CLIMATOLOGICAL DATA

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

[For description of tables and charts, see REVIEW January 1942, 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	61.9	−2.9	2 stations	92	3	Valley Head	26	18	0.86	−2.16	Frisco City	2.60	Coffee Springs	0.00
Arizona	61.8	+.2	Yuma Citrus	108	1	Alpine	15	23	.80	−.06	Cibecue	2.46	Yuma Valley	.00
Arkansas	61.3	−1.5	4 stations	90	[1] 2	7 stations	27	[1] 16	2.48	+.27	Mena	6.51	Monticello	.50
California	60.2	+.2	2 stations	110	[1] 1	Boca	7	31	1.13	−.11	Elk Valley	10.53	6 stations	.00
Colorado	47.4	+.5	Two Buttes	92	11	Silverton	−1	31	.89	−.30	Ames	4.01	Box Ranch	.00
Florida	70.4	−2.6	Quincy	94	3	Vernon	29	[1] 18	2.75	−1.38	Tavernier	15.46	3 stations	.00
Georgia	62.5	−2.5	6 stations	94	[1] 15	Tallapoosa	26	18	.65	−2.01	Dahlonega	3.71	19 stations	.00
Idaho	49.0	+1.8	2 stations	95	[1] 1	Sun Valley	−3	23	2.24	+.73	Deception Creek	6.41	Bruneau	.27
Illinois	55.0	−.7	Olney	89	1	Freeport	21	28	2.08	−.59	La Harpe	4.36	Belvidere	.72
Indiana	54.2	−.8	Forest Reserve	92	10	4 stations	25	[1] 18	1.60	−1.19	La Porte	2.67	Kokomo	.57
Iowa	51.6	−.1	4 stations	87	[1] 9	3 stations	15	16	1.66	−.70	Maquoketa	4.59	Winterset	.32
Kansas	55.8	−1.5	Ashland	96	18	Burr Oak (near)	11	27	1.67	−.31	Pleasonton	5.38	Phillipsburg	T
Kentucky	56.7	−1.7	Princeton	89	11	St. John	21	18	1.67	−1.01	Jenkins	3.76	Taylorsville	.55
Louisiana	65.3	−3.2	2 stations	90	[1] 3	Tallulah	29	17	1.50	−1.82	Pearl River	5.08	Colfax	.19
Maryland-Delaware	54.6	−1.7	Woodstock, Md	86	9	Oakland, Md	19	5	5.18	+2.10	Newark, Del	7.71	Oakland, Md	1.76
Michigan	47.6	−1.1	Wayne	85	12	Kenton	12	28	1.94	−.79	Suttons Bay	3.64	Stambaugh	.81
Minnesota	47.6	+1.1	Montevideo	87	8	Hallock	11	30	1.70	−.17	Grand Marais	4.63	Faribault	.42
Mississippi	63.1	−2.4	Bay Springs	92	3	2 stations	26	[1] 17	.92	−1.67	Pearlington	2.48	Hickory Flat	.04
Missouri	56.3	−1.4	Union	90	20	do	19	[1] 16	3.23	+.26	Ava Ranger Station	6.61	Albany	.62
Montana	48.0	+3.0	Glasgow	96	4	Wisdom	5	[1] 23	1.34	+.26	Belton	3.65	Columbus	.08
Nebraska	52.0	+.3	Benkelman	91	11	3 stations	14	16	1.17	−.29	Oakdale	3.35	Naponee	T
Nevada	52.9	+2.3	Overton	102	1	Goloonda	10	31	.93	+.30	Arthur	3.07	2 stations	.00
New England	49.9	+.4	Providence, R. I	84	9	Somerset, Vt	14	11	5.27	+1.74	Rockland, Maine	9.86	Block Island, R. I	2.53
New Jersey	53.5	−1.1	2 stations	87	[1] 7	2 stations	18	11	7.55	+3.94	Lakewood	13.94	Cape May	4.20
