CLIMATOLOGICAL DATA

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

[For description of tables and charts, see REVIEW January 1940, p. 32]

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	57.4	+3.1	Robertsdale	87	[1] 7	Evergreen	19	28	1.77	−1.64	Samantha	4.32	Fort Deposit	T
Arizona	53.4	+2.8	3 stations	91	[1] 2	Fort Valley	2	21	.11	−.89	Payson	.82	66 stations	0.00
Arkansas	54.5	+3.2	Wabash	88	[1] 18	Mount Ida	18	27	3.83	+.07	Eureka Springs	8.74	Texarkana	.64
California	51.9	−.3	Palm Springs	95	[1] 1	Sierraville	−5	20	3.78	+1.42	Crescent City (near)	27.14	20 stations	.00
Colorado	37.6	+2.4	2 stations	82	19	Fraser	−15	26	.55	−.22	Columbine	4.23	4 stations	.00
Florida	67.2	+2.2	6 stations	92	[1] 9	Jasper	26	28	.74	−1.43	Homestead	3.66	Avon Park	T
Georgia	56.8	+2.2	Waycross	88	10	Blairsville	15	28	1.68	−.91	Augusta	4.52	Everett City	.32
Idaho	34.4	−1.0	Milner Dam	74	2	Blackfoot Dam	−15	21	4.09	+2.01	Roland	12.24	May	.59
Illinois	44.9	+2.7	5 stations	80	19	Minonk	8	30	5.12	+2.48	Anna	8.42	Belvidere	2.19
Indiana	45.2	+2.8	Tell City	80	18	Goshen	3	30	4.83	+1.76	2 stations	7.62	2 stations	2.89
Iowa	38.8	+2.5	Keosauqua	80	19	Sioux Rapids	−10	29	1.76	+.15	Donnellson	4.64	Akron	.15
Kansas	45.4	+2.2	Syracuse	87	19	Oberlin	−3	29	.75	−.53	Bethel (near)	3.90	5 stations	T
Kentucky	49.8	+3.4	11 stations	80	[1] 9	Lynch (near)	18	29	4.88	+1.46	Shelbyville	6.63	Lynch (near)	1.83
Louisiana	61.7	+2.9	Urania	89	8	Robeline	23	27	1.17	−1.67	Kisatchie (near)	3.40	3 stations	.00
Maryland-Delaware	47.2	+2.0	La Plata, Md	81	20	Mount Savage Summit, Md.	11	14	2.40	−.14	2 stations	3.81	Oxford, Md	1.35
Michigan	36.5	+.2	Benton Harbor	71	19	2 stations	−20	29	2.68	+.16	Kenton	4.97	Mio	.85
Minnesota	29.9	+.3	3 stations	68	[1] 14	Zumbrota	−17	29	.49	−.65	Pigeon River Bridge	2.49	Madison	T
Mississippi	58.7	+3.6	Duck Hill	89	8	Batesville	24	27	1.40	−2.17	Lambert	4.36	Telahatchie	.19
Missouri	47.9	+3.5	2 stations	82	[1] 18	2 stations	6	29	4.30	+1.59	Rolla	8.91	Maryville	1.30
Montana	30.8	−1.3	2 stations	73	[1] 13	Wisdom	−16	21	1.72	+.68	Summit	7.43	Dooley	.03
Nebraska	39.1	+1.8	3 stations	80	[1] 15	Mitchell (near)	−14	22	.44	−.31	Falls City	1.62	3 stations	T
Nevada	42.0	+2.0	Mesquite	85	13	Ely	−3	21	1.28	+.61	Lewers Ranch	10.14	9 stations	.00
New England	38.0	.0	Chestnut Hill, Mass	75	1	Kearsarge, N. H	0	30	4.80	+1.32	Burlington, Conn	7.87	Presque Isle, Maine	1.48
New Jersey	44.9	+1.2	Pleasantville	78	21	3 stations	12	[1] 15	4.14	+.94	Lakewood	7.10	Bridgeton	2.04
New Mexico	45.9	+3.4	2 stations	89	[1] 9	Selsors Ranch	−5	[1] 21	.02	−.62	Selsors Ranch	.59	120 stations	.00
New York	38.9	+.8	Port Jervis	76	20	2 stations	−5	15	3.75	+.75	South Wales	6.81	Chazy	1.13
North Carolina	51.9	+1.9	2 stations	84	[1] 19	Mount Mitchell	5	27	1.76	−.84	Highlands (near)	3.89	Willard	.12
North Dakota	28.0	+1.3	Hettinger	73	15	Eckman	−14	30	.18	−.40	Pembina	.55	7 stations	T
Ohio	43.6	+2.1	4 stations	78	20	Millport	11	15	3.72	+1.01	Portsmouth No. 2	5.94	Canton	2.09
Oklahoma	52.8	+3.1	Altus	87	9	Hooker	9	29	1.64	−.40	Watts	7.21	2 stations	.00
Oregon	40.0	−.4	Brookings	75	11	Seneca	−9	23	7.70	+3.98	Valsetz	34.99	Plush	1.16
Pennsylvania	41.8	+.4	Phoenixville	82	20	Montrose	0	15	3.35	+.49	Kane	5.77	Hyndman	1.19
South Carolina	56.2	+2.4	2 stations	90	[1] 1	5 stations	21	[1] 28	1.64	−.67	Aikens	4.15	Georgetown	.30
South Dakota	34.9	+1.7	Vale	85	15	Wood	−10	29	.38	−.23	Harveys Ranch	2.53	3 stations	T
Tennessee	52.3	+3.8	Moscow	85	19	Gatlinburg	12	28	2.74	−.78	Cookeville	6.86	Kingston	.97
Texas	60.2	+3.1	Laredo	99	25	Spearman	11	29	1.20	−.98	Sugarland	5.45	27 stations	.00
Utah	38.3	+.9	Bluff	82	3	Woodruff	−8	21	1.82	+.87	Rice Canyon	8.71	2 stations	.00
Virginia	48.7	+2.1	Glen Lyn	86	21	Mountain Lake	12	14	1.71	−.71	Burkes Garden	3.62	Langley Field	.60
Washington	37.6	−2.1	Darrington	71	3	Stockdill Ranch	0	20	7.57	+2.53	Peterson's Ranch	31.34	Oroville	1.00
West Virginia	44.7	+1.5	2 stations	80	20	2 stations	9	28	3.81	+1.06	Creston	6.95	2 stations	1.56
Wisconsin	33.8	+.4	Beloit	72	19	Blair	−15	29	1.96	+.11	Whitewater	4.89	Weyerhauser	.48
Wyoming	32.5	+.9	Hawk Springs	78	15	Foxpark	−14	20	1.64	+.94	Grassy Lake Dam	9.76	2 stations	.23
Alaska (October)	32.6	+2.4	Wasilla	66	1	2 stations	−11	12	4.39	+.80	Baranof	40.16	Tanacross	.21
Hawaii	74.4	+2.2	Kuala Puu (Molokai)	92	22	Volcano Observatory, Hawaii.	43	22	5.39	−2.23	Kukui (Maui)	22.00	Mahukona	.00
Puerto Rico	77.2	+.8	Guayama	95	8	Guineo Reservoir	58	23	10.88	+3.48	La Mina (El Yunque)	22.78	Yauco	4.10

