0	−2.3	61	37	49.0	+1.3	81	5	17	31	503	38	72	1.21	−.1	.53	9	3	T	0	12.7	s.	72	w.	10	10	10	11	5.7	45
NORTHERN SLOPE									42.4	−2.8							65	1.39	+.3														6.8	
Billings [2]	3,570	16	39	891.3	1,017.1	−1.9	51	33	41.9	−6.1	76	15	19	21	717	29	65	2.72	------	1.08	11	1	23.1	0	12.7	sw.	68	nw.	10	6	7	18	7.1	29
Butte	5,533	44	58	830.3	1,020.8	------	48	22	35.4	−6.1	70	4	9	19	914	24	66	.62	−.2	.28	12	0	7.0	0	8.8	nw.	---	------	---	3	8	20	7.5	--
Glasgow	2,086	34	53	940.4	1,015.9	------	56	31	43.4	−1.2	78	15	16	21	667	30	61	.83	+.1	.43	8	1	1.8	0	----	------	---	------	---	1	9	21	7.9	--
Great Falls [2]	3,657	16	75	888.6	1,016.8	------	50	33	41.5	−5.7	71	4	15	18	731	28	63	.90	.0	.35	11	0	7.4	0	15.9	sw.	73	w.	28	5	5	21	7.7	48
Havre	2,507	11	67	926.5	1,016.6	.0	53	33	42.8	−1.7	74	15	19	21	688	----	--	1.41	+.7	.64	9	0	5.8	0	10.4	sw.	42	w.	5	0	12	19	7.7	42
Helena [2]	4,124	5	43	874.7	1,019.4	+1.4	51	28	39.6	−4.2	76	4	15	18	791	27	64	.28	−.3	.12	6	1	3.6	0	7.0	w.	47	sw.	28	3	7	21	7.6	52
Missoula [2]	3,263	4	32	903.8	1,020.1	+1.5	52	29	40.8	−2.5	68	4	19	17	755	30	69	.74	−.2	.33	6	1	.7	0	5.0	nw.	33	nw.	28	4	7	20	7.5	50
Kalispell	2,973	48	56	913.3	1,018.2	+.6	50	31	40.8	−2.7	61	1	20	19	751	30	--	.98	−.1	.40	9	1	.6	0	9.5	s.	---	------	---	5	3	23	8.0	--
Miles City [2]	2,371	5	28	931.3	1,016.6	−2.0	54	33	43.6	------	80	15	19	21	658	31	--	2.43	------	.83	11	0	12.6	0	11.0	wnw.	---	------	---	5	10	16	6.9	--
Rapid City [2]	3,259	5	56	908.6	1,016.2	−1.8	59	36	47.2	−.4	93	5	21	21	554	32	66	.88	−.1	.60	6	0	.7	0	15.4	nnw.	63	nw.	10	8	9	14	6.2	55
Cheyenne [2]	6,094	22	40	811.0	1,016.0	−.6	56	32	43.6	−1.2	75	5	16	21	666	28	64	1.36	+.4	.52	7	2	7.2	0	12.5	w.	56	nw.	10	11	12	8	5.2	73
Lander [2]	5,352	6	30	829.0	1,017.6	−.4	51	28	39.6	−3.9	74	4	9	21	792	26	65	3.12	+1.8	1.14	10	1	27.8	0	6.1	------	44	sw.	5	12	9	10	4.7	64
Sheridan [2]	3,790	5	38	884.5	1,017.3	−.7	55	30	42.5	−2.1	82	15	18	21	696	28	65	1.99	+.9	.78	12	2	10.9	0	8.7	nw.	47	nw.	28	7	7	17	6.7	53
North Platte [2]	2,821	11	51	916.4	1,015.8	−1.5	64	39	51.4	+1.7	78	5	24	21	417	38	72	1.16	+.1	.96	6	4	T	0	11.5	ne.	34	se.	5	11	12	8	4.5	63
MIDDLE SLOPE									57.3	+.9							66	2.43	+.4														4.1	
Denver	5,292	106	113	836.4	1,015.2	−1.4	62	38	50.4	−.8	82	5	27	20	451	28	54	.85	−.2	.38	8	0	6.0	0	8.0	s.	43	nw.	10	10	14	7	4.8	67
Pueblo [2]	4,690	5	36	856.4	1,015.0	−.9	67	36	51.4	+.2	85	7	24	22	418	32	56	1.41	+.8	.53	7	1	2.3	0	5.8	w.	50	w.	10	15	9	7	4.1	71
