CLIMATOLOGICAL TABLES

CONDENSED CLIMATOLOGICAL SUMMARY

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.

TABLE 1.—*Condensed climatological summary of temperature and precipitation by sections, December 1939*

[For description of tables and charts, see REVIEW, January, p. 29]

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	49.7	+2.2	Millry	85	10	Florence	15	30	3.29	−2.12	Dadeville	5.27	Addison	1.95
Arizona	47.5	+4.8	Florence	91	7	Pinedale	−13	26	.34	−.88	Alpine	1.65	8 stations	.00
Arkansas	45.5	+2.7	4 stations	84	7	Lead Hill	5	29	2.46	−1.76	Crossett	5.53	Hot Springs	.81
California	49.2	+3.5	2 stations	91	4	Tamarack	−8	25	2.46	−1.23	Upper Mattole	29.99	6 stations	.00
Colorado	32.3	+6.6	do	83	11	Hayden	−31	28	.46	−.44	Columbine	1.96	Redvale	.00
Florida	59.2	−.5	Okeechobee	88	2	Mason	22	30	2.15	−.57	Vernon	7.97	Everglades	.00
Georgia	48.6	+.9	Moultrie	80	19	Blairsville	13	22	3.28	−.94	Milledgeville	6.23	Mount Vernon	1.50
Idaho	34.1	+7.8	2 stations	74	[1] 10	Island Park Dam	−22	28	2.41	+.37	Deception Creek	11.51	Challis	T
Illinois	35.7	+4.7	Sparta	74	9	3 stations	−8	31	1.12	−1.00	McLeansboro	2.81	2 stations	T
Indiana	35.4	+3.2	Johnson	71	10	Marengo	−6	25	1.30	−1.50	Newburg	2.58	Rochester	.63
Iowa	32.4	+8.3	Thurman	74	6	2 stations	−9	31	.62	−.55	Red Oak	1.49	Maquoketa	.07
Kansas	39.0	+5.9	2 stations	86	6	do	−13	[1] 27	.81	−.03	Elkhart	1.20	Stockton	.36
Kentucky	38.8	+1.1	3 stations	72	[1] 7	Quicksand	−2	25	2.32	−1.54	Stearns	4.10	Cynthiana	1.15
Louisiana	55.4	+3.0	New Orleans[2]	85	10	Urania	21	30	4.15	−1.14	Robeline	9.64	Carville	1.23
Maryland-Delaware	37.8	+2.4	6 stations	70	10	Oakland, Md	4	15	1.84	−1.48	Friendsville, Md	2.80	Solomons, Md	.94
Michigan	30.8	+5.8	5 stations	58	[1] 9	Watersmeet	−12	24	1.45	−.60	Deer Park (near)	3.21	Yale	.17
Minnesota	26.4	+10.7	Wheaton	74	9	Park Rapids	−17	30	.41	−.36	Red Wing	1.25	Argyle	T
Mississippi	50.1	+1.8	3 stations	82	[1] 7	Rochdale	18	30	4.08	−1.18	Natchey	7.13	2 stations	2.22
Missouri	38.8	+4.6	Lebanon	80	10	Fulton	−5	31	1.45	−.69	Ozark Beach	2.61	do	.48
Montana	32.0	+8.7	2 stations	78	5	Outlook	−24	28	1.07	+.10	Trout Creek (near)	6.21	Helena Valley	.06
Nebraska	34.7	+7.7	Loup City	83	6	2 stations	−17	[1] 27	.70	+.02	Ashland	2.12	2 stations	.25
Nevada	39.0	+7.9	2 stations	80	[1] 4	Beowawe	−15	25	.42	−.56	Lewers ranch	1.80	do	.00
New England	27.1	+.5	Fitchburg, Mass	64	1	Enosburg Falls, Vt.	−21	27	3.08	−.26	Machias, Maine	5.85	Woodstock, Vt.	1.44
New Jersey	35.2	+1.5	Pleasantville	69	10	Layton	−1	28	1.54	−2.11	Belvidere	3.02	Pemberton	.91
New Mexico	38.0	+3.9	2 stations	84	[1] 10	Gavilan	−29	27	.65	−.03	Redrock	2.26	2 stations	.05
New York	28.2	+1.4	Jamestown	62	10	Stillwater Reservoir	−29	27	2.86	−.05	Bonaparte	5.97	Peru	1.09
North Carolina	42.8	−.3	Greenville	77	11	Mount Mitchell	6	30	2.52	−1.29	Highlands	4.44	Jefferson	1.45
North Dakota	26.7	+13.7	New England	70	5	2 stations	−20	28	.28	−.21	Carson	.78	4 stations	T
Ohio	35.0	+3.3	2 stations	69	[1] 18	4 stations	0	31	1.46	−1.27	Demos	2.36	Holgate	.57
Oklahoma	45.3	+5.3	do	86	[1] 10	Boise City	−9	28	1.09	−.54	Pawhuska	2.45	Fort Reno	.47
Oregon	39.3	+5.8	Pilot Rock	77	5	Seneca	−7	25	5.53	+1.70	McNamurs	24.91	Unity	.78
Pennsylvania	33.9	+2.6	2 stations	68	[1] 18	Gouldsboro	−8	28	2.24	−.84	Kane Forest Station	4.47	Phila. Point Breeze	.93
South Carolina	46.8	+.2	Ferguson	79	8	Caesars Head	17	30	2.75	−.79	Clemson College	4.73	Charleston	1.39
South Dakota	31.8	+10.0	2 stations	79	[1] 5	Mellette	−18	29	.29	−.25	Harveys Ranch	1.36	Fairfax	.03
Tennessee	42.2	+1.5	Milan	78	7	Crossville	10	22	3.28	−1.24	Milan	4.70	Madison College	1.85
Texas	52.4	+3.5	3 stations	94	10	Muleshoe	−9	27	1.65	−.63	Nacogdoches	9.05	Van Horn	.09
Utah	34.2	+7.3	Springdale (Zion Park)	75	5	Heber	−23	28	.40	−.68	Timpanogos Summit	2.80	4 stations	.00
Virginia	39.5	+1.5	Kenbridge	75	20	Glen Lyn	5	25	1.90	−1.16	Pinnacles	3.73	Langley Field	.69
Washington	38.9	+6.5	Sedro Woolley	74	5	Stockdill Ranch	−3	24	7.54	+2.27	Cushman Dam	35.29	Prosser (near)	1.14
West Virginia	36.6	+2.0	Logan	75	7	Seneca State Forest	−4	31	2.46	−.83	Pickens No. 2	4.74	Petersburg	.66
Wisconsin	28.9	+8.3	Beloit	65	9	Mather	−12	31	.84	−.46	Rest Lake	2.71	Darlington	.00
Wyoming	30.0	+8.0	2 stations	78	[1] 5	West Yellowstone	−34	28	.41	−.33	Snake River	2.43	Kemmerer	T
Alaska (November)	9.9	−3.2	do	58	[1] 1	Allakaket	−58	27	3.13	+.38	Little Port Walter	3.83	Council	T
Hawaii	70.1	+.1	do	89	[1] 29	Kanalohuluhulu	36	25	4.03	−4.97	Pauohakamoa No. 2	30.20	3 stations	.00
Puerto Rico	74.7	+.5	do	92	[1] 21	2 stations	54	[1] 20	3.70	−.85	La Mina (El Yunque)	14.11	Mona Island (Light House)	.66

[1] Other dates also.

[2] Audobon.

