CLIMATOLOGICAL DATA FOR NOVEMBER 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					
	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	52.9	−1.4	5 stations	83	[1] 11	Gadsden	18	26	0.80	−2.39	Arley	3.34	Chatom	T
Arizona	55.3	+5.4	3 stations	95	[1] 3	Fort Valley	8	12	.33	−.63	Sedona	1.03	5 stations	0.00
Arkansas	52.3	+1.0	Magnolia	85	28	2 stations	12	22	.37	−3.45	Lee Creek	1.17	11 stations	.00
California	56.5	+4.5	Bonita	100	3	3 stations	9	[1] 5	1.68	−.36	Gasquet R. S.	8.80	5 stations	.00
Colorado	42.9	+7.8	Box Ranch	86	8	Platoro	−7	12	.24	−.55	Wolf Creek Pass	2.20	8 stations	.00
Florida	62.1	−2.9	3 stations	90	[1] 1	Milton Exp. Sta	26	[1] 19	1.86	−.35	Royal Palm Ranger Sta.	7.17	Okeechobee 9 W	.30
Georgia	53.1	−2.3	2 stations	84	12	Blairsville Exp. Sta	15	23	1.08	−1.61	Washington	3.29	Fort Gaines	T
Idaho	40.9	+5.6	do	77	[1] 4	Grouse	1	11	1.87	−.08	Wallace	7.38	Grand View	.02
Illinois	44.2	+1.8	5 stations	80	[1] 10	Marengo	3	26	.67	−1.95	Mackinaw	1.93	2 stations	T
Indiana	42.7	+.2	Vincennes	81	11	Angola	9	26	1.12	−1.93	La Porte	4.35	Moores Hill	T
Iowa	41.7	+4.3	2 stations	79	[1] 7	New Hampton	6	22	.49	−1.23	Belle Plaine	1.27	6 stations	.00
Kansas	48.9	+5.8	Coldwater	88	10	Atwood	9	21	.15	−1.10	Horton	1.51	20 stations	.00
Kentucky	45.4	−1.1	Beaver Dam	80	11	Shelbyville 2 W	11	22	1.82	−1.62	Delphia	4.10	Covington WB AP	.43
Louisiana	58.2	−.7	Camp Polk	89	24	Tallulah	21	22	.34	−3.76	Atchafalaya	2.00	11 stations	.60
Maryland-Delaware	45.8	+.4	Coleman, Md	83	11	2 stations	12	33	1.68	−.99	Friendsville, Md	3.71	Clear Spring, Md	.58
Michigan	35.1	−.9	Dowagiac 2 E	72	12	3 stations	−11	26	2.25	−.24	Detour 1 N	5.47	Monroe Water Works	.68
Minnesota	34.4	+4.7	Winona	76	8	Hallock	−9	25	.94	−.25	Dawson	2.10	2 stations	.13
Mississippi	54.8	−.4	Picayune	86	[1] 11	Pontotoc	19	22	.39	−3.46	Pelahatchie	2.30	19 stations	.00
Missouri	47.6	+3.1	Camdenton	87	11	Black	10	22	.45	−2.28	Maryville	1.06	2 stations	.00
Montana	41.5	+9.8	3 stations	78	[1] 3	Lakeview	−2	11	.48	−.37	Heron 25 W	5.76	13 stations	.00
Nebraska	45.4	+8.1	Central City	82	11	Arthur	4	21	.17	−.62	New Port	1.05	15 stations	.00
Nevada	47.0	+7.1	Lathrop Wells	90	3	Imlay	5	17	.52	−.12	Glenbrook	2.34	3 stations	.00
New England	36.7	−1.4	3 stations	73	[1] 11	2 stations	−10	27	3.13	−.46	Eastport WB City Maine.	7.01	Rockwood Lake Conn.	.86
New Jersey	43.8	−.1	Runyon	80	11	Layton	2	28	1.61	−1.65	Belle Plain	3.80	2 stations	.74
New Mexico	47.7	+4.8	2 stations	87	[1] 8	Selsor Ranch	−1	12	.07	−.54	Dulce	.73	91 stations	.00
New York	36.4	−1.9	do	75	11	Gouverneur	−12	27	2.69	−.38	Buffalo WB Airport	6.37	2 stations	.83
North Carolina	49.4	−.7	New Bern	85	1	Mount Mitchell	7	22	2.87	+.07	Quebec	5.58	Hiwassee Dam	.84
North Dakota	37.1	+10.3	Oakes	75	7	Pembina CAA	−13	25	.30	−.31	Towner	1.19	6 stations	.00
Ohio	42.4	+.8	Hillsboro 1E	81	12	4 stations	10	[1] 22	1.47	−1.22	Geneva	4.75	Mount Healthy	.30
Oklahoma	53.1	+3.3	Wewoka	88	12	3 stations	15	22	.13	−1.89	South Grand Lake	.98	124 stations	.00
Oregon	44.9	+4.7	Prospect 2 SW	82	1	Fremont	6	19	3.84	−.04	Valsetz	22.09	Rome CAA AP	.23
Pennsylvania	40.6	−.8	2 stations	79	12	Kane 1 NNE	4	26	1.77	−1.13	Kregar 4 SE	5.30	Doylestown	.60
South Carolina	52.1	−1.9	Loris	85	1	Caesar's Head	15	19	2.28	−.08	Bishopville	5.45	Pelion	.27
South Dakota	42.4	+9.3	Long Valley	82	28	Deerfield Dam	4	21	.24	−.42	Milbank	1.48	9 stations	.00
Tennessee	47.6	−1.0	2 stations	80	10	6 stations	16	[1] 22	1.25	−2.40	Odomville	4.24	Memphis substation	.21
Texas	58.5	+1.4	McCook	98	29	Miami	18	21	.13	−1.99	Beaumont	2.24	328 stations	.00
Utah	43.1	+.60	Zion National Park	83	4	2 stations	6	[1] 12	.59	−.24	Alta	4.46	6 stations	.00
Virginia	46.5	+.3	3 stations	82	11	Big Meadows	11	22	2.02	−.49	Smithfield	4.78	Amissville	46
Washington	44.7	+4.3	Kosmos	83	2	Bumping Lake	11	21	5.95	+.82	Quinault R. S.	28.84	Kennewick	1.00
West Virginia	42.2	+1.1	Morgantown No. 1	84	12	Cranberry	5	24	2.64	−.14	Le Page Greenbatton	5.27	Salem	.98
Wisconsin	35.5	+2.0	Blair	78	7	Crivitz Highfalls	−3	26	1.20	−.72	Shawano	4.22	Baraboo Water Works	.34
Wyoming	40.3	+8.9	Glenrock	80	6	Quaking Aspen Creek	−2	29	.36	−.42	Snake River	3.06	9 stations	.00
Hawaii	70.4	−1.8	Mahukona	89	12	Haleakala R. S.	32	16	6.34	−.17	Kukui	48.00	8 stations	.00
Puerto Rico	76.0	−.6	Caguas	97	2	Cidra	50	25	4.55	−2.45	Rio Blanco 1800′	14.00	San Francisco	.82

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR NOVEMBER 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.	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									37.1	+0.1							72	3.70	+0.3														7.0	
