CLIMATOLOGICAL DATA

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	54.0	+0.6	Wetumpka	85	1	Valley Head	23	24	3.70	+0.49	Citronelle	11.82	Columbia	1.47
Arizona	47.9	−2.9	2 stations	92	5	Alpine	−7	26	1.77	+.81	Crown King	5.01	Lees Ferry	.43
Arkansas	52.7	+1.4	Pine Bluff	87	1	2 stations	17	28	4.70	+.97	Hope	8.97	Fayetteville	1.35
California	49.0	−3.2	Blythe	92	3	Ellery Lake	−4	[1] 16	5.49	+3.09	Upper Mattole	18.66	Haiwee	.39
Colorado	35.5	+.1	Eversoll Ranch	84	11	3 stations	−18	[1] 26	1.13	+.36	Wolf Creek Pass	4.99	Canon City	T
Florida	64.2	−.8	2 stations	91	[1] 4	High Springs	28	22	1.55	−.60	Niceville	8.92	2 stations	T
Georgia	53.5	−1.0	3 stations	82	[1] 1	Blairsville	19	6	2.48	−.10	Clayton	6.29	Cordele	1.33
Idaho	33.5	−1.9	Kooskia	65	1	Sun Valley	−15	[1] 18	2.24	+.19	Deception Creek	6.25	May	.28
Illinois	44.9	+2.7	3 stations	82	1	Mount Carroll	12	30	1.86	−.75	Mount Sterling	4.58	Hudson	.41
Indiana	44.2	+1.8	New Harmony	83	[1] 1	Winamac	11	30	2.45	−.59	Wabash	4.82	Kentland	.93
Iowa	40.4	+4.0	Fairfield	81	1	Inwood	0	30	1.73	+.12	Washington	5.18	Clarion	.46
Kansas	45.8	+2.5	3 stations	85	1	2 stations	5	30	1.96	+.69	Tongoxie	4.70	Ulysses	.57
Kentucky	46.5	+.1	Lovelaceville	84	[1] 1	4 stations	18	[1] 6	2.45	−.91	Gilbertsville	5.08	Anchorage	1.41
Louisiana	59.5	+.7	2 stations	88	[1] 2	do	25	[1] 28	7.88	+3.97	Houma	15.50	Doyline	3.13
Maryland - Delaware.	45.1	−.1	Crisfield, Md	78	10	Oakland, Md	8	25	3.57	+1.00	Millsboro, Del	6.53	Luke, Md	1.49
Michigan	39.3	+3.0	8 stations	78	1	3 stations	5	[1] 6	2.53	.00	Deer Park	4.76	Detour	.80
Minnesota	34.8	+5.1	Winona	79	1	Roseau	−6	30	1.69	+.53	Pigeon River Bridge	5.24	Wells	.61
Mississippi	55.6	+.6	2 stations	86	[1] 1	Water Valley	23	30	5.18	+1.57	Merrill	11.24	Corinth	2.44
Missouri	47.0	+2.6	Arcadia	88	1	Tarkio	1	30	2.34	−.33	Linneus	5.60	Jefferson Barracks	.85
Montana	30.7	−1.4	3 stations	68	[1] 1	3 stations	−23	[1] 29	.82	−.20	Hebgen Dam	3.10	Conrad	.07
Nebraska	38.1	+.8	2 stations	80	1	Nenzel (near)	−15	30	1.51	+.76	Mumper	3.95	Atkinson	.53
Nevada	36.0	−3.9	Mesquite	98	3	Fish Creek Ranch	−21	15	1.86	+1.18	Marlette Lake	6.19	2 stations	.23
New England	38.5	+.5	Fitchburg, Mass	74	3	Somerset, Vt	5	24	4.86	+1.33	Wood River Junction, R. I.	11.28	Waterbury, Vt.(near)	1.11
New Jersey	43.9	+.2	Hammonton	76	9	Charlotteburg	13	24	6.44	+3.24	Pleasantville	9.45	Layton	3.23
New Mexico	41.5	−1.0	Maljamar	87	4	Selsor Ranch	−16	26	.96	+.32	Mogollon	2.74	Arch	.00
New York	39.0	+.9	Rochester	76	1	Indiana Lake	6	[1] 26	3.35	+.34	Cutchogue	11.32	Burdett	.79
North Carolina	48.3	−1.6	High Point	82	8	Mount Mitchell	1	30	3.42	+.79	Highlands	7.37	Manteo	1.42
North Dakota	27.0	+.2	4 stations	70	1	Stanley	−21	30	2.25	+1.64	Richardton	6.11	Bottineau	.28
Ohio	42.6	+1.1	5 stations	78	[1] 1	2 stations	14	[1] 7	2.05	−.63	Shaker Heights	4.15	Wooster No. 1	1.03
Oklahoma	52.3	+2.5	Frederick	89	1	do	11	30	2.75	+.74	Cloudy Tower	9.85	Kenton	.48
Oregon	37.6	−2.8	2 stations	69	4	Round Grove	−3	[1] 14	3.32	−.36	Brookings	15.57	Mitchell	.56
Pennsylvania	41.6	+.3	Uniontown	78	2	Somerset	7	26	2.81	−.05	George School	6.50	Saxton	1.26
South Carolina	52.4	−1.4	Walterboro	85	[1] 8	Walhalla	23	6	2.20	−.10	Caesars Head	5.68	Gaffney	1.18
South Dakota	33.1	−.1	Vermillion	82	1	3 stations	−14	30	1.98	+1.35	Spearfish	7.10	Hermosa	.58
Tennessee	48.5	.0	Clarksville	82	1	5 stations	20	[1] 6	3.23	−.26	Brownsville	6.07	Moscow	1.55
Texas	57.7	+.6	2 stations	93	[1] 1	2 stations	11	30	3.49	+1.37	Smithville	10.45	Friona	.01
Utah	36.2	−1.2	do	79	[1] 3	Woodruff	−10	28	1.67	+.71	Silver Lake (Brighton)	6.73	Emery	.00
Virginia	45.8	−.8	do	79	[1] 8	Mountain Lake	9	25	2.64	+.22	Randolph	5.27	Afton	.46
Washington	39.6	+.2	Mottinger	78	1	Stockdill Ranch	5	28	4.84	−.05	Kelly's Ranch	21.60	Clarkston Heights	.75
West Virginia	42.5	−.7	2 stations	79	2	Bayards	5	26	2.22	−.51	Pickens No. 2	4.47	Brushy Run	.87
Wisconsin	39.0	+5.6	Kenosha	81	1	Grantsburg	10	30	2.39	+.53	Oshkosh	4.97	Mondovi	.76
Wyoming	30.7	−.9	Hulett	74	11	Afton	−19	26	1.09	+.37	Bechler River	5.74	Deaver	.02
Alaska (October)	33.5	+3.1	Radioville	67	1	Wiseman	−12	26	4.53	+.19	Little Port Walter	51.91	Lake Minchumina	.16
Hawaii	72.1	+.2	Waianae	92	[1] 2	Haleakala	38	[1] 20	5.79	−1.70	Kukui	60.00	3 stations	.00
Puerto Rico	75.7	−.6	Guayama	97	9	Cayey	50	19	4.05	−3.54	Mameyes (Utuado)	9.66	Santa Isabel	.30