TABLE 2.—*Climatological data for Weather Bureau stations, December 1939*

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature: Departure from normal	Temperature: Maximum	Temperature: Date	Temperature: Mean maximum	Temperature: Minimum	Temperature: Date	Temperature: Mean minimum	Temperature: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
New England							30.4	+1.0										73	2.88	−0.5										6.7		
Eastport	75	67	85	29.64	29.73	−0.25	27.2	+0.9	53	3	34	1	27	20	28	25	20	75	3.71	0.0	14	13.0	nw.	38	e.	20	8	3	20	7.2	16.5	10.8
Greenville, Maine	1,069	4	41																													
Portland, Maine	103	82	117	29.65	29.78	−.25	29.0	+1.4	53	3	36	3	27	22	21	25	19	69	4.16	+.2	10	8.8	nw.	31	s.	3	13	9	9	5.0	10.2	6.7
Concord	288	54	72	29.48	29.80	−.26	27.4	+.6	57	3	36	3	28	19	32				2.58	−.6	11	6.4	nw.	28	nw	8	8	6	17	6.7	9.2	3.5
Burlington	403	11	48	29.35	29.82	−.23	23.4	−1.0	47	2	30	−9	28	17	27	22	17	78	1.75	−.1	13	10.4	s.	34	s.	7	4	2	25	8.4	6.6	1.0
Northfield	876	12	60	28.84	29.82	−.23	21.4	+1.0	47	1	29	−17	28	14	30	19	17	85	2.35	−.1	20	7.2	n.	25	se.	7	5	3	23	7.7	9.4	5.9
Boston [1]	29	33	62	29.76	29.79	−.26	33.4	+.9	57	1	40	6	27	26	24	29	22	65	2.91	−.5	8	12.4	w.	41	nw.	8	7	6	18	6.7	6.5	4.0
Nantucket	12	14	90	29.78	29.80	−.25	36.2	+.4	57	1	42	12	27	30	22	33	29	77	2.05	−1.7	10	15.4	w.	41	n.	11	4	13	14	6.7	4.5	2.6
Block Island	26	11	46	29.79	29.82	−.24	35.8	−.2	57	20	42	10	27	30	24	33	27	71	1.60	−2.2	6	19.3	nw.	56	nw.	8	11	8	12	5.2	3.0	2.0
Providence	159	215	251	29.75	29.82	−.24	34.0	+2.4	56	20	41	5	27	27	25	29	23	72	3.12	−.3	7	12.5	nw.	49	nw.	8	7	7	17	6.5	6.5	3.5
Hartford	159	66	100	29.81	29.83	−.24	32.3	+2.5	55	2	40	7	27	25	29	27	22	72	3.79	−.2	11	9.2	nw.	35	nw.	8	6	7	18	7.0	9.3	2.5
New Haven	106	74	153	29.83	29.85	−.22	34.2	+1.7	57	10	41	7	27	27	24	29	23	69	3.71	−.3	9	9.5	nw.	31	nw.	8	8	10	13	6.1	4.6	1.8
Middle Atlantic States							37.4	+1.8										69	1.74	−1.5										6.4		
Albany [1]	292	26	40	29.51	29.84	−.24	27.0	−1.5	48	3	34	0	27	20	25	24	19	73	1.53	−1.1	11	10.7	nw.	35	nw.	14	4	8	19	7.4	4.8	1.7
Binghamton	871	57	79	29.82	29.87	−.22	30.0	+1.8	54	7	37	−3	28	23	31	27	23	76	2.12	−.2	17	7.7	nw.	28	nw.	7	1	7	23	8.5	3.9	.5
New York	314	415	454	29.51	29.86	−.23	36.2	+1.2	59	10	43	12	28	29	29	32	24	62	1.22	−2.4	8	18.1	nw.	60	nw.	8	8	9	14	6.3	3.8	1.9
Harrisburg [1]	351	30	49	29.53	29.92	−.20	35.8	+3.1	62	10	42	12	31	30	28	32	26	69	1.90	−1.1	9	9.8	w.	34	nw.	8	4	8	19	7.5	5.3	2.7
Philadelphia	114	174	367	29.77	29.90	−.21	38.1	+1.8	63	10	44	17	27	32	30	34	28	68	1.18	−2.2	8	13.3	nw.	40	nw.	11	6	9	16	6.5	2.9	.7
Reading	323	283	306	29.55	29.91		36.6	+4.4	62	10	42	15	27	31	28	32	24	61	2.70	−.9	9	13.2	nw.	44	nw.	8	3	11	17	7.3	6.5	2.5
Scranton	805	72	104	29.99	29.88	−.22	31.6	+.9	53	7	38	5	28	26	33	29	23	71	2.58	−.4	12	7.8	nw.	32	nw.	7	3	10	18	7.3	9.4	1.0
Atlantic City	52	37	172	29.84	29.90	−.20	39.1	+2.7	61	10	46	18	27	33	26	35	29	71	1.33	−2.6	8	16.6	w.	45	nw.	8	9	12	10	5.8	5.6	2.0
Sandy Hook	22	10	57	29.85	29.87		36.0	+.8	58	10	42	14	27	30	24	33	28	73	1.01	−3.0	8	16.6	w.	51	nw.	8	6	12	13	6.5	2.8	2.0
Trenton	190	89	107	29.68	29.89		36.0	+1.6	61	10	43	14	27	29	26	32	25	67	1.49	−1.9	12	9.7	nw.	31	nw.	8	6	10	15	6.6	4.9	2.4
Baltimore [2]	123	100	215	29.92	29.93	−.20	40.8	+3.6	70	10	47	20	27	34	28	33	28	69	1.37	−1.5	10	11.6	sw.	40	nw.	8	9	8	14	6.2	6.9	3.3
Washington	112	62	85	29.81	29.94	−.19	40.1	+3.5	67	10	47	21	28	33	30	34	26	61	2.20	−1.1	11	7.6	nw.	34	nw.	22	6	12	13	6.1	4.4	1.0
Cape Henry	18	8	54	29.93	29.95		43.6	−.1	69	19	51	22	25	37	30	38	34	73	1.60	−1.8	9	12.9	sw.	40	nw.	11	12	11	8	5.1	1.8	.0
Lynchburg	686	144	184	29.23	29.99	−.15	42.4	+2.9	72	18	51	22	15	34	37	35	27	61	2.11	−1.2	9	8.3	n.	35	nw.	8	11	9	11	5.3	5.9	.0
Norfolk	91	80	125	29.87	29.97	−.16	44.4	+1.3	69	19	52	21	25	37	25	38	33	71	1.15	−2.2	8	10.0	w.	32	nw.	2	9	9	13	5.6	3.3	.0
Richmond [2]	144	11	52	29.78	29.96	−.18	41.4	+1.6	69	19	51	19	25	32	35	34	29	72	1.50	−1.8	9	8.5	sw.	30	w.	21	15	8	8	4.6	3.3	T
Wytheville	2,304	49	55	27.55	30.00	−.15	37.0	+1.7	66	18	45	17	25	28	40	32	27	75	2.09	−.8	11	8.8	w.	34	w.	7	8	7	16	6.3	1.8	2.5
South Atlantic States							48.3	+0.9										73	2.33	−1.1										4.5		
Asheville	2,253	89	104	27.64	30.06	−.10	40.0	+2.2	70	7	50	20	22	30	42	33	28	68	2.08	−1.1	10	8.7	nw.	34	nw.	10	10	11	10	5.2	4.4	.0
Charlotte [2]	779	63	86	29.19	30.00	−.16	45.2	+2.2	70	18	54	28	25	36	32	37	32	73	2.56	−1.3	12	7.4	sw.	30	nw.	10	10	13	8	5.1	T	.0
Greensboro [1]	886	6	56	29.05	30.01		40.5		71	18	51	19	25	30	40	34	30	76	2.84		11	8.0	sw.	26	nw.	2	11	10	10	5.1	1.0	.0
Hatteras	11	5	50	29.97	29.98	−.15	48.5	−1.6	67	19	54	32	25	42	26	44	41	78	3.01	−1.2	9	14.5	w.	41	n.	24	14	7	10	4.9	.0	.0