Caribou[2]	628	5	33	987.5	1,011.7	------	32	18	25.2	−2.0	45	1	1	27	1,192	20	77	5.87	+3.2	1.09	18	0	32.2	8	11.4	nw.	44	w.	24	1	9	20	8.2	--
Eastport	75	67	82	1,007.8	1,010.8	−5.8	44	30	37.2	+.5	56	14	12	27	835	----	--	7.01	+3.7	1.26	13	0	2.8	0	11.0	------	52	ne.	4	3	6	21	8.1	31
Greenville, Maine	1,069	4	41	------	------	------	----	----	----	----	----		----		----	----	--	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Portland, Maine[2]	103	6	43	1,006.8	1,011.2	−6.8	46	27	36.3	−1.0	63	8	9	27	862	31	81	4.26	+.8	1.40	14	1	2.0	0	6.5	n.	40	se.	4	5	9	16	7.0	42
Concord[2]	289	5	45	1,000.3	1,011.5	−6.8	46	24	35.0	−.4	64	8	5	27	898	27	75	2.11	−1.0	.70	16	0	1.4	0	4.7	wnw.	29	w.	26	4	10	16	7.1	33
Mt. Washington	6,274	5	37	795.5	1,013.5	------	22	11	16.0	−3.6	34	10	−8	22	1,471	----	--	3.35	−3.1	1.08	18	0	12.4	8	32.5	------	----	----	----	4	6	20	7.7	27
Burlington[2]	403	6	51	995.9	1,011.5	−6.1	41	26	33.3	−3.3	58	3	2	27	750	28	82	2.62	.0	.73	18	0	8.1	T	8.9	s.	49	s.	23	4	3	23	8.1	28
Boston[2]	124	33	62	1,006.4	1,011.7	−6.3	51	36	43.5	+1.5	68	8	15	27	644	32	67	3.71	+.4	1.47	13	0	1.4	0	12.0	sw.	39	sw.	23	7	9	14	6.5	50
Nantucket[2]	12	4	34	1,010.5	1,011.4	−6.2	53	38	45.1	+.7	63	11	20	23	599	40	80	4.13	+.9	1.14	11	1	T	0	9.4	nw.	38	ssw.	25	6	5	19	7.2	31
Block Island	26	11	46	1,009.8	1,011.5	−6.5	52	40	46.2	+1.6	62	14	19	27	561	----	--	3.18	−.4	.80	13	0	1.6	0	17.4	------	61	ne.	2	8	9	13	6.2	44
Providence[2]	159	65	60	1,005.4	1,011.8	−6.5	52	35	43.6	+3.2	70	8	14	27	644	32	40	3.27	+.2	.75	6	0	2.0	0	8.7	sw.	43	sw.	23	7	11	12	5.9	44
Hartford[2]	159	5	44	1,005.8	1,012.2	−6.4	50	31	40.8	+1.3	70	8	15	27	728	33	74	2.74	−.8	1.01	13	1	3.9	T	8.1	n.	32	sw.	23	7	7	16	6.8	40
New Haven[2]	107	5	39	1,007.8	1,012.2	−6.8	51	34	42.6	+2.7	64	11	17	27	672	----	--	2.20	−.8	.50	11	3	1.3	0	7.3	------	---	------	---	12	7	11	5.4	53
MIDDLE ATLANTIC									45.6	+1.1							67	1.63	−1.0														5.5	
Albany[2]	97	6	40	1,007.8	1,011.6	−7.0	45	29	37.1	+.8	65	8	11	27	837	30	75	1.20	−1.3	.36	9	0	2.4	0	8.5	s.	35	w.	25	7	4	19	7.4	26
Binghamton[4]	871	57	79	980.7	1,012.1	−6.5	46	32	39.1	+.4	70	10	13	26	778	30	76	2.03	−.4	.77	19	0	4.0	0	5.8	sw.	23	sw.	8	5	6	19	7.4	33
New York[4]	314	415	454	1,000.3	1,012.4	−6.6	54	40	46.6	+2.4	74	11	24	28	552	33	62	1.07	−1.9	.31	7	0	.2	0	12.9	nw.	49	w.	20	9	10	11	5.6	56
Allentown[2]	385	4	58	998.3	1,013.1	------	51	31	40.6	−1.4	72	11	15	26	732	32	73	1.23	−1.6	.58	9	2	.8	0	8.3	wsw.	----	------	---	9	9	12	5.9	
Harrisburg[2]	374	30	49	999.0	1,013.0	−7.0	52	35	43.4	+.6	73	8	24	26	650	32	66	.94	−1.3	.54	7	0	T	0	7.3	w.	34	nw.	20	9	8	13	6.1	54
Philadelphia[4]	114	174	150	1,011.5	1,013.0	−7.0	54	40	47.0	+1.3	74	11	24	27	541	34	67	1.03	−1.7	.35	7	0	T	0	9.6	sw.	24	n.	20	12	8	10	5.2	61
Reading	323	47	306	1,000.3	1,012.2	−7.8	52	36	44.4	+.5	73	11	23	27	622	----	--	1.53	−1.2	.57	7	1	.2	0	11.0	------	37	w.	20	7	12	11	5.9	51
Scranton	805	72	104	981.7	1,011.5	−7.8	48	33	40.4	−.1	70	11	16	27	740	----	--	1.61	−1.2	.64	11	0	1.8	0	6.5	------	30	nw.	22	8	6	16	6.3	48
Atlantic City	52	37	172	1,010.8	1,012.9	−6.7	55	41	48.5	+2.6	71	8	26	27	502	----	--	3.45	+.6	2.07	9	0	T	0	15.3	------	46	ne.	1	8	13	9	5.4	65
Newark[2]	30	5	46	1,011.2	1,012.5	------	53	35	44.2	+.2	75	11	22	23	622	32	65	1.15	−2.3	.25	8	0	.4	0	10.8	sw.	31	nnw.	26	8	10	12	5.7	--
Trenton	190	89	107	1,003.1	1,010.2	−9.1	52	36	44.2	−.2	72	11	21	27	622	----	--	.94	−1.8	.29	8	0	T	0	9.1	------	31	nw.	26	9	10	11	5.6	53
Baltimore[4]	123	100	215	1,008.5	1,013.6	−6.4	57	41	48.8	+2.5	77	11	27	23	488	35	63	1.13	−1.4	.74	7	0	T	0	9.8	nw.	39	w.	20	10	10	10	5.0	53
Washington[4]	112	56	100	1,009.1	1,013.7	−6.6	57	39	48.4	+3.2	77	11	28	23	502	34	61	.74	−1.6	.34	5	0	T	0	9.2	ssw.	29	w.	22	11	7	12	5.4	53
Cape Henry	18	8	54	1,012.5	1,013.2	−6.8	59	44	52.0	−.1	74	12	29	23	391	----	--	2.70	+.3	2.22	6	1	.0	0	13.2	------	52	nw.	1	15	10	5	3.9	68
Lynchburg[2]	686	5	58	979.7	1,014.4	−6.6	59	36	47.6	+2.4	75	11	21	23	523	31	59	1.20	−1.1	.54	8	1	T	0	8.9	sw.	43	nw.	30	15	9	6	3.9	71
Norfolk[4]	91	80	125	1,012.9	1,014.3	−6.4	61	44	52.8	+1.4	78	11	32	23	363	39	67	3.51	+1.4	3.20	7	1	.0	0	10.6	sw.	35	nw.	1	16	7	7	4.2	68
Richmond[4]	144	11	52	1,007.5	1,014.1	−6.6	61	40	50.6	+2.3	79	11	27	23	433	36	68	2.24	.0	1.52	7	1	.0	0	6.8	ssw.	27	w.	23	14	8	8	4.3	68
SOUTH ATLANTIC									52.9	−.6							67	1.76	−.6														3.3	
Asheville	2,253	77	92	941.4	1,016.5	−5.5	57	32	44.5	−.6	75	12	20	23	613	32	75	1.45	−.8	1.36	9	1	.8	0	7.9	nnw.	28	nw.	25	13	9	8	4.5	67
Charlotte[4]	779	63	86	987.5	1,015.7	−5.3	61	40	50.6	.0	77	12	30	19	431	36	64	2.37	−.2	1.19	16	0	T	0	6.9	ssw.	35	w.	29	16	8	6	3.8	72