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS

District and station	Elevation of instruments: Barometer above sea level	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: Mean	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	Total degree days	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	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	Number of days with thunderstorms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.		°F.	°F.		°F.	°F.		°F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
New England							40.4	+1.5										82	6.10	+2.9											6-6			
Eastport	75	67	85	1,012.2	1,015.6	−0.7	39.8	+3.1	63	3	45	24	29	35	22	754	34	81	4.53	+1.2	1.98	12	14.3	ne	46	e.	30	6	6	18	7.2	.7	T	0
Greenville, Maine	1,070	6	41	976.0	1,016.9	----	33.5	+2.9	66	3	40	12	29	26	33	943	30	----	3.90	+.8	2.30	10	----	n.	----	----	----	3	4	23	----	9.5	2.5	0
Portland, Maine [1]	103	5	43	1,011.5	1,015.9	−.4	38.2	+.2	63	3	46	21	15	30	29	866	34	88	6.59	+3.1	2.71	13	10.4	n.	47	sw.	30	10	4	16	6.3	8.2	.0	0
Concord [1]	289	5	45	1,005.1	1,016.3	−1.7	37.0	+1.6	69	3	46	16	26	28	37	813	30	84	3.17	+.1	1.23	13	8.7	nw.	42	ne.	30	8	4	18	7.0	10.3	T	0
Burlington [1]	403	5	51	1,001.4	1,016.9	−.7	37.4	+1.1	65	3	43	19	29	31	22	832	32	84	1.96	−.7	.69	11	9.4	nw.	33	s.	27	5	2	23	8.0	9.3	3.8	0
Boston [1]	124	33	62	1,010.2	1,015.2	−2.4	43.2	+1.2	69	4	50	29	26	36	24	657	35	76	5.68	+2.4	2.25	11	13.4	nw.	48	ne.	30	10	3	17	6.5	1.2	.0	0
Nantucket	12	11	59	1,013.5	1,014.6	−3.0	44.9	+.5	65	2	50	34	25	40	19	604	38	83	8.76	+5.5	2.60	14	13.4	nw.	49	ne.	21	7	7	16	6.5	.0	.0	1
Block Island	26	11	46	1,013.5	1,014.9	-3.1	44.9	+.3	62	1	51	39	26	39	24	602	39	82	9.73	+6.1	2.67	13	18.7	n.	56	w.	30	11	6	13	5.6	T	.0	1
Providence [4]	159	46	60	1,009.1	1,015.6	−2.7	43.6	+3.2	68	4	51	28	26	36	26	643	34	80	7.52	+4.5	2.78	12	9.3	n.	49	sw.	30	9	6	15	6.3	.6	.0	0
Hartford [1]	159	5	44	1,009.8	1,016.3	−2.3	40.4	+.9	68	1	49	20	24	32	34	741	34	82	7.14	+3.6	2.37	11	9.0	n.	30	sw.	30	7	8	15	6.6	6.6	.0	1
New Haven [1]	107	5	39	1,011.5	1,015.9	−2.4	41.8	+1.9	67	3	50	24	24	34	32	695	34	78	8.14	+5.1	2.51	12	8.2	n.	34	w.	30	10	6	14	6.1	1.0	.0	1
Middle Atlantic							45.7	+1.0										77	4.15	+1.6											6.6			
Albany [1]	97	26	40	1,012.5	1,016.6	−2.0	38.6	+2.3	66	3	45	22	20	32	25	786	32	82	2.53	.0	.94	12	9.3	n.	30	sw.	30	4	5	21	7.5	3.6	.9	0
Binghamton [2]	871	60	79	984.8	1,018.0	−1.0	40.0	+1.3	70	1	46	25	26	33	31	750	34	86	3.03	+.6	.86	16	6.1	w.	24	w.	30	4	4	22	8.0	8.9	4.2	0
New York	314	415	454	1,004.1	1,016.3	−2.7	46.0	+1.8	70	3	53	29	26	39	24	571	36	71	7.14	+4.2	2.40	9	15.5	nw.	51	w.	30	8	9	13	6.1	T	.0	2
Harrisburg [1]	374	30	49	1,003.7	1,018.0	−1.6	44.3	+1.5	68	8	51	24	26	37	34	622	36	76	3.39	+1.1	1.37	8	8.3	nw.	27	w.	30	4	5	21	7.5	.3	0	0
Philadelphia [1]	114	6	56	1,012.5	1,017.3	−2.0	45.6	+1.7	73	1	54	26	26	37	32	584	36	78	4.71	+2.0	1.95	8	8.9	nw.	33	w.	30	4	13	13	6.6	T	.0	0
Reading	323	47	306	1,015.1	1,017.6	----	45.0	+1.2	67	9	52	26	26	38	32	595	----	----	4.30	+1.6	1.50	10	11.3	nw.	43	w.	30	4	9	17	7.3	.3	0	0
Scranton	805	72	104	987.8	1,018.0	−1.0	41.0	+.5	67	2	47	26	30	35	29	719	----	----	2.22	−.6	.54	13	6.2	n.	27	sw.	30	4	6	20	7.4	2.1	.0	0
Atlantic City	52	37	172	1,014.2	1,016.6	−2.7	46.6	+1.0	64	8	53	30	26	40	22	553	39	80	9.06	+6.2	3.49	9	15.8	nw.	47	n.	20	5	11	14	6.4	T	.0	0
Trenton	190	89	107	1,009.5	1,016.9	----	45.2	+.8	70	1	52	28	26	38	27	597	36	74	5.22	+2.5	1.99	9	9.3	nw.	27	w.	30	7	9	14	6.6	.2	.0	1
Baltimore [2]	123	100	215	1,012.9	1,018.0	−1.6	48.0	+1.7	71	8	55	29	30	41	25	515	37	73	3.93	+1.4	1.99	9	9.8	nw.	40	sw.	30	8	14	8	5.8	T	.0	0
Washington [2]	112	56	100	1,013.5	1,018.3	−1.7	47.4	+2.2	74	8	55	27	26	40	37	526	37	72	3.29	+.9	1.83	9	7.7	nw.	31	nw.	21	6	13	11	6.2	T	.0	0
Cape Henry	18	8	54	1,016.3	1,017.3	----	50.9	−1.2	71	1	56	34	30	46	28	422	44	80	3.59	+1.2	1.37	9	15.0	nw.	43	nw.	6	6	12	12	6.1	.0	.0	0
Lynchburg	686	144	184	993.2	1,018.6	−1.7	46.4	−.8	75	8	55	25	30	38	39	559	35	72	2.03	−.3	1.08	8	7.7	nw.	26	w.	30	8	10	12	6.1	T	.0	0
Norfolk [2]	91	80	125	1,014.2	1,018.3	−1.3	51.1	−.3	74	9	58	33	30	45	31	420	42	80	4.08	+1.9	1.57	9	10.3	n.	31	nw.	21	9	9	12	5.8	.0	.0	0
Richmond	144	11	52	1,012.2	1,017.6	−2.4	48.9	+.6	75	1	58	26	26	40	39	483	38	76	3.77	+1.6	2.43	9	7.7	nw.	27	sw.	30	9	8	13	5.7	.0	.0	0
South Atlantic							53.4	−0.7										79	2.49	+0.1											5.2			
Asheville	2,253	77	92	938.7	1,019.6	−1.1	45.1	.0	75	8	54	23	30	36	44	596	35	75	1.95	−.3	.58	8	9.4	nw.	25	nw.	30	8	6	16	6.6	.6	T	0
Charlotte [2]	779	63	86	990.2	1,019.0	−1.3	49.8	−.8	73	1	58	32	30	41	31	453	39	80	3.23	+.7	1.24	9	6.1	ne.	19	sw.	30	9	4	17	6.4	.0	.0	0
Greensboro [1]	886	6	56	986.5	1,019.3	----	46.9	----	74	1	57	25	7	37	39	542	38	81	3.38	----	1.93	9	7.2	nw.	25	nw.	21	8	10	12	6.1	T	.0	0
Hatteras	11	5	50	1,016.6	1,017.3	−2.3	54.0	−2.3	72	3	60	39	25	48	22	327	47	82	5.80	+2.3	2.01	9	14.2	n.	41	w.	30	12	12	6	4.8	.0	.0	3
Raleigh [1]	376	5	69	1,004.7	1,019.0	−1.3	49.6	−.3	75	1	59	30	25	40	36	462	40	80	3.41	+1.1	1.12	10	9.2	nw.	31	nw.	21	10	7	13	5.7	.0	.0	0