New Mexico	53.0	−.7	3 stations	92	[1] 1	Eagle Nest	9	27	.47	−.69	Red River	2.60	21 stations	.00
New York	49.0	−1.0	Port Jervis	85	7	2 stations	14	[1] 10	5.34	+2.01	New York University	11.56	Angelica	2.59
North Carolina	58.4	−1.6	Monroe	92	21	Mount Mitchell	15	18	.94	−2.33	Highlands	3.00	Southport	T
North Dakota	48.2	+4.2	Crosby	89	3	Edmore	10	30	.76	−.25	Wahpeton	2.02	Drake	.04
Ohio	52.2	−1.4	Ironton	87	[1] 1	Fredericktown	24	20	1.76	−.78	Jefferson	4.13	Columbus	.95
Oklahoma	60.7	−1.8	4 stations	95	[1] 18	2 stations	20	27	2.82	−.25	Quinton	11.61	Goodwell	.06
Oregon	49.9	+.1	2 stations	93	1	Olive Lake	8	31	3.60	+1.66	Valsetz	16.57	Enterprise	.56
Pennsylvania	50.1	−2.5	Phoenixville	89	7	Philipsburg	17	6	5.62	+2.34	Pine Grove	10.68	Lake Lynn	2.15
South Carolina	61.9	−1.9	Miley	94	21	3 stations	26	18	.33	−2.53	Longcreek	3.94	15 stations	.00
South Dakota	51.3	+2.6	Philip	91	11	Philip	12	21	1.72	+.54	Mitchell	4.73	Ottumwa	.36
Tennessee	57.3	−2.5	2 stations	88	[1] 1	Erwin	19	18	1.56	−1.26	Sneedville	3.98	McKenzie	.26
Texas	65.5	−2.2	Follett	95	18	Miami	24	27	1.33	−1.43	Trinidad	9.80	2 stations	.00
Utah	51.6	+2.5	St. George	94	1	Clear Creek	−2	31	2.00	+.84	Silver Lake (Brighton)	5.82	Callao	.02
Virginia	56.0	−1.4	Clarksville	89	[1] 1	3 stations	22	[1] 18	2.50	−.50	Onley	7.12	Wytheville	.80
Washington	50.7	+.8	Mottinger	93	2	Republic	15	31	4.09	+1.17	Naselle	13.70	Quincy (near)	.94
West Virginia	52.4	−2.3	Hamlin	89	1	Pickens	19	21	2.26	−.59	Romney	5.45	Shinnston	.92
Wisconsin	48.3	.0	Danbury	85	8	Brule Island	15	28	2.10	−.36	Richland Center	6.59	Oshkosh	.80
Wyoming	46.6	+2.9	3 stations	89	[1] 5	South Pass City	6	21	1.19	+.09	Bechler River	4.66	Saratoga	.17
Alaska (September)	44.0	−.1	View Cove	78	7	Wainwright	12	27	5.11	+1.50	Little Port Walter	35.28	Point Lay	.08
Hawaii	74.9	+.7	Waianae	94	21	Kailiili	52	25	2.79	−3.08	Kahana	25.20	9 stations	.00
Puerto Rico	78.1	−.1	Utuado	95	28	Guineo Reservoir	56	[1] 2	12.28	+4.54	Toro Negro Reservoir	31.45	Barceloneta	3.92

[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 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 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.	%	In.	In.		Miles								0-10	In.	In.	
New England							**51.1**	**0.0**									**79**	**4.71**	**+1.1**										**6.6**			
Eastport	75	67	85	29.85	29.94	−0.06	49.4	+1.9	72	9	54	32	10	44	23	42	81	5.11	−1.6	17	11.8	n.	33	se.	16	8	4	19	6.8	T	0.0	0
Greenville, Maine	1,070	6	41	28.79	29.97	------	44.5	−.4	73	13	54	19	11	35	47	39	----	7.74	+4.2	17	------	n.	----	------	----	5	9	17	----	T	.0	0
