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					
			Monthly extremes								Greatest monthly		Least monthly	
	Section average	Departure from the normal	Station	Highest	Date	Station	Lowest	Date	Section average	Departure from the normal	Station	Amount	Station	Amount
	° F.	° F.		° F.			° F.		In.	In.		In.		In.
Alabama	46.9	+0.4	Geneva	77	19	Valley Head	13	31	4.00	−0.85	Bay Minette	6.43	Dancy	1.79
Arizona	42.2	+.2	Mohawk	82	7	Alpine	−13	29	1.30	.00	Junipine	4.35	Springerville	.17
Arkansas	40.2	−1.0	Perryville	80	14	Lead Hill	7	29	2.37	−1.87	Arkansas City	6.08	Evening Shade	.53
California	44.4	−.3	Indio	88	13	Ellery Lake	−18	20	1.17	−3.63	Crescent City (near)	8.36	9 stations	.00
Colorado	26.2	+2.3	Eversoll Ranch	72	9	Taylor Park	−30	22	.87	+.08	Wolf Creek Pass	4.36	Monte Vista	.21
Florida	58.0	−.9	Bartow	88	8	2 stations	25	[1] 10	3.87	+1.09	Pensacola	8.39	St. Lucie Lock No. 2	.81
Georgia	46.4	−.5	3 stations	78	19	Blairsville	11	30	3.29	−.94	Bainbridge	5.97	Augusta Airport	1.33
Idaho	27.4	+3.4	do	65	7	3 stations	−21	[1] 22	1.59	−.54	Deception Creek	9.17	Lifton	.06
Illinois	24.0	−3.7	Harrisburg	60	12	Freeport	−17	[1] 9	1.08	−1.21	Brookport	3.28	Hudson	.32
Indiana	23.8	−5.2	5 stations	49	[1] 5	LaPorte	−14	2	1.13	−1.85	Evans Landing	3.67	Frankfort	.29
Iowa	19.3	+.6	2 stations	49	[1] 13	Decorah	−26	10	.67	−.41	Bloomfield	2.12	Primghar	.22
Kansas	32.6	+2.6	3 stations	68	[1] 9	Syracuse	−9	30	.88	+.19	Pratt	2.06	Burlington	.30
Kentucky	31.8	−3.9	2 stations	60	[1] 1	2 stations	−3	2	4.05	−.29	Munfordville	7.43	LaGrange	1.76
Louisiana	50.2	−1.3	do	78	25	5 stations	22	[1] 10	4.76	−.09	Jeanerette	7.72	Burrwood	1.16
Maryland-Delaware	28.3	−4.8	Bridgeville, Del	62	1	Oakland, Md	−16	27	3.26	−.09	Wilmington, Del	4.99	Cumberland, Md	1.40
Michigan	15.3	−5.6	2 stations	41	[1] 12	2 stations	−34	6	1.13	−.82	Calumet	5.48	St. Charles	.06
Minnesota	11.0	+1.4	3 stations	43	[1] 11	Big Falls	−41	5	.63	−.12	Red Wing	1.17	2 stations	.13
Mississippi	46.3	−.9	Monticello	77	[1] 1	7 stations	18	[1] 2	4.47	−.52	Greenville	9.24	Jackson	2.50
Missouri	30.0	−.8	2 stations	65	[1] 13	Albany	−12	31	1.08	−1.22	Deering	3.52	Harrisonville	.23
Montana	24.3	+4.7	do	60	[1] 14	Turner	−31	1	.75	−.17	Trout Creek	3.81	2 stations	T
Nebraska	27.8	+4.6	Gothenburg	64	12	Gordon	−24	1	.50	−.04	Broken Bow	1.14	Spencer	.07
Nevada	31.6	+1.9	4 stations	74	[1] 8	Fish Creek Ranch	−23	29	.46	−.73	Sheldon	1.65	5 stations	.00
New England	16.8	−5.6	Taunton, Mass	61	1	Lemington, Vt	−32	11	3.80	+.39	Pinkham Notch, N. H.	6.34	Bethlehem, N. H	1.77
New Jersey	24.4	−6.5	Burlington	60	1	Long Valley	−10	26	3.02	−.63	Elizabeth	6.27	Clayton	1.71
New Mexico	33.9	+.4	Pearl (near)	79	8	Eagle Nest	−46	29	.79	+.20	Rutledge Ranch	3.04	Riverside Camp	.00
New York	14.6	−8.3	Setauket	58	1	2 stations	−38	[1] 6	3.18	+.30	Donnattsburg	5.72	Ogdensburg	.72
North Carolina	39.6	−2.5	2 stations	70	[1] 1	Mount Mitchell	−6	31	2.16	−1.62	Andrews	3.54	Kinston	.97
North Dakota	12.7	+5.9	Medora	51	24	2 stations	−31	8	.41	−.06	Grafton	1.15	Foxholm	.08
Ohio	21.6	−6.8	2 stations	48	[1] 1	Mansfield	−13	11	1.63	−1.34	Dam No. 28	4.90	2 stations	.46
Oklahoma	39.1	+.9	Crescent	76	14	Kenton	1	28	1.38	−.04	Grandfield	2.85	Wyandotte	.25
Oregon	34.5	+2.7	Lacomb	68	7	Danner	−10	22	2.94	−.82	Valsetz	19.12	Plush	.13
Pennsylvania														
South Carolina	44.8	−1.1	Walterboro	78	[1] 14	Caesars Head	10	2	2.48	−1.06	Camden	4.60	2 stations	1.44
South Dakota	21.7	+4.8	Pine Ridge	59	13	Camp Crook	−26	31	.53	−.03	Dumont	1.55	Sisseton	.02
Tennessee	37.2	−1.8	4 stations	67	25	Crossville	−1	2	4.09	−.63	Jackson No. 2	8.67	Etowah	1.60
Texas	48.1	−.1	2 stations	88	[1] 27	Dalhart	5	22	2.04	+.23	Conroe	6.97	Ballinger	.00
Utah	29.4	+4.2	Zion National Park	68	9	Panguitch	−14	30	.66	−.57	Bryce Canyon	2.13	Piute Dam	T
Virginia	33.3	−3.1	Diamond Springs	66	1	Big Meadows	−2	31	2.44	−.80	Moores Creek Dam	5.30	Mount Weather	1.24
Washington	35.2	+4.7	2 stations	65	[1] 7	2 stations	−6	[1] 20	4.66	+.02	Wishkah Headworks	23.08	Moxee	.35
West Virginia	28.4	−4.2	do	60	[1] 1	Brandonville	−14	27	3.28	−.29	Midvale	6.34	Wardensville	1.14
Wisconsin	13.0	−2.3	Wisconsin Dells	43	23	Mellen	−38	5	.66	−.57	Vieux des Sert	1.61	Oconomowoc	.26
Wyoming	22.8	+2.9	Dubois	62	9	Moran	−30	21	.61	−.18	Grassy Lake Dam	4.41	Red Bird	.06
Alaska (December)	11.3	+5.9	Japonski	65	10	Allakaket	−59	6	2.62	+.11	Little Port Walter	27.33	Point Lay	.15
Hawaii	69.5	+.7	Waianae	88	14	Haleakala	36	22	1.26	−7.19	Nonomaele	7.11	20 stations	.00
Hawaii (December)	69.7	−.4	2 stations	88	[1] 1	do	37	1	6.76	−1.74	Kukui	32.00	Puu Mali	.40
Puerto Rico	72.5	−1.0	Juana Diaz	95	7	Cayey	46	9	2.79	−.88	Matrullas Dam	10.19	Aguirre	.20

[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							19.6	−4.4										74	3.73	+0.3											5.8			