[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, 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	Number of days with thunderstorms
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F		° F	° F	° F	° F	%	In.	In.		Miles								0-10	In.	In.	
New England							39.4	+0.9										76	4.10	+0.9										6.3			
Eastport	76	67	85	29.89	29.98	−0.03	36.9	+.2	59	1	42	18	29	31	18	34	31	79	2.68	−.6	15	11.3	nw.	34	ne.	25	9	6	15	6.3	3.1	1.2	1
Greenville, Maine	1,070	6	41	28.80	30.00	-----	31.2	−.1	62	17	40	8	24	23	33	28	25	---	3.00	−.1	15	-----	nw.	---	-----	---	4	10	16	----	7.0	3.0	0
Portland, Maine [1]	103	5	36	29.88	30.00	−.01	36.2	-----	63	17	46	12	23	26	35	33	30	82	4.71	+1.2	12	8.5	nw.	33	nw.	28	12	7	11	5.4	1.1	T	0
Concord [2]	289	4	45	29.70	30.03	−.03	36.7	−1.0	69	1	47	10	23	26	44	32	28	76	4.80	+1.7	12	7.5	nw.	27	w.	14	6	8	16	6.8	3.9	1.0	0
Burlington [2]	403	11	48	29.56	30.01	−.04	36.2	−.1	62	1	43	11	30	29	25	33	29	78	1.65	−1.0	17	11.0	s.	37	s.	10	4	7	19	7.4	4.4	2.8	1
Northfield	876	12	60	-----	30.03	−.02	33.9	+1.1	63	20	43	3	30	24	34	---	---	---	3.15	+.2	13	7.4	n.	32	s.	10	9	3	18	6.8	12.1	6.0	0
Boston [1]	124	33	62	29.88	30.02	−.03	43.5	-----	71	1	51	20	15	36	30	38	32	69	4.69	+1.4	11	11.9	nw.	44	sw.	10	9	7	14	6.4	T	.0	0
Nantucket	12	10	63	30.01	30.02	−.03	45.6	+1.2	65	1	52	24	15	39	22	41	37	76	3.40	+.2	15	11.9	nw.	30	sw.	30	7	9	14	6.4	T	.0	1
Block Island	26	11	46	30.00	30.03	−.03	45.8	+1.2	65	1	52	25	15	40	21	42	37	72	4.46	+.8	15	18.3	nw.	47	nw.	14	13	6	11	5.1	T	.0	2
Providence [2]	159	46	60	29.86	30.04	−.03	43.7	+3.3	71	20	52	21	15	35	30	38	34	76	5.03	+2.0	13	9.5	n.	34	sw.	10	9	7	14	6.2	T	.0	1
Hartford [1]	159	5	44	-----	30.05	−.03	41.6	-----	72	20	51	19	23	32	---	---	---	---	7.05	+3.5	13	8.8	n.	34	sw.	10	5	11	14	----	T	.0	1
New Haven [2]	107	74	153	29.94	30.06	−.01	44.2	+2.2	69	20	52	22	15	37	26	40	36	79	4.53	+1.2	13	9.5	n.	35	s.	10	7	14	9	5.9	T	.0	1
Middle Atlantic States							47.0	+2.2										72	2.56	0.0										5.4			
Albany [1]	97	26	40	29.93	30.04	−.04	38.4	+2.1	64	20	47	15	15	30	31	34	30	77	3.34	+.9	12	9.9	s.	38	s.	10	3	13	14	7.0	.9	.0	0
Binghamton	871	57	79	-----	30.06	−.03	40.0	+1.3	70	20	49	17	15	31	31	36	32	78	3.19	+.8	14	6.7	w.	24	w.	10	3	9	18	7.5	1.9	.0	0
New York	314	415	454	29.72	30.06	−.03	46.6	+2.4	70	20	54	25	15	39	27	41	34	65	4.47	+1.5	12	16.8	nw.	53	nw.	14	13	6	11	5.3	T	.0	2
Harrisburg [1]	374	30	49	-----	-----	-----	43.8	+1.0	77	20	53	22	15	35	---	---	---	---	2.19	−.1	13	8.3	nw.	41	s.	10	6	11	13	----	T	.0	0
Philadelphia [2]	114	174	367	29.96	30.09	−.01	47.8	+2.1	73	20	55	26	28	40	29	40	35	73	3.79	+1.1	9	13.3	sw.	44	sw.	10	12	10	8	4.7	.0	.0	2
Reading	323	47	306	29.72	30.08	-----	45.1	+1.3	75	20	54	23	15	36	34	---	---	---	3.33	+.6	10	11.8	nw.	48	nw.	13	13	7	10	4.9	T	.0	1
Scranton	805	72	104	29.18	30.06	−.03	41.4	+.9	70	20	50	19	15	33	32	---	---	---	3.41	+.6	12	7.0	sw.	30	nw.	13	6	14	10	6.0	T	.0	0
Atlantic City	52	37	172	30.02	30.08	−.02	49.6	+4.0	75	21	57	24	15	42	28	44	39	72	2.21	−.6	9	16.5	w.	42	se.	10	10	8	12	5.3	T	.0	1
Trenton	190	89	107	29.87	30.08	-----	45.8	+1.4	75	20	54	24	15	38	27	40	36	72	3.17	+.4	9	9.6	nw.	32	s.	10	12	6	12	5.5	T	.0	2
Baltimore [2]	123	100	215	29.97	30.10	−.01	49.0	+2.7	79	20	57	27	28	41	30	42	36	69	2.36	−.2	10	10.4	s.	40	sw.	13	13	9	8	4.9	.0	.0	1
Washington [1]	112	62	85	30.04	30.11	−.01	48.3	+3.1	79	20	57	25	15	40	29	42	36	68	2.10	−.3	9	7.8	nw.	28	nw.	13	8	14	8	5.1	.0	.0	1
Cape Henry	18	8	54	30.08	30.10	-----	54.4	+2.3	79	10	61	34	28	47	28	48	44	72	1.10	−1.3	8	13.9	sw.	41	w.	3	11	13	6	4.9	.0	.0	1
Lynchburg	686	144	184	29.39	30.12	−.01	49.9	+2.7	79	20	60	24	15	40	36	42	36	65	1.51	−.8	8	7.5	nw.	27	nw.	13	15	6	9	4.5	.0	.0	0
Norfolk [2]	91	80	125	30.02	30.12	+.01	54.8	+3.3	79	10	63	32	28	47	29	47	43	78	.96	−1.2	10	10.1	ne.	29	nw.	3	13	8	9	4.7	.0	.0	1
Richmond [2]	144	11	52	29.95	30.11	−.01	50.8	+2.5	79	20	61	23	15	41	32	45	42	81	1.23	−1.0	6	8.1	sw.	26	sw.	10	15	4	11	4.7	.0	.0	0
South Atlantic States							57.4	+2.9										75	1.72	−0.7										3.8			
Asheville	2,253	89	104	27.78	30.17	+.03	48.0	+2.9	76	20	58	18	28	37	36	41	36	73	.51	−1.7	3	8.8	nw.	27	nw.	27	13	8	9	4.5	T	.0	0
Charlotte [2]	779	63	86	29.30	30.14	+.01	53.3	+2.7	79	20	63	29	28	43	29	44	40	75	2.22	−.4	6	6.3	ne.	18	nw.	10	14	7	9	4.3	.0	.0	1
Greensboro [1]	886	6	56	29.19	30.15	-----	49.2	-----	79	21	61	22	28	37	35	42	38	76	1.27	-----	8	7.8	ne.	25	w.	13	14	8	8	4.2	.0	.0	0
Hatteras	11	5	50	30.09	30.11	.00	58.6	+2.3	75	20	65	36	28	52	27	54	51	84	2.43	−1.1	6	13.6	ne.	37	sw.	10	16	6	8	4.3	.0	.0	3
Raleigh [1]	376	27	69	29.73	30.13	.00	53.0	+3.1	80	10	64	24	15	42	37	45	41	74	1.56	−.7	9	8.5	ne.	32	nw.	10	15	7	8	4.0	.0	.0	1
Wilmington	72	73	107	30.05	30.13	+.01	57.8	+1.8	80	21	68	32	28	47	30	51	46	75	.93	−1.0	4	8.6	ne.	24	nw.	27	20	6	4	3.1	.0	.0	0