Portland, Maine [1]	103	5	43	29.83	29.95	−.09	49.1	------	79	9	58	25	11	41	38	42	83	6.55	+3.4	14	9.8	n.	35	e.	16	11	4	16	6.3	T	.0	0
Concord [1]	289	4	45	29.64	29.97	−.08	49.2	−.5	80	9	60	22	11	38	47	42	82	4.33	+1.5	14	7.1	nw.	30	e.	16	7	3	21	6.9	.0	.0	0
Burlington [1]	403	6	64	29.52	29.97	−.07	47.9	−1.3	78	13	57	25	10	39	41	40	81	3.82	+.8	14	8.8	n.	31	s.	14	5	5	21	7.4	T	.0	0
Boston [1]	124	33	62	29.81	29.96	−.09	53.8	------	81	9	61	35	25	47	28	43	72	4.82	+1.7	13	11.9	nw.	41	ne.	26	7	5	19	7.1	.0	.0	0
Nantucket	12	11	59	29.92	29.95	−.10	55.4	−1.2	75	2	60	41	12	50	22	49	85	3.72	+.3	14	13.1	ne.	37	ne.	10	8	5	18	6.6	.0	.0	0
Block Island	26	11	46	29.92	29.96	−.09	55.2	+.3	70	9	60	43	20	50	20	47	78	2.53	−1.0	11	18.2	w.	49	e.	26	14	5	12	5.1	.0	.0	0
Providence [2]	159	46	60	29.78	29.97	−.08	54.1	+1.9	84	9	62	31	11	46	33	44	79	4.39	+1.3	9	8.9	n.	35	sw.	28	7	6	18	6.7	.0	.0	0
Hartford [1]	159	5	44	29.79	29.98	−.08	52.0	+.8	83	9	63	26	11	41	44	42	77	4.82	+1.3	10	8.8	n.	32	s.	28	7	6	18	6.7	.0	.0	0
New Haven [1]	107	5	39	29.85	29.98	−.08	52.6	−1.2	73	9	61	30	11	44	35	44	76	4.03	+.7	12	8.4	ne.	26	w.	28	11	5	15	5.9	.0	.0	0
Middle Atlantic States							**55.0**	**−1.4**									**75**	**5.39**	**+2.4**										**5.5**			
Albany [1]	97	26	40	29.85	29.97	−.09	50.0	+.7	77	9	59	22	11	40	40	40	78	4.92	+2.5	13	8.6	n.	32	n.	9	8	5	18	6.5	.0	.0	0
Binghampton [2]	871	60	79	29.04	30.01	−.05	49.4	−.6	80	7	59	28	6	40	42	39	82	5.98	+3.0	10	5.8	w.	20	sw.	17	8	4	19	6.9	T	.0	1
New York	314	415	454	29.62	29.97	−.09	55.0	−1.3	78	9	62	41	31	48	28	43	70	9.24	+5.7	11	14.9	w.	46	s.	16	9	8	14	5.8	.0	.0	2
Harrisburg [1]	374	30	49	29.58	30.00	−.08	53.5	−1.3	84	8	62	35	11	44	37	42	73	6.82	+3.9	10	7.6	w.	29	s.	16	12	4	15	5.8	.0	.0	2
Philadelphia [1]	114	6	56	29.84	29.98	−.09	54.0	−3.8	82	8	63	35	11	45	37	44	77	5.21	+2.4	10	9.7	sw.	32	ne.	26	9	6	16	6.4	.0	.0	0
Reading	323	47	306	29.63	30.00	------	53.8	−1.7	82	8	63	34	11	45	35	----	----	6.76	+3.6	11	11.2	nw.	34	e.	1	11	5	15	5.8	.0	.0	1
Scranton	805	72	104	29.12	30.00	−.07	50.4	−1.5	78	8	59	30	6	42	41	----	----	6.49	+3.5	9	6.7	n.	21	se.	16	9	5	17	6.1	T	.0	1
Atlantic City	52	37	172	29.90	29.98	−.09	56.4	−.5	75	2	63	41	21	50	26	48	78	7.93	+4.7	9	16.6	w.	57	ne.	26	11	6	14	5.9	.0	.0	0
Trenton	190	89	107	29.76	29.99	------	54.0	−1.6	81	8	62	36	11	45	33	44	76	5.12	+2.3	11	9.1	nw.	34	ne.	26	9	10	12	5.7	.0	.0	2