Eastport	75	67	85	1,007.8	1,011.2	−4.7	19.8	−0.6	54	1	28	−7	11	12	30	1,399	12	72	4.47	+.6	1.22	19	14.4	nw.	44	s.	1	9	8	14	6.2	23.4	12.5	0
Greenville, Maine	1,070	6	41	971.2	1,013.2	----	7.9	−4.5	52	1	18	−24	11	−2	46	1,769	5	---	4.48	+1.6	1.37	13	----	n.	---	------	---	6	10	15	----	34.7	35.0	0
Portland, Maine [1]	103	5	43	1,008.5	1,012.9	−4.7	16.0	−6.4	53	1	27	−18	26	5	46	1,516	10	83	3.88	−.1	1.28	12	10.1	n.	41	s.	1	10	8	13	5.7	27.8	12.8	0
Concord [1]	289	5	45	1,002.7	1,014.2	−3.4	15.4	−3.6	53	1	26	−20	11	5	48	1,537	8	75	3.61	+.6	.96	10	9.8	nw.	37	nw.	26	13	7	11	5.4	33.2	19.3	0
Burlington [1]	403	5	51	1,000.0	1,015.9	−1.7	10.0	−8.8	44	1	19	−18	26	0	36	1,703	4	85	2.97	+1.2	1.46	16	8.8	nw.	37	s.	12	5	9	17	6.9	18.7	19.0	0
Boston [1]	124	33	62	1,008.5	1,013.9	−3.7	23.8	−4.1	59	1	31	−4	25	16	26	1,280	14	66	3.67	+.1	.90	13	14.4	nw.	56	sw.	1	10	8	13	5.9	24.3	7.2	0
Nantucket	12	11	59	1,012.2	1,013.2	−4.1	28.4	−2.9	54	1	35	2	25	22	29	1,133	22	77	4.38	+.6	1.23	13	12.2	nw.	42	sw.	1	11	7	13	5.8	3.8	.0	0
Block Island	26	11	46	1,012.5	1,013.9	−4.4	26.8	−4.2	56	1	33	1	25	20	29	1,183	20	76	3.46	−.3	1.49	13	20.8	nw.	63	nw.	24	14	5	12	5.1	6.8	.0	0
Providence [4]	159	46	60	1,007.8	1,014.6	−3.4	24.4	−2.8	59	1	32	−3	25	17	30	1,255	12	65	4.08	+.4	1.72	11	10.0	nw.	45	sw.	1	11	7	13	5.6	20.1	3.5	0
Hartford [1]	159	5	44	1,008.8	1,015.6	−2.7	20.2	−5.3	55	1	30	−4	25	11	34	1,390	11	72	3.75	−.2	1.15	11	9.7	nw.	39	s.	1	13	6	12	5.5	20.1	11.5	1
New Haven [1]	107	5	39	1,010.8	1,015.6	−3.0	23.3	−4.1	55	1	32	−4	25	15	31	1,294	14	68	2.23	−1.4	.69	12	8.9	nw.	34	nw.	1	13	9	9	5.4	12.9	2.2	0
Middle Atlantic							27.1	−4.8										71	2.90	−0.3											6.1			
Albany [1]	97	26	40	1,012.5	1,016.6	−1.7	14.0	−6.1	46	1	22	−12	25	6	30	1,584	8	78	3.25	+.8	1.12	10	10.6	w.	37	w.	23	10	9	12	5.9	35.4	14.3	0
Binghamton [2]	871	60	79	983.7	1,017.6	−1.0	16.5	−7.6	47	1	25	−12	26	8	30	1,504	10	85	4.07	+1.6	1.41	17	6.4	w.	27	w.	24	5	11	15	6.9	46.1	24.0	0
New York	314	415	454	1,003.7	1,016.6	−2.7	25.4	−5.5	55	1	33	0	25	17	30	1,228	14	62	3.25	−.4	1.13	8	18.1	nw.	61	nw.	24	12	11	8	5.1	11.4	6.0	0
Harrisburg [1]	374	30	49	1,003.4	1,018.3	−1.0	23.9	−5.1	45	4	31	4	25	16	27	1,277	16	70	3.34	+.2	1.74	10	8.4	nw.	34	nw.	24	6	9	16	6.9	31.4	11.0	0
Philadelphia [1]	114	5	57	1,012.9	1,018.0	−1.6	24.8	−6.3	58	1	32	2	25	18	34	1,247	18	74	2.86	−.4	1.17	10	9.8	nw.	39	nw.	24	10	7	14	6.2	11.7	.4	0
Reading	323	47	306	1,005.1	1,018.3	----	24.3	−6.8	52	1	32	0	25	17	30	1,260	----	--	3.71	+.1	1.94	10	12.0	nw.	54	nw.	24	12	4	15	6.0	23.4	12.1	0
Scranton	805	72	104	987.1	1,018.3	−.7	18.9	−7.7	48	1	26	−5	25	12	27	1,430	----	--	3.07	.0	1.18	13	7.0	n.	31	nw.	24	10	11	10	5.8	28.2	15.0	0
Atlantic City	52	37	172	1,014.9	1,017.3	−2.3	29.2	−3.3	53	1	36	4	25	22	24	1,107	20	69	2.83	−.7	.74	8	16.8	w.	50	s.	1	10	5	16	6.1	.1	.0	0
Trenton	190	89	107	1,009.8	1,017.6	----	25.0	−5.5	58	1	32	0	25	18	32	1,240	14	63	2.28	−1.0	.77	10	10.4	nw.	34	nw.	24	12	6	13	5.8	8.0	.9	0
Baltimore [2]	123	100	215	1,013.2	1,018.3	−1.7	30.4	−3.4	51	4	36	11	25	24	26	1,072	18	64	3.75	+.2	1.84	11	10.5	sw.	35	nw.	24	10	8	13	5.7	9.8	1.5	0
Washington [2]	112	56	100	1,013.9	1,018.6	−1.7	30.8	−2.6	55	1	37	11	25	24	29	1,062	19	62	2.89	−.7	1.02	11	8.5	n.	31	nw.	1	8	6	17	6.6	3.3	.0	0
Cape Henry	18	8	54	1,016.6	1,018.0	----	36.8	−3.4	66	1	42	23	25	31	30	879	29	74	1.88	−1.3	.53	13	12.8	n.	37	n.	25	8	11	12	6.2	T	.0	1
Lynchburg [1]	686	4	50	992.2	1,018.0	−2.3	34.0	−3.5	54	1	42	12	11	26	34	962	24	71	2.37	−1.1	.95	11	8.4	s.	32	nw.	24	9	8	14	6.3	1.4	.0	0
Norfolk [2]	91	80	125	1,014.6	1,018.6	−1.7	37.8	−2.8	65	1	44	20	25	32	29	843	28	74	1.72	−1.4	.48	11	9.6	n.	31	w.	1	7	9	15	6.3	T	.0	1
Richmond	144	11	52	1,012.2	1,018.0	−2.7	35.0	−2.9	61	1	42	16	27	28	31	930	26	73	2.22	−1.0	.97	10	8.1	nw.	32	sw.	1	7	10	14	6.3	.5	.0	0
South Atlantic							44.7	−0.2										78	2.22	−1.3											5.6			
Asheville	2,253	77	92	936.7	1,019.3	−1.7	37.0	+1.6	55	27	46	14	31	28	39	870	26	72	1.76	−1.3	.83	9	9.2	nw.	26	nw.	24	7	8	16	6.4	T	.0	0
Charlotte [2]	779	63	86	989.5	1,018.6	−2.4	42.0	+.8	61	28	50	22	2	34	33	717	32	76	2.08	−1.9	.74	9	6.7	s.	28	sw.	1	10	5	16	6.0	.0	.0	0
Greensboro [1]	886	6	56	985.4	1,018.6	----	37.6	−.3	59	1	47	17	30	28	33	849	29	77	1.90	−1.7	.69	7	7.9	sw.	32	s.	1	11	3	17	6.0	T	.0	0
Hatteras	11	5	50	1,017.3	1,018.0	−2.7	42.7	−4.4	70	1	49	28	31	36	27	689	38	86	2.90	−1.5	1.31	11	13.6	n.	38	w.	1	9	9	13	6.0	T	.0	2
Raleigh [1]	376	5	69	1,004.4	1,018.6	−1.7	39.7	−1.4	63	1	47	23	31	32	30	784	30	78	1.43	−2.2	.86	8	7.1	nw.	34	sw.	1	10	9	12	6.0	T	.0	1
Wilmington	72	73	107	1,015.2	1,018.3	−2.4	45.4	−1.1	68	1	53	29	27	37	27	609	38	78	2.08	−1.2	.81	10	8.7	nw.	39	sw.	1	13	5	13	5.2	.0	.0	0
Charleston [2]	48	11	92	1,016.6	1,018.6	−2.4	49.2	−.7	66	8	57	30	2	42	23	488	39	83	1.55	−1.5	.43	9	9.1	w.	34	w.	1	12	8	11	5.2	.0	.0	0