Charleston [2]	48	11	92	30.07	30.12	.00	61.1	+3.0	82	10	70	36	28	52	25	51	48	79	1.56	−.6	5	10.2	n.	25	n.	11	26	1	3	2.0	.0	.0	2
Columbia, S. C. [2]	347	70	91	29.75	30.12	.00	57.4	+3.4	84	19	68	28	28	46	32	49	45	76	2.25	+.3	5	8.0	ne.	25	sw.	10	17	8	5	3.4	.0	.0	0
Greenville, S. C. [1]	1,040	70	78	29.03	30.14	-----	53.0	-----	78	20	64	27	28	42	30	45	39	69	1.39	−1.8	4	8.6	ne.	30	n.	11	12	9	9	4.6	.0	.0	0
Augusta [2]	182	62	77	29.93	30.13	.00	58.1	+3.6	84	19	70	31	28	46	32	49	43	63	4.52	+2.1	5	5.3	nw.	19	w.	13	19	4	7	3.3	.0	.0	1
Savannah [2]	65	73	152	30.05	30.13	+.01	62.3	+3.8	85	19	74	36	12	51	31	52	48	76	1.08	−1.0	4	9.7	ne.	28	nw.	13	22	4	4	2.7	.0	.0	1
Jacksonville [2]	43	86	110	30.06	30.11	+.01	64.4	+2.2	84	10	74	39	12	55	29	56	53	81	.51	−1.5	8	7.4	ne.	20	ne.	11	12	8	10	4.6	.0	.0	0
Florida Peninsula							73.0	+2.0										79	1.20	−1.1										4.1			
Key West [2]	21	10	64	29.98	30.00	−.02	76.0	+1.7	84	9	81	64	14	71	15	69	66	77	1.74	−.4	10	10.8	ne.	22	e.	15	10	19	1	3.9	.0	.0	.0
Miami [2]	25	124	168	30.00	30.02	−.04	73.7	+1.9	84	11	79	52	14	68	23	65	63	82	1.75	−1.2	7	10.9	ne.	33	ne.	6	14	11	5	4.2	.0	.0	0
Tampa [1]	35	5	61	30.04	30.07	−.01	69.4	+2.5	87	10	79	44	28	60	30	61	58	78	.10	−1.6	1	10.5	ne.	27	ne.	6	13	14	3	4.1	.0	.0	0
East Gulf States							59.0	+2.9										76	1.30	−1.9										3.5			
Atlanta [1]	1,173	5	72	28.89	30.14	+.01	54.4	+2.9	80	19	65	29	28	44	32	46	41	70	1.38	−1.7	3	8.9	nw.	26	n.	10	14	8	8	4.1	.0	.0	0
Macon [2]	370	79	87	29.73	30.13	.00	57.0	+2.8	83	19	69	29	28	45	36	48	43	68	2.62	+.1	3	6.2	nw.	20	nw.	10	18	7	5	3.3	.0	.0	0
Thomasville	273	49	58	29.85	30.15	+.03	61.1	+2.6	83	10	75	32	28	47	41	---	---	---	.53	−2.2	4	-----	-----	---	-----	---	15	8	7	----	.0	.0	2
Apalachicola	35	11	---	30.06	30.10	-----	63.2	-----	80	3	72	40	28	55	26	57	53	78	.32	−2.8	3	8.5	ne.	22	n.	27	19	5	6	2.8	.0	.0	1
Pensacola	56	54	79	30.06	30.12	+.01	62.4	+2.2	82	10	72	38	24	53	29	56	52	76	.43	−3.3	3	7.6	se.	22	ne.	10	20	6	4	3.1	.0	.0	1
Anniston	741	9	---	-----	-----	-----	55.1	+3.2	81	19	68	24	28	43	37	---	---	---	1.72	−1.5	9	-----	nw.	---	-----	---	12	12	6	----	.0	.0	0
Birmingham [2]	700	11	48	29.39	30.14	+.02	56.8	+2.9	80	19	67	31	27	47	30	46	43	78	1.57	−1.7	5	7.5	s.	20	se.	28	16	9	5	3.5	.0	.0	0
Mobile [2]	57	6	30	30.07	30.13	+.02	60.8	+2.2	83	8	71	35	12	50	29	53	50	81	1.58	−2.1	7	6.4	n.	25	n.	11	18	4	8	3.5	.0	.0	1
Montgomery [2]	218	92	105	29.91	30.14	+.02	58.5	+2.7	81	18	70	32	28	47	32	50	45	71	1.42	−1.8	4	6.5	e.	18	n.	10	18	7	5	3.1	.0	.0	0
Meridian [2]	375	67	92	29.72	30.13	+.01	57.9	+3.7	82	8	70	30	28	46	35	50	46	79	.73	−2.6	4	6.1	sw.	17	se.	28	18	8	4	3.2	.0	.0	0
Vicksburg [2]	247	82	102	29.85	30.11	−.01	60.6	+4.0	83	8	71	35	27	50	29	48	46	82	1.13	−2.6	5	9.2	se.	28	se.	28	16	6	8	4.0	.0	.0	2
New Orleans [2]	53	76	84	30.05	30.11	+.01	64.2	+2.6	82	18	72	42	27	56	24	57	54	78	2.23	−.9	6	6.9	se.	20	ne.	11	14	9	7	4.1	.0	.0	2
West Gulf States							61.5	+3.9										75	2.20	−0.7										4.8			
Shreveport [1]	249	92	227	29.82	30.08	−.03	60.6	+5.6	84	9	72	30	27	49	38	53	48	73	.62	−3.0	7	10.8	se.	29	s.	25	13	7	10	5.0	.0	.0	2
Bentonville	1,303	12	51	28.70	30.08	−.03	50.1	+3.4	75	19	60	24	30	41	35	---	---	---	7.11	+4.1	13	8.1	s.	28	sw.	16	9	12	9	----	T	.0	6
Fort Smith	463	57	82	29.55	30.03	−.08	54.6	+3.6	82	9	64	26	30	46	33	48	42	68	3.88	+1.0	10	8.9	e.	30	s.	16	11	6	13	5.4	.0	.0	3
Little Rock [1]	357	94	102	29.70	30.09	−.03	54.3	+2.2	82	19	65	26	30	44	35	48	45	77	2.76	−1.4	11	8.9	s.	27	s.	16	10	8	12	5.8	.0	.0	3
Austin [2]	605	68	90	29.42	30.06	-----	62.8	+4.3	85	25	74	33	27	52	35	56	52	76	1.98	−.3	4	10.6	s.	31	n.	25	13	9	8	4.5	.0	.0	1
Brownsville [2]	57	88	96	29.95	30.01	-----	69.7	+2.5	87	2	80	42	24	60	35	63	60	78	.86	−1.4	4	9.1	se.	26	n.	10	5	13	12	6.0	.0	.0	0
Corpus Christi [2]	20	11	78	30.02	30.04	−.03	69.0	+4.7	85	2	77	44	23	62	35	61	58	80	1.09	−.9	3	11.0	s.	29	n.	10	13	9	8	3.8	.0	.0	2
Dallas [1]	512	6	46	29.50	30.04	-----	59.8	-----	82	25	71	29	27	48	38	52	47	70	1.75	−.8	6	13.4	s.	37	s.	16	14	9	7	4.5	.0	.0	1
Fort Worth [1]	679	35	56	29.33	30.05	−.05	60.0	+5.5	83	17	71	29	29	49	40	52	47	70	.92	−1.7	4	13.6	s.	37	nw.	28	14	10	6	4.4	.0	.0	2
Galveston [2]	54	106	114	30.01	30.06	−.03	67.2	+3.9	80	5	73	44	23	62	29	62	59	80	4.20	+.9	5	11.1	s.	27	nw.	22	14	13	3	4.0	.0	.0	2
Houston [2]	138	157	190	29.92	30.08	-----	64.8	+3.8	84	2	74	38	27	56	37	57	54	81	2.55	−1.3	4	11.3	se.	31	n.	3	11	8	11	4.9	.0	.0	1
Palestine	510	64	72	29.54	30.08	−.03	61.8	+4.6	83	2	72	33	30	52	33	54	49	68	1.59	−1.8	7	8.9	s.	21	s.	15	13	6	11	4.5	.0	.0	0
Port Arthur	34	59	134	30.04	30.08	-----	65.0	-----	81	5	73	38	23	57	30	60	56	79	1.08	−2.0	5	13.0	s.	29	s.	28	13	7	10	4.3	.0	.0	2
San Antonio [1]	693	28	59	29.33	30.06	−.02	63.0	+2.7	86	25	75	32	23	51	43	55	51	71	.47	−1.4	4	8.4	s.	29	ne.	26	12	8	10	4.8	.0	.0	1