Baltimore [2]	123	100	215	29.85	29.99	−.09	56.6	−1.6	84	9	65	42	18	48	32	45	73	6.29	+3.4	8	10.2	n.	34	n.	26	11	5	15	5.7	.0	.0	3
Washington [2]	112	56	100	29.87	30.00	−.08	56.4	−1.0	84	9	66	40	21	47	37	45	72	4.29	+1.4	9	7.1	n.	23	ne.	26	11	8	12	5.5	.0	.0	0
Cape Henry	18	8	54	29.95	29.98	------	59.9	−2.2	83	9	66	44	29	54	29	50	77	4.46	+1.4	7	12.4	ne.	34	ne.	25	14	10	7	4.5	.0	.0	2
Lynchburg	686	144	184	29.27	30.00	−.09	57.8	−.7	84	2	70	31	18	46	39	44	70	1.30	−1.8	7	6.7	nw.	26	nw.	23	18	6	7	3.4	.0	.0	0
Norfolk [2]	91	80	125	29.89	30.00	−.07	60.2	−2.3	81	9	67	43	29	53	27	50	80	3.90	+.9	7	9.2	ne.	24	ne.	25	15	9	7	4.5	.0	.0	2
Richmond	144	11	52	29.82	29.98	−.10	58.2	−1.4	82	9	70	35	18	47	36	45	74	2.11	−.8	6	7.7	sw.	26	sw.	16	17	7	7	3.9	.0	.0	2
South Atlantic States							**62.7**	**−1.5**									**75**	**0.43**	**−2.8**										**3.7**			
Asheville	2,253	77	92	27.68	30.04	−.05	54.9	−.4	83	21	67	26	18	43	41	41	72	.59	−2.2	9	6.7	nw.	26	nw.	17	9	10	12	5.5	.0	.0	0
Charlotte [2]	779	63	86	29.17	30.01	−.07	60.8	−.9	88	21	72	34	18	49	35	46	73	.35	−2.6	4	6.0	ne.	21	nw.	22	16	9	6	3.9	.0	.0	0
Greensboro [1]	886	5	56	29.06	30.01	------	57.0	------	85	1	71	25	18	43	42	44	74	.74	------	7	7.3	ne.	25	nw.	22	18	6	7	3.5	.0	.0	3
Hatteras	11	5	50	29.95	29.97	−.09	63.5	−2.4	78	1	69	47	20	58	21	56	82	1.42	−3.5	5	13.0	ne.	31	w.	28	16	8	7	4.1	.0	.0	1
Raleigh [1]	376	27	69	29.59	30.00	−.07	60.1	−.7	84	1	72	35	18	48	38	46	72	.81	−2.0	5	8.4	ne.	30	w.	16	20	6	5	3.2	.0	.0	3
Wilmington	72	73	107	29.90	29.98	−.08	63.7	−1.6	84	21	74	38	18	53	31	53	80	.02	−3.2	1	8.4	ne.	22	w.	16	19	8	4	3.0	.0	.0	0
Charleston [2]	48	11	92	29.93	29.99	−.07	65.6	−2.2	85	22	74	42	18	57	25	53	82	.05	−3.2	3	9.9	n.	23	ne.	11	20	7	4	2.9	.0	.0	0
Columbia, S. C. [2]	349	70	91	29.62	30.01	−.06	63.4	−.9	89	21	76	35	18	51	36	51	80	.13	−2.4	4	7.6	ne.	22	sw.	30	17	9	5	3.3	.0	.0	0
Greenville, S. C. [1]	1,040	18	36	28.90	30.01	------	60.2	.0	85	21	71	32	18	50	32	44	66	.82	−2.3	6	7.8	ne.	25	n.	22	13	9	9	4.4	.0	.0	2
Augusta [2]	182	62	77	29.80	30.00	−.07	63.6	−1.7	91	21	76	35	18	51	39	45	59	.01	−2.4	1	5.2	nw.	19	ne.	6	19	8	4	3.1	.0	.0	0
Savannah [2]	65	73	152	29.93	30.00	−.05	66.2	−1.7	90	21	78	40	18	55	34	53	77	.06	−2.9	1	9.8	ne.	27	w.	28	18	7	6	3.2	.0	.0	0
Jacksonville [2]	43	86	110	29.94	29.99	−.03	67.6	−3.5	88	22	77	42	17	58	35	56	80	.48	−4.0	5	7.9	ne.	23	ne.	6	15	9	7	3.8	.0	.0	0
Florida Peninsula							**75.1**	**−1.7**									**82**	**4.30**	**−1.5**										**4.8**			