Greensboro[2]	886	6	56	983.1	1,015.3	−6.0	60	34	47.0	+.3	79	12	24	19	541	34	64	1.60	−.9	.97	7	1	T	0	9.3	sw.	32	ne.	1	19	9	2	3.2	74
Hatteras	11	5	47	1,013.9	1,014.4	−5.6	63	49	55.8	−.5	75	13	36	23	277	48	74	2.41	−1.1	.88	6	3	.0	0	12.8	sw.	42	sw.	1	15	8	7	3.9	67
Raleigh[4]	376	5	71	999.0	1,013.4	−7.6	63	40	51.6	+.6	79	12	29	23	404	36	66	2.36	+.1	1.86	6	1	T	0	6.8	sw.	23	sw.	23	20	8	2	3.1	76
Wilmington	72	73	107	1,014.2	1,015.6	−5.4	65	44	54.6	−1.4	77	9	32	26	315	44	--	2.52	+.6	.71	4	1	.0	0	8.6	wsw.	29	sw.	25	23	2	5	2.3	80
Charleston[4]	48	11	92	1,014.6	1,016.4	−4.3	66	48	57.2	−.9	75	13	34	26	236	43	71	.75	−1.4	.45	6	2	.0	0	9.3	sw.	36	nw.	21	19	6	5	3.0	78
Columbia, S. C.[4]	347	70	91	1,007.8	1,016.0	−5.3	65	42	53.4	−.7	77	12	29	23	384	40	67	1.71	−.3	1.07	4	1	.0	0	7.9	sw.	24	w.	25	21	3	6	2.9	74
Greenville, S. C.[2]	1,040	18	36	978.0	1,015.6	−5.1	61	37	49.0	−.6	76	11	27	19	481	36	64	2.07	−1.1	1.11	6	2	.0	0	7.0	sw.	37	ne.	1	18	7	5	3.4	76
Augusta[2]	182	62	77	1,010.2	1,016.6	−4.1	66	42	54.4	−.6	78	11	30	22	320	38	57	.95	−1.5	.45	5	1	T	0	9.1	sw.	----	------	---	19	4	7	3.1	--
Savannah[2]	65	19	51	1,015.2	1,017.6	−3.1	68	44	56.4	−.4	78	28	30	19	260	44	67	.45	−1.6	.18	5	1	.0	0	12.2	ssw.	35	w.	25	18	6	6	3.1	76
Jacksonville[4]	43	86	110	1,016.6	1,018.1	−2.2	70	50	59.8	−2.4	79	12	38	26	168	46	68	2.50	+.5	1.91	7	1	.0	0	8.5	nw.	27	nw.	25	17	8	5	----	73
FLORIDA PENINSULA									68.2	−3.0							72	1.38	−1.0														4.0	
Key West[4]	21	10	64	1,016.3	1,017.0	−.3	77	68	72.3	−2.0	86	14	54	27	4	63	75	2.30	+.1	1.62	4	2	.0	0	9.4	n.	33	nw.	1	14	12	4	4.1	70
Miami[4]	25	242	249	1,015.9	1,016.8	−1.2	76	62	68.8	−3.7	85	10	47	26	31	58	71	.81	−2.4	.60	6	0	.0	0	13.2	n.	36	nw.	1	14	10	6	4.5	67
Tampa[2]	35	5	36	1,016.6	1,018.2	−1.1	74	53	63.6	−3.3	84	9	43	19	96	52	71	1.04	−.7	.92	4	0	.0	0	6.5	n.	25	s.	14	15	11	4	3.4	80
EAST GULF									55.8	−.4							66	.62	−2.7														2.7	
Atlanta[2]	1,173	33	72	975.3	1,017.3	−4.0	73	40	51.1	−.4	76	12	28	19	415	36	61	.86	−2.2	.77	5	1	.0	0	9.6	nw.	36	nw.	25	17	8	5	3.2	71
Macon[2]	370	79	87	1,004.4	1,017.6	−3.4	67	40	53.4	------	79	12	27	19	348	39	64	.77	------	.71	6	2	.0	0	8.5	nnw.	31	w.	24	17	6	7	3.6	75
Apalachicola	35	11	51	1,017.3	1,018.3	−2.0	68	50	59.4	−1.9	76	20	38	22	181	----	--	2.01	−1.1	1.59	5	0	.0	0	7.8	nw.	25	nw.	25	19	6	5	2.6	78
Pensacola[4]	56	54	79	1,016.9	1,019.2	−1.5	69	49	59.2	−1.0	77	29	35	22	200	46	--	1.29	−2.4	1.11	5	0	.0	0	7.2	nw.	26	nw.	25	20	7	3	2.6	82
Anniston	618	6	32	995.6	1,018.3	−1.7	65	33	49.0	------	79	12	21	23	480	38	72	.61	−2.6	.40	2	1	.0	0	6.0	nnw.	----	------	---	20	8	2	3.4	--
Birmingham[2]	700	5	63	995.6	1,018.6	−3.1	65	37	50.8	−.6	78	11	25	22	430	38	65	.42	−2.9	.32	3	2	T	0	7.7	ssw.	29	nw.	25	21	4	5	2.9	73
Mobile[4]	57	86	161	1,011.2	1,019.3	−1.0	69	48	58.5	−.1	80	29	34	22	223	46	69	.12	−3.5	.07	2	0	.0	0	11.7	n.	38	nw.	25	17	10	3	2.7	81
Montgomery[4]	218	92	105	1,011.2	1,018.7	−2.6	67	44	55.8	.0	80	11	32	22	291	39	63	.25	−3.0	.14	3	2	T	0	6.8	nw.	23	n.	21	21	6	3	2.5	80
Meridian[4]	375	67	92	1,005.4	1,019.2	−2.1	69	37	52.8	−1.4	81	29	26	19	370	40	69	.73	−2.6	.58	3	1	.0	0	6.2	nw.	----	------	---	21	5	4	2.4	--
Vicksburg[4]	247	82	102	1,010.5	1,019.2	−2.1	68	47	57.8	+1.2	80	28	32	22	248	41	--	.04	−3.7	.03	2	0	.0	0	8.4	ssw.	26	sw.	28	23	2	5	2.2	84
New Orleans C. O.	53	76	84	1,017.3	------	------	71	53	62.0	+.4	83	11	39	22	135	----	--	.10	−3.0	.09	3	0	.0	0	6.6	------	20	ne.	21	22	7	1	2.2	86
New Orleans A. P.[2]	30	6	52	1,017.6	1,020.6	−.1	71	47	59.2	------	83	29	37	19	202	47	68	.21	------	.21	1	0	.0	0	9.7	s.	30	nne.	21	23	6	1	2.0	--
WEST GULF									61.7	+2.7							63	.31	−2.5														1.9	
Shreveport[2]	181	5	64	1,009.5	1,019.7	−1.3	72	45	58.3	+1.8	85	28	29	22	241	47	70	.37	−3.3	.37	1	1	.0	0	9.1	ssw.	29	sw.	26	23	5	2	2.0	90
Fort Smith[2]	463	6	30	1,001.4	1,019.4	−.9	68	37	52.4	+1.4	82	11	23	22	384	36	60	.72	−2.2	.72	2	2	.0	0	6.9	ne.	30	sw.	10	24	4	2	1.7	97
Little Rock[2]	265	26	58	1,008.5	1,019.2	−1.5	67	41	54.1	+2.0	79	11	27	22	338	41	62	.28	−3.9	.28	1	1	.0	0	7.8	sw.	31	nw.	16	21	6	3	2.2	80
Austin[2]	621	5	41	998.0	1,020.6	+.6	77	48	62.6	+4.1	89	28	35	1	112	44	57	.01	−2.3	.01	1	0	.0	0	7.8	s.	30	ne.	21	22	7	1	1.9	88
Brownsville[2]	20	5	54	1,017.3	1,019.0	+.7	80	57	68.7	+1.5	92	29	43	1	19	56	69	.01	−2.3	.01	1	0	.0	0	9.6	sse.	32	nw.	12	20	9	1	2.5	76
Corpus Christi[2]	44	6	33	1,018.3	1,020.2	+.9	79	54	66.4	+3.6	95	29	39	1	49	55	72	T	−2.0	T	0	0	.0	0	9.2	sse.	38	s.	26	24	4	2	1.7	92
Dallas[2]	488	34	45	1,000.7	1,019.3	−1.0	74	45	59.2	+2.8	85	19	32	22	200	40	54	.18	−2.4	.18	1	1	.0	0	8.0	s.	28	s.	27	27	2	1	1.3	97