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, 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 dewpoint	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	Number of days with thunderstorms
	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							**47.6**	**+3.1**										**76**	**3.90**	**+0.7**										**6.5**			
Chattanooga [1]	762	21	54	29.32	30.15	+.01	51.5	+3.6	79	21	64	21	28	39	37	44	40	76	1.89	−1.5	6	6.1	s.	24	n.	2	10	10	10	5.0	.0	.0	1
Knoxville [2]	995	66	84	29.07	30.14	+.01	51.2	+3.3	78	20	62	22	28	40	38	44	39	71	.97	−2.1	5	7.2	ne.	35	sw.	10	12	6	12	5.1	.0	.0	1
Memphis [2]	399	78	86	29.67	30.09	−.03	55.6	+3.9	81	19	66	31	27	46	32	48	44	75	3.16	−1.1	9	8.8	s.	24	w.	10	13	5	12	5.2	.0	.0	3
Nashville [1]	546	5	72	29.52	30.11	−.01	52.8	-----	80	19	63	27	28	43	34	46	40	71	2.27	−1.2	12	8.9	s.	35	sw.	10	10	10	10	5.4	.0	.0	1
Lexington	989	6	----	29.04	30.13	+.01	47.6	+2.8	78	20	57	21	27	38	34	-----	-----	----	5.72	+2.4	14	-----	sw.	----	-----	---	11	4	15	5.6	.0	.0	2
Louisville [2]	525	106	120	29.52	30.09	−.03	49.1	+2.4	77	9	57	23	27	41	35	43	38	76	5.99	+2.4	15	10.3	sw.	38	sw.	10	8	6	16	6.7	.0	.0	2
Evansville [1]	431	5	38	29.61	30.08	−.04	48.4	+4.0	78	9	57	22	27	40	35	43	39	76	6.07	+2.3	15	9.7	s.	35	sw.	10	8	6	16	6.8	.0	.0	2
Indianapolis [2]	823	98	129	29.16	30.06	−.04	45.7	+3.4	75	20	54	20	27	37	38	39	36	80	4.60	+1.2	12	9.3	s.	31	sw.	10	5	8	17	7.1	1.6	.0	4
Terre Haute [2]	575	68	149	29.44	30.06	-----	46.2	-----	77	19	54	22	27	38	31	41	37	80	7.62	+4.3	12	11.5	s.	32	sw.	9	6	9	15	6.7	T	T	3
Cincinnati [2]	627	11	51	29.41	30.10	−.02	46.8	+4.3	75	19	55	20	27	39	33	42	38	76	4.85	+2.0	13	8.9	s.	32	sw.	10	8	6	16	6.8	.0	.0	1
Columbus [2]	822	90	110	29.20	30.09	−.02	44.8	+2.9	74	20	53	20	27	37	36	39	35	76	3.08	+.3	11	11.2	s.	38	s.	10	5	7	18	7.4	2.0	T	2
Dayton [2]	900	186	213	29.10	30.08	-----	45.4	+3.4	73	19	53	20	27	38	36	39	35	79	3.84	+1.0	11	12.0	sw.	40	sw.	10	5	6	19	7.4	T	T	0
Elkins [2]	1,947	61	78	28.04	30.13	+.01	43.5	+3.2	71	20	53	16	15	34	48	37	34	80	3.46	+.7	16	7.1	w.	35	w.	10	4	5	21	7.4	T	.0	0
Parkersburg	637	77	84	29.41	30.11	−.01	46.4	+2.6	75	20	55	22	28	38	37	42	37	74	2.48	−.1	11	6.7	se.	29	w.	10	7	6	17	7.0	T	.0	0
Pittsburgh [1]	842	39	54	29.18	30.09	−.01	42.6	+1.0	72	20	51	18	14	34	39	38	34	75	2.55	+.3	18	12.1	s.	41	nw.	13	5	8	17	7.2	1.8	.0	1
Lower Lake Region							**40.9**	**+2.0**										**79**	**3.42**	**+0.6**										**7.4**			
Buffalo [2]	768	243	180	29.19	30.04	−.01	40.3	+.9	63	10	47	19	14	34	29	36	32	79	4.26	+1.2	16	16.4	w.	59	sw.	12	5	10	15	6.9	8.7	1.5	0
Canton	448	10	61	29.51	30.00	-----	35.8	+1.9	65	17	45	11	15	27	32	32	29	81	2.47	−.7	15	8.7	sw.	33	sw.	10	3	9	18	7.4	6.9	3.7	1
Ithaca	836	77	100	-----	-----	-----	40.0	+1.4	66	20	48	19	14	32	----	-----	-----	----	3.02	+.7	15	10.4	nw.	34	s.	10	3	8	19	----	2.2	.5	0
Oswego	335	71	85	29.65	30.03	−.02	40.1	+1.2	65	20	47	20	15	34	24	36	31	72	2.91	−.5	21	11.3	s.	30	w.	10	6	8	16	7.0	8.7	3.1	0
Rochester [1]	523	5	69	-----	-----	-----	-----	-----	----	----	----	----	----	----	----	-----	-----	----	-----	-----	----	-----	----	----	-----	---	----	----	----	----	----	----	----
Syracuse [1]	596	5	51	29.38	30.04	−.02	39.8	+2.6	67	20	49	17	23	31	32	35	32	81	3.44	+.4	18	11.4	sw.	42	se.	10	4	11	15	6.9	8.7	T	0
Erie [2]	714	57	81	29.27	30.05	−.01	42.8	+1.4	65	20	49	25	27	37	30	37	34	79	3.67	+.4	15	10.0	sw.	28	w.	10	2	5	23	8.4	2.3	.0	0
Cleveland [1]	762	27	54	29.22	30.06	−.01	42.6	+3.6	70	20	51	22	27	34	36	38	34	76	3.30	+.7	17	13.3	sw.	42	sw.	10	5	3	22	7.9	3.5	1.0	2
Sandusky	629	5	67	-----	-----	-----	43.0	+1.9	71	20	51	22	27	35	36	-----	-----	----	4.05	+1.7	14	11.1	sw.	30	nw.	13	4	6	20	7.5	3.0	1.7	0
Toledo [2]	628	79	87	29.36	30.05	−.02	42.2	+1.8	69	19	50	21	14	34	35	37	34	80	3.25	+.8	12	10.4	w.	30	w.	26	6	7	17	7.0	4.5	2.7	1
Fort Wayne [1]	857	69	84	29.11	30.05	-----	41.6	+2.8	71	19	50	19	27	33	31	38	35	82	4.35	+1.5	12	10.4	sw.	32	nw.	10	5	7	18	7.3	6.2	4.1	3
Detroit [1]	730	5	78	29.24	30.04	−.02	41.2	+2.0	70	20	49	20	14	33	32	37	33	77	2.92	+.5	13	11.3	w.	35	w.	10	3	7	20	7.7	4.4	2.6	0
Upper Lake Region							**35.9**	**+1.5**										**79**	**2.70**	**+0.3**										**7.3**			
Alpena	609	5	89	29.30	29.98	−.03	36.2	+1.8	60	17	44	15	14	29	28	33	30	80	1.05	−1.6	13	11.7	nw.	37	nw.	13	4	6	20	7.5	2.4	T	0
Escanaba	612	51	72	29.29	29.97	−.06	33.7	+.6	53	17	40	10	29	27	25	30	26	76	1.72	−.4	11	11.9	nw.	38	nw.	13	6	8	16	6.8	2.6	.5	0
Grand Rapids [2]	707	70	244	29.23	30.01	−.04	41.0	+2.6	68	20	49	20	30	33	28	35	32	83	3.95	+1.2	13	13.1	s.	44	sw.	17	1	11	18	7.7	5.1	3.2	1
Lansing [1]	878	5	90	29.06	30.03	-----	38.9	+1.4	65	16	47	14	30	31	30	35	32	81	3.45	+1.0	14	10.1	sw.	29	s.	9	7	5	18	7.4	6.0	4.0	1
Marquette	734	44	73	29.13	29.94	−.08	33.2	−.1	60	16	40	10	30	27	24	29	25	77	3.49	+.6	14	10.2	s.	41	s.	4	3	13	14	7.1	15.4	7.2	0
Sault Sainte Marie [1]	614	11	43	29.27	29.96	−.05	31.6	−.4	54	17	39	5	14	24	26	29	27	86	3.61	+.6	14	11.8	se.	44	nw.	12	3	12	15	7.5	12.7	.6	0
Chicago [1]	673	19	38	29.28	30.02	−.05	40.9	+3.2	73	19	50	15	27	32	30	37	34	80	3.71	+1.2	13	11.8	s.	34	sw.	17	4	8	18	7.5	3.3	1.7	2
Green Bay	617	109	141	29.30	29.99	−.05	35.4	+1.4	64	16	42	11	27	28	25	31	27	73	1.81	−.4	9	11.4	s.	32	s.	16	4	8	18	7.3	1.8	1.0	0
Milwaukee [1]	681	33	66	29.25	30.00	−.05	39.0	+3.1	67	19	47	12	30	31	28	35	32	78	3.27	+1.5	10	14.7	nw.	39	s.	16	5	7	18	7.3	5.1	4.2	2
Duluth	1,133	5	47	28.71	29.96	−.08	28.8	+1.2	56	16	37	−2	30	20	29	24	20	79	.97	−.5	4	13.0	nw.	42	nw.	26	8	6	16	6.5	.5	.3	0
North Dakota							**27.9**	**+1.6**										**75**	**0.14**	**−0.6**										**5.8**			
Fargo	940	5	43	28.93	29.98	−.09	27.5	+.4	61	15	38	−8	30	17	31	24	20	77	.28	−.6	5	12.7	nw.	39	se.	3	6	13	11	6.1	2.7	2.0	0
Bismarck [1]	1,677	4	41	28.15	29.99	−.08	29.8	+3.3	66	14	41	0	28	18	41	25	20	73	.08	−.5	3	9.3	nw.	31	nw.	9	7	11	12	5.9	.7	.0	0
Devils Lake	1,478	11	44	28.34	29.96	−.10	26.2	+1.7	61	14	37	−6	30	16	40	23	18	78	.08	−.6	3	8.6	nw.	25	se.	3	8	7	15	6.3	1.4	.5	0