Key West [2]	21	10	64	29.87	29.90	−.04	78.2	−.9	89	9	83	64	28	74	16	70	82	7.95	+2.0	10	10.4	e.	25	w.	1	11	10	10	5.0	.0	.0	5
Miami [2]	25	242	249	29.88	29.92	−.05	75.2	−1.8	88	4	80	56	28	71	17	67	86	3.91	−4.5	10	11.7	ne.	36	se.	25	11	11	9	5.3	.0	.0	3
Tampa [1]	35	6	43	29.91	29.96	−.02	71.8	−2.5	87	14	81	48	17	63	31	61	78	1.04	−2.0	4	10.3	ne.	30	ne.	7	18	3	10	4.0	.0	.0	2
East Gulf States							**64.2**	**−2.5**									**74**	**0.81**	**−2.1**										**3.6**			
Atlanta [1]	1,173	33	72	28.78	30.01	−.06	60.8	−1.9	85	20	71	35	18	50	34	46	68	.47	−2.2	4	8.9	nw.	31	nw.	16	14	9	8	4.4	.0	.0	1
Macon [2]	370	79	87	29.61	30.00	−.06	62.4	−2.1	91	20	75	34	18	50	46	46	64	.19	−2.2	2	6.3	nw.	18	nw.	16	17	7	7	3.8	.0	.0	0
Thomasville	273	49	58	29.72	------	------	66.9	−1.3	90	21	80	36	17	54	37	----	----	.04	−2.9	1	------	------	----	------	----	17	10	4	----	.0	.0	0
Apalachicola	35	11	51	29.95	29.99	------	67.4	−3.2	85	3	76	44	17	59	25	57	76	.25	−2.9	1	8.6	nw.	22	e.	4	18	9	4	3.3	.0	.0	0
Pensacola	56	54	79	29.96	30.01	−.02	67.0	−2.9	87	3	76	40	27	58	29	54	76	1.11	−3.1	1	7.6	n.	19	nw.	16	17	10	4	3.5	.0	.0	0
Anniston	741	9	----	------	------	------	59.6	−2.8	85	3	72	30	18	47	39	----	----	1.30	−1.3	4	------	nw.	----	------	----	16	8	7	----	.0	.0	1
Birmingham [1]	700	5	62	29.28	30.04	−.03	60.4	−4.4	88	3	74	31	17	47	43	48	76	1.26	------	4	7.4	e.	26	nw.	15	13	7	11	4.6	.0	.0	1
Mobile [2]	57	86	161	29.96	30.03	−.01	65.8	−3.5	86	4	76	40	17	55	33	53	76	.83	−2.8	3	6.6	n.	23	nw.	25	18	11	2	3.0	.0	.0	1
Montgomery [2]	218	92	105	29.78	30.01	−.05	64.3	−2.3	87	3	75	39	17	53	35	49	69	1.05	−1.4	3	6.7	n.	20	s.	16	17	10	4	3.4	.0	.0	1
Meridian [2]	375	67	92	29.63	30.03	−.03	63.5	−.8	89	3	76	33	17	50	38	50	77	1.99	−.4	3	5.6	ne.	20	s.	13	14	9	8	4.1	.0	.0	0
Vicksburg [2]	247	82	102	29.77	30.03	−.03	64.4	−2.3	86	11	75	38	27	54	29	50	85	1.33	−1.4	3	8.1	n.	25	w.	24	13	14	4	3.9	.0	.0	1
New Orleans [4]	53	50	84	29.96	30.02	−.01	68.1	−2.9	83	3	76	44	28	60	25	57	73	.36	−2.9	2	7.0	se.	18	nw.	25	23	6	2	2.2	.0	.0	1
West Gulf States							**67.6**	**−0.8**									**72**	**1.58**	**−1.6**										**3.6**			
Shreveport [1]	249	5	64	29.76	30.03	−.02	65.6	.0	87	21	78	37	28	54	35	52	72	2.07	−.6	5	9.2	n.	32	s.	12	17	11	3	3.4	.0	.0	4
Fort Smith	463	57	82	29.53	30.01	−.04	61.5	−1.3	81	11	71	37	28	52	33	51	74	4.79	+1.8	7	7.0	e.	25	n.	23	16	8	7	4.0	.0	.0	2
Little Rock [1]	357	5	58	29.65	30.03	−.03	62.1	−1.5	84	10	74	34	17	50	36	49	69	4.40	+1.7	7	8.2	nw.	29	e.	23	14	6	11	4.5	.0	.0	1