Wilmington	72	73	107	1,015.6	1,018.6	−1.4	54.4	−1.6	76	3	63	32	25	45	29	317	46	82	2.07	+.1	1.06	9	8.6	n.	28	nw.	21	12	11	7	4.6	.0	.0	1
Charleston [2]	48	11	92	1,016.6	1,018.6	−1.4	57.0	−1.1	75	15	65	37	22	49	20	247	46	86	2.01	−.1	1.16	6	9.8	n.	25	ne.	1	14	6	10	4.6	.0	.0	0
Columbia, S. C. [2]	347	70	91	1,005.8	1,019.0	−1.0	53.8	−.2	75	1	63	32	22	44	29	340	43	78	1.29	−.7	.84	6	7.6	ne.	25	sw.	27	11	10	9	4.9	.0	.0	0
Greenville, S. C.	1,040	18	36	981.0	1,019.3	----	50.0	+.4	70	1	58	30	22	41	30	454	39	75	3.15	.0	1.57	7	8.4	ne.	34	n.	5	10	9	11	5.5	.0	.0	1
Augusta [2]	182	62	77	1,012.2	1,019.0	−1.3	54.2	−.3	75	2	64	33	22	44	36	327	41	68	1.59	−.8	.68	8	5.4	nw.	18	w.	30	12	7	11	4.9	.0	.0	2
Savannah [2]	65	73	152	1,016.3	1,019.3	−.7	58.1	−.4	78	1	68	34	22	48	26	214	46	83	1.67	−.4	1.05	7	10.3	n.	33	nw.	29	12	9	9	4.8	.0	.0	0
Jacksonville [2]	43	86	110	1,017.3	1,019.3	.0	61.2	−1.0	79	9	70	39	22	52	26	142	50	82	1.19	−.8	.73	5	8.3	ne.	27	nw.	29	16	8	6	4.1	.0	.0	1
Florida Peninsula							70.0	−1.2										80	0.41	−2.0											3.6			
Key West [2]	21	10	64	1,016.6	1,017.6	+1.0	73.4	−.9	82	9	78	58	23	69	16	1	64	78	.29	−1.9	.18	3	9.5	n.	24	n.	30	20	8	2	3.0	.0	.0	0
Miami [2]	25	242	249	1,016.3	1,017.6	−.4	70.1	−2.4	81	10	75	48	22	65	20	22	59	84	.23	−3.0	.12	4	12.7	ne.	32	nw.	30	16	13	1	3.4	.0	.0	0
Tampa [1]	35	6	43	1,016.9	1,018.6	.0	66.5	−.4	82	4	76	43	22	58	24	45	56	79	.70	−1.0	.56	4	9.3	ne.	31	nw.	29	12	13	5	4.4	.0	.0	1
East Gulf							56.6	+0.6										79	5.48	+2.2											5.6			
Atlanta [1]	1,173	33	72	977.0	1,019.6	−.7	51.0	−.5	73	14	60	31	30	42	34	423	38	70	2.60	−.5	1.19	9	10.9	nw.	32	w.	23	10	7	13	5.9	T	.0	1
Macon [2]	370	79	87	1,005.8	1,019.3	−1.0	53.4	−.8	75	14	64	32	24	43	37	350	42	76	1.87	−.6	.64	8	6.6	nw.	22	s.	27	12	7	11	5.3	.0	.0	1
Thomasville	273	49	58	1,009.8	1,020.7	+.7	58.9	----	78	1	70	37	30	48	30	188	----	----	2.28	----	1.13	7	----	----	----	----	----	13	7	10	----	.0	.0	1
Apalachicola	35	11	51	1,017.3	1,018.6	----	61.4	+.1	79	16	69	37	30	54	24	132	54	80	4.76	+1.7	2.29	5	8.6	e.	28	se.	27	12	8	10	4.9	.0	.0	2
Pensacola	56	54	79	----	1,019.0	−.6	60.7	+.5	81	5	69	34	30	52	..	167	51	80	7.15	+3.4	2.84	8	7.6	n.	22	n.	25	12	7	11	----	.0	.0	4
Anniston	741	9	----	----	----	----	52.5	+.3	80	1	63	29	24	42	38	378	----	----	2.84	−.4	1.53	8	----	nw	----	----	----	13	7	10	----	T	.0	0
Birmingham [1]	700	5	62	993.9	1,019.6	−.4	52.2	+.8	79	1	63	27	28	41	37	390	42	76	2.49	----	1.76	8	8.1	n.	33	se.	25	9	10	11	5.6	T	.0	1
Mobile [2]	57	86	161	1,016.9	1,019.3	−.3	60.5	+1.9	81	1	69	36	30	52	31	174	50	82	6.18	+2.5	3.39	12	6.4	n.	32	n.	25	9	8	13	6.0	.0	.0	3
Montgomery [2]	218	92	105	1,011.5	1,019.6	−.4	56.4	+.6	80	1	66	35	30	47	32	266	45	80	4.78	+1.6	1.70	9	6.9	n.	24	e.	25	13	5	12	5.2	.0	.0	1
Meridian [2]	375	67	92	1,005.4	1,019.6	−.4	54.6	+.4	79	2	64	30	30	45	35	319	46	84	5.75	+2.4	2.37	10	5.6	e.	26	e.	25	11	6	13	5.9	T	.0	1
Vicksburg [2]	247	82	102	1,009.5	1,018.6	−1.4	57.2	+.6	81	2	66	33	30	49	27	257	44	85	6.44	+2.7	2.25	9	8.2	se.	29	se.	8	8	7	15	6.0	.0	.0	3
New Orleans [4]	53	50	84	1,016.6	1,018.6	−.7	63.1	+2.5	81	5	70	41	30	56	21	125	54	78	12.38	+9.2	6.26	12	6.5	se.	17	e.	2	9	9	12	6.0	.0	.0	3
West Gulf							60.3	+1.8										79	4.35	+1.4											6.4			
Shreveport [1]	249	5	64	1,009.1	1,018.6	−1.0	57.6	+2.6	82	8	67	29	27	48	38	262	48	80	4.47	+.8	1.78	11	8.7	se.	26	e.	24	7	10	13	6.0	.0	.0	2
Fort Smith	463	57	82	1,000.7	1,017.6	−2.0	53.6	+2.6	81	1	62	29	22	46	31	365	44	76	2.97	+.1	1.27	6	7.8	e.	27	e.	24	9	6	15	6.1	.0	.0	2
Little Rock [1]	357	26	58	1,005.4	1,019.0	−1.0	52.9	+.8	80	2	62	26	28	44	31	376	43	74	6.08	+1.9	3.47	7	8.2	nw.	24	e.	24	5	10	15	6.6	.0	.0	3
Austin [1]	605	10	41	995.9	1,017.6	----	59.8	+1.3	84	7	69	31	30	50	35	218	50	78	4.55	+2.2	1.89	10	8.0	s.	25	ne.	15	7	6	17	6.8	.0	.0	4
Brownsville [1]	57	5	54	1,013.5	1,015.6	----	68.2	+1.0	87	8	76	44	30	60	29	76	60	82	.65	−1.6	.15	10	10.2	se.	26	s.	24	6	6	18	7.0	.0	.0	2
Corpus Christi [1]	20	4	33	1,015.9	1,016.9	−1.4	65.1	+2.3	88	8	73	38	30	57	31	119	58	81	1.55	----	.45	11	10.7	se.	28	e.	24	7	8	15	6.4	.0	.0	2
Dallas [1]	512	5	45	999.0	1,017.3	----	58.2	+1.8	84	7	68	29	27	49	36	259	48	76	3.81	+1.3	2.44	9	10.1	s.	33	w.	25	8	10	12	6.0	.0	.0	1
Fort Worth [1]	679	35	56	993.2	1,017.6	−1.7	58.0	+3.5	83	7	67	32	27	50	30	260	48	73	3.82	+1.2	2.79	7	11.0	s.	34	sw.	25	7	11	12	6.1	.0	.0	0
Galveston [2]	54	106	114	1,015.6	1,017.6	−1.4	65.1	+1.8	79	8	70	46	27	61	16	109	58	80	2.02	−1.3	.78	11	10.6	se.	26	se.	24	8	7	15	6.3	.0	.0	3
Houston [2]	138	157	190	1,012.5	1,017.6	----	62.7	+1.7	82	8	70	39	27	55	24	147	54	83	6.28	+2.4	2.56	12	10.1	se.	32	nw.	24	6	5	19	6.9	.0	.0	3
Palestine	510	64	72	1,000.3	1,018.3	−1.3	59.2	+2.0	80	1	67	36	27	51	29	229	50	77	7.59	+4.2	3.20	12	7.1	s.	22	se.	2	7	9	14	6.1	.0	.0	4
Port Arthur	34	59	134	1,016.3	1,017.6	----	63.0	+1.9	80	8	70	38	27	56	22	148	54	86	6.29	+3.2	3.24	14	12.5	n.	35	s.	24	6	11	13	6.2	.0	.0	4
San Antonio [1]	693	8	51	992.6	1,017.3	−1.3	60.2	−.1	83	7	70	30	30	51	34	218	51	80	3.66	+1.8	1.31	9	8.4	ne.	34	nw.	24	7	4	19	7.2	.0	.0	5