Lemmon, S. Dak	2,602	4	38	27.21	29.97	-----	31.3	-----	71	15	43	9	28	20	38	26	22	76	.21	-----	3	-----	nw.	----	-----	---	9	6	15	----	1.0	2.0	0
Grand Forks	832	11	71	29.04	29.98	-----	24.0	-----	54	15	35	−4	30	13	34	21	18	---	.33	-----	3	-----	nw.	----	-----	---	6	12	12	----	3.1	.2	0
Williston	1,878	42	50	27.94	29.98	−.08	28.2	+1.0	60	14	38	1	29	19	32	24	19	73	.10	−.5	5	6.4	sw.	28	w.	16	10	9	11	5.6	.7	.0	0
Upper Mississippi Valley							**41.5**	**+2.4**										**77**	**3.39**	**+1.4**										**6.8**			
Minneapolis [1]-St. Paul, Minn	919	32	61	28.97	29.99	−.07	33.6	-----	64	16	42	3	29	25	31	29	24	71	.27	−1.0	2	11.5	nw.	32	nw.	9	3	11	16	7.0	.9	.6	0
Springfield, Minn	1,025	4	42	28.86	29.99	-----	33.0	-----	65	15	44	−4	29	22	34	29	24	70	.35	-----	4	-----	nw.	----	-----	---	7	11	12	----	4.0	2.6	0
La Crosse [2]	714	11	48	29.20	29.99	−.08	36.4	+1.2	64	16	44	5	29	29	30	31	27	78	2.68	+1.1	9	6.2	s.	21	w.	12	3	10	17	7.3	10.8	7.9	0
Madison [2]	974	70	78	28.93	30.01	−.05	36.8	+1.6	64	19	44	12	27	30	30	33	30	83	2.84	+1.1	14	10.3	nw.	27	s.	16	4	7	19	7.4	4.4	4.4	0
Charles City	1,015	10	51	28.90	30.02	−.06	35.1	+2.1	68	16	44	0	29	26	30	31	28	81	1.78	+.2	9	7.4	se.	23	s.	4	7	6	17	6.7	12.8	9.0	0
Davenport [2]	606	66	161	29.35	30.03	−.05	40.9	+1.9	76	19	49	14	26	33	34	36	33	79	3.20	+1.4	15	11.3	nw.	29	sw.	15	5	8	17	7.0	2.8	2.2	2
Des Moines [2]	860	5	99	29.05	29.99	−.09	40.4	+2.0	76	19	49	8	29	31	33	35	31	76	1.73	+.3	10	10.9	se.	29	sw.	16	8	5	17	6.6	4.8	1.5	0
Dubuque	699	60	79	29.24	30.01	−.06	38.9	+1.9	74	19	47	10	27	31	29	35	30	71	3.60	+1.9	14	7.2	nw.	21	se.	4	5	12	13	6.9	5.8	3.6	2
Burlington, Iowa	702	6	35	29.24	30.01	−.08	40.7	+.4	77	19	50	14	27	32	36	37	33	77	4.45	+2.4	14	11.0	s.	33	s.	15	7	6	17	6.8	4.9	3.8	4
Cairo	357	5	99	29.70	30.09	−.03	51.8	+4.5	78	19	60	28	27	44	29	-----	-----	---	5.23	+1.6	15	10.0	s.	29	sw.	9	8	8	14	6.3	.0	.0	3
Peoria [2]	609	11	45	29.47	30.03	−.06	41.4	+3.9	75	19	50	17	27	33	33	38	36	84	4.72	+2.4	14	7.1	s.	20	s.	16	7	8	15	6.5	3.2	3.1	2
Springfield, Ill. [2]	636	5	191	29.34	30.04	−.06	45.3	+3.1	76	19	53	21	27	37	29	39	37	83	5.82	+3.3	11	13.0	s.	35	s.	16	5	7	18	7.1	4.0	2.3	4
St. Louis [5]	568	179	303	29.43	30.04	−.06	49.0	+3.6	80	19	57	23	27	41	33	43	37	70	4.40	+1.6	12	14.5	sw.	44	sw.	16	10	7	13	5.8	T	T	2
Missouri Valley							**41.0**	**+2.8**										**73**	**1.48**	**+0.1**										**6.0**			
Columbia, Mo. [2]	784	6	66	29.17	30.02	−.07	47.6	+4.3	80	19	57	21	27	38	36	41	37	76	3.41	+1.2	14	9.2	s.	24	nw.	9	9	9	12	6.1	.7	.0	3
Kansas City [1]	963	38	76	28.96	30.01	−.08	46.8	-----	77	19	56	18	29	38	39	42	37	73	2.74	+.9	12	12.1	sw.	40	sw.	16	9	4	17	6.5	.1	.0	4
St. Joseph [2]	967	1ı	49	28.96	30.01	-----	45.0	+3.5	78	19	54	14	29	36	31	39	36	81	1.60	.0	9	10.1	s.	31	nw.	9	10	7	13	5.6	2.3	T	1
Springfield, Mo. [1]	1,324	5	60	28.62	30.04	−.06	48.2	-----	77	18	58	20	27	39	35	43	39	77	4.43	+1.6	13	13.8	se.	38	s.	9	8	5	17	6.2	T	.0	5
Topeka	987	65	87	28.94	30.01	-----	46.2	+3.4	79	19	56	18	29	36	37	41	36	73	1.33	−.2	12	10.5	s.	32	nw.	9	10	9	11	5.6	1.1	.0	1
Lincoln [2]	1,189	11	81	28.70	30.00	−.08	42.0	+2.9	73	19	53	7	29	31	35	35	30	70	.25	−.8	8	10.8	s.	31	nw.	9	10	10	10	5.4	.9	T	0
Omaha [1]	1,105	31	44	28.80	30.00	−.08	40.8	+2.5	72	19	51	7	29	30	37	36	31	72	.18	−.9	6	13.0	s.	38	s.	4	8	8	14	6.3	1.0	T	0
Valentine	2,598	46	54	27.22	29.99	−.09	36.2	+1.6	73	14	50	1	29	22	46	29	21	60	.28	−.3	4	8.7	w.	34	s.	3	6	13	11	5.9	2.5	1.7	0
Sioux City [1]	1,138	5	27	28.75	30.00	−.08	36.2	+2.2	68	15	49	0	29	23	41	32	26	71	.43	−.6	4	11.5	nw.	36	nw.	9	7	7	16	6.6	3.1	2.7	0
Huron [1]	1,306	5	41	28.57	30.00	−.08	33.6	+2.1	71	14	46	−1	29	21	46	28	24	75	.19	+.4	5	12.8	nw.	46	s.	3	10	9	11	5.4	1.1	.7	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, 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 dewpoint	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	Number of days with thunderstorms
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F		° F	° F	° F	° F	%	In.	In.		Miles								0–10	In.	In.	
Northern Slope							32.8	−0.3										72	1.29	+0.6										6.7			
Billings [1]	3,570	18	39	26.23	29.96	-----	34.9	−.5	65	23	44	11	28	26	28	30	23	65	1.09	-----	7	12.6	sw.	49	nw.	1	5	11	14	6.6	7.5	4.5	0
Havre	2,507	11	67	27.27	29.98	−.05	28.7	−2.5	65	13	39	0	29	18	39	25	20	75	.73	+.1	9	8.7	sw.	26	sw.	15	7	6	17	6.6	14.2	4.9	0
Helena [1]	4,124	5	35	25.72	30.04	−.06	30.8	−1.0	63	23	41	6	21	21	37	27	22	73	.87	+.1	9	8.6	w.	39	sw.	24	3	11	16	7.2	11.5	6.1	0
Missoula [2]	3,205	80	91	26.60	30.05	-----	34.0	+.5	51	14	41	14	21	28	25	30	28	85	1.41	+.2	17	5.6	se.	28	w.	24	1	7	22	8.5	12.1	5.5	0
Kalispell	2,973	48	56	26.87	30.00	−.07	29.6	−2.8	53	23	36	12	26	24	19	28	26	85	2.39	+1.0	15	4.9	nw.	20	sw.	24	1	4	25	8.9	22.1	6.6	0
Miles City [2]	2,371	48	55	27.44	29.99	−.08	33.2	+2.3	67	14	44	6	30	23	42	27	22	72	.37	−.2	8	5.8	s.	23	n.	1	7	7	16	6.2	2.4	2.0	1
Rapid City [2]	3,259	50	58	26.55	29.99	−.09	36.1	+.2	78	3	49	8	28	23	47	29	22	67	.38	−.1	5	13.0	nw.	46	nw.	9	7	9	14	6.0	1.8	.5	1
Cheyenne [1]	6,094	5	39	23.93	29.99	−.08	36.0	-----	68	15	49	3	21	23	37	29	21	58	1.91	+1.4	8	12.5	nw.	49	nw.	29	7	15	8	5.5	18.2	T	0
Lander	5,352	60	68	24.60	30.04	−.06	29.4	−.9	67	3	42	−5	22	17	42	26	21	72	2.35	+1.8	9	5.6	sw.	43	sw.	24	8	11	11	5.5	23.2	1.0	0
Sheridan [6]	3,790	6	42	26.03	30.00	-----	31.8	−.9	68	13	44	−5	21	20	41	27	22	76	2.23	+1.6	11	7.9	nw.	47	sw.	18	4	8	18	7.1	24.0	3.4	0
North Platte [2]	2,821	11	51	27.01	29.99	−.09	39.0	+2.4	71	15	52	2	29	26	42	30	24	69	.25	−.2	4	7.9	w.	25	nw.	9	9	11	10	5.7	1.7	T	0
Middle Slope							46.4	+3.1										65	0.58	−0.6										5.1			
Denver [1]	5,292	106	113	24.67	29.94	−.12	43.0	+5.2	78	15	57	15	29	29	44	32	20	49	.23	−.3	3	7.7	s.	31	nw.	25	12	12	6	4.5	2.8	.0	0
Pueblo [1]	4,690	5	36	25.24	29.97	−.08	42.8	+4.5	76	12	61	13	22	24	53	32	22	53	.07	−.3	1	7.9	w.	52	sw.	15	11	12	7	4.9	1.2	.0	0
Concordia	1,392	50	58	28.52	30.02	−.06	43.4	+2.0	78	19	54	7	29	32	42	37	32	68	.64	−.4	8	8.9	s.	30	nw.	9	10	8	12	5.8	2.9	T	0