Austin [1]	605	10	46	29.38	30.01	------	68.3	.0	86	21	79	40	28	58	40	54	69	.33	−2.9	3	9.0	n.	24	s.	19	16	7	8	3.9	.0	.0	2
Brownsville [1]	57	----	96	29.90	29.96	------	73.6	−1.3	87	22	83	51	26	64	28	64	80	1.62	−2.0	5	9.6	nw.	28	s.	29	13	13	5	4.3	.0	.0	0
Corpus Christi [1]	20	4	33	29.97	30.00	.00	72.0	+.9	86	15	82	48	27	62	30	61	76	.81	------	6	10.6	se.	32	ne.	13	20	6	5	3.0	.0	.0	2
Dallas [1]	512	5	45	29.47	30.02	------	65.4	------	85	21	77	32	27	54	33	51	67	.64	−2.1	5	10.6	s.	34	nw.	12	19	5	7	3.5	.0	.0	2
Fort Worth [1]	679	5	56	29.31	30.02	−.01	66.3	+.6	86	21	77	36	27	56	32	49	63	.73	−2.1	6	11.4	s.	41	w.	12	15	10	6	3.7	.0	.0	3
Galveston [2]	54	106	114	29.95	30.01	−.02	71.0	−1.7	84	2	76	50	27	66	18	62	78	.65	−3.7	3	9.8	n.	25	nw.	13	18	9	4	3.3	.0	.0	2
Houston [2]	138	157	190	29.87	30.02	------	70.0	−.3	87	21	80	40	27	60	27	56	74	1.31	−2.4	3	10.1	se.	30	nw.	13	18	8	5	3.6	.0	.0	3
Palestine	510	64	72	29.51	30.05	+.02	66.2	−1.0	85	21	76	36	27	56	29	53	69	1.20	−2.1	5	7.2	s.	26	nw.	12	19	6	6	3.2	.0	.0	1
Port Arthur	34	59	134	29.98	30.02	------	68.9	------	86	2	78	40	27	60	24	57	74	1.06	−2.3	2	11.3	n.	32	n.	13	19	9	3	3.0	.0	.0	1
San Antonio [1]	693	6	51	29.29	30.01	.00	67.6	−2.9	87	31	80	40	28	56	42	54	69	.17	−2.1	4	8.0	ne.	24	ne.	13	15	9	7	3.9	.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 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 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.	
Ohio Valley and Tennessee							55.5	−1.4									75	1.74	−0.9										4.8			
Chattanooga [1]	762	6	66	29.21	30.03	−.06	56.3	−1.4	84	20	71	28	18	42	43	46	82	2.39	−.6	6	5.6	ne.	28	nw.	15	15	6	10	4.8	.0	.0	1
Knoxville [1]	995	27	53	28.97	30.04	−.05	56.8	−3.1	82	2	69	30	18	44	36	45	74	3.70	+1.1	6	6.6	ne.	31	w.	15	12	10	9	4.5	.0	.0	1
Memphis [4]	399	5	86	29.60	30.03	−.04	60.8	−2.5	84	11	73	30	17	49	37	47	72	.45	−2.2	3	8.2	n.	21	n.	15	15	6	10	4.3	.0	.0	0
Nashville [1]	546	5	72	29.44	30.04	−.04	58.8	−2.2	86	1	71	33	17	47	39	44	69	.81	−1.7	5	7.7	n.	26	s.	13	14	9	8	4.3	.0	.0	0
Lexington	989	6	---	28.97	30.07	−.05	56.9	−.5	88	1	70	32	18	44	43	---	---	1.61	−1.0	11	---	s.	---	---	---	19	4	8	3.8	.0	.0	0
Louisville [2]	525	106	120	29.46	30.03	−.05	58.2	+.7	83	1	67	39	17	49	33	43	70	1.12	−1.5	7	8.2	n.	27	s.	13	18	3	10	4.4	.0	.0	0
Evansville [1]	431	12	40	29.56	30.04	−.04	56.2	−.8	85	1	68	30	17	44	38	44	73	1.48	−1.3	7	8.2	n.	26	s.	13	13	10	8	4.7	.0	.0	0
Indianapolis [1]	823	5	54	29.14	30.03	−.04	53.4	−.7	84	1	65	27	17	42	38	42	76	1.37	---	7	9.9	ne.	31	w.	18	15	7	9	4.6	.0	.0	1