Concordia	1,392	50	58	967.2	1,017.3	−.3	69	48	58.4	+2.5	91	7	26	31	242	43	63	3.14	+1.2	1.93	8	5	.0	0	9.3	------	31	s.	10	18	9	4	3.4	69
Dodge City [2]	2,509	5	58	927.9	1,015.4	−1.9	70	45	57.0	+.9	91	7	27	31	279	44	71	4.48	+3.2	4.14	6	2	T	0	13.5	s.	63	sw.	9	20	9	2	2.8	81
Wichita [2]	1,358	52	64	968.2	1,016.5	−.1	70	50	60.0	+1.4	88	7	26	31	218	48	70	1.91	−.9	.73	10	4	.0	0	14.6	s.	49	s.	9	17	6	8	4.2	71
Oklahoma City [4]	1,214	10	47	970.5	1,016.8	−.5	72	52	62.1	+.6	88	7	30	31	171	51	73	2.97	+.1	1.57	9	2	.0	0	13.0	s.	28	w.	10	15	5	11	4.4	63
Tulsa [2]	674	10	60	993.2	1,017.4	------	74	50	62.0	+.4	87	7	30	31	179	51	72	2.27	−1.1	.72	10	2	0	0	8.5	s.	34	s.	10	13	5	13	4.8	60
SOUTHERN SLOPE									62.7	−.7							64	2.34	+.3														3.9	
Abilene [2]	1,755	4	59	955.0	1,015.5	−1.1	76	53	64.6	+.3	94	7	35	31	137	50	65	4.00	+1.5	2.23	6	3	.0	0	12.1	s.	44	s.	21	14	8	9	4.6	67
Amarillo [2]	3,604	5	42	889.6	1,014.7	−1.9	71	44	57.8	+2.0	88	6	26	31	262	42	63	1.03	−.6	.67	5	2	T	0	10.9	s.	68	s.	1	19	6	6	3.1	73
Del Rio	960	63	71	981.4	1,014.2	−1.0	80	60	69.8	−.2	92	7	43	31	38	57	69	1.88	+.1	1.42	8	4	.0	0	7.3	se.	31	nw.	30	13	9	9	4.8	63
Roswell [2]	3,614	6	29	892.0	1,015.1	−.5	73	41	57.2	−2.3	89	7	26	31	262	38	54	1.10	−.3	.73	3	2	T	0	7.4	s.	43	s.	9	21	5	5	2.7	79
Wichita Falls [2]	1,030	4	49	979.7	1,016.2	------	75	53	64.2	−3.3	92	7	32	31	144	52	67	3.69	+.8	.54	7	1	.0	0	12.3	sse.	60	wnw.	10	15	6	10	4.5	--
SOUTHERN PLATEAU									62.4	−.9							45	1.19	+.5														2.8	
El Paso [2]	3,916	35	85	886.6	1,013.2	−.7	75	50	62.7	+.7	89	2	38	31	139	40	46	1.50	+.7	1.44	2	3	.0	0	8.9	n.	43	w.	9	19	8	4	2.9	77
Albuquerque [2]	5,314	5	45	849.0	1,013.4	−1.5	70	42	56.2	−.4	84	3	26	31	290	33	45	.14	−.7	.07	4	1	T	0	8.1	s.	57	s.	19	19	8	4	3.0	81
Flagstaff	6,907	34	48	791.4	------	------	60	31	45.2	−1.7	75	2	4	20	615	29	58	3.84	+2.4	2.01	6	2	6.9	0	6.2	nnw	---	------	---	14	8	9	4.6	--
Phoenix [4]	1,107	39	87	973.6	1,011.8	−.1	84	56	70.0	−.6	98	2	39	21	49	44	46	.80	+.3	.74	3	3	T	0	4.3	se.	30	sw.	18	20	6	5	2.7	82
Tucson [2]	2,555	5	39	925.2	1,012.1	−.1	79	53	66.4	−2.3	92	1	35	21	78	39	41	.52	.0	.19	7	5	.0	0	7.2	sse.	37	e.	31	21	7	3	2.6	86
Yuma [2]	142	9	54	1,006.4	1,011.0	−.5	88	60	73.8	------	102	1	44	20	25	41	34	.35	------	.28	3	3	.0	0	5.7	nne.	34	nw.	8	26	5	0	1.2	99