Raleigh	376	103	146	29.61	30.00	−.15	44.7	+1.7	70	18	53	27	25	36	28	37	32	73	2.24	−1.3	12	9.2	w.	25	nw.	11	10	11	10	5.1	1.0	.0
Wilmington	72	73	107	29.94	30.02	−.13	48.2	−.9	73	19	58	25	25	39	30	43	39	77	1.56	−1.2	9	8.8	nw.	30	sw.	13	14	7	10	4.5	.0	.0
Charleston [2]	48	11	92	29.99	30.04	−.11	51.4	−.3	70	10	60	33	25	43	25	46	41	75	1.39	−1.3	8	9.5	sw.	26	e.	26	18	4	9	3.8	.0	.0
Columbia, S. C.	347	70	91	29.79	30.03	−.13	48.3	+1.1	74	18	58	28	25	38	35	40	34	72	2.18	−.8	9	8.6	sw.	27	sw.	2	13	8	10	4.6	.0	.0
Greenville, S. C.	1,040	70	78	28.89	30.01		45.4	+3.2	71	18	55	26	30	35	34	38	32	67	4.36	−.5	10	7.1	sw.	24	sw.	20	16	8	7	4.3	T	.0
Augusta [2]	182	62	77	29.57	30.03	−.13	48.5	+.4	74	18	60	27	25	38	38	40	34	65	2.42	−.8	8	5.5	nw.	22	w.	2	18	3	10	4.2	.0	.0
Savannah [2]	65	73	152	29.99	30.05	−.10	54.1	+1.7	76	18	65	31	30	44	32	44	40	80	1.74	−1.2	6	11.0	w.	26	w.	31	20	4	7	3.4	.0	.0
Jacksonville	43	86	110	30.02	30.06	−.08	56.8	+.5	77	19	67	33	30	46	29	50	46	76	2.13	−.9	7	7.9	w.	22	w.	27	15	8	8	4.1	.0	.0
Florida Peninsula							66.4	−0.1										82	2.65	+0.8										3.7		
Key West [2]	21	10	64	30.05	30.05	−.03	69.4	−.9	81	2	76	54	31	63	21	65	63	85	3.70	+2.0	5	8.4	ne.	26	n.	30	15	12	4	3.6	.0	.0
Miami	25	124	168	30.03	30.06	−.03	67.9	−.1	82	20	75	47	31	60	24	61	58	77	3.22	+1.5	5	8.3	n.	26	sw.	29	15	9	7	4.2	.0	.0
Tampa [2]	35	88	197	30.06	30.07	−.05	61.8	+.7	79	19	71	41	31	53	27	55	53	84	1.02	−1.0	7	10.2	n.	30	n.	29	20	5	6	3.4	.0	.0
East Gulf States							52.2	+2.2										77	3.53	−1.3										4.6		
Atlanta [1]	976	5	72	29.00	30.04	−.12	45.6	+.9	72	7	56	24	30	36	37	42	34	70	3.10		7	10.1	nw.	32	e.	26	16	5	10	4.5	T	.0
Macon [2]	370	79	87	29.54	30.04	−.12	48.8	+1.3	75	7	60	26	15	38	42	41	36	72	4.92	+.9	9	6.3	nw.	22	nw.	23	15	5	11	4.7	.0	.0
Thomasville	273	49	58	29.78	30.09	−.06	55.1	+2.6	77	7	66	28	30	44	31	46	41		2.94	−1.3	6						19	6	6		.0	.0
Apalachicola	35	11	51	30.03	30.07		56.6	+.9	78	11	65	35	30	48	27	51	49	82	3.49	−1.6	8	7.6	nw.	24	e.	26	12	9	10	4.6	.0	.0
Pensacola	56	149	185	30.01	30.07	−.08	55.8	+1.8	77	8	64	33	30	47	25	51	48	82	2.86	−1.8	7	7.5	w.	35	s.	26	16	9	6	3.8	.0	.0
Anniston	741	9					46.6	+2.4	70	18	57	22	30	36	38				3.91	−1.1	8		nw.				15	6	10		T	.0
Birmingham [2]	630	5	55	29.39	30.07	−.09	48.8	+2.4	76	7	58	23	30	40	28	39	35	77	2.82	−2.3	6	7.1	w.	29	se.	23	16	5	10	4.7	T	.0
Mobile	57	86	161	30.04	30.08	−.07	54.8	+2.6	75	1	64	32	30	45	30	48	45	84	2.55	−2.5	5	8.9	nw.	33	e.	26	12	9	10	4.8	.0	.0
Montgomery [2]	218	92	105	29.80	30.06	−.10	51.6	+2.2	77	7	62	28	30	42	34	42	36	72	3.23	−1.6	6	6.7	w.	26	se.	26	16	5	10	4.4	.0	.0
Meridian [2]	375	67	92	29.73	30.07	−.09	50.6	+2.9	78	7	62	23	30	40	38	41	38	82	5.19	.0	7	5.6	w.	23	w.	13	15	3	13	4.9	T	.0
Vicksburg	247	82	102	29.80	30.06	−.09	53.8	+3.8	78	7	62	30	30	45	27	46	40	68	4.23	−1.1	9	8.3	sw.	34	w.	23	12	6	13	5.1	.0	.0
New Orleans [2]	53	76	84	30.04	30.08	−.05	58.6	+3.0	79	10	67	40	28	50	27	52	48	78	2.74	−2.0	7	5.1	w.	22	nw.	26	15	9	7	4.4	.0	.0
West Gulf States							55.9	+4.3										73	1.74	−1.3										4.2		
Shreveport [2]	249	92	227	29.86	30.06	−.07	54.4	+5.3	83	7	64	28	29	45	32	46	41	74	4.91	+.6	6	11.7	sw.	36	w.	23	14	10	7	4.7	.0	.0
Bentonville	1,303	12	51																													
Fort Smith	463	57	82	29.58	30.07	−.06	46.5	+4.4	74	9	56	19	29	37	31	40	33	65	1.57	−1.2	4	7.7	e.	25	nw.	12	16	6	9	4.1	2.7	.0
Little Rock [2]	357	94	102	29.77	30.06	−.08	47.0	+2.8	76	7	55	22	29	39	31	40	36	78	1.41	−2.7	6	8.0	w.	26	nw.	2	13	7	11	4.9	.1	.0
Austin [2]	605	68	90	29.41	30.08		55.6	+4.6	82	6	68	28	29	43	38	47	41	70	.80	−1.9	4	6.4	nw.	24	nw.	23	17	6	8	3.8	T	.0
Brownsville [2]	57	88	96	30.04	30.06		64.6	+3.4	85	23	74	34	29	55	34	57	54	82	.42	−1.1	5	10.0	s.	33	s.	22	8	15	8	5.1	.0	.0
Corpus Christi [2]	20	11	78	30.03	30.07	−.05	61.8	+3.8	81	12	69	35	29	54	27	54	50	80	2.06	+.6	6	9.6	s.	27	s.	22	13	8	10	5.2	.0	.0
Dallas [2]	512	220	227	29.53	30.06		52.8		80	7	63	24	29	42	31	43	37	69	.65	−1.7	4	11.6	w.	43	sw.	23	21	3	7	3.1	.0	.0
Fort Worth [2]	679	92	110	29.31	30.07	−.05	52.6	+5.1	82	7	65	22	29	41	37	44	37	63	.68	−1.2	3	9.3	w.	38	nw.	23	19	6	6	2.8	.0	.0
Galveston [2]	54	106	114	30.07	30.08	−.04	59.8	+3.4	76	5	66	35	29	54	22	53	50	82	2.31	−1.4	7	9.7	s.	27	n.	25	16	10	5	3.8	.0	.0
Houston [2]	138	157	190	30.01	30.09		59.0	+4.6	83	10	68	29	29	50	27	50	46	78	2.62	−1.6	6	9.6	s.	25	w.	23	11	13	7	4.5	.0	.0
Palestine	510	64	72	29.54	30.08	−.04	54.6	+4.7	81	7	64	23	29	45	30	47	40	64	2.05	−1.6	3	7.4	s.	27	w.	23	18	4	9	4.0	T	.0
Port Arthur	34	59	134	30.04	30.08		57.8		77	5	66	30	29	49	30				2.30	−2.9	7	11.8	s.	38	ne.	25	11	12	8	4.7	.0	.0
San Antonio [2]	693	111	301	29.46	30.08	−.03	58.8	+5.1	85	11	70	32	29	47	34	49	42	66	.89	−.7	4	10.3	s.	37	nw.	23	13	9	9	4.5	.0	.0