Terre Haute [3]	575	68	149	29.42	30.05	---	56.6	---	87	1	68	33	17	46	34	43	76	2.01	−.7	8	9.4	n.	26	s.	13	13	10	8	4.7	T	.0	0
Cincinnati [2]	627	11	51	29.35	30.04	−.04	56.1	+.4	86	11	67	34	17	45	39	42	78	1.36	−1.2	11	7.2	ne.	23	sw.	18	18	3	10	4.5	.0	.0	0
Columbus [2]	822	90	110	29.14	30.03	−.05	54.3	−.9	81	11	64	34	18	45	36	40	74	.95	−1.5	7	8.6	n.	40	sw.	18	15	4	12	4.7	T	.0	0
Vandalia [1]	1,003	6	55	28.95	30.04	---	53.8	−1.2	81	1	64	34	18	44	32	42	75	2.08	−.5	8	10.3	n.	39	w.	18	14	7	10	4.7	T	.0	1
Elkins [2]	1,947	61	78	27.97	30.05	−.05	49.6	−2.7	76	12	60	28	6	39	46	40	83	1.54	−1.4	11	5.4	nw.	23	sw.	18	11	5	15	5.9	T	.0	0
Parkersburg	637	77	84	29.32	30.02	−.06	54.4	−1.7	82	1	65	32	20	43	40	44	77	1.29	−1.2	9	5.2	n.	22	sw.	18	15	5	11	5.0	T	.0	1
Pittsburgh [1]	842	39	54	29.10	30.00	−.08	51.2	−2.9	78	8	60	35	18	43	34	39	72	3.58	+1.1	12	9.9	nw.	26	nw.	22	9	7	15	6.4	T	.0	1
Lower Lake Region							50.0	−1.6									79	3.71	+0.8										6.2			
Buffalo [1]	768	34	96	29.17	30.01	−.04	48.4	−3.5	79	13	57	32	19	40	33	40	80	4.01	+.7	11	12.6	ne.	38	sw.	29	9	7	15	6.2	1.5	.0	0
Canton	448	10	61	29.49	29.98	---	47.2	.0	80	13	56	25	10	38	37	39	79	4.49	+1.5	15	8.7	e.	30	e.	27	4	9	18	7.2	.0	.0	1
Oswego	335	71	85	29.61	29.99	−.06	49.0	−2.2	73	13	56	34	10	42	28	41	75	6.23	+3.0	15	9.3	n.	26	ne.	9	8	6	17	6.5	.0	.0	1
Rochester [1]	523	5	69	29.43	30.02	−.03	48.6	−.9	78	13	57	31	11	40	39	40	81	4.51	+1.9	13	9.6	w.	38	w.	29	7	7	17	6.7	T	.0	0
Syracuse [1]	596	5	57	29.35	30.02	−.04	48.6	−.9	77	7	58	26	25	39	38	41	83	5.44	+2.3	15	8.9	sw.	28	sw.	17	6	8	17	6.8	.0	.0	1
Erie [2]	714	57	81	29.24	30.02	−.03	51.0	−2.4	81	12	57	34	18	45	32	41	82	6.40	+2.7	15	8.6	e.	24	w.	17	7	9	15	6.7	8.2	.0	1
Cleveland [1]	762	27	54	29.19	30.03	−.03	51.8	−.9	82	12	61	32	17	42	36	42	77	3.40	+.6	15	10.4	sw.	35	ne.	15	11	7	13	5.7	T	.0	0
Sandusky	629	5	67	29.34	30.04	−.02	53.1	−1.2	83	12	61	34	17	45	31	---	---	2.01	−.4	15	9.3	ne.	25	nw.	16	12	5	14	5.5	T	.0	0
Toledo [1]	628	5	47	29.34	30.04	−.01	50.9	−2.5	82	12	61	31	20	41	41	41	80	2.06	−.3	12	10.6	ne.	34	nw.	16	12	7	12	5.5	T	.0	0
Fort Wayne [1]	857	5	33	29.10	30.04	---	50.9	−1.8	80	1	62	29	19	40	40	40	76	.98	−1.6	6	7.7	ne.	32	w.	18	12	10	9	5.0	T	.0	0
Detroit [1]	730	5	78	29.24	30.04	−.01	50.8	−1.1	81	12	59	32	17	42	37	40	76	1.30	−1.1	10	9.7	n.	31	n.	16	10	6	15	5.9	1.0	.0	0
Upper Lake Region							48.4	+0.6									78	1.70	−0.9										5.6			