Columbia, S. C. [2]	347	70	91	1,005.4	1,018.6	−2.4	46.3	+.3	63	28	55	26	2	38	29	580	36	78	1.63	−1.8	.68	12	7.6	s.	33	sw.	1	12	8	11	5.2	.0	.0	0
Greenville, S. C. [1]	1,040	18	36	980.0	1,018.0	----	42.8	+2.5	62	28	52	19	2	34	33	690	31	72	2.74	−2.1	.94	8	8.0	sw.	37	w.	1	11	11	9	5.3	T	.0	1
Augusta [2]	182	62	77	1,011.9	1,018.6	−2.7	47.4	+.4	66	1	57	26	2	38	32	546	34	66	1.46	−2.5	.43	10	5.8	nw.	27	nw.	1	9	11	11	5.5	.0	.0	0
Savannah [2]	65	73	152	1,016.6	1,019.3	−1.7	51.8	+.4	70	19	61	30	2	42	26	412	40	82	1.88	−.9	.70	7	11.0	nw.	38	nw.	1	13	8	10	4.9	.0	.0	0
Jacksonville [2]	43	86	110	1,018.0	1,020.0	−1.0	54.7	−.7	75	19	64	35	2	46	26	322	44	82	5.26	+2.5	2.96	9	8.4	nw.	27	nw.	1	9	11	11	5.3	.0	.0	1
Florida Peninsula							64.8	−1.1										82	2.34	−0.1											4.8			
Key West [2]	21	10	64	1,018.0	1,019.3	.0	69.0	−.5	81	7	74	56	11	64	15	10	61	82	1.04	−.9	.95	4	9.2	n.	31	w.	8	13	13	5	4.4	.0	.0	1
Miami [2]	25	242	249	1,017.6	1,019.0	−1.3	65.6	−2.3	78	23	72	43	10	59	24	56	56	84	1.93	−.3	1.26	6	12.5	nw.	29	w.	26	16	8	7	4.4	.0	.0	0
Tampa [1]	35	6	43	1,018.3	1,020.0	.0	59.8	−.6	77	20	68	41	17	51	28	170	50	80	4.05	+1.4	3.49	8	9.8	n.	33	s.	7	7	13	11	5.6	.0	.0	1
East Gulf							48.5	0.0										76	3.99	−0.7											5.3			
Atlanta [1]	1,173	33	72	976.3	1,019.3	−1.7	43.2	+.7	64	1	52	20	31	34	38	675	30	68	2.98	−2.0	1.01	12	11.8	nw.	43	nw.	1	11	7	13	5.5	T	.0	
Macon [2]	370	79	87	1,005.1	1,019.3	−2.0	46.9	+.1	67	7	58	25	2	36	33	560	35	72	2.22	−2.0	.80	12	6.4	nw.	18	nw.	1	10	11	10	5.4	.0	.0	1
Thomasville	278	49	58	1,009.5	1,020.0	−1.3	52.9	+1.9	74	1	66	30	2	40	38	378	----	---	4.44	+.3	2.18	9	--	------	---	------	---	9	7	15	----	.0	.0	0
Apalachicola	35	11	51	1,018.3	1,020.0	----	53.2	−.5	70	19	61	32	10	45	24	366	44	80	4.45	+.8	1.80	11	8.5	n.	24	n.	9	7	14	10	5.8	.0	.0	2
Pensacola	56	54	79	1,018.6	1,020.7	.0	52.2	−.3	72	7	61	29	10	43	27	397	42	76	8.39	+4.4	4.46	9	8.2	nw.	32	nw.	1	11	13	7	5.1	.0	.0	3
Anniston	741	9	----	------	------	----	44.8	+.2	67	1	55	21	10	35	33	624	----	---	3.80	−1.4	1.10	13	----	nw.	---	------	---	12	5	14	----	T	.0	2
Birmingham [1]	700	5	62	994.2	1,020.0	−1.3	43.1	+.2	64	14	54	30	31	32	36	683	34	76	2.64	------	.85	12	8.5	n.	32	nw.	1	9	11	11	5.7	T	.0	3
Mobile [2]	57	86	161	1,018.6	1,020.7	−.3	51.1	−.4	75	7	60	28	10	42	28	432	42	78	4.11	−.7	1.73	9	7.3	nw.	26	nw.	9	8	10	13	5.6	.0	.0	2
Montgomery [2]	218	92	105	1,012.2	1,020.3	−1.0	48.0	−.2	70	7	57	25	10	39	27	529	38	81	2.45	−2.8	1.13	10	7.7	n.	26	w.	1	12	12	7	4.7	.0	.0	0
Meridian [2]	375	67	92	1,006.8	1,021.0	−.3	46.1	−.9	69	14	57	24	30	36	34	588	38	78	2.61	−2.7	1.85	8	6.6	n.	21	nw.	1	14	7	10	5.1	.0	.0	2
Vicksburg [1]	247	82	102	1,011.5	1,021.0	.0	47.4	−.8	71	25	56	27	31	39	31	546	35	78	3.31	−2.1	1.96	7	8.4	n.	24	nw.	9	10	8	13	5.5	.0	.0	2
New Orleans [4]	53	50	84	1,018.6	1,020.3	.0	53.4	+.2	73	7	61	32	10	46	22	363	44	72	5.10	+.8	2.83	6	7.2	nw.	19	nw.	1	12	8	11	4.9	.0	.0	1
West Gulf							50.0	+0.7										79	3.04	+0.1											6.2			
Shreveport [1]	249	5	64	1,011.9	1,021.0	+.3	45.7	−.3	73	14	55	28	31	36	33	597	39	82	4.05	+.1	2.86	9	8.8	e.	31	nw.	8	10	7	14	5.8	.0	.0	0
Fort Smith	463	57	82	1,004.1	1,020.3	−.4	39.9	+.4	67	14	48	19	9	32	33	780	32	76	1.03	−1.5	.61	6	8.0	e.	26	nw.	8	4	13	14	6.8	2.0	.0	0
Little Rock [1]	357	26	58	1,007.8	1,021.0	.0	40.8	−.6	69	14	49	21	9	32	34	751	33	78	2.26	−2.5	1.10	8	7.9	nw.	32	nw.	8	12	6	13	5.7	T	.0	1
Austin [1]	605	10	41	998.3	1,020.3	----	50.8	+1.3	77	6	60	32	29	41	38	440	42	75	2.83	+.8	2.65	6	7.9	n.	26	n.	28	10	5	16	6.0	.0	.0	1
Brownsville [1]	57	5	54	1,015.9	1,018.0	----	62.6	+2.8	80	27	71	39	1	54	29	108	57	85	5.11	+3.3	2.87	11	9.9	n.	28	s.	20	6	4	21	7.4	.0	.0	2
Corpus Christi [1]	20	4	33	1,019.0	1,019.3	.0	58.5	+4.5	78	6	66	37	1	51	34	209	51	80	.98	------	.51	11	10.4	ne.	29	nw.	18	9	5	17	6.6	.0	.0	1
Dallas [1]	512	5	45	1,002.0	1,021.3	----	45.6	+.2	77	14	55	24	29	36	35	605	36	76	1.53	−.9	1.23	7	8.9	nw.	26	s.	11	9	5	17	6.1	.0	.0	1
Fort Worth [1]	679	35	56	996.6	1,021.3	+1.3	45.8	+1.4	76	14	55	26	30	37	38	595	35	72	1.92	−.1	1.50	7	10.0	nw.	31	n.	8	9	8	14	5.9	.0	.0	1
Galveston [2]	54	106	114	1,018.3	1,020.3	.0	54.6	+.8	70	25	59	41	29	50	16	320	48	82	3.52	+.1	1.62	11	10.3	n.	27	se.	18	8	7	16	6.2	.0	.0	2
Houston [2]	138	157	190	1,015.2	1,020.7	----	53.5	+.8	75	14	62	37	9	46	26	358	46	82	4.53	+.8	2.92	7	9.9	n.	27	se.	2	10	5	16	6.0	.0	.0	1
Palestine	510	64	72	1,002.7	1,021.0	+1.0	47.9	−.3	74	13	56	29	9	40	28	530	38	72	3.63	+.2	2.31	8	7.1	n.	21	nw.	8	9	6	16	5.9	.0	.0	2
Port Arthur	34	59	134	1,019.3	1,020.3	----	52.6	−1.2	73	25	60	38	31	45	22	384	45	86	3.11	−.6	1.52	8	12.4	n.	37	e.	20	7	9	15	6.0	.0	.0	2
San Antonio [1]	693	8	51	995.3	1,020.3	+1.0	51.4	−.9	76	14	62	30	10	41	39	424	42	76	2.97	+1.5	2.83	5	8.3	ne.	27	w.	18	8	7	16	6.6	.0	.0	2