Fort Worth[2]	706	40	56	994.2	1,019.6	−.4	73	45	58.8	+4.3	86	10	32	22	213	40	55	.09	−2.5	.09	1	1	.0	0	13.5	s.	37	nw.	12	23	6	1	1.5	--
Galveston[4]	54	122	129	1,019.3	1,020.4	+.1	71	60	65.1	+1.8	78	11	48	1	62	54	72	.47	−2.9	.47	1	1	.0	0	9.0	nne.	29	ne.	21	24	5	1	1.6	86
Houston[4]	138	157	190	1,016.9	1,020.6	+.3	75	54	64.4	+3.4	84	10	40	22	87	50	68	.09	−3.8	.09	1	0	.0	0	7.0	nne.	30	nw.	13	24	5	1	2.0	89
Laredo[2]	418	10	38	1,003.7	1,019.4	------	82	53	67.8	+4.0	97	28	41	1	29	48	54	T	−1.2	T	0	0	.0	0	8.4	sse.	----	------	---	22	4	4	2.3	--
Palestine	510	64	72	1,001.4	------	------	72	50	61.0	+3.8	84	28	35	22	167	----	--	.44	−3.0	.44	1	1	.0	0	7.3	s.	21	sw.	26	20	9	1	2.1	89
Port Arthur[4]	34	59	134	1,018.0	1,019.9	−.1	72	54	62.6	+1.5	79	11	39	1	118	50	75	1.51	−1.6	1.51	1	1	.0	0	7.2	n.	33	sw.	28	22	7	1	2.0	89
San Antonio[2]	794	6	51	994.2	1,020.2	+.6	78	48	62.6	+2.3	91	29	36	1	105	42	54	.13	−1.8	.13	1	1	.0	0	8.1	nw.	38	nw.	11	22	5	3	2.0	86

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR NOVEMBER 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	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 [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	%
OHIO VALLEY AND TENNESSEE									45.1	+1.0							69	1.37	−1.9														5.2	
Chattanooga [2]	762	6	66	989.5	1,017.5	−4.2	62	34	47.6	−.3	76	11	23	23	521	35	67	1.02	−2.3	.52	4	1	T	0	5.2	nw.	32	nw.	21	16	8	6	3.8	63
Knoxville [2]	995	27	71	981.4	1,017.1	−4.2	59	35	47.0	+.5	76	12	27	6	542	36	68	1.51	−1.6	.92	5	4	T	0	9.4	nw.	33	nw.	24	13	8	9	4.6	62
Memphis [5]	399	5	49	1,007.5	1,018.0	−3.0	64	38	51.2	+1.1	78	11	22	22	425	38	63	.69	−3.6	.69	1	1	.0	0	9.1	ssw.	31	nw.	24	25	0	5	1.9	86
Nashville [2]	546	5	72	997.6	1,017.0	−4.7	60	36	48.1	−.9	77	11	22	22	508	37	68	.54	−3.0	.28	2	1	T	0	8.1	s.	31	nw.	21	16	7	7	3.9	65
Lexington [2]	989	4	58	979.3	1,015.8	−4.2	54	34	44.2	−.6	75	11	19	22	625	33	69	2.53	−.8	1.12	9	1	.6	0	13.2	ssw.	---	------	---	15	3	12	5.0	--
Louisville [2]	525	5	54	998.0	1,015.4	−5.3	56	37	46.6	+1.6	77	12	22	22	558	34	64	1.56	−2.0	.63	8	2	T	0	9.7	ssw.	29	sw.	16	13	5	12	5.1	59
Evansville [2]	431	6	40	1,000.0	1,016.2	−4.8	57	35	46.2	+1.8	77	12	21	22	570	34	69	.97	−2.8	.75	6	2	T	0	9.6	wnw.	30	nw.	24	12	9	9	4.3	75
Indianapolis [2]	823	5	54	984.1	1,014.0	−6.0	51	34	42.3	+1.6	75	10	22	22	682	33	72	.89	−2.5	.53	6	0	T	0	13.1	sw.	40	nw.	13	10	5	15	5.8	51
Terre Haute [2]	575	4	36	993.6	1,014.8	−5.2	52	33	43.0	+.6	74	10	18	22	662	34	72	1.28	−2.0	1.08	6	1	.1	0	12.0	ssw.	31	nw.	13	12	6	12	5.1	64
Cincinnati [4]	627	135	148	991.5	1,014.7	−6.0	55	39	47.2	+2.6	75	11	26	22	536	33	69	.71	−2.1	.35	9	0	.1	0	12.2	sw.	17	nw.	4	11	5	14	5.6	49
Columbus [4]	822	90	110	983.4	1,013.8	−6.5	51	36	43.8	+1.9	73	12	21	22	636	32	71	1.21	−1.6	.62	8	1	T	0	10.8	sw.	37	w.	13	8	3	19	6.7	41
Dayton [2]	1,003	6	55	977.0	1,013.8	−6.2	50	34	42.0	+1.6	71	12	19	22	691	32	72	.48	−2.4	.14	8	1	T	0	13.4	ssw.	41	w.	30	10	3	17	6.2	49
Elkins [2]	1,947	5	45	941.8	1,015.1	−6.6	50	29	39.7	+.4	77	12	15	23	760	31	74	3.71	+.9	1.64	12	2	7.8	0	7.7	wsw.	34	nw.	20	7	5	18	6.9	42
Parkersburg	637	77	84	------	------	------	54	36	45.2	+1.4	77	12	20	22	594	----	--	1.54	−1.0	.74	8	2	T	0	7.6	------	29	nw.	30	8	5	17	6.5	35
Pittsburgh [2]	842	39	54	981.7	1,012.8	−7.2	50	35	42.2	+1.0	74	12	20	22	679	32	70	1.92	−.4	.59	13	3	5.1	0	11.6	ssw.	30	sw.	23	7	5	18	7.1	33
LOWER LAKES									38.9	.0							77	2.63	−.2														7.9	
Buffalo [2]	768	34	96	982.4	1,011.2	−6.8	44	32	38.0	−.5	66	10	15	26	811	32	79	6.37	+3.4	2.51	22	4	28.6	T	12.8	sw.	49	s.	13	2	4	24	8.5	19
Canton	448	10	61	993.9	1,010.5	−6.8	39	24	31.4	−3.6	59	8	−9	28	1,011	----	--	3.26	+.1	.74	17	0	9.6	2	7.5	------	24	sw.	23	4	6	20	7.7	31
Oswego	335	71	85	998.0	1,010.5	−7.5	44	32	38.1	−1.3	67	10	11	26	810	----	--	3.23	−.2	.56	23	1	4.8	0	9.9	------	34	w.	23	2	3	25	8.8	20
Rochester [2]	523	4	69	991.5	1,011.3	−7.0	44	31	37.4	−1.3	72	10	13	26	822	32	83	3.30	+.8	.60	21	2	6.1	0	10.3	wsw.	35	sw.	13	0	8	22	8.4	22
Syracuse [2]	596	5	57	988.5	1,011.5	−7.1	45	31	38.0	+.8	69	10	9	26	809	31	77	2.32	−.7	.57	22	0	6.5	0	9.9	w.	34	w.	23	2	5	23	8.5	20
Erie [4]	714	57	81	------	------	------	47	36	41.5	+.1	68	10	21	26	705	----	--	3.34	.0	.78	20	1	7.4	0	9.1	------	28	w.	23	3	5	22	8.2	23
Cleveland [2]	762	27	54	983.4	1,011.9	−7.1	49	34	41.3	+2.3	74	12	16	22	710	34	76	2.73	+.1	.99	16	1	16.0	T	13.0	sw.	36	w.	30	5	2	23	7.6	30
Sandusky	629	5	67	988.8	------	------	49	36	42.5	+1.4	70	10	17	22	675	----	--	1.24	−1.2	.26	13	1	2.0	0	10.0	------	30	w.	30	4	6	20	7.5	37
Toledo [2]	628	5	47	988.5	1,012.0	−7.3	48	32	40.0	+1.3	68	10	11	26	755	32	76	1.06	−1.3	.41	8	1	1.1	0	12.3	sw.	33	nw.	23	4	5	21	7.4	36