Dodge City [1]	2,509	10	86	27.36	29.99	−.08	44.6	+2.0	82	19	58	8	29	31	41	36	31	70	.06	−.7	4	15.7	s.	46	n.	25	9	9	12	5.5	.1	.0	0
Wichita [1]	1,358	6	64	28.53	30.01	−.07	46.8	+2.0	77	18	57	18	29	36	33	41	37	75	.68	−.7	8	16.1	s.	45	s.	15	12	7	11	5.3	1.3	.0	0
Oklahoma City [2]	1,214	10	47	28.73	30.02	−.06	52.2	+3.4	80	16	63	20	29	41	37	45	40	69	.73	−1.1	5	11.1	s.	27	nw.	25	16	6	8	4.3	T	.0	1
Tulsa	674	10	61	29.29	30.02	-----	51.8	+2.9	79	20	62	24	30	41	36	46	42	73	1.62	−.5	8	13.2	s.	43	sw.	16	8	11	11	5.6	.0	.0	2
Southern Slope							55.9	+4.1										63	0.28	−0.8										3.7			
Abilene [2]	1,738	10	56	28.20	30.01	−.06	58.2	+4.7	84	9	70	28	29	46	39	49	44	68	.29	−1.1	3	11.4	s.	30	n.	9	15	8	7	3.9	.0	.0	0
Amarillo [2]	3,676	10	49	26.25	29.99	−.06	49.2	+3.7	81	18	64	17	29	34	44	40	34	66	T	−.9	0	15.8	sw.	46	sw.	15	15	10	5	4.0	.0	.0	0
Del Rio	960	63	71	29.02	30.01	−.04	63.4	+3.4	88	25	74	33	23	52	47	55	49	64	.83	−.4	3	8.8	se.	27	nw.	21	14	8	8	4.2	.0	.0	1
Roswell	3,566	75	85	26.38	30.00	−.03	52.8	+4.7	84	19	70	22	22	35	52	42	32	54	.00	−.8	0	7.2	s.	34	nw.	30	20	8	2	2.8	.0	.0	0
Southern Plateau							57.3	+4.2										42	T	−0.5										2.5			
El Paso [2]	3,778	82	101	26.20	29.98	−.02	58.1	+5.4	84	8	72	31	23	45	37	43	32	44	.00	−.5	0	7.7	w.	27	w.	30	18	9	3	2.7	.0	.0	0
Albuquerque [1]	5,314	5	45	24.75	29.98	-----	48.1	+4.8	71	8	62	24	22	34	36	38	26	46	T	−.5	0	8.3	n.	39	nw.	30	17	9	4	3.2	T	.0	0
Phoenix [2]	1,107	39	87	28.79	29.94	−.04	63.5	+3.8	88	10	79	36	21	48	40	48	38	50	.01	−.7	1	4.1	e.	22	w.	19	17	11	2	2.9	.0	.0	0
Tucson [1]	2,555	5	23	27.34	29.94	-----	63.2	-----	86	2	79	28	21	47	41	48	33	37	T	−.8	0	-----	se.	----	-----	---	21	7	2	2.4	.0	.0	0
Yuma	142	9	54	29.79	29.94	−.04	65.7	+3.3	90	14	81	41	20	51	37	51	38	42	.00	−.3	0	5.6	n.	23	w.	19	25	5	0	1.1	.0	.0	0
Independence	3,957	5	26	26.01	30.06	+.01	51.0	+3.8	78	3	66	23	21	36	39	38	24	36	T	−.3	0	-----	DI	----	-----	---	---	---	---	----	.0	.0	0
Middle Plateau							40.6	+1.6										61	0.90	+0.2										5.7			
Reno [2]	4,527	61	76	25.49	30.08	−.03	42.0	+.5	74	2	59	14	10	25	52	35	29	65	.96	+.3	5	7.6	sw.	52	sw.	14	7	10	13	5.9	.3	.0	0
Tonopah	6,090	9	20	24.05	30.03	-----	42.6	-----	66	2	52	18	20	33	33	35	25	52	.02	−.3	1	-----	se.	----	-----	---	15	9	6	----	.4	.0	0
Winnemucca	4,339	5	56	25.65	30.08	−.06	39.8	+1.4	75	2	53	16	20	27	49	34	28	67	1.93	+1.2	9	9.0	sw.	52	sw.	15	6	10	14	6.4	1.6	.0	0
Modena	5,473	10	46	-----	30.08	.00	38.4	+2.0	71	2	53	5	21	24	----	----	----	64	.67	+.1	2	9.7	sw.	43	sw.	3	15	8	7	----	4.7	.0	0
Salt Lake City [1]	4,227	86	47	25.64	30.07	−.05	40.6	+1.2	69	2	51	21	26	30	36	35	29	68	1.68	+.5	12	10.0	se.	43	w.	29	8	6	16	6.2	1.8	.0	0
Grand Junction	4,602	60	68	25.41	30.02	−.06	42.4	+3.1	70	3	55	20	29	30	35	34	24	51	.13	−.4	3	5.9	nw.	42	sw.	3	11	14	5	4.3	T	.0	0
Northern Plateau							37.6	−0.8										79	2.50	+1.1										8.4			
Baker [2]	3,471	36	54	26.43	30.06	−.10	36.0	.0	55	2	44	14	20	28	29	32	29	80	1.51	+.5	15	6.3	se.	34	sw.	15	3	6	21	7.9	10.6	2.0	0
Boise [1]	2,739	5	49	27.19	30.07	−.10	39.6	−.1	64	2	48	23	20	31	28	36	33	76	2.31	+1.0	16	10.6	se.	47	nw.	15	4	7	19	7.4	.5	.0	1
Pocatello [1]	4,478	5	31	25.48	30.07	−.07	36.8	+2.7	65	3	46	16	11	28	34	32	28	76	2.18	+1.2	13	11.6	sw.	49	w.	15	5	5	20	7.5	1.3	.0	0
Spokane [1]	1,929	27	42	27.93	30.00	−.10	35.0	−3.5	53	23	41	12	30	29	24	34	31	84	2.69	+.6	17	6.7	sw.	34	sw.	14	0	4	26	9.3	7.2	3.5	0
Walla Walla	991	57	65	28.95	30.03	−.10	41.2	−1.6	67	23	47	24	28	35	26	----	----	---	3.48	+1.5	14	6.2	s.	29	nw.	14	0	3	27	9.3	6.1	1.0	0
Yakima	1,076	58	67	28.85	30.02	-----	36.8	−2.1	56	1	42	24	19	31	22	34	31	79	2.86	+2.0	4	4.3	w.	28	w.	29	2	4	24	8.7	8.4	3.2	0
North Pacific Coast Region							46.0	+0.2										82	10.63	+4.2										8.2			
North Head	211	5	56	29.70	29.93	−.12	47.4	−.8	65	12	52	37	26	42	21	45	42	83	12.29	+3.8	24	16.5	se.	60	s.	2	3	7	20	7.7	.0	.0	1
Seattle [2]	125	90	321	29.80	29.94	−.10	45.6	.0	57	2	50	34	20	41	19	42	39	84	9.40	+4.4	20	10.8	se.	47	sw.	2	1	7	22	8.5	.0	.0	0
Tacoma	194	172	201	29.73	29.94	−.10	44.4	−.2	57	22	50	32	11	39	22	44	40	76	9.23	+3.0	19	8.9	s.	36	s.	2	1	10	19	7.8	.0	.0	0
Tatoosh Island	86	9	61	-----	29.88	−.09	45.2	−.7	57	13	49	38	5	42	----	----	----	78	9.78	−2.2	22	19.3	e.	73	s.	2	1	11	18	----	T	.0	0
Medford [1]	1,329	29	58	28.64	30.06	-----	44.8	+1.0	64	11	52	29	20	37	35	43	40	84	8.62	+6.1	20	-----	nw.	18	nw.	29	2	7	21	8.3	.0	.0	0
Portland, Oreg. [3]	154	68	106	29.81	29.98	−.12	46.4	−.4	60	23	51	34	20	42	18	43	42	89	14.40	+8.3	24	6.2	se.	23	s.	14	3	5	22	8.2	.0	.0	1
Roseburg	510	45	76	29.48	30.04	−.08	48.3	+2.4	68	22	55	32	20	41	28	46	43	82	10.68	+6.0	20	3.8	s.	23	sw.	16	0	7	23	8.6	.0	.0	1
Middle Pacific Coast Region							53.6	−0.1										73	5.28	+1.8										6.4			
Eureka	60	72	88	30.02	30.09	−.02	52.0	+.9	70	12	58	37	20	46	24	49	46	82	8.60	+3.4	19	6.5	se.	26	sw.	14	6	7	17	7.0	.0	.0	1
Redding [1]	722	20	34	29.29	30.07	-----	53.2	−.9	78	1	61	37	19	45	28	46	37	60	5.83	+1.5	13	7.5	nw.	36	se.	14	5	6	19	7.0	.0	.0	1
Sacramento [2]	66	92	115	30.00	30.08	−.01	53.4	−.2	76	1	63	36	20	44	31	48	44	74	2.22	+.3	9	6.5	n.	27	s.	17	9	11	10	5.8	.0	.0	0
San Francisco	155	112	132	29.90	30.07	−.02	56.0	−.3	75	12	62	46	19	50	24	51	47	75	4.45	+2.1	12	6.6	w.	26	w.	3	8	12	10	5.7	.0	.0	1
South Pacific Coast Region							59.0	+1.5										68	0.45	−0.5										4.4			
Fresno [1]	327	5	35	29.73	30.09	+.03	52.6	+.2	77	12	64	32	21	41	35	49	45	75	.84	−.1	4	4.0	nw.	26	nw.	15	8	7	15	6.1	.0	.0	0
Los Angeles	338	223	250	29.64	30.00	−.02	63.5	+2.6	90	11	74	45	20	53	31	52	44	57	.24	−1.0	4	6.2	ne.	24	sw.	19	19	7	4	3.2	.0	.0	0
San Diego [1]	87	20	55	29.91	30.00	−.02	61.0	+1.7	86	11	71	42	21	51	34	54	51	73	.27	−.5	3	5.0	w.	19	w.	19	16	7	7	3.9	.0	.0	0
West Indies																																	
San Juan, P. R.	82	10	54	29.73	29.81	-----	79.3	+.9	89	4	84	72	6	75	14	75	73	83	8.77	+2.0	21	9.9	ne.	35	e.	21	2	15	13	6.9	.0	.0	7