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: Days with 0.01 inch or more	Precipitation: 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							29.1	−3.5										82	2.11	−1.8											7.2			
Chattanooga [1]	762	6	66	991.5	1,020.3	−1.0	39.0	−.1	60	26	49	17	11	29	33	808	30	78	2.44	−2.8	.93	10	7.9	n.	29	nw.	22	9	6	16	5.9	T	.0	0
Knoxville [1]	995	27	53	983.1	1,020.0	−1.0	38.0	+.3	56	12	47	14	31	29	31	830	30	77	2.18	−2.5	.56	12	6.4	ne.	27	nw.	1	7	8	16	6.6	T	.0	0
Memphis [4]	399	5	86	1,005.8	1,020.7	−.6	39.2	−.5	66	25	48	19	2	31	32	797	33	81	2.95	−1.9	1.78	8	8.0	n.	27	nw.	8	9	7	15	6.4	T	.0	2
Nashville [1]	546	5	72	1,000.0	1,020.3	−1.0	36.0	−2.6	57	25	44	10	2	28	29	900	30	80	3.47	−1.3	1.17	16	8.2	nw.	25	n.	9	7	5	19	6.9	1.0	.0	1
Lexington [1]	989	4	28	982.7	1,020.3	.0	28.6	−4.3	46	21	36	−1	2	22	26	1,130	24	86	3.05	−1.1	.87	13	----	w.	---	------	---	4	8	19	7.5	4.9	1.4	0
Louisville [2]	525	106	120	1,000.7	1,020.7	.0	30.4	−4.0	45	12	37	5	2	24	26	1,070	24	80	1.88	−2.1	.64	14	8.7	n.	27	s.	12	7	6	18	7.0	7.2	.8	0
Evansville [1]	431	11	40	1,004.4	1,021.0	+.3	29.8	−1.8	48	26	37	0	31	22	34	1,096	24	84	1.89	−1.8	.73	13	7.9	nw.	26	w.	1	4	8	19	7.4	6.9	1.0	0
Indianapolis [1]	823	5	54	989.2	1,020.7	+.7	22.8	−4.5	44	12	30	−3	31	15	36	1,305	18	84	.57	------	.13	10	10.2	w.	34	w.	1	5	5	21	7.5	9.2	2.0	0
Terre Haute [2]	575	68	149	999.3	1,021.3	-----	26.4	−3.4	48	12	33	2	31	20	26	1,195	20	82	.63	−2.1	.22	8	9.1	w.	28	w.	1	5	10	16	6.9	4.8	1.4	0
Cincinnati [2]	627	11	51	996.3	1,020.7	+.7	26.1	−4.2	42	12	32	3	2	20	28	1,204	21	80	1.58	−1.9	.36	13	7.5	w.	23	sw.	22	5	7	19	7.2	9.9	2.3	0
Columbus [2]	822	90	110	988.5	1,020.0	+.4	23.7	−4.9	41	12	30	0	2	18	32	1,283	18	83	.93	−2.1	.23	11	9.8	n.	32	sw.	1	3	8	20	7.7	6.0	2.1	0
Dayton [1]	1,003	6	55	982.1	1,020.0	-----	21.6	−6.1	38	12	28	−1	2	15	30	1,347	18	86	.64	−2.6	.17	11	11.1	w.	38	w.	1	6	4	21	7.6	10.8	4.3	0
Elkins [1]	1,947	4	45	946.8	1,019.3	−.7	25.3	−4.7	55	1	34	−4	27	16	45	1,232	22	90	2.49	−1.3	.50	22	7.4	w.	33	w.	1	1	6	24	8.5	12.5	2.1	0
Parkersburg	637	77	84	995.6	1,020.0	.0	27.2	−5.3	45	12	34	5	2	21	28	1,171	22	80	2.41	−1.2	.37	16	6.9	nw.	26	nw.	24	2	10	19	7.8	10.0	4.7	0
Pittsburgh [1]	842	39	54	986.8	1,018.6	−1.0	22.0	−6.2	41	12	29	0	2	15	33	1,340	18	86	3.02	.0	.98	23	9.8	nw.	36	nw.	24	5	6	20	7.2	19.2	8.3	0
Lower Lakes							16.3	−7.5										86	2.10	−0.5											7.5			
Buffalo [1]	768	34	96	988.2	1,018.0	−0.3	16.2	−7.7	38	1	24	−8	25	9	27	1,514	13	89	3.71	+.4	.83	19	14.4	w.	43	w.	1	5	8	18	7.4	50.6	27.4	0
Canton	448	10	61	999.3	1,017.3	-----	6.6	−10.0	36	1	16	−31	6	−3	33	1,809	5	98	2.63	+.1	.85	19	9.0	w.	34	w	2	10	7	14	6.2	26.8	20.3	0
Oswego	335	71	85	1,004.1	1,017.3	−1.0	16.6	−7.0	38	1	24	−9	6	9	24	1,502	10	75	3.14	+.2	.59	24	10.9	nw.	32	n.	16	3	6	22	7.9	50.6	24.0	0
Rochester [1]	523	5	69	997.6	1,018.0	−.3	15.2	−8.0	37	12	23	−7	25	7	29	1,542	10	82	2.50	−.4	.45	23	12.2	w.	43	w.	1	4	9	18	7.3	23.5	19.3	0
Syracuse [1]	596	5	57	993.9	1,017.6	−.7	14.4	−8.4	41	1	24	−15	18	5	33	1,568	10	86	4.26	+1.5	1.28	22	10.8	sw.	42	s.	12	1	13	17	7.5	39.8	25.6	0
Erie [2]	714	57	81	991.9	1,019.3	+.7	19.4	−7.4	40	12	26	0	25	13	26	1,413	14	89	3.01	+.2	1.07	21	8.9	w.	27	w.	1	0	13	18	8.1	38.3	22.7	0
Cleveland [1]	762	27	54	990.2	1,019.6	+.6	18.8	−5.9	41	12	27	−4	25	11	30	1,430	16	90	1.21	−1.3	.59	18	10.7	sw.	38	w.	1	3	6	22	7.8	18.7	8.4	0
Sandusky	629	5	67	995.3	1,020.0	+1.0	19.8	−6.5	42	12	27	−2	2	13	30	1,402	----	---	1.10	−1.2	.42	16	9.2	sw.	27	w.	1	8	5	18	7.2	14.4	4.1	0
Toledo [1]	628	5	47	995.6	1,020.3	+1.3	16.7	−7.8	40	12	25	−6	27	8	32	1,496	13	85	.51	−1.6	.12	13	11.4	sw.	34	w.	1	7	4	20	7.1	9.7	7.8	0
Fort Wayne [1]	857	5	33	987.1	1,020.0	-----	18.0	−7.4	39	12	25	−8	2	11	41	1,456	14	86	.61	−1.7	.27	11	8.9	w.	31	w.	23	3	8	20	7.5	6.5	4.6	0
Detroit [1]	730	5	78	991.5	1,020.0	+1.4	17.8	−6.3	40	12	24	−2	2	12	24	1,465	14	80	.45	−1.6	.14	11	9.8	nw.	34	w.	1	3	3	25	8.4	5.8	3.4	0
Upper Lakes							14.6	−2.9										80	0.70	−1.1											7.7			
Alpena	609	5	89	994.9	1,019.0	+1.7	14.5	−4.6	35	22	22	−9	6	8	31	1,565	10	84	.91	−1.0	.20	19	10.2	nw.	34	nw.	24	0	11	20	8.2	19.6	10.4	0
Escanaba	612	51	72	995.9	1,020.0	+2.4	12.9	−2.5	31	21	20	−13	5	6	31	1,617	8	83	.66	−.8	.22	12	10.1	nw.	33	nw.	22	7	7	17	6.7	8.2	9.1	0
Grand Rapids [2]	707	70	244	992.2	1,019.6	+1.6	20.0	−4.5	39	12	26	−5	2	15	23	1,390	15	84	.43	−1.9	.11	11	10.9	w.	40	sw.	23	1	3	27	8.6	17.6	9.5	0
Lansing [2]	878	5	90	985.8	1,019.6	-----	17.2	−5.2	39	12	23	−2	2	11	30	1,483	12	82	.55	−1.3	.12	11	8.3	w.	26	sw.	12	2	6	23	8.1	12.5	9.3	0
Marquette	734	44	73	990.5	1,019.0	+1.7	14.6	−1.7	31	20	20	−6	5	9	22	1,565	8	76	1.28	−1.0	.31	17	8.6	w.	26	nw.	22	1	8	22	8.2	15.2	21.5	0