See footnotes at end of table.

CLIMATOLOGICAL DATA WEATHER BUREAU STATIONS—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	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	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	Total degree days	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	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	Number of days with thunderstorms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.		°F.	°F.		°F.	°F.		°F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
Ohio Valley and Tennessee							**45.3**	**+1.1**										**80**	**2.24**	**−0.9**											**7.6**			
Chattanooga [1]	762	6	66	991.5	1,019.6	−1.1	48.4	+.5	76	2	59	24	30	38	41	495	40	82	1.95	−1.4	1.26	6	7.1	n.	26	nw.	30	8	8	14	6.1	T	.0	0
Knoxville [1]	995	27	53	982.7	1,019.3	+.3	47.0	+.5	77	1	55	25	30	39	35	541	38	80	2.87	−.2	.91	7	6.2	ne.	24	sw.	9	6	8	16	6.8	T	.0	2
Memphis [4]	399	5	86	1,004.1	1,019.0	−1.0	52.0	+1.9	79	3	60	26	30	43	31	402	42	76	4.17	−.1	2.19	10	7.2	e.	21	nw.	23	8	8	14	6.4	T	.0	3
Nashville [1]	546	5	72	999.0	1,019.3	−.7	48.7	−.3	79	1	58	23	30	40	39	494	39	76	2.40	−1.1	1.10	9	8.0	s.	23	sw.	25	5	8	17	6.9	T	T	0
Lexington	989	4	28	982.7	1,020.3	+.3	43.8	−1.0	76	1	51	22	30	36	33	641	36	82	1.60	−1.7	.52	10	----	w.	---	------	---	2	10	18	7.8	T	T	1
Louisville [2]	525	106	120	999.7	1,019.3	−.7	47.2	+.5	78	1	54	22	30	41	30	537	36	73	1.51	−2.1	.65	8	8.7	w.	28	s.	8	1	11	18	8.0	T	.0	0
Evansville [1]	431	11	40	1,003.1	1,019.6	−.4	46.5	+2.1	78	2	54	21	30	39	32	558	37	74	1.67	−2.1	.51	9	8.4	w.	27	w.	30	2	6	22	8.3	T	.0	0
Indianapolis [1]	823	5	54	987.8	1,019.0	−.3	43.0	+2.3	77	1	50	20	30	36	27	660	36	82	2.19	----	.60	12	10.2	se.	31	w.	30	1	7	22	8.3	.4	T	1
Terre Haute [2]	575	68	149	997.6	1,019.3	----	45.4	+1.6	77	1	52	20	30	39	24	595	37	79	2.57	−.7	1.04	15	9.7	w.	25	w.	30	2	6	22	8.2	.8	.5	2
Cincinnati [2]	627	11	51	995.6	1,019.3	−.7	44.8	+2.3	77	3	52	22	30	38	30	611	36	80	2.71	−.1	.69	11	7.3	s.	21	w.	30	5	5	20	7.6	3.0	1.1	1
Columbus [2]	822	90	110	988.5	1,019.0	−.6	43.8	+1.9	74	3	50	22	30	38	24	637	36	80	1.54	−1.2	.48	13	8.9	s.	31	sw.	30	2	5	23	8.4	T	T	0
Dayton [1]	1,003	6	55	981.7	1,019.0	----	42.2	+1.8	75	1	49	20	30	35	30	685	35	80	1.89	−1.0	.64	14	10.9	nw.	34	w.	30	1	8	21	8.3	.2	.2	0
Elkins [1]	1,947	4	45	948.2	1,020.9	.0	40.0	+.7	70	8	50	17	30	30	43	750	34	88	2.34	−.4	.35	18	7.0	nw.	30	w.	30	5	2	23	7.8	3.7	1.6	1
Parkersburg	637	77	84	995.3	1,019.3	−.7	44.0	+.2	74	2	52	24	30	36	34	629	36	80	1.85	−.7	.44	13	6.4	se.	22	sw.	30	5	5	20	7.6	.5	.1	0
Pittsburgh [1]	842	39	54	986.8	1,018.3	−1.0	42.6	+1.4	72	1	49	19	30	36	26	668	36	82	2.35	+.1	.51	17	9.7	nw.	27	sw.	9	3	8	19	7.4	T	T	1
Lower Lakes							**41.5**	**+2.9**										**81**	**2.35**	**−0.5**											**8.4**			
Buffalo [1]	768	34	96	988.5	1,017.6	.0	42.0	+3.5	74	1	48	23	30	36	29	695	35	82	1.44	−1.6	.45	14	10.9	nw.	40	w.	30	3	4	23	8.4	3.9	2.0	0
Canton	448	10	61	1,000.0	1,016.9	----	36.8	+1.4	70	1	43	18	13	30	25	859	31	82	3.05	−.1	1.52	11	7.5	n.	21	e.	30	4	4	22	8.1	18.7	14.0	0
Oswego	335	71	85	1,004.1	1,016.9	−.7	40.6	+1.7	70	1	46	25	26	35	20	733	34	77	2.70	−.7	1.16	18	9.9	se.	29	n.	10	4	4	22	8.3	7.7	5.2	2
Rochester [1]	523	5	69	997.6	1,017.3	−.3	40.7	+4.0	76	1	47	24	30	34	29	726	34	84	2.29	−.2	.89	19	8.5	nw.	37	w.	30	2	4	24	8.5	7.7	2.7	0
Syracuse [1]	596	5	57	994.6	1,017.3	−.7	40.6	+3.4	71	2	47	26	20	34	26	734	34	83	4.23	+1.2	2.07	21	8.6	sw.	32	sw.	30	2	5	23	8.3	25.4	17.0	0
Erie [2]	714	57	81	990.9	1,018.0	.0	44.9	+3.5	75	1	50	27	26	39	22	603	36	82	2.09	−1.2	.46	17	8.2	s.	26	w.	30	1	7	22	8.3	1.7	.2	3
Cleveland [1]	762	27	54	989.5	1,018.0	−.3	43.2	+4.2	74	1	50	22	30	36	30	656	34	78	1.85	−.8	.42	16	10.9	nw.	35	sw.	30	1	6	23	8.2	3.9	2.0	1
Sandusky	629	5	67	994.2	1,018.0	−.6	43.8	+2.7	76	1	50	24	30	38	23	636	---	---	2.28	−.1	1.18	11	9.0	w.	27	nw.	30	1	7	22	8.7	.3	.2	1
Toledo [1]	628	5	47	994.6	1,018.6	+.3	41.0	+2.3	76	1	48	21	6	34	28	719	34	82	1.82	−.6	.76	10	10.0	s.	28	sw.	30	0	6	24	8.9	T	T	2
Fort Wayne [1]	857	5	33	986.1	1,018.3	----	40.8	+2.0	75	1	47	21	6	34	28	724	36	86	2.50	−.4	.83	13	8.4	nw.	26	nw.	30	0	8	22	8.3	.7	T	1
Detroit [1]	730	5	78	990.9	1,018.6	+.6	42.6	+3.4	75	1	48	25	25	37	21	673	34	76	1.63	−.8	.67	11	9.4	nw.	29	nw.	30	1	4	25	8.8	T	T	0
Upper Lakes							**39.0**	**+4.5**										**84**	**2.50**	**+0.1**											**8.7**			
Alpena	609	5	89	994.9	1,018.0	+1.7	39.0	+4.6	70	1	43	21	30	35	23	778	34	87	3.25	+.6	.77	18	11.4	nw.	27	se.	26	2	4	24	8.6	9.0	6.0	0
Escanaba	612	51	72	994.9	1,018.3	+1.4	38.2	+5.1	60	2	43	21	6	34	25	800	34	86	2.89	+.8	.78	12	11.2	n.	34	n.	16	0	6	24	8.9	5.6	5.6	2
Grand Rapids [2]	707	70	244	991.2	1,017.6	.0	42.0	+3.6	77	1	48	22	30	37	23	693	34	83	1.61	−1.2	.45	14	9.2	se.	32	sw	1	1	4	25	8.5	4.9	3.0	1
Lansing [2]	878	5	90	985.1	1,018.0	----	39.6	+2.1	74	1	46	21	6	34	27	761	32	80	1.91	−.6	.55	13	7.8	s.	26	s.	2	2	5	23	8.3	2.4	.7	0