Fort Wayne [2]	857	5	34	980.7	1,012.7	−6.6	48	32	40.3	+1.5	71	12	18	22	742	33	76	.90	−2.0	.41	7	1	T	0	10.2	sw.	28	nw.	30	7	3	20	6.9	39
Detroit [2]	730	5	77	984.1	1,011.6	−7.0	45	33	39.0	−.2	66	10	10	26	782	32	75	1.23	−1.2	.56	13	0	5.5	0	11.8	sw.	36	nw.	30	4	7	19	7.7	30
UPPER LAKES									35.2	+.8							77	1.65	−.8														7.6	
Alpena	609	5	89	987.1	------	------	41	29	34.7	+.3	62	7	9	26	910	----	--	2.05	−.6	.66	17	0	10.7	1	11.0	------	36	se.	26	2	5	23	8.4	21
Escanaba	612	51	72	987.5	------	------	40	28	34.4	+1.3	62	7	15	22	907	----	--	1.94	−.2	1.29	9	1	8.4	1	11.7	------	37	n.	2	3	7	20	7.4	34
Grand Rapids [4]	707	70	244	985.1	1,011.0	−7.0	45	33	39.2	+.8	68	9	15	26	776	31	80	1.01	−1.8	.29	13	2	9.9	0	11.8	ssw.	36	s.	1	7	4	19	7.2	32
Lansing [4]	878	5	90	978.0	1,011.4	−6.6	43	29	36.0	−1.2	67	10	−5	26	871	30	80	1.60	−.9	.67	14	1	12.1	1	14.5	sw.	36	w.	23	4	6	20	7.7	24
Marquette	734	44	73	982.1	------	------	38	28	33.4	+.1	68	7	15	24	951	----	--	3.21	+.3	.82	21	0	35.2	6	9.3	------	42	sw.	28	2	5	23	8.3	16
Sault St. Marie [2]	614	10	52	982.4	1,009.8	−6.8	37	23	30.0	−.4	59	7	1	26	1,050	25	81	2.41	−.6	.99	15	1	15.4	4	9.1	e.	31	nw.	23	2	5	23	8.5	36
Chicago [2]	673	5	38	989.8	1,012.4	−6.2	48	32	40.1	+2.4	71	10	15	22	745	30	71	.89	−1.6	.42	6	1	2.6	0	12.0	w.	36	s.	1	8	5	17	6.5	44
Green Bay	617	5	32	987.5	1,010.8	−6.1	41	26	33.6	−.4	68	7	10	26	938	26	74	1.50	−.7	.62	9	1	5.4	1	10.7	nw.	56	sw.	22	5	6	19	7.2	44
Milwaukee [2]	681	33	66	985.4	1,011.2	−6.8	45	31	38.2	+2.3	68	7	10	26	801	30	72	.62	−1.2	.33	6	0	3.1	T	14.0	wnw.	43	sw.	1	5	8	17	7.2	34
Duluth [4]	1,133	5	47	958.3	1,010.8	−6.1	39	27	32.6	+2.6	66	7	12	21	972	25	81	1.30	−.2	.64	9	0	12.2	2	19.9	wnw.	37	nw.	1	7	8	15	7.1	37
NORTH DAKOTA									36.9	+10.6							74	.38	−.3														5.7	
Fargo [2]	940	5	47	977.0	1,012.3	−6.0	43	25	34.1	+7.0	65	3	2	25	925	28	79	.79	−.1	.25	10	0	5.3	T	13.8	nnw.	45	n.	26	10	4	16	6.1	44
Bismarck [2]	1,677	5	41	952.6	1,014.0	−5.3	52	26	39.1	+12.6	70	5	6	21	776	28	68	.20	−.4	.13	3	0	2.2	0	12.0	nw.	56	nw.	26	12	6	12	5.1	62
Devils Lake	1,478	11	44	958.0	------	------	43	25	33.9	+9.4	68	6	4	21	931	----	--	.55	−.2	.29	7	0	5.4	T	9.5	------	34	nw.	26	8	5	17	6.2	52
Grand Forks [2]	832	4	41	------	------	------	---	---	---	---	---	---	---	---	---	---	--	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Williston	1,878	42	50	945.8	------	------	52	29	40.6	+13.4	69	3	15	21	728	----	--	T	−.6	T	0	0	T	0	8.8	------	47	w.	23	9	8	13	5.5	70
UPPER MISSISSIPPI									42.0	+3.8							70	.63	−1.4														5.5	
Minneapolis-St. Paul [2]	919	43	74	977.3	1,011.6	−5.7	44	30	37.2	+4.8	67	7	18	21	836	28	73	.42	−.8	.19	7	1	2.7	0	12.5	nw.	36	nw.	14	6	8	16	6.8	37
La Crosse [2]	672	5	29	986.8	1,011.8	------	46	27	36.6	+2.9	72	7	11	25	851	28	72	.67	−.9	.28	8	1	3.5	0	9.7	nw.	34	nw.	13	6	7	17	7.0	43
Madison [2]	974	27	39	979.7	1,011.8	−6.5	46	28	36.9	+2.7	70	7	9	25	842	28	72	1.04	−.7	.75	6	1	2.7	0	13.8	w.	49	sw.	22	6	8	16	7.0	38
Charles City	1,015	10	51	975.3	1,012.9	−5.7	48	29	38.6	+5.6	74	7	18	22	792	----	--	.75	−.8	.39	6	0	2.6	0	7.3	------	21	nw.	19	7	11	12	5.7	47
Moline [2]	606	6	50	990.9	1,013.7	−5.3	51	32	41.8	+4.3	72	7	18	22	695	31	66	.71	−1.1	.45	3	1	.5	0	11.8	w.	34	sw.	22	11	5	14	5.8	47
Des Moines [4]	860	5	99	982.7	1,014.5	−4.1	54	33	43.5	+5.1	75	7	20	22	643	30	69	.55	−.9	.44	5	3	T	0	11.2	nw.	---	------	---	11	11	8	4.9	71
Dubuque	699	60	79	986.8	1,012.2	−6.4	49	32	40.7	+3.7	72	7	16	22	729	30	71	.83	−.9	.46	4	0	3.6	0	6.3	------	28	nw.	30	7	9	14	6.5	50
Burlington [2]	702	4	36	988.2	1,014.5	−4.5	54	32	43.1	+4.5	76	11	16	22	659	32	74	.47	−1.6	.28	4	1	.2	0	14.8	sw.	43	nw.	16	13	5	12	5.1	62
Cairo	357	5	99	1,003.4	------	------	59	40	49.5	+2.2	75	10	26	22	466	----	--	.79	−2.9	.74	2	1	T	0	9.8	------	29	sw.	19	15	12	3	3.3	74
Peoria [2]	609	7	26	991.9	1,013.8	−5.8	52	33	42.3	+2.5	74	11	16	22	682	32	68	.65	−1.7	.32	4	1	.3	0	13.5	wnw.	42	w.	30	10	6	14	5.4	54
Springfield, Ill. [4]	636	5	49	991.5	1,014.4	−4.9	54	34	44.0	+4.1	75	11	17	22	650	33	70	.43	−2.1	.26	3	2	.2	0	15.7	nw.	34	s.	9	12	6	12	5.0	66
St. Louis [4]	568	33	59	988.8	1,015.2	−4.1	59	39	49.2	+3.8	80	11	25	22	480	32	62	.25	−2.6	.21	12	1	T	0	10.8	wnw.	35	s.	9	16	9	5	3.4	79

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR NOVEMBER 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	%
MISSOURI VALLEY																																		
									45.9	+6.7							63	.34	−1.1														3.3	
Columbia, Mo. [4]	784	6	66	986.5	1,015.4	−4.2	60	37	48.3	+4.2	83	11	21	22	512	33	68	.50	−1.7	.45	2	1	T	0	8.6	sw.	32	nw.	20	18	7	5	3.0	84