Sault Sainte Marie [1]	614	11	52	994.6	1,019.0	+2.1	7.2	−4.9	30	19	16	−20	13	−1	28	1,793	3	82	.94	−1.1	.18	19	10.5	e.	30	nw.	1	5	6	20	7.4	14.3	19.4	0
Chicago [1]	673	5	36	994.6	1,020.7	+1.4	19.2	−3.1	40	12	26	−8	9	13	40	1,415	15	83	.80	−1.1	.35	11	9.4	w.	27	w.	1	4	4	23	7.8	12.8	5.4	0
Green Bay	617	90	123	996.3	1,020.3	+2.3	14.0	−1.7	36	23	21	−11	2	7	29	1,578	6	68	.52	−1.0	.13	9	9.7	w.	27	nw.	23	5	8	18	7.2	5.7	4.7	0
Milwaukee [1]	681	33	66	993.9	1,020.3	+1.7	17.4	−2.0	36	12	24	−10	2	11	39	1,476	12	76	.31	−1.5	.17	7	12.5	nw.	36	nw.	1	4	4	23	7.7	6.4	1.5	0
Duluth [2]	1,133	5	47	976.6	1,020.7	+1.7	9.2	+1.3	35	23	16	−25	5	3	24	1,728	4	87	.67	−.3	.19	13	11.6	nw.	43	nw.	1	5	11	15	6.7	8.0	4.9	0
North Dakota							12.5	+7.9										85	0.40	−0.2											7.3			
Fargo [1]	940	5	43	985.4	1,021.7	+1.0	10.8	+7.0	37	24	18	−22	8	4	29	1,679	8	89	.33	−.3	.08	9	10.5	n.	30	nw.	2	4	7	20	7.7	4.2	4.2	0
Bismarck [1]	1,677	5	43	957.3	1,021.0	+.7	14.7	+8.4	40	11	22	−19	31	7	30	1,556	12	87	.39	−.1	.17	11	9.7	nw.	43	nw.	13	4	8	19	7.3	4.9	2.9	0
Devils Lake	1,478	11	44	964.4	1,021.3	+1.3	9.4	+7.6	37	24	16	−24	8	3	26	1,725	5	82	.39	−.1	.17	10	7.9	nw.	24	nw.	2	5	8	18	7.6	4.8	5.4	0
Grand Forks [1]	832	4	41	989.5	1,022.0	-----	7.8	-----	34	23	16	−26	8	0	26	1,780	6	---	.74	------	.25	10	----	nw.	---	------	---	3	7	21	----	10.6	5.8	0
Williston	1,878	42	50	949.9	1,022.0	+.4	15.0	+8.6	42	24	24	−23	31	6	36	1,549	11	82	.47	−.1	.17	8	6.5	w.	29	w.	12	8	8	15	6.5	5.9	2.3	0
Upper Mississippi							19.6	−1.5										84	0.84	−0.8											7.0			
Minneapolis-St. Paul [1]	919	43	74	985.4	1,021.3	+1.7	12.7	.0	36	18	20	−15	9	5	30	1,621	8	83	.63	−.2	.23	8	9.4	nw.	29	nw.	2	8	9	14	6.6	8.2	3.8	0
Springfield, Minn.	1,025	4	42	------	------	-----	16.0	-----	38	11	22	−12	2	10	29	1,514	----	---	.36	------	.25	5	----	nw.	---	------	---	6	5	20	----	5.2	.4	0
La Crosse [1]	714	5	29	993.6	1,021.3	+1.7	11.8	−2.5	37	23	22	−18	9	2	38	1,649	8	84	.85	−.2	.35	8	7.5	e.	34	s.	11	6	7	18	6.9	9.3	6.4	0
Madison [2]	974	70	78	983.4	1,021.0	+1.7	14.7	−2.0	36	23	21	−13	9	8	32	1,561	9	78	.59	−.8	.34	7	7.9	w.	22	s.	11	3	12	16	7.3	7.8	9.2	0
Charles City	1,015	10	51	983.4	1,022.4	+1.7	14.7	+1.0	36	23	23	−13	9	6	33	1,560	----	---	.86	−.2	.47	8	5.8	nw.	17	nw.	1	7	10	14	6.6	7.0	7.9	0
Davenport	606	6	50	998.3	1,022.4	+2.4	18.2	−2.0	41	11	26	−15	4	10	35	1,452	14	85	.44	−1.0	0.13	8	8.8	w.	30	nw.	1	4	11	16	7.2	5.8	4.4	0
Des Moines [2]	860	5	99	988.8	1,022.0	+1.3	21.3	+1.2	43	18	28	−5	4	14	32	1,357	16	85	.67	−.4	.26	7	8.6	n.	29	n.	8	5	7	19	7.3	10.2	.5	0
Dubuque	690	60	79	994.9	1,022.0	+2.0	17.2	−1.9	40	23	25	−12	2	9	38	1,479	13	82	.60	−.7	.18	9	5.4	nw.	20	nw.	1	3	12	16	7.2	10.6	1.5	0
Burlington [1]	702	4	36	994.9	1,022.0	+1.3	18.4	−3.7	40	11	27	−11	9	10	34	1,445	15	86	.77	−.9	.40	9	9.6	nw.	35	w.	1	4	9	18	7.4	8.8	1.8	0
Cairo	357	5	99	1,007.8	1,021.3	.0	33.7	−1.2	56	25	40	12	9	27	24	971	----	---	2.13	−1.	6.75	14	8.2	n.	31	n.	8	8	7	16	6.6	3.7	.8	0
Peoria [1]	609	6	26	998.3	1,022.0	+2.0	19.8	−2.3	40	12	27	−8	9	13	35	1,398	16	87	.49	−1.	3.25	7	9.2	nw.	27	nw.	1	5	4	22	7.5	7.0	1.0	0
Springfield, Ill. [2]	636	5	191	997.3	1,021.7	+1.4	24.4	−2.1	42	12	30	−3	9	18	30	1,257	18	88	1.06	−1.	0.46	5	10.0	n.	32	nw.	1	4	10	17	7.1	9.7	2.1	0
St. Louis [2]	568	35	303	1,000.0	1,021.7	+1.0	28.7	−2.4	51	12	34	0	9	23	27	1,124	22	79	1.02	−1.	34 0	8	9.8	nw.	29	w.	1	6	11	14	6.6	1.9	.1	0
Missouri Valley							26.9	+3.5										84	0.58	+0.5											7.1			
Columbia, Mo. [2]	784	6	66	991.9	1,021.7	+1.4	28.2	−2.7	55	13	35	0	9	21	35	1,145	22	80	.94	−1.0	.32	9	7.4	n.	24	nw.	8	5	12	14	6.8	2.3	.0	0
Kansas City [1]	963	39	76	985.1	1,021.3	+.3	30.6	+2.4	58	11	38	4	1	24	32	1,061	24	79	.38	−.9	.10	7	9.4	ne.	34	nw.	8	5	7	19	7.3	1.0	.0	0
St. Joseph [2]	967	11	49	985.4	1,021.7	-----	28.5	+3.0	55	11	35	3	1	22	31	1,135	23	82	.59	−.7	.18	8	7.8	w.	29	n.	8	9	7	15	6.4	3.7	T	0
Springfield, Mo. [1]	1,324	5	67	971.9	1,021.0	+.3	32.0	−.3	62	13	40	6	30	24	38	1,021	28	86	.88	−1.5	.33	8	10.2	s.	33	nw.	15	5	9	17	7.4	6.0	.5	0
Topeka	987	65	87	984.4	1,021.3	-----	31.4	+3.8	58	13	38	5	1	24	34	1,039	26	80	.44	−.5	.17	7	8.0	w.	36	nw.	8	7	7	17	6.8	1.6	.0	0
Lincoln [2]	1,189	11	81	977.0	1,021.7	+.7	28.7	+5.9	52	12	36	0	1	21	31	1,124	23	88	.69	.0	.25	10	7.9	e.	31	nw.	8	4	13	14	7.2	7.4	.2	0
Omaha [1]	1,105	5	68	980.4	1,022.0	+1.0	24.8	+3.9	48	13	32	−4	3	17	31	1,243	21	86	.47	−.2	.18	8	9.1	nw.	44	n.	8	3	7	21	7.7	8.1	.4	0
Valentine	2,598	46	54	925.2	1,020.7	+.7	24.9	+6.0	49	12	35	−8	1	15	40	1,246	19	80	.58	+.1	.38	5	7.7	w.	28	nw.	14	3	14	14	6.7	4.3	.7	0
Sioux City [1]	1,138	5	40	978.7	1,021.7	+.7	22.7	+6.4	45	13	31	−9	2	15	36	1,313	18	86	.36	−.4	.13	6	8.9	nw.	32	nw.	13	3	10	18	7.6	4.2	.1	0
Huron [1]	1,301	5	41	972.2	1,021.7	+.4	17.6	+6.3	46	11	26	−17	2	9	41	1,469	14	88	.51	.0	.28	6	10.5	nw.	33	nw.	13	4	9	18	7.1	7.4	2.0	0