Marquette	734	44	73	989.8	1,018.0	+1.4	37.8	+4.5	73	1	42	21	30	34	27	814	34	88	4.41	+1.5	1.10	21	8.4	n.	26	sw.	2	1	1	28	9.4	11.8	9.8	0
Sault Sainte Marie [1]	614	11	52	995.3	1,018.6	+2.3	34.6	+4.2	64	1	40	15	30	29	23	913	30	86	3.28	+.3	.79	16	10.9	e.	28	n.	30	3	4	23	8.4	2.5	.4	0
Chicago [1]	673	5	36	992.6	1,018.0	−.3	42.7	+5.0	78	1	49	19	30	36	28	670	34	76	1.31	−1.2	.32	17	10.2	n.	27	nw.	30	2	6	22	8.3	1.0	.3	1
Green Bay	617	90	123	993.9	1,017.3	.0	40.3	+6.3	71	1	45	20	30	35	27	739	34	82	2.43	+.3	.82	12	9.8	se.	30	nw.	30	1	4	25	8.9	1.4	.7	2
Milwaukee [1]	681	33	66	991.9	1,017.3	−.3	41.4	+5.5	77	1	48	18	30	35	32	709	34	78	1.54	−.2	.46	13	12.4	nw.	36	sw.	2	2	2	26	8.7	.8	.8	5
Duluth [2]	1,133	5	47	974.9	1,017.3	.0	34.1	+4.1	61	2	38	4	30	30	27	924	30	92	2.40	+1.0	.59	17	11.2	ne.	33	nw.	26	2	1	27	9.2	4.1	1.3	2
North Dakota							**28.0**	**+1.6**										**90**	**2.02**	**+1.4**											**8.3**			
Fargo [1]	940	5	43	981.4	1,016.9	−1.4	32.9	+5.8	63	1	38	−1	30	28	21	965	30	92	1.85	+1.0	.60	12	11.9	n.	34	n.	29	2	2	26	8.8	5.3	4.1	1
Bismarck [1]	1,677	5	43	955.6	1,018.0	−.3	26.5	.0	64	1	33	−9	30	20	26	1,155	24	89	2.56	+2.0	.99	9	11.2	nw.	33	nw.	21	2	4	24	8.3	7.7	.8	0
Devils Lake	1,478	11	44	962.8	1,018.3	+.3	26.8	+2.3	57	1	31	−2	30	22	25	1,146	24	93	2.36	+1.6	1.02	13	9.6	n.	27	ne.	13	2	4	24	8.7	9.3	3.5	0
Grand Forks [1]	832	4	41	986.5	1,018.0	----	30.2	----	57	1	35	0	30	26	23	1,041	28	---	2.39	----	1.46	14	----	n.	---	------	---	3	3	24	----	3.4	2.4	1
Williston	1,878	42	50	948.9	1,018.3	+.3	25.6	−1.6	51	1	33	−1	030	19	29	1,181	22	87	1.33	+.8	.61	8	7.3	se.	25	nw.	21	4	8	18	7.4	7.3	1.9	0
Upper Mississippi							**42.3**	**+4.2**										**81**	**1.86**	**−0.2**											**8.4**			
Minneapolis-St-Paul [1]	919	43	74	982.1	1,016.6	−1.4	37.8	+5.4	75	1	43	9	30	33	29	819	32	84	2.10	+.8	1.41	14	11.1	se.	29	se.	1	0	6	24	8.7	2.5	1.2	4
Springfield, Minn	1,025	4	42	978.3	1,016.6	----	36.4	----	73	1	42	3	30	31	32	860	32	---	1.56	----	.81	10	----	nw.	---	------	---	2	4	24	----	2.7	1.2	1
La Crosse [1]	714	5	29	989.8	1,016.6	−1.7	39.2	+5.5	73	1	45	18	29	34	24	774	34	84	.85	−.7	.30	14	8.7	se.	26	nw.	30	0	6	24	8.8	1.8	T	3
Madison [2]	974	70	78	981.0	1,017.3	−.7	40.2	+5.0	74	1	45	17	30	35	26	746	34	80	3.32	+1.5	1.42	11	8.4	se.	22	nw.	30	2	6	22	8.3	2.9	.9	3
Charles City	1,015	10	51	979.7	1,017.6	−1.0	38.8	+5.8	75	1	44	10	30	33	26	786	---	---	.77	−.8	.27	12	7.0	se.	29	s.	1	1	3	26	8.8	1.6	.9	2
Davenport [1]	606	6	50	995.3	1,018.0	−.6	42.5	+5.0	77	1	48	19	30	37	27	674	36	81	2.98	+1.2	1.16	12	10.1	nw.	31	nw.	30	1	5	24	8.6	.3	T	7
Des Moines [2]	860	5	99	984.8	1,016.6	−2.0	41.7	+3.3	76	1	47	13	30	36	23	698	34	82	1.18	−.2	.63	12	10.4	se.	27	se.	1	2	5	23	8.5	4.5	2.0	2
Dubuque	699	6	79	992.2	1,017.3	−1.0	40.6	+3.6	75	1	46	16	30	35	25	734	35	79	1.93	+.2	.82	12	5.9	nw.	17	se.	25	1	7	22	8.4	3.0	.5	3
Burlington [1]	702	4	36	991.5	1,018.0	−1.0	41.8	+3.2	76	2	48	15	30	36	25	699	36	82	2.74	+.7	.89	15	11.3	nw.	29	nw.	15	2	1	27	8.7	.2	T	5
Cairo	357	5	99	1,005.8	1,019.3	−.7	49.6	+2.3	77	2	56	23	30	43	26	470	---	---	2.60	−1.1	1.04	7	8.4	s.	28	s.	8	5	6	19	7.5	.0	.0	2
Peoria [1]	609	6	26	995.9	1,019.0	.0	43.0	+6.5	76	2	49	18	30	38	27	661	37	82	1.33	−1.0	.41	10	10.2	s.	26	s.	1	2	4	24	8.6	.3	T	3
Springfield, Ill. [2]	636	5	191	994.9	1,018.3	−1.0	45.2	+3.0	77	1	51	19	30	40	25	599	38	84	1.37	−1.2	.41	11	11.9	s.	27	s.	2	2	2	26	8.7	.5	.4	3
St. Louis [2]	568	35	303	997.3	1,018.6	−.7	46.8	+1.4	80	1	53	16	30	41	28	552	37	72	1.11	−1.7	.36	7	12.1	nw.	33	sw.	2	3	7	20	7.7	.3	T	2
Missouri Valley							**41.6**	**+2.1**										**80**	**1.98**	**+0.5**											**7.6**			
Columbia, Mo. [2]	784	6	66	988.8	1,017.6	−1.4	46.1	+2.0	79	1	53	14	30	39	28	579	38	78	1.83	−.4	.72	11	8.2	w.	21	s.	7	3	3	24	8.3	T.	.0	3
Kansas City [1]	963	39	76	981.4	1,016.9	−2.1	46.9	+3.2	78	1	54	12	30	40	33	556	37	71	2.94	+.7	1.92	9	11.5	nw.	34	sw.	7	5	7	18	7.3	T.	.0	2
St. Joseph [2]	967	11	49	981.4	1,016.9	----	44.8	+3.3	76	1	52	11	30	38	32	612	37	78	2.26	+.7	.83	9	10.0	nw.	27	w.	14	11	6	13	5.8	1.1	.1	1
Springfield, Mo [1]	1,324	5	67	969.9	1,018.0	−1.3	46.4	+1.4	76	1	54	16	30	39	29	558	38	80	1.80	−1.0	.87	11	11.9	s.	32	s.	24	4	7	19	7.3	T.	.0	5
Topeka	987	65	87	980.7	1,016.9	----	46.4	+3.6	79	13	54	11	30	39	28	565	37	75	2.24	+.7	.76	10	10.0	nw.	29	sw.	2	6	8	16	6.9	.2	.0	2
Lincoln [2]	1,189	11	81	972.9	1,016.6	−2.0	40.8	+1.7	77	1	48	5	30	33	28	731	32	80	2.57	+1.5	1.30	8	9.3	nw.	32	nw.	29	2	5	23	8.2	6.6	2.3	0
Omaha [1]	1,105	5	68	976.0	1,016.9	−1.7	40.4	+2.1	74	13	47	5	30	34	30	738	34	82	1.47	+.4	.80	5	12.0	nw.	33	nw.	15	1	4	25	8.6	5.0	3.1	1
Valentine	2,598	46	54	922.8	1,016.6	−2.0	33.6	−1.0	73	1	44	−1	30	24	36	945	26	78	2.81	+2.2	1.57	9	8.7	w.	32	nw.	14	4	11	15	7.0	3.6	2.6	0
Sioux City [1]	1,138	5	40	974.6	1,016.9	−1.7	37.2	+3.2	71	13	45	3	30	30	31	833	32	84	.65	−.4	.47	4	10.7	nw.	29	nw.	15	3	3	24	8.2	2.8	1.5	0
Huron [1]	1,301	5	41	968.5	1,016.9	−1.7	33.4	+1.9	71	1	41	−1	30	26	29	949	30	90	1.18	+.6	.71	10	12.1	nw.	37	se.	24	4	2	24	8.2	2.8	1.3	0