Kansas City [2]	963	38	76	988.2	1,016.0	−3.6	61	39	49.8	+6.1	81	11	26	18	459	32	56	.21	−2.0	.21	2	2	.0	0	9.9	ssw.	42	nw.	12	17	8	5	3.0	84
St. Joseph [2]	967	5	51	980.0	1,015.6	−3.7	60	34	47.0	+5.5	78	11	22	22	541	30	62	.61	−1.0	.61	2	2	T	0	11.5	s.	43	sw.	11	18	9	3	2.9	82
Springfield, Mo. [2]	1,324	5	50	968.8	1,017.1	−2.9	60	35	47.6	+2.6	78	11	19	22	530	34	67	1.04	−1.8	1.04	2	2	.0	0	11.9	nw.	38	nw.	24	19	9	2	2.4	86
Topeka [4]	987	65	87	983.7	1,016.4	−2.9	61	37	49.1	+6.3	79	11	24	22	478	32	64	.72	−.8	.71	3	0	.0	0	9.5	s.	38	nw.	24	17	9	4	3.1	85
Lincoln [4]	1,189	6	81	971.9	1,015.7	−3.6	59	35	46.9	+7.8	74	7	23	18	546	30	63	.01	−1.1	.01	1	0	T	0	10.3	nw.	39	nw.	13	15	13	2	3.3	86
Norfolk, Nebr. [2]	1,551	5	38	959.0	1,015.4	------	58	30	43.6	+7.2	76	7	15	18	643	28	62	.06	−1.0	.06	1	0	.0	0	------	------	------	------	------	15	10	5	3.4	--
Omaha [2]	1,105	5	68	974.6	1,016.9	−2.4	58	33	45.2	+6.9	75	7	21	18	591	28	60	.04	−1.0	.04	1	0	T	0	12.2	nw.	45	nw.	24	15	13	2	3.2	73
Valentine	2,598	46	54	924.1	1,016.9	−2.7	58	30	44.2	+9.6	72	6	12	21	624	25	56	.27	−.3	.14	2	0	.0	0	9.7	------	33	nw.	1	16	9	5	3.8	87
Sioux City [2]	1,138	5	40	972.9	1,014.8	−4.5	56	28	42.3	+8.3	74	7	18	18	679	28	68	.04	−1.0	.04	1	0	T	0	10.9	nw.	45	nw.	13	16	8	6	3.8	83
Huron [2]	1,301	5	41	966.5	1,014.4	−4.9	53	28	40.6	+9.1	72	6	18	21	733	28	68	.29	−.3	.27	3	0	T	0	13.5	nw.	59	nw.	26	13	9	8	4.3	75
NORTHERN SLOPE																																		
									43.0	+10.3							58	.33	−.3														5.4	
Billings [2]	3,570	16	39	892.3	1,017.1	−3.6	59	36	47.4	+12.0	71	4	23	20	525	26	48	.03	------	.03	1	0	T	0	13.1	sw.	56	nw.	24	10	9	11	5.4	50
Butte	5,533	44	58	832.4	1,023.0	------	53	23	38.4	+9.1	68	5	11	21	799	24	60	.53	+.1	.36	3	0	T	0	8.0	s.	------	------	------	7	9	14	6.2	--
Glasgow	2,086	34	53	940.1	1,015.9	------	55	25	40.4	+12.7	70	3	15	21	743	26	60	.02	−.5	.02	1	0	T	0	------	------	------	------	------	9	9	12	5.5	--
Great Falls [2]	3,657	16	75	888.9	1,016.1	------	57	38	47.5	+11.4	70	2	22	20	524	26	47	.05	−.6	.04	2	0	T	0	18.9	sw.	72	sw.	25	9	7	14	5.7	70
Havre	2,507	11	67	926.2	1,016.3	−3.0	56	30	42.9	+11.7	69	6	15	21	662	------	------	.03	−.6	.01	3	0	T	0	10.1	sw.	54	sw.	27	11	10	9	5.1	59
Helena [2]	4,124	5	43	876.1	1,021.0	+.3	52	28	39.8	+8.0	66	1	13	20	754	27	66	.15	−.3	.06	4	0	T	0	5.6	w.	44	sw.	27	7	9	14	6.2	64
Missoula [2]	3,263	4	32	905.9	1,022.2	+1.5	48	28	38.0	+6.6	62	1	17	18	811	31	82	.72	−.2	.32	8	0	2.0	T	3.5	se.	40	w.	27	5	4	21	7.4	35
Kalispell	2,973	48	56	915.0	1,020.2	−.5	45	32	38.4	+6.0	59	25	23	21	797	33	--	1.42	+.1	.43	10	0	2.3	T	7.0	s.	------	------	------	5	4	21	7.8	--
Miles City [2]	2,371	5	28	931.3	1,016.9	−3.8	56	30	42.9	------	72	27	19	21	664	27	--	.02	------	.02	1	0	.0	0	9.9	wnw.	------	------	------	11	10	9	5.1	--
Rapid City [2]	3,259	5	56	901.5	1,016.8	−3.5	60	32	46.0	+11.4	75	3	14	21	569	26	54	.15	−.3	.10	2	0	T	0	16.8	wnw.	57	nw.	1	11	13	6	4.6	70
Cheyenne [2]	6,094	22	40	813.4	1,018.1	−1.5	58	32	45.2	+10.4	70	3	16	21	595	22	46	.02	−.5	.02	1	0	T	0	16.1	w.	50	w.	27	17	6	7	3.9	87
Lander [2]	5,352	6	30	831.7	1,020.6	−1.4	56	29	42.6	+12.3	67	25	19	30	672	23	53	.01	−.6	.01	1	0	T	0	6.7	------	42	sw.	27	16	6	8	4.0	73
Sheridan [2]	3,790	5	38	885.5	1,018.3	−2.0	60	31	45.4	+12.7	76	3	16	21	585	26	56	.94	+.3	.82	6	0	T	0	8.0	s.	84	sw.	27	12	8	10	5.0	70
North Platte [2]	2,821	11	51	917.0	1,017.4	−2.6	62	32	46.8	+10.2	73	7	16	21	550	28	62	.48	.0	.48	1	0	T	0	8.7	nw.	43	nw.	11	20	5	5	3.0	78
MIDDLE SLOPE																																		
									51.0	+7.5							51	.01	−1.1														2.4	
Denver [4]	5,292	106	113	838.8	1,018.2	−.8	64	38	50.9	+11.1	74	25	27	21	425	20	38	T	−.6	T	0	0	.0	0	7.8	s.	35	n.	11	15	10	5	3.3	81
Pueblo [2]	4,690	5	36	859.1	1,019.0	−.6	66	29	47.4	+9.1	80	19	18	21	530	22	45	T	−.4	T	0	0	T	0	5.7	w.	42	n.	11	18	5	7	3.2	83
Concordia	1,392	50	58	966.1	1,016.6	−3.4	61	37	49.0	+7.6	75	7	22	21	485	28	53	T	−1.0	T	0	0	.0	0	8.6	------	31	n.	16	21	9	0	1.9	86
Dodge City [2]	2,509	5	58	928.9	1,017.8	−2.2	65	36	50.1	+7.5	77	19	18	21	442	30	56	.01	−.7	.01	1	0	.0	0	11.5	n.	54	n.	11	21	6	3	2.6	94
Wichita [2]	1,358	52	64	967.8	1,016.9	−2.4	63	38	50.8	+6.0	78	11	25	22	426	32	54	.06	−1.3	.06	1	0	.0	0	12.4	nw.	47	nw.	11	20	8	2	2.3	93
Oklahoma City [4]	1,214	10	47	970.9	1,019.0	−1.0	67	43	55.0	+6.2	80	10	30	22	305	36	53	T	−1.9	T	0	0	.0	0	13.2	s.	22	n.	12	23	6	1	1.5	92
Tulsa [2]	674	10	60	992.9	1,018.4	------	68	40	53.6	+4.7	83	10	23	22	356	36	56	.01	−2.0	.01	1	1	.0	0	9.0	s.	43	sw.	9	23	5	2	2.0	87
SOUTHERN SLOPE																																		
									56.7	+5.0							48	T	−1.2														1.8	