See footnotes at end of table.

TABLE 2.—*Climatological data for Weather Bureau stations, December 1939*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee							38.9	+2.3										76	2.11	−1.4										6.5		
Chattanooga [2]	762	71	214	29.31	30.06	−0.10	45.1	+1.8	72	7	54	26	30	36	37	38	33	74	3.39	−1.7	9	8.1	w.	26	w.	2	14	6	11	4.9	0.2	0.0
Knoxville [2]	995	66	84	28.98	30.05	−.11	42.4	+2.1	68	19	51	23	22	34	36	36	32	74	3.18	−1.3	10	6.5	w.	21	w.	13	13	6	12	5.2	T	.0
Memphis [2]	399	78	86	29.74	30.04	−.11	46.6	+3.0	75	7	53	26	31	40	24	40	36	79	2.90	−1.6	8	8.4	sw.	27	nw.	12	11	6	14	5.7	T	T
Nashville [2]	546	168	188	29.38	30.04	−.11	43.6	+2.6	72	7	52	21	31	35	37	37	32	72	2.68	−1.5	8	8.9	w.	25	nw.	13	12	7	12	5.3	T	.0
Lexington	989	6	----	----	----	----	36.6	+.8	65	7	45	10	25	28	34	----	----	----	2.35	−1.4	11	----	w.	----	----	----	10	4	17	----	11.7	.4
Louisville [2]	525	106	120	29.42	30.02	−.12	38.6	+1.0	67	7	46	9	31	31	33	33	28	75	2.43	−1.3	9	9.9	sw.	28	sw.	16	10	5	16	6.4	15.0	3.5
Evansville	431	76	116	29.55	30.03	−.10	38.8	+1.7	68	10	46	5	31	31	27	34	29	71	1.81	−1.7	9	9.6	sw.	25	sw.	12	7	8	16	6.3	11.2	1.8
Indianapolis [2]	823	98	129	29.09	29.98	−.14	36.1	+3.9	60	12	43	1	31	29	28	30	27	80	1.13	−1.8	6	9.1	w.	25	nw.	7	6	10	15	6.7	5.5	3.7
Terre Haute	575	63	149	29.36	30.00	----	37.0	----	63	18	45	1	31	29	29	32	27	71	1.49	−1.4	6	10.1	sw.	25	nw.	13	8	8	15	6.3	5.8	2.4
Cincinnati [2]	627	11	51	29.45	30.00	−.13	37.4	+3.0	65	7	44	6	31	30	31	33	29	77	1.41	−1.6	8	9.5	sw.	24	w.	7	9	6	16	6.7	6.2	3.2
Columbus [2]	822	90	110	29.06	29.97	−.15	35.8	+3.4	59	7	42	6	31	30	29	31	28	80	1.20	−1.5	11	11.3	s.	30	sw.	16	5	3	23	7.8	3.1	2.4
Dayton	900	186	213	28.99	29.97	----	35.8	+3.2	59	7	42	4	31	29	28	32	27	74	1.46	−1.3	10	12.0	sw.	32	nw.	7	6	6	19	7.4	5.4	3.3
Elkins [2]	1,947	65	83	27.82	29.99	−.13	34.8	+2.1	66	19	44	11	31	26	39	30	26	77	2.54	−.9	17	8.1	w.	30	w.	7	5	5	21	7.7	6.9	1.7
Parkersburg	637	77	84	29.29	29.99	−.15	38.2	+3.0	67	19	46	11	31	30	34	34	29	76	2.04	−1.0	12	7.5	sw.	30	w.	7	9	5	17	6.5	7.2	3.0
Pittsburgh [1]	1,273	39	54	28.55	29.94	−.19	34.5	+.3	63	19	41	8	31	28	30	31	27	80	1.66	−1.2	17	13.1	sw.	41	nw.	7	4	5	22	7.8	5.2	2.4
Lower Lake Region							31.9	+2.6										80	2.17	−0.6										8.3		
Buffalo [2]	768	243	280	29.08	29.87	−.19	32.3	+2.5	56	19	38	8	28	27	32	29	26	82	3.00	−.4	15	18.2	w.	54	sw.	7	1	8	22	8.3	8.7	4.3
Canton	448	10	61	29.34	29.83	----	22.4	−.3	50	2	30	−17	27	15	28	21	19	88	3.47	+.8	20	8.9	sw.	27	w.	7	3	4	24	8.3	12.3	4.5
Ithaca	836	77	100	28.94	29.86	----	30.2	+1.2	57	7	37	−3	28	24	29	28	24	78	2.76	+.4	14	11.1	nw.	33	nw.	8	2	4	25	8.6	5.2	1.0
Oswego	335	71	85	29.47	29.85	−.21	29.7	+.7	53	7	36	−4	28	24	25	27	22	71	3.17	−.3	17	11.7	nw.	34	nw.	7	2	4	25	8.5	5.3	2.4
Rochester [2]	523	86	102	29.25	29.87	−.19	31.8	+2.5	56	7	37	7	27	26	24	28	26	86	1.97	−.8	15	9.7	w.	34	sw.	7	2	2	27	8.7	2.6	1.0
Syracuse [2]	596	65	79	29.40	29.86	−.21	30.4	+1.4	55	7	37	−2	28	24	31	26	23	80	3.15	+.1	20	8.3	s.	30	nw.	8	2	7	22	8.4	8.8	3.8
Erie	714	57	81	29.11	29.89	−.18	35.3	+3.4	60	19	41	12	31	30	29	32	29	78	2.96	+.1	15	10.5	s.	26	sw.	7	0	8	23	8.6	7.6	1.4
Cleveland [2]	762	267	318	29.04	29.92	−.17	35.9	+4.7	62	18	41	12	31	31	28	31	27	80	1.17	−1.3	16	17.4	sw.	49	nw.	7	0	6	25	8.6	3.9	.8
Sandusky	629	5	67	29.23	29.93	−.16	34.8	+3.6	60	18	40	9	31	29	25	----	----	----	1.40	−.9	11	10.8	sw.	29	nw.	7	3	3	25	8.6	2.3	1.2
Toledo [2]	628	79	87	29.23	29.93	−.15	34.0	+3.6	56	18	39	8	31	29	23	30	26	78	.98	−1.4	12	11.6	w.	32	w.	7	6	6	19	7.4	2.5	.9
Fort Wayne	857	69	84	29.02	29.94	----	33.0	+3.3	55	9	39	3	31	27	26	29	26	83	.99	−1.6	10	11.1	w.	31	nw.	7	5	8	18	7.2	3.8	2.3
Detroit [1]	626	5	78	29.21	29.90	−.17	33.4	+4.1	54	9	39	8	31	28	21	31	27	79	1.02	−1.3	13	12.5	sw.	34	nw.	7	3	5	23	8.3	1.9	1.0
Upper Lake Region							30.7	+6.8										79	1.08	−0.9										7.2		
Alpena	609	13	89	29.17	29.85	−.17	30.0	+5.2	52	9	35	7	31	25	22	28	24	78	1.25	−.8	13	11.8	nw.	42	nw.	7	2	9	20	7.7	3.5	1.6
Escanaba	612	51	72	29.20	29.88	−.15	29.4	+7.0	56	9	35	3	30	24	20	28	24	80	1.53	−.2	11	11.8	nw.	30	nw.	7	3	10	18	7.6	4.5	1.6
Grand Rapids [2]	707	70	244	29.13	29.90	−.15	34.0	+5.5	55	18	39	11	31	28	18	29	26	81	1.09	−1.5	12	12.3	sw.	36	sw.	19	2	8	21	8.1	7.3	4.5
Lansing	878	5	90	28.94	29.90	----	31.8	+4.6	53	18	37	6	31	26	21	30	27	86	.89	−1.2	9	10.0	nw.	29	nw.	7	3	8	20	7.7	2.9	2.0
Marquette	734	44	69	29.05	29.86	−.16	30.2	+7.6	57	9	36	4	30	25	22	28	25	83	2.58	−.1	14	9.3	nw.	28	sw.	6	3	10	18	7.5	15.7	6.8