MIDDLE PLATEAU									47.0	−1.5							58	.99	+.2														4.3	
			41	809.7	------	------	58	28	43.0	+1.2	77	4	18	20	679	----	--	.61	−.2	.27	6	1	6.1	0	9.9	------	36	se.	17	16	5	10	4.4	66
Ely [2]	6,262	8	52	863.5	1,017.1	+.5	67	29	47.8	−.7	82	4	19	21	534	28	50	.11	−.2	.08	2	0	1.1	0	4.7	n.	34	nw.	6	19	5	7	3.3	81
Reno [2]	4,527	20	56	868.9	1,018.0	.0	62	27	44.6	−3.7	82	4	15	18	631	29	56	.72	+.1	.39	4	0	2.2	0	7.6	------	27	n.	19	15	7	9	4.3	74
Winnemucca [2]	4,339	5	46	------	------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
Modena	5,473	10	58	872.0	1,016.7	+.1	59	37	48.3	−2.5	84	4	28	22	520	36	67	2.79	+1.5	.75	10	1	1.1	0	8.4	sse.	42	nw.	17	13	6	12	5.2	60
Salt Lake City [2]	4,357	32	26	860.5	1,016.4	+.8	63	39	51.1	−1.7	80	4	27	22	433	34	57	.72	−.2	.48	5	1	T	0	8.0	e.	42	s.	8	16	8	7	4.2	68
Grand Junction [2]	4,602	5																																
NORTHERN PLATEAU									45.2	−3.6							64	.96	−.3														5.5	
Baker [4]	3,471	36	54	898.1	1,020.8	+1.5	56	30	42.8	−3.8	70	25	18	18	686	26	--	.17	−.7	.11	4	1	T	0	6.8	se.	24	n.	8	13	7	11	5.1	69
Meacham	4,056	7	28	879.4	1,021.0	------	50	32	40.6	------	65	31	18	19	758	30	69	2.89	------	.69	9	0	4.2	0	5.9	ese.	---	------	---	8	11	12	6.2	--
Boise [2]	2,739	5	49	922.1	1,019.2	+.9	58	34	46.4	−3.7	70	4	24	19	576	31	59	1.20	.0	.55	7	0	T	0	11.6	nw.	38	w.	5	12	11	8	4.5	75
Burley [2]	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
Lewiston	1,436	4	23	967.2	1,019.8	------	58	35	46.8	------	69	1	21	19	566	34	65	.35	------	.21	6	0	.0	0	5.8	e.	---	------	---	8	8	15	6.3	--
Pocatello [2]	4,478	5	31	864.2	1,019.0	+1.4	55	30	42.6	−3.9	79	4	17	22	697	29	64	1.17	−.5	.37	11	1	9.2	0	8.1	sw.	40	sw.	5	11	7	13	5.6	58
Ellensburg [2]	1,735	5	58	956.7	1,019.8	------	59	33	45.8	−2.4	70	24	17	19	598	33	66	.36	−.2	.32	4	0	.0	0	9.8	nw.	---	------	---	12	8	11	5.4	--
Lacrosse	1,544	5	43	------	------	------	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	--
Spokane [2]	1,929	6	51	949.2	1,019.3	+1.3	55	33	44.2	−4.1	64	23	20	20	644	31	63	1.52	+.4	.79	7	1	.4	0	9.1	sw.	34	sw.	5	9	9	13	5.7	57
Walla Walla	991	57	65	983.4	1,020.7	+3.1	60	41	50.6	−2.9	70	24	26	19	443	36	--	.84	−.7	.35	7	0	.3	0	4.7	s.	25	sw.	5	9	10	12	5.7	58
Yakima [2]	1,076	4	54	980.7	1,018.5	+.9	64	30	47.3	−4.4	73	1	17	19	547	32	61	.13	−.5	.11	3	0	.0	0	7.4	w.	---	------	---	10	8	13	5.3	--