See footnotes at end of table.

CLIMATOLCGICAL DATA FOR WEATHER BUREAU STATIONS—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	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	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	Total degree days	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	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	Number of days with thunderstorms
	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.		°F.	°F.		°F.	°F.		°F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
Northern Slope							32.6	−0.7										79	1.06	+0.4											7.2			
Billings [1]	3,570	16	40	890.3	1,016.9	----	35.2	−.2	62	10	44	11	29	26	29	893	27	76	.29	----	.23	2	9.9	sw.	25	nw.	7	6	7	17	6.8	2.7	.0	0
Havre	2,507	11	67	926.5	1,018.6	+2.3	25.2	−6.0	57	8	33	−8	29	17	35	1,195	22	90	.54	−.1	.17	8	6.6	e.	27	sw.	8	3	8	19	7.8	5.6	1.6	0
Helena [1]	4,124	5	43	872.7	1,018.6	−.7	30.8	−1.0	56	9	41	5	20	21	32	1,026	24	77	.47	.0	.34	4	5.4	w.	27	w.	24	7	2	21	6.9	3.3	T	1
Missoula [1]	3,205	4	28	902.1	1,019.0	----	35.2	+1.6	54	5	42	19	21	29	23	896	30	86	.44	−.8	.24	6	5.0	se.	19	nw.	7	1	5	24	8.4	.8	.0	0
Kalispell	2,973	48	56	912.0	1,016.9	−1.4	33.4	+1.0	52	7	38	19	14	29	23	945	30	86	1.47	+.1	.72	14	4.0	w.	17	n.	11	0	2	28	9.3	10.2	1.0	0
Miles City [1]	2,371	5	78	931.9	1,018.6	+.3	30.1	----	59	1	39	−2	29	22	31	1,045	26	88	.35	----	.16	4	---	nw.	---	------	---	5	5	20	7.5	1.4	.0	0
Rapid City [1]	3,259	5	63	900.1	1,016.9	−1.7	33.0	−1.6	69	11	42	1	29	24	37	961	26	83	2.09	+1.6	1.09	5	15.6	nw.	54	nw.	14	6	10	14	6.5	9.7	.0	1
Cheyenne [1]	6,094	5	40	810.4	1,015.9	−2.4	35.8	+1.0	64	9	49	4	26	22	44	875	20	58	.90	+.4	.88	4	11.3	nw.	42	nw.	13	8	9	13	6.1	6.7	2.1	0
Lander	5,352	60	68	833.7	1,019.0	−.3	25.4	−4.9	61	5	36	−3	20	15	32	1,189	18	74	1.46	+.9	.87	3	3.9	sw.	27	sw.	1	7	10	13	6.3	16.5	8.6	0
Sheridan [1]	3,790	5	38	883.2	1,017.3	--	34.4	+1.7	60	5	45	11	17	23	34	919	26	78	1.11	+.5	.41	7	6.9	nw.	38	nw.	14	7	4	19	6.9	7.6	.9	0
North Platte [2]	2,821	11	51	915.0	1,015.9	−2.7	37.6	+1.0	76	1	49	1	30	26	42	824	27	77	1.08	+.6	.77	7	7.5	nw.	24	w.	13	6	3	21	7.5	4.0	1.5	0
Middle Slope							45.8	+2.3										69	1.52	+0.4											6.0			
Denver [2]	5,292	106	113	835.4	1,014.9	−3.1	42.0	+2.2	73	10	53	13	30	31	36	688	22	54	.44	−.1	.36	6	7.0	s.	27	n.	24	7	12	11	5.4	4.3	T	1
Pueblo [1]	4,690	5	36	855.1	1,015.9	−1.7	39.8	+1.5	72	11	55	6	26	24	49	759	20	52	.19	−.2	.19	1	7.5	w.	45	n.	25	10	7	13	5.5	T	T	1
Concordia	1,392	50	58	965.8	1,016.6	−2.0	43.2	+1.8	76	1	52	9	30	34	36	653	34	76	1.94	+1.0	1.36	6	8.6	nw.	26	nw.	15	5	8	17	7.0	T	.0	0
Dodge City [1]	2,509	5	58	926.5	1,015.6	−2.7	44.4	+1.8	80	1	56	10	30	33	41	621	33	72	.93	+.2	.59	7	14.6	nw.	45	nw.	25	12	5	13	5.5	.1	.0	1
Wichita [1]	1,358	6	64	967.2	1,015.9	−3.0	47.5	+2.7	78	1	55	15	30	40	30	525	39	76	1.93	+.5	.54	8	14.6	nw.	43	s.	1	9	5	16	6.3	T	.0	3
Oklahoma City [2]	1,214	10	47	972.9	1,016.9	−1.7	52.0	+3.2	80	1	60	21	30	44	29	404	42	76	2.39	+.5	.99	6	9.2	s.	24	s.	1	10	6	14	5.7	.0	.0	3
Tulsa [1]	674	10	60	992.2	1,016.6	----	51.8	+2.9	79	1	60	20	30	43	34	413	42	74	2.84	+.7	.86	9	11.4	se.	45	sw.	13	7	10	13	6.5	.0	.0	4
Southern Slope							53.3	+2.2										70	0.88	−0.2											5.5			
Abilene [1]	1,738	4	59	955.0	1,016.3	−2.0	56.0	+3.4	85	13	66	27	30	46	36	314	45	74	1.37	.0	.52	7	12.4	s.	37	sw.	25	8	9	13	5.8	.0	.0	1
Amarillo [1]	3,676	5	42	888.9	1,015.9	−1.7	47.2	+3.4	81	1	59	15	30	36	42	537	32	68	.75	−.2	.36	4	13.9	sw.	44	nw.	25	12	6	12	5.4	1.0	.0	2
Del Rio	960	63	71	982.1	1,015.9	−1.7	61.2	+1.2	83	7	70	33	27	53	32	190	50	72	1.15	−.1	.88	6	8.1	se.	27	nw.	8	8	7	15	6.3	.0	.0	1
Roswell	3,566	75	85	893.0	1,015.9	−1.0	48.7	+.6	80	1	62	20	29	35	47	485	35	64	.26	−.6	.14	5	7.1	s.	34	w.	6	14	9	7	4.5	.0	.0	0
Southern Plateau							50.6	−1.3										64	1.18	+0.5											4.7			
El Paso [1]	3,778	39	85	885.9	1,014.6	−1.3	51.4	+.3	82	4	63	27	29	40	32	412	34	56	.41	−.1	.27	4	9.8	n.	54	w.	25	13	10	7	4.5	T	.0	0
Albuquerque [1]	5,314	5	45	837.5	1,014.9	----	43.0	−.3	72	4	54	20	29	32	34	660	28	58	.56	+.1	.45	4	9.7	se.	52	s.	5	9	11	10	5.4	T	.0	2
Flagstaff	6,907	36	51	788.7	1,017.3	−.7	35.0	−2.2	60	2	47	6	25	23	39	901	24	69	1.96	+.7	.69	10	----	nw.	---	------	---	10	8	12	----	9.7	T	2
Phoenix [2]	1,107	39	87	974.9	1,013.9	−1.3	58.0	−1.7	86	3	70	33	26	46	33	234	43	70	1.13	+.4	.39	8	5.6	e.	31	w.	12	11	13	6	4.9	.0	.0	2
Tucson [1]	2,555	5	39	925.2	1,013.5	----	55.9	−1.8	87	4	68	31	26	43	33	287	40	66	1.78	+1.0	.64	8	----	se.	---	------	---	12	11	7	4.8	.0	.0	3
Yuma	142	9	54	1,009.1	1,013.5	−1.7	60.2	−2.2	86	3	71	38	26	49	31	167	46	64	1.22	+.9	.39	7	4.9	n.	25	w.	5	17	7	6	3.7	.0	.0	1
Middle Plateau							37.0	−2.0										73	1.59	+0.9											5.2			
Reno [1]	4,527	20	52	861.8	1,016.9	−2.7	38.1	−1.6	67	3	50	16	25	26	42	804	28	70	1.58	+.9	.73	8	6.1	nw.	43	s.	3	8	10	12	6.2	1.3	.0	0
Tonopah	6,090	9	20	812.1	1,015.2	----	34.6	−6.6	60	2	42	17	15	28	22	909	27	74	1.67	+1.4	1.03	5	----	w.	---	------	---	8	10	12	---	6.1	.0	0
Winnemucca	4,339	5	56	867.9	1,018.3	−2.4	34.0	−4.4	58	1	42	13	25	26	32	932	28	82	1.78	+1.1	.52	11	7.5	ne.	29	s.	10	3	11	16	7.5	6.0	T	0
Modena	5,473	10	46	832.7	1,015.6	−3.0	35.6	−.8	67	3	46	13	26	25	40	886	----	---	2.09	+1.5	.86	6	8.5	sw.	28	s.	4	12	9	9	5.3	5.0	.0	0
Salt Lake City [1]	4,227	32	58	867.6	1,018.0	−2.0	38.4	−1.0	64	3	46	12	25	30	28	797	30	76	1.44	+.3	.54	8	7.9	s.	34	s.	12	8	2	20	6.9	6.2	T	0
Grand Junction	4,602	60	68	859.5	1,015.2	−3.4	41.5	+2.2	70	4	51	18	26	32	29	707	28	61	.98	+.4	.58	9	5.4	se.	27	s.	5	9	12	9	5.5	T	.0	1
Northern Plateau							37.0	−1.3										82	1.42	0.0											8.1			
Baker [2]	3,471	36	54	895.7	1,018.6	−2.7	34.8	−1.2	56	5	42	14	28	27	27	907	28	82	1.01	.0	.65	8	5.3	se.	17	sw.	1	3	8	19	7.7	3.3	.0	0
Boise [1]	2,739	5	49	921.4	1,019.0	−2.7	38.7	−1.0	59	3	45	22	28	32	20	786	32	77	1.60	+.3	.52	10	8.9	se.	33	w.	4	1	7	22	8.4	T	T	1
Pocatello [1]	4,478	5	31	862.9	1,019.6	−1.1	32.5	−1.6	55	9	40	8	29	26	28	976	27	82	1.82	+.8	.59	12	7.6	sw.	34	s.	10	2	5	23	8.5	6.2	.5	0
Spokane [1]	1,929	27	42	947.5	1,017.6	−1.7	36.8	−1.7	54	8	42	19	17	31	23	846	32	85	1.64	−.4	.56	13	5.1	ne.	21	s.	23	2	4	24	8.6	3.9	T	0
Walla Walla	991	57	65	981.4	1,017.6	−2.7	40.8	−2.0	64	8	47	22	16	35	23	729	----	---	1.16	−.9	.42	13	4.9	sw.	22	w.	23	2	5	23	8.1	.0	.0	0
Yakima	1,076	58	67	977.7	1,016.9	----	38.4	−.5	58	5	45	23	16	31	26	802	----	---	1.28	+.4	.78	12	3.7	nw.	15	sw.	1	4	10	16	7.3	.7	.0	0
North Pacific Coast							46.7	+0.7										82	6.68	+0.3											7.9			
North Head	211	5	55	1,005.4	1,012.9	−4.7	48.6	+.4	58	4	53	38	15	44	20	493	43	81	10.82	+2.4	2.52	20	16.5	e.	54	s.	7	2	3	25	8.3	.0	.0	0
Seattle [2]	125	90	321	1,009.5	1,013.5	−3.8	47.8	+1.0	61	2	53	32	16	42	20	515	40	83	4.44	−.6	1.01	18	9.3	se.	35	s.	23	2	6	22	8.3	.0	.0	0
Tacoma	194	172	201	1,006.8	1,013.5	−3.8	46.0	+1.4	60	22	52	32	28	40	20	568	----	---	4.67	−1.6	1.02	18	7.2	s.	30	sw.	23	4	7	19	7.4	.0	.0	1
Tatoosh Island	86	9	61	1,008.5	1,011.2	−3.7	48.7	+2.8	56	3	52	43	29	46	10	489	44	84	13.44	+1.5	2.35	22	18.7	e.	56	e.	3	1	4	25	8.7	.0	.0	1
Medford [1]	1,329	29	58	968.2	1,016.6	----	43.2	−.7	61	3	53	22	19	34	32	654	36	80	3.14	+.8	.76	13	----	nw.	---	------	---	4	9	17	7.3	.0	.0	0
Portland, Oreg. [2]	154	68	106	1,009.8	1,015.2	−4.1	47.2	+.4	59	4	52	33	15	43	18	535	40	82	5.80	−.3	1.92	16	7.0	e.	18	sw.	26	4	10	16	6.8	.0	.0	0
Roseburg	510	45	76	997.3	1,015.9	−4.1	45.2	−.7	62	3	52	31	15	39	21	594	40	84	4.45	−.2	.99	15	3.3	s.	16	sw.	23	0	5	25	8.4	.0	.0	0
Middle Pacific Coast							52.6	−1.1										79	6.30	+3.2											6.0			
Eureka	60	72	88	1,014.2	1,016.3	−3.3	52.0	+.9	66	28	58	38	14	46	21	389	46	82	9.11	+3.9	1.90	18	6.6	se.	30	nw.	8	10	2	18	6.2	.0	.0	0
Red Bluff [1]	----	6	26	1,003.7	1,015.9	----	50.8	−3.0	69	21	59	34	17	43	32	421	42	72	5.98	----	1.25	14	8.4	nw.	30	se.	8	8	5	17	6.6	.0	.0	0
Sacramento	66	92	115	1,014.2	1,016.3	−2.7	51.7	−1.9	69	1	59	37	21	44	24	403	44	81	3.54	+1.7	.87	12	6.4	se.	21	s.	3	10	4	16	6.1	.0	.0	1
San Francisco [2]	155	112	132	1,010.8	1,015.9	−3.1	55.7	−.6	66	22	60	48	28	51	17	273	48	82	6.24	+3.9	1.53	12	6.6	n.	20	sw.	10	8	10	12	5.7	.0	.0	0
South Pacific Coast							56.7	−0.8										73	3.34	+2.4											5.6			
Fresno [1]	327	5	34	1,004.4	1,016.3	−1.7	51.4	−1.0	74	3	60	34	25	42	27	407	46	80	1.37	+.4	.58	7	4.2	se.	19	nw.	24	5	10	15	6.7	.0	.0	0
Los Angeles	338	223	250	1,003.7	1,015.2	−1.4	59.0	−1.9	77	22	67	46	19	51	24	182	45	65	3.72	+2.5	1.39	8	6.8	w.	27	e.	13	13	8	9	4.7	.0	.0	3
San Diego [1]	87	20	55	1,012.5	1,015.2	−1.4	59.8	+.5	72	22	68	44	26	51	27	157	50	74	4.93	+4.2	2.44	8	5.9	w.	37	sw.	11	10	8	12	5.4	.0	.0	1
West Indies																																		
San Juan, P. R.	82	10	54	------	------	----	----	----	---	---	---	---	---	---	---	----	----	---	----	----	----	---	----	------	---	------	---	---	---	---	----	----	----	----
Panama Canal																																		
Balboa Heights	118	6	92	------	[3]1,009.5	0.0	79.6	+.6	91	26	86	70	15	73	17	0	74	[3]88	7.76	−2.4	----	20	5.2	nw.	20	nw.	6	0	17	13	7.0	.0	.0	5
Cristobal	27	47	97	------	[3]1,009.8	−.4	80.2	+.8	89	3	85	71	16	76	15	0	74	[3]83	16.41	−5.8	----	23	9.6	ne.	31	ne.	30	3	15	12	6.7	.0	.0	3