Sault Sainte Marie [1]	724	5	33	29.03	29.84	−.16	25.3	+4.8	47	9	32	0	31	19	29	24	21	82	1.18	−1.2	10	9.0	se.	35	nw.	24	4	8	19	7.5	4.7	2.1
Chicago	673	7	131	29.20	29.95	−.13	35.0	+6.2	57	9	41	3	31	29	19	31	26	70	.90	−1.1	3	11.6	nw.	33	sw.	19	8	6	17	6.6	.5	.0
Green Bay	617	109	141	29.20	29.89	−.15	30.9	+8.6	55	9	36	−1	31	25	21	28	23	73	.68	−1.0	6	11.2	nw.	31	nw.	7	7	7	17	6.8	1.2	.0
Milwaukee [2]	681	97	221	29.16	29.93	−.13	33.8	+7.7	56	9	39	2	31	28	20	29	24	74	.46	−1.3	2	12.9	nw.	38	nw.	7	7	7	17	6.7	.4	.0
Duluth	1,133	5	47	28.64	29.91	−.14	26.5	+10.6	56	6	34	−8	31	19	25	24	20	80	.22	−.9	4	13.7	nw.	48	nw.	12	9	8	14	5.8	1.3	T
North Dakota							25.8	+13.8										76	0.42	−0.2										6.3		
Moorhead, Minn.	940	50	58	28.98	30.00	−.08	25.2	+13.7	65	6	34	−8	30	16	41	21	17	78	.39	−.3	4	8.3	s.	29	nw.	1	6	9	16	7.0	2.2	1.0
Bismarck	1,677	8	57	28.20	30.03	−.05	27.7	+13.0	66	6	38	−9	29	18	41	23	17	71	.26	−.3	6	7.4	w.	38	nw.	1	9	9	13	6.1	3.9	3.0
Devils Lake	1,478	11	44	28.35	29.98	−.08	24.5	+15.0	64	6	33	−13	30	16	32	22	18	84	.35	−.2	6	8.5	w.	35	nw.	16	5	7	19	7.0	2.0	1.4
Lemmon, S. Dak.	2,602	4	38	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	1.4	.7
Grand Forks	832	11	71	----	----	----	23.4	+12.8	58	6	32	−10	30	15	36	21	19	----	.40	−.2	7	----	nw.	----	----	----	----	----	----	----	----	----
Williston	1,878	42	50	27.96	30.00	−.06	28.4	+14.6	63	6	38	−13	31	19	35	24	19	72	.69	+.1	9	7.2	sw.	34	nw.	11	13	7	11	5.2	3.8	3.2
Upper Mississippi Valley							34.0	+7.0										73	0.68	−1.0										5.8		
Minneapolis-St. Paul, Minn. [1]	838	32	61	29.04	29.97	−.11	27.6	+8.0	63	6	37	−4	31	19	36	24	20	75	.97	.0	5	10.3	nw.	37	nw.	7	9	6	16	6.3	4.8	2.6
Springfield, Minn.	1,025	4	42	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
La Crosse [2]	714	11	48	29.21	29.96	−.12	30.5	+8.2	55	6	38	−2	31	22	28	25	22	78	.48	−1.0	2	6.2	s.	22	nw.	7	8	8	15	6.2	.5	T
Madison	974	70	78	28.98	29.94	−.14	31.8	+9.0	54	9	38	−1	31	25	21	27	23	76	.28	−1.4	2	9.6	nw.	30	nw.	7	8	9	14	6.4	T	.0
Charles City	1,015	10	51	28.87	30.00	−.10	29.2	+8.8	61	16	39	−1	31	20	35	25	21	75	.40	−.9	3	6.4	nw.	19	nw.	7	9	12	10	5.7	1.0	T
Davenport	606	66	161	29.31	29.99	−.11	34.8	+7.7	64	18	43	4	31	27	27	30	24	68	.09	−1.4	2	10.5	nw.	32	nw.	7	9	11	11	5.5	T	T
Des Moines [2]	860	5	99	28.94	30.00	−.11	34.0	+8.0	69	6	44	0	31	24	40	28	22	69	.44	−.8	5	9.3	nw.	33	nw.	12	11	8	12	5.5	4.2	3.2
Dubuque	699	60	79	29.20	29.97	−.13	33.2	+8.5	58	16	41	2	31	26	30	29	23	69	.24	−1.2	3	6.7	nw.	22	nw.	7	10	8	13	5.8	T	.0
Keokuk	614	64	78	29.34	30.01	−.11	36.1	+6.5	68	18	45	−2	31	28	30	31	24	67	.34	−1.1	3	7.9	nw.	24	nw.	12	10	9	12	5.5	5.9	3.8
Cairo	358	87	93	29.65	30.04	−.11	41.7	+3.9	71	7	50	11	31	34	28	36	31	71	1.75	−1.6	6	9.0	sw.	25	ne.	23	9	6	16	6.2	1.9	.6
Peoria [2]	609	11	45	29.26	29.99	−.12	33.9	+5.8	62	18	43	−1	31	25	28	28	25	80	.61	−1.2	5	6.5	s.	22	w.	19	14	7	10	4.8	8.0	3.8
Springfield, Ill. [2]	636	5	191	29.32	30.00	−.12	36.2	+4.5	63	18	44	0	31	29	26	29	26	84	1.09	−1.1	6	11.9	nw.	29	nw.	13	7	11	13	6.3	6.9	3.7
St. Louis [5]	568	179	303	29.40	30.02	−.11	39.4	+4.5	72	9	47	4	31	32	31	34	28	66	1.43	−.8	7	11.9	nw.	26	nw.	19	10	9	12	5.7	10.5	4.1
Missouri Valley							36.3	+7.9										69	0.77	−0.4										5.4		
Columbia, Mo. [1]	784	6	66	29.17	30.03	−.09	38.2	+5.0	71	18	47	2	31	29	35	32	27	73	1.16	−.7	8	7.5	w.	25	nw.	13	9	10	12	6.0	7.0	3.8
Kansas City [1]	750	38	76	29.20	30.03	−.09	39.4	+6.9	74	6	48	7	29	30	41	33	26	65	.68	−.6	6	9.7	sw.	34	nw.	1	9	10	12	5.6	4.1	1.4
St. Joseph [2]	967	11	49	29.14	30.03	----	38.0	+8.4	72	6	47	6	29	29	37	31	26	75	.72	−.6	6	8.4	nw.	31	nw.	12	13	7	11	5.0	3.5	2.2
Springfield, Mo. [2]	1,324	5	78	28.57	30.04	−.09	40.8	+4.6	72	6	49	8	29	32	35	33	28	73	1.66	−.6	4	9.2	w.	26	nw.	2	12	9	10	5.2	7.0	4.5
Topeka	987	65	87	28.96	30.04	----	39.7	+7.7	77	6	50	4	29	30	38	33	25	61	.74	−.2	5	8.3	w.	25	nw.	12	12	13	6	4.9	4.5	2.7
Lincoln [2]	1,189	11	81	28.74	30.05	−.07	36.0	+8.4	75	6	46	−5	29	26	38	27	21	67	.94	+.1	6	8.6	nw.	36	nw.	2	10	13	8	5.1	8.0	5.0
Omaha [1]	982	31	44	28.96	30.04	−.07	34.2	+7.8	72	6	44	1	29	24	40	29	23	70	.62	−.3	6	9.2	nw.	37	nw.	12	7	11	13	6.0	8.4	5.8
Valentine	2,598	47	54	27.27	30.06	−.04	34.2	+9.6	76	11	46	−8	28	22	39	28	20	64	.77	+.2	6	8.8	w.	32	nw.	1	9	17	5	4.9	9.1	7.0
Sioux City	1,138	64	106	28.78	30.03	−.09	32.4	+9.3	71	6	43	−1	31	22	46	28	22	68	.28	−.6	5	8.9	nw.	40	nw.	1	8	10	13	6.0	2.7	1.7
Huron [1]	1,289	27	41	28.62	30.04	−.06	29.8	+11.1	71	6	41	−10	29	18	46	24	18	71	.15	−.4	5	11.4	nw.	50	nw.	12	10	12	9	5.4	1.8	.5