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR OCTOBER 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: Partly cloudy	Character of day: Cloudy	Sky cover,[7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	° F.	° F.	° F.	° F.	° F.		° F.			° F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
NORTH PACIFIC COAST									49.0	−2.6							78	3.22	−0.1														6.4	
Kelso [2]	750	38	76				59	36	47.6		73	30	23	19	540	42	83	4.20		1.10	13	2	T	0	7.9	sse.				3	11	17	7.2	
North Head	211	5	55	1,012.9	1,020.7	+3.1	55	46	50.4	−2.5	70	30	39	18	451			5.52	+.5	1.58	15	1	T	0	11.8	n.	54	w.	4	6	10	15	6.7	48
Seattle [4]	125	90	321	1,016.3	1,020.7	+2.4	57	45	51.0	−2.7	65	14	33	19	433	44	83	3.45	+.6	1.29	14	2	T	0	7.6	s.	35	sw.	11	2	14	15	7.0	43
Tacoma	194	172	201	1,013.5	1,020.7	+2.7	56	43	49.6	−.9	68	31	32	20	477			2.86	−.5	1.39	12	0	T	0	7.0	n.	34	n.	18	6	11	14	6.5	46
Tatoosh Island	86	5	61	1,016.9	1,020.0	+3.1	54	45	49.4	−.5	62	31	40	19	482	44	87	7.07	−1.1	1.63	11	0	.0	0	11.9	ne.	57	s.	10	8	6	17	6.8	44
Burns	4,162	35	47	875.4	1,020.2		58	27	42.2	−3.8	70	15	13	18	708	24	54	.17	−.4	.09	4	0	T	0						16	6	9	4.3	
Eugene [2]	433	4	35	1,007.8	1,021.7		60	37	48.2		75	31	24	20	517	42	84	1.94		.60	10	0	T	0	6.3	s.				7	8	16	6.5	
Medford [2]	1,329	29	58	972.9	1,021.4	+3.8	64	36	50.0	−3.6	82	1	20	19	465	38	72	1.89	+.5	.88	7	0	T	0	5.6	n.				13	8	10	4.7	
Portland, Oreg. [4]	154	68	106	1,015.6	1,021.5	+3.5	59	43	51.0	−3.2	69	31	33	20	432	43	84	2.72	−.4	1.28	11	1	T	0	4.4	nw.	26	s.	9	2	13	16	7.4	34
Roseburg	510	45	76	1,003.1	1,021.9	+3.6	60	41	50.6	−3.3	74	31	27	19	443			2.42	−.2	.95	9	0	T	0	3.4	nw.	20	n.	12	3	13	15	7.1	37
MIDDLE PACIFIC COAST																																		
									59.0	−1.3							51	.56	−.8														2.7	
Auburn [2]	1,651	4	58																															
Eureka	60	72	88	1,017.6			57	44	50.7	−2.9	73	30	34	19	439			2.03	−.3	1.53	5	0	.0	0	6.0		32	n.	12	13	10	8	4.5	67
Red Bluff [2]	353	5	26	1,003.1	1,015.2		79	50	64.3	.0	95	3	39	21	112	30	30	T	−1.3	T	0	0	.0	0	8.6	nw.	26	nw.	12	24	2	5	2.3	93
Sacramento [4]	66	92	115	1,013.2	1,015.0	−.2	76	49	62.6	−.3	90	3	37	20	132	40	50	.14	−.8	.14	1	0	.0	0	9.6	nnw.	25	nw.	8	26	4	1	1.2	94
San Francisco [4]	155	112	132	1,015.9	1,016.2	+.3	66	51	58.5	−2.0	84	30	45	20	218	46	73	.08	−1.0	.06	3	0	T	0	12.7	nw.	27	w.	5	18	8	5	2.9	95
SOUTH PACIFIC COAST																																		
									64.4	+.5							58	.08	−.5														2.5	