Abilene [2]	1,755	4	59	956.7	1,019.0	−.6	74	43	58.6	+6.0	88	27	34	13	214	35	46	.00	−1.4	.00	0	0	.0	0	11.8	ssw.	42	w.	12	23	5	2	1.7	96
Amarillo [2]	3,604	5	42	891.3	1,019.0	−.3	69	37	52.8	+9.0	81	28	28	21	367	28	44	.01	−.9	.01	1	1	.0	0	10.2	sw.	47	n.	11	23	4	3	2.2	92
Del Rio	960	63	71	984.4	1,019.3	+.3	78	48	62.6	+2.6	95	28	38	1	94	43	58	T	−1.2	T	0	0	.0	0	6.0	nw.	27	nw.	12	24	6	0	1.3	90
Roswell [2]	3,614	6	29	895.0	1,020.2	+1.2	72	33	52.5	+4.4	83	27	22	22	374	25	41	.01	−.8	.01	1	0	.0	0	6.1	sw.	40	sw.	11	22	3	5	2.2	89
Wichita Falls [2]	1,030	4	49	981.0	1,019.0	------	72	42	57.1	+3.0	87	19	34	22	250	36	50	.00	−1.7	.00	0	0	.0	0	12.9	ssw.	56	nw.	11	24	5	1	1.5	--
SOUTHERN PLATEAU																																		
									58.6	+6.5							38	.22	−.5														2.5	
El Paso [2]	3,916	35	85	890.6	1,019.9	+1.9	71	40	55.7	+4.6	78	28	32	13	277	28	44	T	−.5	T	0	0	.0	0	7.8	n.	40	w.	11	25	2	3	1.7	94
Albuquerque [2]	5,314	5	45	849.3	1,020.4	+1.8	66	36	50.7	+7.4	74	4	29	12	426	22	35	.00	−.5	.00	0	0	.0	0	4.8	n.	38	n.	11	20	5	5	2.7	87
Flagstaff	6,907	34	48	795.8	------	------	62	28	44.8	+7.6	70	25	22	23	604	23	47	.86	−.4	.86	1	0	3.0	0	5.7	nnw.	------	------	------	16	6	8	3.7	--
Phoenix [4]	1,107	39	87	977.7	1,016.4	+1.7	82	50	66.2	+6.5	90	3	42	12	30	39	45	.30	−.4	.30	1	1	.0	0	2.9	e.	27	w.	10	21	3	6	2.9	87
Tucson [2]	2,555	5	39	928.5	1,016.3	+1.4	80	49	64.3	+6.6	86	5	37	12	56	26	26	.17	−.6	.12	0	1	.0	0	8.0	ese.	33	e.	21	23	5	2	2.0	94
Yuma [2]	142	9	54	101.80	1,015.4	−.9	85	55	69.8	------	92	3	47	11	7	34	30	T	------	T	0	1	.0	0	5.2	nne.	31	nw.	10	22	3	5	2.1	96

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR NOVEMBER 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 PLATEAU									43.6	+5.7							62	.64	−.1														4.0	
Ely [3]	6,262	8	41	814.4	------	------	60	23	41.4	+8.7	71	3	14	11	705	----	--	.42	−.2	.42	1	0	1.1	0	10.5	------	43	se.	9	16	6	8	4.0	79
Reno [2]	4,527	20	52	866.9	1,022.0	+1.0	64	24	44.2	+4.5	77	3	18	5	619	28	64	1.28	+.6	1.23	3	0	1.0	0	3.0	ssw.	47	s.	9	16	8	6	4.0	79
Winnemucca [2]	4,339	5	56	873.0	1,022.3	−.1	64	24	43.6	+5.2	74	2	15	22	638	26	56	.46	−.2	.40	4	0	.1	0	7.0	------	42	sw.	9	13	8	9	4.5	76
Salt Lake City [2]	4,357	32	58	877.4	1,023.8	+2.5	57	31	44.3	+4.9	68	26	26	22	624	34	72	.88	−.3	.87	3	0	T	0	7.5	sse.	37	se.	10	15	8	7	4.1	79
Grand Junction [2]	4,602	5	26	867.3	1,024.6	+5.0	58	30	44.4	+5.1	65	2	24	12	620	26	56	.15	−.4	.15	2	0	T	0	5.4	e.	26	se.	10	19	4	7	3.3	85
NORTHERN PLATEAU									43.7	+5.4							76	2.01	+.2														6.6	
Baker [4]	3,471	36	54	900.4	1,023.2	+.8	55	31	43.0	+7.0	69	4	22	21	660	28	--	1.43	+.4	.69	6	0	.0	0	6.3	se.	27	sw.	27	9	7	14	6.0	62
Meacham	4,056	7	28	879.4	1,021.2	------	53	36	44.4	------	68	1	26	21	619	32	68	5.31	------	1.76	11	0	4.9	0	6.3	ese.	---	------	---	8	6	16	6.4	--
Boise [2]	2,739	5	49	925.2	1,022.8	−.2	55	34	44.6	+4.9	70	27	22	22	613	34	69	1.40	+.1	.56	6	1	T	0	7.4	se.	37	nw.	27	8	10	12	5.5	63
Lewiston	1,436	4	23	968.5	1,020.9	------	54	37	45.2	------	65	25	29	18	592	38	79	1.42	------	.40	11	0	.0	0	5.6	e.	---	------	---	5	4	21	7.3	--
Pocatello [2]	4,478	5	31	868.3	1,023.5	+1.5	55	30	42.4	+8.3	65	6	21	21	677	30	68	.76	−.3	.32	7	0	T	0	6.8	sw.	42	w.	27	12	6	12	5.0	67
Ellensburg [2]	1,735	5	58	956.7	1,020.3	------	50	31	40.8	+4.6	64	2	26	21	727	36	88	1.92	+.4	.52	13	0	T	0	4.0	e.	---	------	---	5	6	19	7.5	--
Spokane [2]	1,929	6	51	950.2	1,020.3	−1.0	48	34	41.2	+2.7	59	5	26	21	713	36	83	2.28	+.2	.50	14	1	3.2	0	8.4	ne.	54	sw.	27	6	3	21	7.5	31
Walla Walla	991	57	65	984.1	1,020.3	−1.0	55	41	47.8	+5.0	70	27	34	7	518	----	--	2.05	.0	.49	11	1	.0	0	5.0	s.	30	sw.	27	5	7	18	7.2	35
Yakima [2]	1,076	4	54	980.4	1,020.0	−1.3	55	32	43.5	+5.4	69	2	26	18	641	36	80	1.50	+.3	.77	11	0	.0	0	6.9	w.	---	------	---	5	5	20	7.4	--
NORTH PACIFIC COAST									49.8	+5.3							83	6.02	+.4														7.9	
Kelso [2]	750	38	76	------	------	------	58	40	49.3	------	69	5	31	1	467	44	84	5.14	------	1.16	18	0	.0	0	8.9	sse.	---	------	---	2	6	22	8.1	--
North Head	211	5	55	1,008.1	1,015.6	−2.4	58	49	53.2	+5.0	74	1	42	9	356	----	--	9.90	+1.4	2.06	20	1	T	0	16.4	s.	65	s.	26	3	4	23	8.2	28
Seattle [4]	125	90	321	1,015.2	1,016.6	−2.0	57	46	51.5	+4.7	70	3	40	21	405	46	87	5.95	+.9	1.37	16	1	.0	0	8.8	s.	41	s.	26	1	9	20	8.3	25
Tacoma	194	172	201	1,009.5	1,016.6	−1.7	56	45	50.8	+6.2	69	4	40	7	421	----	--	5.72	−.5	1.48	20	1	.0	0	7.3	s.	39	sw.	26	2	9	19	7.8	25
Tatoosh Island	86	5	61	1,011.2	1,014.5	−2.1	55	47	51.0	+5.1	64	2	44	9	422	47	87	15.78	+3.8	2.94	21	3	T	0	21.1	e.	67	s.	26	2	1	27	9.1	12
Burns	4,162	35	47	877.1	1,021.7	------	57	29	43.0	+7.8	70	1	20	22	661	30	64	.64	−.7	.31	5	0	.8	0	----	------	---	------	---	11	4	15	5.6	--