See footnotes at end of table.

TABLE 2.—*Climatological data for Weather Bureau stations, December 1939*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0–10	In.	In.
Northern Slope							33.0	+9.3										64	0.64	−0.1										6.5		
Billings	3,570	17	31	26.31	30.06	------	37.6	------	69	5	47	1	26	28	35	31	20	54	0.12	------	4	13.1	sw.	43	nw.	1	4	12	15	7.2	2.1	T
Havre	2,507	11	67	27.32	30.02	−.03	32.2	+11.8	71	5	43	−17	27	22	42	26	19	62	.99	+.4	6	10.4	sw.	38	sw.	11	9	9	13	5.9	8.1	3.0
Helena	4,124	85	111	25.81	30.10	−.03	33.6	+9.4	63	10	42	1	28	26	27	28	21	62	.34	−.4	8	6.7	sw.	31	w.	11	3	3	25	8.3	2.7	.1
Missoula [2]	3,263	80	91	------	------	------	33.4	+8.9	54	6	39	6	28	28	25	30	28	87	1.94	+.8	14	5.8	se.	32	w.	10	2	5	24	8.5	5.1	3.5
Kalispell	2,973	48	56	26.98	30.11	+.04	31.4	+6.5	52	6	38	0	27	25	22	30	27	83	.94	−.5	18	4.4	nw.	23	sw.	11	2	7	22	8.0	5.2	1.7
Miles City [2]	2,371	48	55	27.22	30.06	−.04	31.9	+10.9	71	5	44	−13	28	20	40	26	19	65	.38	−.2	7	6.5	s.	35	nw.	1	4	14	13	6.6	2.9	2.0
Rapid City [2]	3,259	50	58	26.65	30.06	−.03	36.6	+9.7	79	5	48	3	28	25	43	27	17	57	.31	−.1	5	8.1	nw.	35	n.	18	15	7	9	4.6	2.7	1.3
Cheyenne [1]	6,144	5	39	23.94	30.07	−.02	35.0	+6.5	69	5	48	−7	28	22	42	27	15	47	.26	−.3	4	13.7	nw.	47	nw.	16	7	16	8	5.7	3.6	T
Lander	5,352	60	68	24.67	30.12	−.03	31.4	+11.0	64	10	45	−6	28	18	39	24	16	58	.07	−.6	4	4.9	sw.	31	w.	17	9	18	4	4.9	.7	T
Sheridan	3,790	10	47	26.10	30.09	------	33.8	------	77	5	48	−6	28	19	51	26	17	56	.24	−.4	9	5.2	nw.	29	nw.	1	8	18	5	5.5	2.0	T
Yellowstone Park	6,235	12	46	23.92	30.23	+.07	29.0	+9.6	58	5	37	−7	28	21	30	25	19	69	.94	+.2	16	8.5	s.	31	w.	2	3	9	19	7.3	13.9	6.1
North Platte [2]	2,821	11	51	27.11	30.10	.00	35.0	+8.3	76	6	48	−7	28	22	46	25	18	66	.64	+.1	5	7.0	nw.	30	nw.	1	9	11	11	5.2	7.9	3.5
Middle Slope							40.2	+6.7										55	0.66	−0.2										4.2		
Denver [2]	5,292	106	113	24.71	30.07	−.01	40.8	+8.5	79	5	53	6	27	29	37	28	16	46	0.26	−.5	4	8.3	s.	28	ne.	31	11	13	7	4.9	4.1	0.0
Pueblo [2]	4,690	79	86	25.19	30.11	+.03	36.5	+5.0	78	5	53	−10	27	20	52	25	14	53	.41	−.1	4	5.2	nw.	26	w.	8	15	11	5	4.0	5.3	T
Concordia	1,392	50	58	28.54	30.06	−.05	37.2	+6.5	76	6	48	−5	29	26	36	30	21	60	.54	−.1	5	7.3	w.	26	nw.	1	14	10	7	4.3	4.8	3.0
Dodge City	2,509	10	86	27.41	30.07	−.03	39.4	+6.8	81	6	52	−1	28	27	48	30	19	52	.89	+.3	3	11.1	nw.	36	n.	12	13	12	6	4.3	4.6	1.4
Wichita [2]	1,358	85	93	28.53	30.04	−.07	41.1	+6.5	75	11	52	5	29	30	35	32	23	59	.95	.0	4	8.9	nw.	24	nw.	12	20	3	8	3.5	5.0	1.0
Oklahoma City [2]	1,214	10	47	28.65	30.06	−.05	46.3	+7.0	77	6	56	17	28	36	35	36	28	59	.93	−.6	4	9.1	nw.	30	n.	12	13	11	7	4.3	3.0	T
Chadron, Nebr.	3,439	4	58	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Southern Slope							48.6	+4.5										60	0.98	+0.1										3.5		
Abilene [2]	1,738	10	56	28.22	30.07	−.04	49.9	+3.9	83	11	62	19	29	38	40	39	32	63	.79	−.6	4	8.3	s.	28	w.	23	18	6	7	3.6	5.5	.0
Amarillo [2]	3,676	10	49	26.36	30.08	−.01	44.0	+7.0	83	6	57	6	29	31	41	30	21	60	.98	+.2	5	8.3	w.	21	ne.	12	19	7	5	3.1	10.4	1.9
Del Rio	960	63	71	29.06	30.06	−.04	55.3	+3.1	83	10	66	29	29	44	35	47	39	62	1.47	+.8	3	6.2	nw.	25	e.	25	14	8	9	4.7	.0	.0
Roswell	3,566	75	85	26.42	30.08	+.01	45.1	+3.9	81	10	61	17	29	30	48	36	25	53	.70	.0	4	6.2	s.	29	ne.	12	21	8	2	2.5	2.0	.0
Southern Plateau							46.9	+6.2										55	0.14	−0.7										2.5		
El Paso [2]	3,778	82	101	26.11	30.08	+.05	49.4	+4.5	75	9	62	24	29	37	36	38	29	55	.19	−.3	2	6.9	w.	31	nw.	22	23	5	3	2.1	T	.0
Albuquerque [1]	5,314	5	34	24.80	30.10	------	40.0	+5.5	65	10	53	14	27	27	34	32	24	58	.10	−.4	2	6.7	ne.	30	e.	25	21	6	4	3.0	.3	T
Santa Fe	7,013	38	53	23.27	30.13	+.07	36.8	+6.1	63	5	48	3	27	26	30	28	19	54	.57	−.2	5	6.1	n.	18	n.	29	17	11	3	3.0	4.8	1.0
Flagstaff	6,907	10	59	23.39	30.06	0.00	37.0	+8.6	65	10	54	7	26	20	43	29	23	64	.03	−2.0	1	6.8	nw.	24	nw.	27	19	9	3	----	T	.0
Phoenix [2]	1,107	39	51	28.90	30.02	−.02	57.6	+5.6	84	8	72	31	27	43	37	45	36	55	T	−1.0	0	4.4	e.	17	w.	22	18	7	6	3.4	.0	.0
Yuma	141	9	54	29.89	30.04	−.01	61.0	+5.8	82	8	74	36	27	48	30	49	36	43	.00	−.5	0	5.5	w.	23	nw.	25	28	3	0	.8	.0	.0
Independence	3,957	5	26	26.06	30.13	+.01	46.8	+7.5	73	4	61	25	26	32	37	36	20	---	.09	−.7	1	------	n.	17	s.	10	---	---	---	----	.0	.0
Middle Plateau							37.7	+7.5										65	0.43	−0.6										5.6		
Reno [2]	4,527	61	76	25.66	25.66	30.14	41.2	+7.9	67	16	53	14	25	30	40	34	27	65	.34	−.6	5	5.2	w.	30	s.	10	13	9	9	----	.3	.0
Tonopah	6,090	12	20	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Winnemucca	4,344	18	56	25.70	30.16	−.02	37.2	+7.2	70	10	50	2	25	24	43	33	27	70	.94	−.1	9	6.6	ne.	30	s.	10	7	8	16	6.5	2.1	.0
Modena	5,473	10	43	24.70	30.13	+.01	36.1	+8.0	63	15	51	7	27	21	41	30	22	61	.08	−.8	2	8.0	w.	25	nw.	18	9	10	12	5.6	1.1	.0
Salt Lake City [1]	4,227	32	46	25.84	30.19	+.04	39.0	+7.1	68	10	48	9	28	30	27	31	26	71	.66	−.8	7	5.6	nw.	25	nw.	11	8	10	13	5.9	5.6	.0
Grand Junction	4,602	60	68	25.50	30.16	+.06	35.0	+7.5	59	11	48	5	28	22	35	29	20	57	.13	−.5	2	4.4	se.	23	nw.	11	15	7	9	4.3	1.4	.0
Northern Plateau							38.1	+7.5										78	1.77	0.0										8.1		
Baker	3,471	36	54	26.61	30.15	−.01	36.0	+8.7	60	10	44	5	25	29	27	32	28	79	.85	−.8	16	5.8	se.	25	sw.	16	3	9	19	7.8	2.8	T
Boise	2,739	79	87	27.24	30.17	−.03	40.2	+8.1	70	10	48	16	26	33	27	35	32	79	1.39	−.2	17	5.1	se.	25	se.	10	3	7	21	7.9	1.5	.0
Pocatello [1]	4,478	5	31	25.57	30.19	−.01	34.2	+6.5	63	10	45	−7	28	23	40	30	24	71	.54	------	7	8.5	sw.	45	w.	11	2	9	20	7.8	1.3	.0
Spokane [2]	1,929	101	110	27.97	30.09	+.01	37.0	+6.5	60	10	42	20	24	32	26	35	32	82	2.83	+.6	17	6.2	s.	20	s.	15	4	4	23	8.3	3.9	2.9
Walla Walla	991	57	65	29.00	30.09	−.03	42.8	+7.3	68	10	49	25	26	36	30	39	35	77	2.35	+.3	18	5.5	s.	24	w.	10	1	5	25	9.0	1.2	.0
Yakima	1,076	58	67	28.92	30.09	------	38.4	+7.7	58	15	45	18	25	31	31	36	32	77	1.44	+.1	13	4.1	nw.	29	se.	30	4	3	24	8.0	3.1	1.2
North Pacific Coast Region							46.7	+5.1										86	9.81	+2.6										8.8		
North Head	211	8	56	29.74	29.96	−.07	48.6	+4.5	61	4	52	34	24	45	13	47	45	89	12.75	+3.3	26	19.9	se.	70	s.	14	2	6	23	8.0	.0	.0
Seattle [2]	125	90	321	29.96	30.00	−.01	47.5	+5.8	65	4	52	28	24	43	15	44	42	86	10.41	+4.8	20	10.2	s.	42	sw.	8	2	5	24	8.6	.0	.0
Tacoma	263	172	201	29.79	30.00	−.01	45.9	+5.3	65	4	51	26	25	41	15	----	----	---	8.31	+1.6	21	7.9	s.	34	s.	15	0	6	25	9.1	.0	.0
Tatoosh Island	86	9	55	29.80	29.89	−.07	48.3	+4.4	57	4	51	40	24	45	13	46	44	84	14.81	+1.4	26	22.0	e.	61	s.	8	2	4	25	8.5	.0	.0
Medford [1]	1,329	29	58	28.67	30.11	------	42.5	+5.1	62	31	49	25	5	36	30	41	39	88	6.71	+3.6	18	------	nw.	----	----	---	0	4	27	9.1	.6	.0
Portland, Oreg.	154	68	106	29.98	30.03	−.04	46.4	+5.2	62	4	51	28	25	42	23	44	42	88	8.37	+1.6	23	6.0	se.	22	s.	14	1	4	26	9.1	.0	.0
Roseburg	510	45	76	29.50	30.05	−.06	47.5	+5.7	64	8	54	29	25	41	20	45	42	83	7.34	+2.0	19	3.5	s.	22	se.	7	1	5	25	9.0	.0	.0
Middle Pacific Coast Region							51.9	+4.0										75	5.85	+1.1										7.6		
Eureka	60	72	88	30.01	30.08	−.04	52.6	+4.4	68	1	59	36	25	46	19	49	46	81	12.13	+5.8	16	7.5	se.	35	s.	9	3	5	23	8.3	.0	.0
Redding [1]	722	20	34	29.34	30.12	------	49.9	+3.8	74	2	57	36	26	43	34	45	39	69	9.07	+3.5	14	6.9	nw.	42	se.	10	7	3	21	7.4	.0	.0
Sacramento [2]	66	92	115	30.10	30.12	−.02	49.8	+3.6	68	2	58	33	25	41	28	46	42	76	1.15	−1.9	7	6.4	n.	32	se.	10	5	8	18	7.1	.0	.0
San Francisco	155	112	132	29.94	30.11	−.01	55.3	+4.0	69	3	60	44	25	50	18	51	47	75	1.05	−2.9	10	6.0	n.	34	s.	10	6	3	22	7.5	.0	.0
South Pacific Coast Region							58.4	+5.4										68	0.32	−1.6										4.5		
Fresno [1]	327	97	105	29.82	30.14	+.01	49.9	+3.7	74	10	61	30	25	38	34	46	41	74	.11	−1.3	3	4.3	se.	23	nw.	19	3	10	18	7.3	.0	.0
Los Angeles	338	159	191	29.69	30.05	−.02	64.2	+7.6	88	4	74	45	24	54	31	53	44	54	.38	−2.2	4	5.1	ne.	18	se.	23	20	7	4	2.9	.0	.0
San Diego [2]	87	62	70	30.01	30.04	−.03	61.0	+5.0	80	3	70	45	26	52	28	54	50	75	.48	−1.4	2	5.0	nw.	24	s.	23	17	9	5	3.3	.0	.0
West Indies																																
San Juan, P. R.	82	9	54	29.91	30.00	------	76.9	+.6	86	31	82	70	3	72	14	----	----	---	4.72	−.8	15	9.0	e.	29	e.	17	2	25	4	5.7	.0	.0
Panama Canal																																
Balboa Heights	118	6	92	------	[3]29.83	+.02	80.6	+.6	90	2	87	73	12	74	16	----	----	[3]83	6.23	+1.6	13	6.2	nw.	21	n.	24	0	21	10	6.8	.0	.0
Cristobal	36	6	97	------	[3]29.85	+.01	80.6	+.7	88	2	85	72	6	76	11	76	75	[3]85	17.08	+5.5	26	9.4	n.	35	w.	6	0	4	27	8.6	0	.0