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, 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 dewpoint	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	Number of days with thunderstorms
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F		° F	° F	° F	° F	%	In.	In.		Miles								0-10	In.	In.	
Panama Canal																																	
Balboa Heights	118	6	92	------	[3] 29.82	0.00	79.3	+.2	92	21	86	71	13	73	19	---	----	[3] 91	8.41	−1.8	19	4.4	nw.	20	nw.	18	0	17	13	7.4	0.0	0.0	2
Cristobal	27	47	97	------	[3] 29.83	.00	80.8	+1.5	91	8	86	74	8	76	17	75	75	[3] 83	12.60	−9.7	24	6.7	w.	21	nw.	25	1	7	22	8.1	.0	.0	4
Alaska																																	
Anchorage	135	36	47	------	[4] 29.72	------	15.8	−6.4	32	7	21	−8	27	10	---	13	10	82	.17	−.8	5	5.5	ne.	20	n.	18	9	4	17	----	2.1	1.0	0
Fairbanks	484	11	87	------	[4] 29.98	------	−6.4	−9.8	21	18	2	−41	26	−15	---	---	----	79	1.14	+.4	7	3.3	n.	25	w.	18	13	3	14	----	11.5	15.9	0
Juneau	132	96	116	------	[4] 29.71	------	31.4	−4.2	46	10	35	19	25	28	---	29	25	78	5.07	−4.0	18	7.7	w.	36	ne.	2	5	3	22	----	29.4	9.3	0
Nome	43	25	51	------	[4] 29.94	------	12.8	−3.0	34	1	19	−13	28	6	---	---	----	85	1.43	+.4	15	10.3	n.	41	n.	20	8	7	15	----	13.7	12.5	0
Hawaiian Islands																																	
Honolulu	38	86	100	29.90	29.94	------	77.0	+2.5	85	3	82	67	30	72	[1] 13	---	----	---	3.86	.0	11	8.0	ne.	30	sw.	30	2	14	14	7.0	.0	.0	5