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS—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	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Mean	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	Total degree days	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Day 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	Number of days with thunderstorms
Alaska	Ft.	Ft.	Ft.	Mbs.	Mbs.	Mbs.	°F.	°F.	°F.		°F.	°F.		°F.	°F.		°F.	%	In.	In.	In.		Mi.								0-10	In.	In.	
Anchorage [1]	132	5	44	997.3	1,002.4	-----	22.4	+.1	49	16	30	-10	13	15	30	1,276	20	81	.33	-.7	.25	5	4.8	ne.	22	s.	16	6	5	19	7.1	5.4	1.5	0
Fairbanks [1]	455	5	63	991.5	1,009.5	-----	4.4	+1.0	30	1	14	-26	13	-5	31	1,817	3	85	.21	-.5	.12	6	4.4	n.	14	n.	8	8	3	19	6.5	4.1	4.8	0
Juneau [1]	80	6	32	1,001.7	1,004.7	-----	34.1	-----	48	15	39	20	11	30	16	925	32	88	7.52	-----	-----	16	6.5	n.	34	se.	20	1	6	23	8.5	16.7	2.0	0
Nome	43	25	56	1,008.8	1,009.5	-----	14.4	-1.5	31	1	20	-10	25	8	24	1,580	10	74	.41	-.6	-----	5	9.7	ne.	37	ne.	13	9	8	13	5.7	4.4	1.3	0
Bethel	28	7	31	1,002.4	1,003.7	-----	13.8	-3.2	36	18	20	-10	25	8	20	1,540	13	89	1.09	+.2	-----	11	10.7	n.	31	------	13	4	8	18	7.1	6.4	4.7	0
Gambell	32	5	32	1,010.5	1,011.9	-----	18.0	-5.2	34	12	21	-1	28	15	15	1,410	16	88	.52	-.5	-----	12	28.0	nne.	62	nne.	15	4	3	23	8.0	5.2	3.4	0
Ketchikan	75	69	90	1,005.1	1,006.1	-----	42.8	-2.6	53	15	47	30	27	38	15	665	39	84	16.02	-4.2	3.07	21	7.4	ne.	34	s.	14	2	3	25	8.7	T	.0	0
Kotzebue	20	5	31	1,013.2	1,013.5	-----	2.8	-3.0	21	4	9	-23	26	-3	21	1,869	0	84	.13	-.2	-----	2	10.0	ne.	38	e.	10	13	9	8	4.4	2.1	6.5	0
McGrath	331	5	31	993.9	1,007.1	-----	5.4	-----	28	1	12	-32	30	-2	29	1,788	4	86	.62	-----	.20	12	----	nw.	---	------	---	5	6	19	7.6	10.4	9.4	0
Northway	1,718	5	32	945.8	1,011.5	-----	.5	-----	28	1	7	-42	13	-6	28	1,931	0	87	.27	-----	.09	8	3.0	s.	14	------	8	1	4	25	8.5	6.1	8.0	0
Summit	2,405	5	30	916.4	1,006.1	-----	11.0	-----	40	15	17	-17	12	5	57	1,618	8	82	1.32	-----	.87	7	----	ne.	---	------	---	9	10	11	5.7	16.3	31.7	0
Hawaii																																		
Honolulu	38	86	100	1,015.2	1,015.9	-----	75.6	+1.1	81	1	80	65	26	72	15	0	---	---	1.06	-2.8	.64	16	10.1	e.	21	ne.	3	14	12	4	4.4	.0	.0	1