See footnotes at end of table.

TABLE 2.—*Climatological data for Weather Bureau stations, December 1939*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	U	In.	In.		Miles								0-10	In.	In.
Alaska																																
Fairbanks	454	11	87	[4] 28.92	[4] 29.47	-----	0.0	+7.0	42	22	8	−28	2	−8	38	0	−4	80	0.05	−.6	2	4.1	n.	24	ne.	21	8	8	15	6.7	1.5	10.5
Juneau	80	96	116	-----	[4] 29.52	-----	39.9	+8.7	50	25	44	32	1	36	13	-----	-----	-----	9.70	+2.0	27	9.7	se.	35	se.	3	0	0	31	9.9	2.4	.0
Nome	22	5	57	[4] 29.45	[4] 29.47	-----	2.0	−4.5	31	22	9	−18	2	−5	31	2	−2	77	.33	−.7	11	5.6	n.	30	se.	22	5	8	18	7.4	3.5	2.0
Hawaiian Islands																																
Honolulu	38	86	100	29.96	30.00	-----	73.1	+.7	81	16	78	64	8	69	14	67	64	76	.55	−3.4	12	8.4	e.	30	sw.	27	8	18	5	5.4	.0	.0
LATE REPORTS FOR NOVEMBER 1939																																
Greenville, Maine	1,069	4	41	28.89	30.09	-----	29.2	-----	46	30	37	7	20	22	26	26	20	---	2.69	-----	7	-----	nw.	30	nw.	17	9	7	14	----	.5	.0
Lemmon, S. Dak	2,602	4	38	-----	-----	-----	37.5	-----	66	16	51	9	2	24	39	29	21	---	T	-----	0	11.4	s.	33	n.	23	---	---	---	----	T	.0
Springfield, Minn	1,025	4	42	-----	-----	-----	38.4	-----	70	16	51	15	27	26	44	29	21	---	.02	-----	2	5.8	s.	----	-----	---	---	---	---	----	----	.0

[1] Data are airport records.
[2] Barometric and hygrometric data from airport, other data city office records.
[3] Observations taken bihourly.
[4] Pressure not reduced to mean of 24 hours.