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: 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							25.8	+6.0										78	0.60	−0.1											7.0			
Billings [1]	3,570	16	40	892.0	1,019.6	-----	27.3	+4.9	52	13	36	−1	1	19	38	1,169	22	75	.26	-----	.10	6	12.3	sw.	50	nw.	13	1	15	15	7.2	4.9	.4	0
Havre	2,507	11	67	928.2	1,021.3	+2.0	18.3	+5.4	47	12	28	−16	31	8	36	1,445	14	84	.82	+.1	.48	11	7.9	w.	29	sw.	12	3	9	19	7.5	11.4	1.2	0
Helena [1]	4,124	5	43	875.0	1,022.4	+1.4	26.5	+7.8	55	13	36	−3	20	17	27	1,194	20	74	.08	−.5	.05	3	6.9	w.	43	w.	7	2	8	21	7.7	3.3	1.2	0
Missoula [1]	3,205	4	32	905.5	1,023.4	-----	27.4	+8.8	50	13	34	6	28	20	22	1,165	24	88	.31	-----	.12	9	4.8	se.	30	w.	13	2	6	23	8.4	2.2	T	0
Kalispell	2,973	48	56	915.0	1,021.3	+1.3	29.2	+8.8	50	12	34	9	29	24	18	1,109	24	78	1.19	−.4	.62	13	4.4	nw.	26	w.	13	3	1	27	8.6	4.3	.1	0
Miles City [1]	2,371	5	78	933.3	1,020.7	+.7	19.3	-----	45	13	31	−21	1	8	42	1,414	16	86	.43	-----	.16	9	----	w.	---	-----	---	6	3	22	7.5	4.9	1.2	0
Rapid City [1]	3,259	5	63	902.1	1,020.3	+1.0	26.5	+6.5	53	12	36	−13	1	17	41	1,194	20	80	.53	+.1	.20	9	12.6	nw.	61	nw.	14	9	12	10	5.8	4.9	.9	0
Cheyenne [1]	6,094	5	40	811.4	1,019.6	+2.0	28.4	+2.9	57	10	40	−10	28	17	40	1,134	18	66	.97	+.6	.44	8	12.6	nw.	44	nw.	7	6	14	11	6.0	10.2	2.4	0
Lander	5,352	60	68	835.1	1,022.4	+2.4	20.2	+1.9	55	7	33	−10	30	8	41	1,386	13	72	.37	−.2	.21	4	3.4	sw.	30	w.	7	10	15	6	5.0	5.3	10.2	0
Sheridan [1]	3,790	5	38	884.9	1,021.0	-----	25.0	+5.7	54	13	38	−12	30	12	34	1,244	18	78	.44	−.4	.16	6	6.5	nw.	41	nw.	13	8	10	13	6.3	5.4	3.9	0
North Platte [1]	2,821	11	51	918.1	1,020.3	+.3	29.7	+6.8	58	9	40	−3	1	19	40	1,096	22	78	.41	.0	.23	4	6.8	w.	32	n.	14	5	10	16	6.9	5.4	T	0
Middle Slope							34.3	+3.3										73	0.94	+0.2											6.2			
Denver [2]	5,292	106	113	837.1	1,018.6	+1.0	33.8	+4.0	63	10	44	6	28	24	33	968	20	64	.69	+.3	.24	8	7.3	s.	25	nw.	14	11	10	10	5.9	9.1	.8	0
Pueblo [1]	4,690	5	36	857.1	1,020.0	+2.4	30.2	+1.5	66	9	47	−5	30	14	55	1,079	16	60	.88	+.6	.59	5	6.7	nw.	32	nw.	14	8	6	17	6.1	9.1	2.7	0
Concordia	1,392	50	58	969.9	1,021.7	+1.0	32.0	+5.6	57	13	40	4	1	24	31	1,025	25	79	.60	.0	.26	9	7.1	w.	33	nw.	14	9	9	13	6.0	4.5	.0	0
Dodge City [1]	2,509	5	58	929.9	1,020.3	+.7	32.4	+3.4	63	12	43	5	30	21	42	1,013	23	76	1.48	+1.1	1.12	5	13.7	nw.	50	n.	14	13	4	14	5.6	10.1	.6	0
Wichita [1]	1,358	6	64	970.9	1,021.0	+.7	34.1	+2.8	60	13	42	10	1	26	30	956	27	78	1.07	+.3	.48	8	12.2	nw.	45	nw.	8	8	11	12	6.2	1.5	T	0
Oklahoma City [3]	1,214	10	47	976.0	1,020.3	+.7	39.5	+3.1	71	13	48	19	9	31	33	790	30	76	1.21	.0	.51	9	8.3	s.	26	n.	8	8	5	18	6.7	1.6	.0	0
Tulsa [1]	674	10	60	995.9	1,021.0	-----	38.1	+2.8	70	13	47	14	9	29	39	835	30	78	.64	−1.0	.34	6	9.1	n.	33	n.	8	3	14	14	6.9	1.1	.0	0
Southern Slope							45.0	+3.0										66	0.63	0.0											4.8			
Abilene [1]	1,738	4	59	957.3	1,019.3	+.3	45.2	+2.1	73	14	57	21	29	34	38	613	34	74	.59	−.4	.51	3	12.2	se.	37	s.	11	11	12	8	4.8	.0	.0	0
Amarillo [1]	3,676	5	42	890.6	1,019.6	+1.6	37.8	+4.7	68	11	50	14	30	26	43	843	26	69	.77	+.3	.36	3	12.3	sw.	40	sw.	24	14	8	9	4.6	3.1	.0	0
Del Rio	960	63	71	984.8	1,019.0	+1.0	54.0	+1.7	78	8	63	30	1	44	39	343	41	68	1.14	+.6	1.05	6	8.1	se.	24	w.	18	9	8	14	6.0	.0	.0	2
Roswell	3,566	75	85	894.7	1,018.3	+1.0	42.8	+3.6	70	14	57	20	30	28	44	689	25	54	.03	−.5	.02	3	6.4	s.	36	sw.	20	16	10	5	4.0	T	.0	0
Southern Plateau							44.9	+1.6										60	0.72	−0.2											4.9			
El Paso [1]	3,778	39	85	887.9	1,017.3	+1.0	45.8	+2.2	67	12	58	24	1	33	37	594	27	49	.11	−.4	.11	1	8.4	n.	36	sw.	20	14	13	4	4.0	T	.0	0
Albuquerque [1]	5,314	5	45	838.8	1,018.6	-----	36.8	+2.7	58	14	47	16	30	26	33	875	24	63	.34	−.1	.16	5	8.9	n.	33	e.	6	13	6	12	5.4	1.0	.0	1
Flagstaff	6,907	36	51	790.4	1,021.3	+3.7	29.3	+1.9	56	10	44	−4	24	15	52	1,110	18	68	1.94	−.3	.61	8	----	nw.	---	-----	---	12	8	11	4.9	18.2	5.8	0
Phoenix [2]	1,107	39	87	978.0	1,017.6	+.7	51.9	+.7	78	9	64	32	24	40	36	405	38	67	.99	+.2	.37	4	5.4	e.	23	w.	20	12	7	12	5.3	.0	.0	2
Tucson [1]	2,555	5	39	927.5	1,016.6	-----	50.7	+1.6	74	9	64	30	24	38	37	448	36	61	.58	−.3	.39	5	----	se.	---	-----	---	9	10	12	5.8	.0	.0	0
Yuma	142	9	54	1,012.5	1,017.3	−.3	55.1	+.7	79	14	67	36	24	43	35	305	36	52	.37	−.1	.25	4	5.1	n.	18	w.	20	15	10	6	4.2	.0	.0	0
Middle Plateau							31.4	+3.4										74	0.52	−0.4											5.8			
Reno [1]	4,527	20	52	865.9	1,022.7	+2.4	33.2	+2.3	62	13	47	7	24	19	44	989	26	74	.25	−1.3	.11	5	4.5	sw.	34	s.	15	9	8	14	5.8	1.0	.0	0
Tonopah	6,090	9	20	815.4	1,020.0	-----	33.0	+2.4	54	9	41	9	22	25	23	992	25	72	.03	−.4	.02	2	----	w.	---	-----	---	14	10	7	----	.3	.0	0
Winnemucca	4,339	5	56	872.0	1,024.0	+2.7	28.8	+.2	59	7	41	−7	25	17	44	1,123	24	82	1.27	+.2	.62	12	5.9	ne.	26	nw.	18	4	11	16	6.8	11.5	4.0	0