LATE REPORTS FOR OCTOBER, 1944

Alaska																																		
Bethel	28	7	31	1,002.0	1,003.7	-----	32.4	+.9	48	2	37	13	27	28	21	1,009	30	85	2.09	+.4	-----	18	12.8	n.	31	------	20	2	7	22	7.7	.9	.1	0
Gambell	32	5	32	1,006.8	1,007.8	-----	31.3	-.3	46	2	34	23	11	28	13	1,045	28	80	1.03	-.6	-----	13	21.0	n.	59	s.	22	2	4	25	8.0	2.1	.0	0
Ketchikan	75	69	90	1,010.8	1,011.5	-----	50.8	+4.1	64	10	56	36	20	46	21	442	46	84	34.27	+14.2	6.77	24	8.0	se.	34	s.	26	3	3	25	8.5	.0	.0	0
Kotzebue	20	5	31	1,005.1	1,005.4	-----	26.7	+2.0	43	2	31	1	27	22	22	1,187	24	86	1.22	+.7	-----	11	13.0	ne.	43	se.	22	5	7	19	7.0	8.8	4.7	0
McGrath	331	5	31	991.5	1,004.4	-----	30.0	-----	47	3	36	1	29	24	19	1,085	26	82	1.31	-.4	-----	9	----	n.	---	------	---	1	3	27	9.0	8.7	2.6	0
Northway	1,718	5	32	944.1	1,008.1	-----	26.2	-----	48	10	33	-5	28	20	24	1,203	22	82	.57	-----	.22	11	4.6	e.	28	------	24	1	7	23	8.4	11.5	6.4	0
Summit	2,405	5	30	917.7	1,005.8	-----	26.6	-----	42	2	32	3	28	21	22	1,188	24	86	2.58	-----	.67	18	----	e.	---	------	---	2	9	20	7.7	36.1	24.2	0

[1] Data are airport records.
[2] Barometric data (adjusted to old city elevation) and hygrometric data from airport; otherwise city office records.
[3] Observations taken bihourly.
[4] Pressure (adjusted to old city elevation), temperature, and hygrometric data from airport; otherwise city office records.
[5] Temperature and precipitation from city records, other data from airport.

NOTE.—Except as indicated by notes 1, 2, 4, and 5 data in table are city office records.

SEVERE LOCAL STORMS, NOVEMBER 1944

[Compiled by Mary O. Souder]

[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 United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Pomona, Calif., southeast portion.	Nov. 11	9 p.m., P.W.T.	50	0	$50,000-100,000	Mild tornado	Storm had many of the characteristics of a tornado and could probably be classified as a mild one. Storm originated 2 miles southeast of the center of Pomona. Trees uprooted, buildings overturned or demolished. On 1 ranch the front porch of the main house was demolished by a falling tree, several outbuildings blown over or destroyed, and numerous walnut trees uprooted. At still another place on the same ranch 2 barns, 1 old and 1 comparatively new, were destroyed, but a lean-to between the 2 barns was unharmed and a pile of turkey feathers 30 feet to the west of 1 of the barns was not disturbed. About one-half mile east-northeast of this ranch, walnut trees on a 4-acre plot were uprooted and about 2½ miles east-northeast a long garage, opening to the south, was blown over and the other half unharmed. The 250-pound concrete block on which the garage had been resting was carried 26 feet. At another point 1 orange tree in the center of a large grove was twisted off at the trunk, but none of the nearby trees were damaged. Elsewhere along the storm path the damage was confined almost entirely to uprooted trees, most of them large walnut or shade trees which had rather shallow roots. Path 8 miles long.
South Dakota, western portion.	13-14	----------	---------	-----	----------	Wind and snow	Snowfall of from 6 to 24 inches blocked highways in the Black Hills area so transportation was at standstill and some schools closed.
Collinsville, Okla	25	4:13 p. m	200	0	35,000	Tornado	About 25 houses damaged or destroyed; 5 persons injured; path 1½ miles long.
Raton, N. Mex	25	----------	---------	-----	10,000-15,000	Wind	Property damaged. Wind velocity recorded at 47 miles per hour at the airport and 90 miles in the city.
New York State	29-30	----------	---------	-----	750,000	Snow	Heavy snow fell in central and northern portions of the State reaching a depth in excess of 2 feet at Syracuse which was the area of the greatest fall. Motor traffic was stalled on all highways radiating from the city. In some northern areas there were drifts of from 6 to 7 feet deep. Communication and electric power transmission lines were broken. Damage estimated to telephone lines alone.
Rhode Island, southern portion, to Calais, Maine.	30	p. m	---------	0	----------	Gale and heavy rain	The storm swept up the coast from Hatteras, struck Rhode Island savagely, did heavy damage to Cape Cod and Boston's north shore, then dashed against a 15-mile stretch of the Maine shore in what observers called the worst storm in half a century. It was the third bad storm in as many months. Train service on the New Haven R. R., threatened by high water at bridges along the shore route to New York, but no trains were canceled. Rampant surface water and record-breaking tides at noon along the New Hampshire and Maine coasts disrupted Boston and Maine R. R. schedules. A 14-foot tide inundated most Boston wharves along Atlantic Avenue and South Boston waterfront compelling personnel of business firms to vacate first-floor locations. Autoists forced to detour the Fox Hill Bridge connecting Lynn and Saugus and scores of cellars along Surfside Road, East Lynn, were flooded. Much of the damage on Cape Cod to homes that had just been repaired after the recent hurricane. Entire loss of this storm estimated to be millions of dollars.