NOTE.—Except as indicated by notes 1 and 2, data in table 2 are city office records.

TABLE 3.—*Data furnished by Canadian Meteorological Service, December 1939*

Stations	Altitude above mean sea level, Jan. 1, 1919	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Mean maximum	Temperature of the air: Mean minimum	Temperature of the air: Highest	Temperature of the air: Lowest	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Total snowfall
	Feet	In.	In.	In.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.
Cape Race, Newfoundland	99	-----	-----	-----	32.7	+2.5	37.2	28.2	47	16	4.37	−0.69	8.0
Sydney, Cape Breton Island	48	29.51	29.64	−0.26	31.8	+2.8	36.9	26.8	55	15	4.38	−.97	13.3
Halifax, Nova Scotia	88	29.43	29.70	−.25	29.8	+1.5	35.2	24.4	52	9	4.78	−.62	5.2
Yarmouth, Nova Scotia	65	29.61	29.72	−.24	32.3	+1.3	37.6	27.0	56	11	4.63	−1.12	22.2
Charlottetown, Prince Edward Island	38	29.59	29.67	−.25	27.2	+2.0	31.9	22.4	55	6	3.90	−.62	23.8
Chatham, New Brunswick	28	29.55	29.66	−.29	22.6	+3.6	29.2	15.9	52	−3	2.12	−1.07	8.9
Father Point, Quebec	20	29.68	29.71	−.25	22.1	+5.6	26.7	17.5	48	2	3.01	+.30	12.1
Quebec, Quebec	296	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Doucet, Quebec	1,236	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Montreal, Quebec	187	29.60	29.82	−.21	22.0	+2.4	26.9	17.1	48	−4	3.57	−.17	14.6
Ottawa, Ontario	236	29.44	29.82	−.23	19.5	+1.8	25.8	13.2	46	−10	3.66	+.82	25.4
Kingston, Ontario	265	29.53	29.85	−.20	26.8	+2.4	33.4	20.3	48	−2	3.72	+.86	10.1
Toronto, Ontario	379	29.44	29.87	−.19	31.4	+3.9	36.2	26.6	49	5	1.24	−1.34	2.9
Cochrane, Ontario	930	-----	-----	-----	14.2	+6.2	20.8	7.6	37	−18	2.74	+1.17	25.0
White River, Ontario	1,244	28.48	29.88	−.13	17.1	+8.5	25.0	9.3	39	−23	2.16	+.36	19.0
London, Ontario	808	29.00	29.90	-----	30.5	+3.7	35.7	25.4	50	4	1.83	−1.71	5.2
Southampton, Ontario	656	29.12	29.85	−.17	29.4	+2.9	35.4	23.5	50	4	2.24	−1.64	12.8
Parry Sound, Ontario	688	29.14	29.85	−.17	25.1	+4.3	31.3	18.9	45	−5	1.22	−3.23	1.8
Port Arthur, Ontario	644	29.18	29.91	−.13	22.4	+8.8	29.8	15.1	50	−9	.49	−.40	2.2
Winnipeg, Manitoba	760	29.08	29.96	−.14	20.9	+14.9	28.1	13.7	53	−14	.30	−.61	1.4
Minnedosa, Manitoba	1,690	28.10	29.98	−.10	22.2	+14.2	29.5	14.8	54	−13	.14	−.45	1.3
Le Pas, Manitoba	860	28.95	29.96	−.09	14.3	+14.1	21.7	7.0	48	−27	1.00	+.46	8.0
Qu'Appelle, Saskatchewan	2,115	27.62	29.97	−.11	22.7	+13.3	30.4	15.1	58	−22	1.18	+.45	10.7
Moose Jaw, Saskatchewan	1,759	-----	-----	-----	26.6	+15.5	34.9	18.3	67	−11	.65	+.06	6.5
Swift Current, Saskatchewan	2,392	27.10	30.01	−.07	27.9	+10.9	37.6	18.2	68	−11	.65	+.01	4.9
Medicine Hat, Alberta	2,365	27.42	29.98	−.08	28.8	+9.4	40.3	17.2	67	−20	1.03	+.35	7.8
Calgary, Alberta	3,540	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Banff, Alberta	4,521	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Prince Albert, Saskatchewan	1,450	28.35	29.96	−.12	17.4	+12.2	24.4	10.5	50	−15	1.75	+1.03	17.3
Battleford, Saskatchewan	1,592	28.12	29.93	−.14	18.0	+11.8	26.0	10.0	54	−20	1.20	+.79	10.5
Edmonton, Alberta	2,150	27.47	29.88	-----	24.9	+10.9	32.8	17.0	61	−8	.45	−.31	3.0
Kamloops, British Columbia	1,262	28.62	29.99	−.12	39.4	+12.2	44.5	34.3	60	21	.72	−.34	1.6
Victoria, British Columbia	230	29.69	29.94	−.10	45.8	+4.8	49.3	42.3	55	42	5.47	+.09	.0
Barkerville, British Columbia	4,180	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
Estevan Point, British Columbia	20	29.81	29.83	−.12	46.8	+4.7	50.9	42.6	54	31	26.37	+10.67	.0
Prince Rupert, British Columbia	170	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
St. George's, Bermuda	151	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----
LATE REPORTS FOR NOVEMBER 1939													
Battleford, Saskatchewan	1,592	28.22	30.00	−0.04	28.2	+8.0	38.2	18.2	56	−8	.45	0.00	1.4
St. George's, Bermuda	158	-----	30.04	−.01	69.3	+1.2	73.6	65.1	83	55	8.02	+2.93	.0

TABLE 4.—*Severe local storms, December 1939*

[Compiled by Mary O. Souder from reports submitted by Weather Bureau officials]

The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the Untited States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Rochester, N. Y., and vicinity.	6					Wind	Falling trees and limbs caused much damage to telephone and power lines; minor property damage.
New York, N. Y., and vicinity.[1]	8					do	Wind velocity of 56 miles recorded at 3:15 a. m., remaining high along the coast all day. Barges torn from their moorings. A ferry plying between Nyack and Tarrytown blown onto a mud bank remaining for more than 9 hours. Small buildings lifted from their foundations. A cross blown from a Brooklyn church steeple and a 15-ton trailer truck blown over in Newark, N. J.
California, northern portion	10					Straight-line wind	Damage to small buildings and power lines in portions of Siskiyou County.
Port Angeles, Wash	10					Wind	All communication lines disrupted.
New Orleans, La	26	5 a. m.			$3,400	do	A house and contents destroyed; other property damaged; 3 persons injured.
Indiana, Ohio River to north of Monticello and Bluffton.[1]	27					Snow	Motor traffic throughout the northern and central parts of the State interrupted as sleet covered windshields. In Indianapolis traffic slowed to a snail's pace and streetcars and buses were jammed as motorists abandoned their cars in garages and took to the street railways All commercial air lines operating into Indianapolis ordered their planes grounded.
Washington, D. C., and vicinity.[1]	27			3		Snow and wind	3-inch, 8-hour snowfall and low temperature caused injury to 12 persons. A biting northwest wind handicaped snow-removal squads as they sought to open streets and highways. Streets ice-covered at night as dropping temperatures froze the slush. Rock Creek Park and roads in nearby Virginia and Maryland trapped motorists who attempted to drive to work in the morning rush hours. Property damage not estimated.

[1] From press reports.