Modena	5,473	10	46	834.7	1,020.0	+.7	29.6	+2.9	55	9	42	3	28	17	39	1,105	----	---	.92	+.1	.60	3	7.4	w.	25	w.	15	16	5	10	4.5	15.1	1.7	0
Salt Lake City [1]	4,227	32	58	870.6	1,022.7	+1.7	32.1	+4.6	59	14	42	9	22	22	29	1,022	25	76	.39	−.6	.33	3	6.9	se.	25	w.	15	13	5	13	5.5	5.3	.0	0
Grand Junction	4,602	60	68	862.2	1,020.0	+2.0	32.0	+8.0	53	14	43	11	2	21	34	1,024	22	67	.26	−.3	.11	5	4.4	se.	14	se.	23	10	5	16	6.3	2.6	.0	0
Northern Plateau							32.2	+5.1										87	1.08	−0.6											8.6			
Baker [2]	3,471	36	54	900.1	1,024.7	+3.4	28.2	+3.3	52	7	35	6	22	21	26	1,141	24	90	.92	−.5	.25	12	4.5	se.	19	sw.	15	1	7	23	8.4	6.8	1.5	0
Boise [1]	2,739	5	49	925.8	1,024.7	+2.3	32.2	+4.3	53	13	38	18	26	26	26	1,020	29	88	1.09	−.6	.28	13	6.3	se.	26	w.	15	1	2	28	9.0	3.4	T	0
Pocatello [1]	4,478	5	31	866.6	1,024.7	+2.0	27.8	+5.5	49	15	36	3	20	20	29	1,151	24	86	.20	−1.1	.12	5	7.9	sw.	33	sw.	15	2	4	25	8.3	1.0	T	0
Spokane [1]	1,929	27	42	951.9	1,022.7	+2.7	32.6	+5.1	54	7	37	13	27	28	20	1,002	30	84	1.27	−.9	.25	11	5.4	sw.	32	sw.	7	1	4	26	8.9	1.7	1.0	0
Walla Walla	991	57	65	986.5	1,023.4	+2.4	38.0	+5.3	62	7	42	23	28	34	18	835	----	---	2.59	+.6	.64	16	4.7	sw.	26	w.	7	1	6	24	8.4	.5	.3	0
Yakima	1,076	58	67	983.1	1,022.7	-----	34.3	+6.9	59	7	40	21	2	29	28	951	----	---	.39	−.9	.20	7	4.0	nw.	24	nw.	13	2	4	25	8.7	1.8	.8	0
North Pacific Coast							43.9	+3.7										81	5.35	−1.2											7.2			
North Head	211	5	55	1,011.5	1,019.0	+1.4	45.8	+3.7	57	9	50	35	21	41	19	594	40	78	7.72	−1.1	1.60	19	15.6	e.	52	s.	17	8	2	21	6.9	.0	.0	0
Seattle [2]	125	90	321	1,014.9	1,019.3	+1.7	44.5	+3.7	61	9	49	28	22	40	17	637	38	82	3.01	−1.9	.73	14	9.1	se.	41	sw	7	6	9	16	7.0	.0	.0	0
Tacoma	194	172	201	1,012.9	1,019.6	+2.3	42.8	+4.0	55	7	48	27	30	38	21	684	----	---	5.65	−.5	1.67	19	7.1	s.	33	sw.	7	5	6	20	7.2	.0	.0	0
Tatoosh Island	86	9	61	1,014.9	1,018.0	+2.8	45.5	+4.3	54	9	48	37	20	43	10	607	40	80	12.13	+.3	2.66	18	20.8	e.	56	e.	14	6	3	22	7.4	T	.0	0
Medford [1]	1,329	29	58	974.3	1,022.7	-----	40.4	+2.5	56	13	48	20	28	32	31	761	36	82	1.65	−.7	.31	12	----	s.	---	-----	---	5	8	18	7.4	.0	.0	0
Portland, Oreg. [2]	154	68	106	1,015.6	1,021.0	+2.4	44.4	+5.0	61	7	49	30	21	40	15	638	38	82	4.13	−2.5	.82	17	7.8	e.	22	e.	26	5	4	22	7.4	.0	.0	0
Roseburg	510	45	76	1,003.1	1,021.7	+2.4	44.1	+2.9	65	14	51	25	23	37	23	649	40	84	3.13	−2.2	.74	17	2.5	s	18	sw.	14	1	13	17	7.4	.0	.0	0
Middle Pacific Coast							47.2	+0.2										79	2.26	−2.9											6.0			
Eureka	60	72	88	1,020.3	1,022.4	+3.1	48.8	+1.9	62	24	55	31	21	42	26	499	44	83	3.64	−3.5	.80	15	5.1	se.	24	sw.	14	8	8	15	6.3	.0	.0	2
Red Bluff [1]	-----	6	26	1,009.1	1,021.7	-----	45.4	−.4	65	13	54	27	23	37	31	605	37	74	2.11	-----	1.23	6	5.9	nw.	23	se.	30	10	5	16	6.1	.0	.0	0
Sacramento	66	92	115	1,019.6	1,021.7	+1.7	44.6	−1.2	62	29	52	30	20	38	27	630	38	81	1.82	−1.9	1.34	6	5.7	n.	24	se.	31	9	6	16	6.4	.0	.0	0
San Francisco [2]	155	112	132	1,015.9	1,021.0	+1.4	50.2	+.3	63	26	55	39	4	45	18	458	42	78	1.33	−3.2	2.27	5	6.4	n.	18	se.	31	11	8	12	5.3	.0	.0	0
South Pacific Coast							51.8	+0.5										67	0.46	−1.8											5.8			
Fresno [1]	327	5	34	1,009.5	1,021.7	+2.4	43.6	−1.9	62	29	51	25	20	36	31	666	38	80	.92	−.8	.91	2	3.4	se.	18	nw.	15	6	4	21	7.4	.0	.0	0
Los Angeles	338	223	250	1,006.8	1,018.6	.0	56.6	+2.0	75	14	66	42	20	47	26	259	38	54	.04	−3.1	.04	1	6.7	ne.	26	e.	31	14	10	7	4.4	.0	.0	0
San Diego [1]	87	20	55	1,015.6	1,018.3	.0	55.3	+1.3	72	13	65	39	22	46	29	301	44	68	.42	−1.6	.38	2	4.6	n.	22	sw.	19	9	11	11	5.7	.0	.0	0
West Indies																																		
San Juan, P. R.	82	10	54	1,013.2	1,016.9	-----	73.6	−1.4	80	9	78	66	10	69	14	0	68	84	3.25	−.9	2.21	13	10.1	e.	30	e.	3	7	20	4	5.1	.0	.0	0
Panama Canal																																		
Balboa Heights	118	6	92	-----	[3]1,011.9	−1.3	79.6	−.4	89	29	87	66	9	72	20	-----	71	[3]80	.75	−.3	.26	6	8.2	nw.	24	n.	21	11	20	0	4.4	.0	.0	0
Cristobal	27	47	97	-----	[3]1,012.5	+.3	80.0	−.3	87	8	84	71	8	76	16	-----	71	[3]75	1.89	−1.4	.86	181	4.1	ne.	26	n.	24	7	19	5	5.0	.0	.0	0

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: Days with 0.01 inch or more	Precipitation: 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	6	44		997.0		22.6	+2.0	48	27	30	−8	17	15		1,316	19	82	.36	−.5	.11	6	5.6	ne.	33	se.	28	2	7	22		2.5	.3	0
Fairbanks[1]	455	5	63		1,007.5		0.0	+10.	942	28	9	−3	26	−9		2,018	−2	88	.07	−.8	.04	2	4.8	n.	23	e.	28	8	6	17		2.1	6.4	0
Juneau[1]	80	6	32		1,011.2		32.1		44	23	36	12	18	28		1,021	29	86	3.49		.55	19	7.8	n.	36	se.	12	4	2	25		9.8	.0	0
Nome	22	25	56		1,000.7		17.6	+14.	240	30	23	−1	614	12		1,466	12	77	.70	−.4	.23	19	13.4	ne.	40	ne.	21	4	1	26		4.8	9.8	0
Hawaii																																		
Honolulu	38	86	100																															

[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, DECEMBER 1944 (Late Reports)

[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