Eugene [2]	433	4	35	1,005.1	1,018.8	------	58	40	48.7	------	71	3	32	19	491	45	90	5.92	------	1.86	13	0	.0	0	6.3	s.	---	------	---	2	7	21	8.2	--
Medford [2]	1,329	29	58	972.6	1,021.0	.0	57	35	45.7	+1.8	75	2	27	21	577	39	83	1.82	−.5	1.46	7	0	.0	0	4.9	se.	---	------	---	4	3	23	8.1	--
Portland, Oreg. [4]	154	68	106	1,016.9	1,018.1	−1.5	60	46	52.8	+6.0	71	2	35	21	369	45	84	6.15	+.1	1.85	15	0	.0	0	6.2	se.	21	s.	26	4	5	21	7.7	44
Roseburg	510	45	76	1,000.3	1,019.4	−.9	61	43	51.7	+5.8	72	24	34	19	397	----	--	3.23	−1.4	1.09	12	0	.0	0	3.1	nw.	33	s.	11	3	6	21	8.0	26
MIDDLE PACIFIC COAST									57.4	+3.7							72	1.61	−1.5														5.7	
Eureka	60	72	88	1,017.6	------	------	62	47	54.4	+3.3	69	17	42	4	317	----	--	3.23	−2.0	1.28	10	2	.0	0	5.6	------	24	s.	8	2	8	20	7.4	49
Red Bluff [2]	353	5	26	1,006.4	1,018.8	−1.5	72	45	58.3	+4.5	93	1	39	20	209	40	60	.94	−2.0	.90	3	0	.0	0	6.9	nw.	40	se.	9	11	5	14	5.3	75
Sacramento [4]	66	92	115	1,016.9	1,019.0	−.3	68	46	57.1	+3.5	83	4	41	22	238	46	75	1.10	−.8	1.00	4	0	.0	0	7.1	nnw.	23	s.	9	9	11	10	5.2	68
San Francisco [4]	155	112	132	1,018.6	1,018.9	−.4	67	52	59.8	+3.5	80	4	47	2	161	50	80	1.18	−1.2	1.04	5	0	.0	0	7.7	nw.	30	s.	9	14	8	8	4.9	67
SOUTH PACIFIC COAST									63.1	+5.5							68	1.27	+.3														3.1	
Fresno [2]	327	5	34	1,007.5	1,018.9	−.7	72	43	57.4	+5.0	89	5	38	27	236	46	75	.46	−.5	.34	4	1	.0	0	4.3	e.	26	sw.	9	17	5	8	4.1	78
Los Angeles [4]	338	236	263	1,013.9	1,016.9	−.7	79	56	67.2	+6.3	95	3	48	22	66	48	66	2.18	+1.0	2.07	2	0	.0	0	5.2	w.	23	w.	10	20	7	3	2.6	86
San Diego [2]	87	20	55	1,013.9	1,016.6	−.3	76	53	64.6	+5.3	92	4	47	24	80	47	62	1.16	+.4	1.10	3	0	.0	0	4.3	n.	34	sw.	10	22	3	5	2.6	79
WEST INDIES																																		
San Juan, P. R.	82	9	54	------	------	------	83	73	78.2	−.2	85	4	71	18	0	----	--	3.37	−3.4	.60	17	0	.0	0	----	------	---	------	---	---	---	---	---	--
ALASKA																																		
Anchorage [2]	132	6	44	993.6	998.6	------	33	19	26.0	+3.6	50	21	7	26	1,172	22	81	.62	−.4	.27	8	0	8.2	T	----	ne.	42	e.	19	2	5	23	8.5	--
Annette Island	113	5	53	1,002.0	1,006.1	------	50	41	45.3	+4.7	63	2	31	10	590	43	89	13.54	+2.5	2.30	27	0	T	0	13.8	se.	---	------	---	0	4	26	9.3	--
Barrow	29	5	27	1,008.8	1,009.1	------	11	2	6.4	+6.4	30	2	−21	29	1,745	−1	73	.21	−.1	.08	8	0	1.6	5	17.1	ene.	41	ne.	22	1	7	22	8.6	--
Bethel [2]	28	5	31	992.9	994.2	------	30	21	25.6	+8.8	45	21	−2	30	1,183	24	90	1.22	+.2	.27	16	0	11.8	T	----	n.	30	ene.	21	2	8	20	8.1	--
Cordova [2]	45	5	32	997.0	999.0	------	41	28	34.2	+3.8	55	22	9	29	929	33	--	12.12	+3.2	3.28	23	0	9.0	4	----	e.	42	e.	22	2	4	24	8.7	--
Fairbanks [2]	455	5	63	984.8	1,001.7	------	18	5	11.4	+8.0	47	19	−20	30	1,610	9	85	.36	−.4	.20	7	0	5.7	2	----	nw.	26	e.	19	4	6	20	7.7	--
Galena	139	4	66	994.6	999.3	------	20	6	12.8	+12.4	36	19	−27	30	1,567	8	75	.78	+.2	.27	15	0	9.0	12	7.6	n.	---	------	---	1	9	20	8.0	--
Gambell	32	5	32	995.6	996.6	------	27	22	24.5	+2.1	37	22	5	30	----	21	87	2.62	+1.6	----	12	0	18.1	4	2.5	nne.	45	n.	26	2	0	28	9.0	--
Juneau [2]	80	6	30	1,003.1	1,004.0	------	43	35	39.3	+7.3	56	2	25	12	770	37	91	9.22	+3.8	3.34	26	0	1.0	0	----	ese.	34	se.	13	1	3	26	9.4	--
Kotzebue [2]	20	5	31	999.3	1,000.0	------	21	12	16.3	+10.4	38	21	−21	29	1,460	14	85	.76	+.4	.26	9	0	8.2	7	----	ese.	---	------	---	0	7	23	6.9	--
McGrath [2]	341	5	31	985.8	998.6	------	22	10	15.8	+12.6	47	21	−26	30	1,475	11	78	2.02	+.9	1.30	14	0	16.7	9	3.2	ese.	---	------	---	0	4	26	9.1	--
Nome [2]	22	10	75	995.9	996.6	------	29	19	24.1	+8.2	44	20	−3	29	1,228	20	83	.98	.0	.33	13	0	10.5	2	----	n.	68	e.	16	1	3	26	8.9	--
Northway [2]	1,718	5	32	940.1	1,004.7	------	9	−4	2.2	+4.4	26	1	−30	30	1,880	1	84	.05	−.3	.04	2	0	.9	7	----	------	---	------	---	3	7	20	7.9	--
St. Paul Island	28	4	39	991.2	992.2	------	36	28	32.2	−.2	42	7	11	30	983	29	85	4.00	+1.2	81	22	0	3.4	1	----	------	---	------	---	0	8	22	8.5	--
Yakutat	31	5	50	1,000.3	1,001.4	------	42	32	36.8	+2.1	53	22	23	12	850	36	94	12.15	−3.4	1.51	23	0	3.4	2	----	------	---	------	---	1	2	27	9.0	--
HAWAII																																		
Honolulu [4]	38	86	98	1,017.3	1,018.0	------	77	69	73.4	−1.1	80	26	65	21	0	62	67	1.16	−2.7	.43	12	0	.0	0	12.3	ene.	26	ne.	12	7	15	8	5.2	66
PACIFIC AREA																																		
Canton Island	12	---	---	1,009.1	1,009.5	------	89	78	83.5	------	93	3	76	17	0	----	70	.02	------	.01	2	0	.0	0	----	------	---	------	---	3	19	8	5.8	--
Wake Island	13	---	---	1,015.6	1,015.9	------	84	76	80.2	------	87	4	70	15	0	----	78	2.75	------	.78	18	3	.0	0	13.9	e.	---	------	---	9	17	4	4.8	--

[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.