Fresno [2]	327	5	34	1,003.1	1,014.5	−.7	80	45	62.6	+.3	94	4	30	19	142	39	46	T	−.6	T	0	0	.0	0	5.9	nw.	29	w.	18	26	5	0	1.2	97
Los Angeles [4]	338	236	263	1,010.8	1,014.2	−.4	76	56	66.2	+.9	90	12	47	21	54	48	65	.01	−.7	.01	1	0	.0	0	6.4	w.	24	w.	18	21	5	5	3.1	77
San Diego [2]	87	20	55	1,011.5	1,014.2	.0	73	56	64.3	+.2	86	30	45	21	60	49	62	.23	−3	.23	1	0	.0	0	6.5	ssw.	26	w.	18	17	7	7	3.1	71
WEST INDIES																																		
San Juan, P. R.	82	9	54	1,010.2	1,012.9		84	75	79.6	−.2	90	10	72	22	0			4.21	−1.6	.89	18	9	0	0	7.7	s.	31	e.	28	1	14	16	7.3	44
ALASKA																																		
Anchorage [2]	132	6	44	1,000.0	1,005.1		42	28	35.2	−.8	52	19	14	23	925	28	72	1.25	−.9	.40	8	0	7.3	2		n.	43	s.	19	4	8	19	7.5	
Annette Island	113	5	53	1,008.5	1,012.5		50	42	46.3	−.7	55	2	31	17	583	43	88	20.38	+4.3	2.55	27	0	T	0	14.2	ese.				1	3	27	9.3	
Barrow	29	5	27																															
Bethel [2]	28	5	31	1,002.4	1,004.1		39	28	33.6	+2.1	47	27	17	24	976	31	88	2.79	+1.0	1.28	12	0	T	T		n.	25	ese.	16	2	6	23	8.3	
Cordova [2]	45	5	32	1,001.7	1,003.7		48	31	39.9	−.6	56	5	20	16	777	35	80	13.51	.0	3.13	20	0	.1	0		e.	35	e.	12	7	4	20	7.2	
Fairbanks [2]	455	5	63	989.5	1,007.1		36	20	28.0	+1.4	47	1	4	16	1,157	26	86	.43	−.4	.15	10	0	5.7	2		nw.	26	s.	15	3	2	26	8.4	
Galena	139	4	66																															
Gambell	32	5	32	1,003.1	1,004.1		37	32	34.5	+3.3	40	1	22	31	944	32	88	1.54	+.2	.30	17	0	7.2	T		n.	50	ne.	12	0	1	30	9.6	
Juneau [2]	80	6	30	1,008.6	1,009.5		47	36	41.6	+.3	55	30	22	17	729	38	85	8.50	+.2	1.74	25	0	2.1	0		ese.	50	se.	29	2	4	25	8.5	
Kotzebue [2]	20	5	31																															
McGrath [2]	341	5	31	993.9	1,006.8		35	22	28.4	+.9	45	1	8	14	1,139	24	78	1.30	−.6	.37	13	0	8.1	6	5.0	wnw.				6	4	21	7.5	
Nome [2]	22	10	75																															
Northway [2]	1,718	5	32	944.8	1,009.1		28	14	21.0	−4.0	49	1	−5	29	1,364	18	80	.79	+.2	.25	8	0	10.5	7		nw.				0	5	26	9.0	
St. Paul Is.	28	4	39	1,000.7	1,001.7		42	34	38.0	−1.0	47	8	28	4	836	35	86	4.44	+1.1	1.93	20	0	.8	0						0	6	25	8.8	
Yakutat	31	5	50	1,005.4	1,006.8		48	34	41.2	−.9	58	6	22	16	743	37	84	18.97	−.8	1.91	24	1	3.4	0		ese.				5	0	26	8.2	
HAWAII																																		
Honolulu [4]	38	86	98	1,116.3	1,016.6		81	72	76.4	−.4	83	3	68	29	0			.45	−1.1	.19	12	0	0	0	11.1		25	e.	9	9	18	4	4.9	67

[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.