	1944 Dec.						
Buchanan, Andrew, Holt, Nordaway, Worth, Gentry and De Kalb Counties, Mo.	3-5				$87,000	Glaze	Loss to the Southwestern Bell Telephone Company estimated at between $87,000 to $90,000 which included damage to parts of Kansas and Iowa. Traffic was greatly hampered by the heavy coating of ice on all surfaces which remained on overhead objects until the 7th with the ground still snow and ice-covered at that time.
Winchester, McLouth, Nortonville and Doniphan Counties, Kans.	4					Freezing rain and glaze.	Telephone and power lines coated with ice from 1 inch to an inch and one-half in diameter. Poles snapped off in some cases, cross-arms failed in others. In Doniphan County severe damage was reported to apple trees because of broken branches, especially in the vicinity of Troy with the estimated apple crop materially less for this year.
New York, N. Y.	8					Wind and rain	Rain, driven by a forty-mile-an-hour wind, with gusts up to 69 miles an hour caused damage to cornices, signs, and copings. 75 flights at La Guardia Field canceled.
Missouri, northern two-thirds of State.	9-11					Heavy snow	On 9-10 heavy snow ranging in depth from 4 to more than 9 inches over the northern two-thirds of the State. The snow was badly drifted by high winds on the 10-11, blocking many roads and generally impeding highway and rail traffic. Several schools were forced to close as buses could not get through the deep drifts.
Ohio	11-12					Snow	The storm produced a general snow cover of from about 4 to 14 inches, except lesser amounts to the west and southwest of Dayton. Wet sticky snow over extensive areas damaged numerous trees and shrubbery in and near Marietta. During this storm or soon afterward, the snow became badly drifted and highway traffic was obstructed worse than it had been for years. Many schools were closed from the 12th to the 16th when it was impossible to get the county roads open to traffic.
Pittsburgh, Pa., and vicinity.	11-12				2,000,000	do	The greatest 24-hour snowfall was recorded during this storm for the month at western and many northern stations. According to a survey conducted by the Federal-State Flood Forecasting Service at Pittsburgh, snowfall averaged 16 inches over the Allegheny Basin, 18 inches over the Monongahela, and 12 inches over the Upper Ohio. Small communities were isolated and many secondary roads blocked by drifted snow.
West Virginia	11-12				250,000	Rain and snow	Precipitation started with rain in most places followed by very wet snow, which, as the temperature dropped on the 12th, became dry and light. This snowfall, at the wet, freezing stage, overloaded telephone and telegraph wires to such an extent that sections broke and whole communities were isolated. Parkersburg was unable to get world news for about 18 hours. Radio station WPAR, with all lines dead, signed off almost 2 hours early. Teletypes at the Parkersburg News, Western Union, and the U. S. Weather Bureau were out of order for several hours during the night. People living in outlying sections of cities, in villages, and on farms, found themselves marooned by the drifts. Trains hours late and bus schedules were canceled. All city and country schools closed in the heavy snow areas. Loss to the Potomac Telephone Company approximately $250,000. Rural power lines considerably damaged. Highway traffic greatly hindered and many accidents caused by icy pavements. Damage to forest trees, especially the evergreens, was considerable.
Crown Point, Oreg., and vicinity.	12				9,200	Wind	A room torn from a dwelling, barn destroyed, and 4 calves killed; 3 houses burned.
Canton, Miss.	25	p. m.				Wind and hail	Some damage to garages and roofs.
Eureka, Emporia and Topeka to Atchison, Kans.	26-27					Freezing rain	Highways ice-covered from the Oklahoma line through Eureka, Emporia and Topeka to Atchison. In Chanute and vicinity, a little south and to the east of Eureka the storm was most severe with travel for sometime almost impossible.
Kentucky	27-29					Freezing rain and sleet.	Roads icy and slippery throughout practically the entire section. Automobile and railway traffic delayed or suspended, but damage limited to minor traffic mishaps with no fatal or serious injuries reported.
Virginia, entire State	27-29			1		Glaze and sleet	Glaze and sleet ranging up to more than an inch on the 27th and again on the 29th, caused extremely hazardous highway conditions throughout Virginia. A truck skidding on the ice crushed a man to death at Fishersville. In Richmond, collisions caused by icy streets were the source of minor, but painful injuries to 12 persons.
Houston, Tex.	31	11:35 a. m.			1,500	Straight-line wind	Property damaged.