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Alaska																																	
Bethel	22	5	32	[4] 29.58	[4] 29.62	------	30.2	-----	59	1	36	14	15,	25	19	30	27	83	1.82	------	14	------	n.	----	------	---	4	6	21	7.7	4.1	.5	--
Ketchikan	75	69	85	[4] 29.83	[4] 29.85	------	47.6	-----	56	8	52	34	27	43	16	46	43	84	25.82	------	26	8.6	se.	34	se.	3	0	3	28	9.0	.0	.0	--
McGrath	331	4	31	[4] 29.22	[4] 29.58	------	27.6	-----	61	1	34	9	30	21	29	29	25	86	1.63	------	14	------	n.	20	ne.	13	2	7	22	8.2	13.0	5.0	--
Nome	43	25	51	[4] 29.63	[4] 29.65	------	28.4	-----	58	1	34	10	20	23	23	28	24	78	1.45	------	12	9.4	n.	29	se.	31	10	10	11	5.9	11.7	4.3	--

[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 not reduced to a mean of 24 hours.
[5] Barometric data from airport; other data from city office records.
[6] Wind, clear, partly cloudy and cloudy data from city office records; other data from airport.

NOTE.—Except as indicated by notes 1, 2, 5, and 6, data in table are city office records.

SEVERE LOCAL STORMS, NOVEMBER 1942

[Compiled by Mary O. Souder]

[The table herewith contains such data as have 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
Three Forks to Trident, Mont., and the Missouri Canyon North.	15	3-6 a. m.	------	------	$2,000	Straight-line wind	Damage principally to roofs and sheds.
Bush City to Parker, Kans., and vicinities.	16	6 p. m.	500	------	2,500	Tornado	Several barns and farm buildings damaged; path 15 miles long and not continuous.
Brookhaven, L. I.	25	------	------	------	10,000	Electrical	Poultry building burned.

LATE REPORTS FOR OCTOBER 1942

Virginia, central and northern portions.	12-16	------	------	1	------	Torrential rains and floods.	Numerous highway and highway bridges washed away and about 1,300 persons made homeless in Albemarle, Spottslyvania, Stafford, and Warren Counties. Traffic of all kinds interrupted for 3 or 4 days. Loss in crops. In Madison County, 12.30 inches of rain fell in the 24 hours ending 4:30 p. m., on the 15th.
Paducah, Tex.	14	4-4:30 p. m.	[1] 20-25	------	90,000	Straight-line wind	Damage to buildings, $3,000; loss in baled cotton, $87,000.
Ridgely and Keyser, W. Va.	14-15	------	------	------	------	Heavy rain and flood.	Several hundred families forced to evacuate their homes; considerable damage to dwellings and business places by the silt deposits. Shocked corn and stacked hay washed away. Much loss in apple crop from heavy dropping of fruit.
Cumberland, Md.,—Washington, D. C.	15-17	6 p. m., of 15-8 a. m., of 17.	------	------	227,440	Flood	The Potomac River flood reached Cumberland, Md., at 6 p. m., of the 15th; Hancock at 5 p. m., Williamsport at 8 p. m., and Harpers Ferry, W. Va., at 7 p. m., of the 16th and Washington, D. C., at 8 a. m., of the 17th. Several homes moved from their foundations, and 722 families forced from their homes. In Washington, D. C., 1.5 feet of water covered Maine Avenue along the water front for an hour. Slight damage occurred at the Navy Yard and hundreds of homes in Georgetown were flooded.
Mena, Ark.	29	5:40 p. m.	100	0	15,000	Tornado	The tornado seemed to bounce along touching the ground at frequent intervals.
Randlett, Okla., vicinity of	29	6 p. m.	[1] 2	------	7,500	Hail	Loss in open cotton; path 8 miles long.
Oklahoma City, Okla., and vicinity.	29	8:21 p. m., C. S. T.	------	------	5,000	Straight-line-wind	Property damaged.
Berryville, Ark.	29	10:30 p. m.	880	29	500,000	Tornado	Over 100 persons injured and 600 homeless; about 137 homes and buildings destroyed and 65 damaged; path 1½ miles long.
Morrilton, Ark.	29	------	------	------	5,000	Wind	Property damaged.
Meeker, Okla., 3½ miles west.	30	9 p. m.	3	0	------	Tornado	Trees uprooted; window panes broken; a 6-room dwelling moved about 5 feet off its foundation; amount of loss not estimated.

[1] Miles instead of yards.