Alpena	609	5	89	29.37	30.05	+.02	46.5	−.6	79	6	53	32	17	40	41	39	82	1.88	−.8	11	10.6	nw.	30	se.	13	7	8	16	6.5	2.0	.0	0
Escanaba	612	51	72	29.38	30.06	+.05	47.3	+1.3	82	6	54	31	28	40	40	39	78	2.08	−.6	6	12.3	n.	34	n.	16	8	9	14	6.1	T	.0	0
Grand Rapids [2]	707	70	244	29.27	30.05	+.01	50.9	−.3	81	12	59	34	27	42	33	39	79	1.30	−1.5	8	10.8	n.	35	sw.	13	11	7	13	5.5	T	.0	0
Lansing [2]	878	5	90	29.09	30.05	---	48.4	−1.9	77	12	57	32	16	40	33	40	82	1.80	−.7	9	8.2	n.	25	w.	18	11	5	15	5.8	1.7	.0	0
Marquette	734	44	73	29.24	30.06	+.05	47.2	+.5	80	6	54	29	26	40	30	38	77	2.02	−.7	12	8.8	nw.	27	s.	10	9	7	15	6.3	3.0	.0	0
Sault Ste. Marie [1]	614	11	43	29.36	30.05	+.04	44.2	+1.2	77	12	53	28	18	35	40	36	81	2.72	−.4	9	10.5	e.	36	sw.	14	10	7	14	5.6	2.5	.0	0
Chicago [1]	673	5	36	29.31	30.05	+.01	53.7	+1.2	82	11	63	31	17	44	33	41	73	1.49	−1.1	9	9.7	ne.	26	n.	16	12	7	12	5.0	T	.0	0
Green Bay	617	109	141	29.38	30.06	+.04	49.0	+.5	80	6	57	31	30	41	34	39	73	.83	−1.7	7	11.0	n.	28	ne.	9	10	8	13	5.6	T	.0	0
Milwaukee [1]	681	33	66	29.30	30.06	+.03	50.3	+.8	82	11	59	33	30	42	33	40	73	.83	−1.5	5	12.8	nw.	36	s.	13	12	10	9	4.8	.0	.0	0
Duluth [2]	1,133	5	47	28.83	30.07	+.07	47.0	+2.9	82	8	56	25	17	38	35	34	78	2.09	−.2	5	12.2	ne.	42	nw.	13	13	9	9	5.0	T	.0	0
North Dakota							48.8	+5.3									64	1.07	−0.1										4.4			
Fargo [1]	940	5	43	28.99	30.02	+.02	48.4	+3.9	85	11	62	20	30	35	42	35	68	1.64	.0	4	12.1	s.	40	se.	19	17	7	7	3.7	T	.0	1
Bismarck [1]	1,677	5	43	28.19	29.98	−.01	49.0	+5.4	86	10	63	22	17	35	50	34	66	1.54	+.6	6	10.2	se.	38	nw	12	14	8	9	4.5	5.0	3.7	1
Devils Lake	1,478	11	44	28.41	30.01	+.02	48.0	+5.6	83	8	62	17	30	34	43	32	62	.40	−.8	3	8.7	se.	26	se.	19	15	6	10	4.6	1.5	1.5	2
Lemmon, S. Dak.	2,602	4	38	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Grand Forks [1]	832	4	41	29.11	30.03	---	47.1	---	87	8	62	16	30	32	46	33	---	1.02	---	4	---	s.	---	---	---	18	6	7	---	T	.0	0
Williston	1,878	42	50	27.95	29.94	−.04	49.6	+6.2	87	4	63	25	17	36	43	33	62	.70	−.2	3	6.2	se.	26	w.	20	15	3	13	4.7	.7	.2	0
Upper Mississippi Valley							53.1	0.0									73	2.06	−0.4										4.4			
Minneapolis-St. Paul, Minn. [1]	919	43	61	29.05	30.06	+.05	49.4	+.5	79	8	60	26	17	39	32	37	69	1.30	−.8	5	8.8	se.	29	se.	19	15	7	9	4.6	T	.0	3
Springfield, Minn	1,020	4	42	28.94	30.05	---	50.0	---	82	8	62	23	16	38	36	37	71	1.86	---	5	---	sw.	---	---	---	20	4	7	---	T	.0	2
La Crosse [1]	714	5	29	29.28	30.06	+.04	48.4	−1.9	77	8	60	24	30	37	40	38	78	2.09	−.2	8	7.8	n.	27	s.	13	18	3	10	4.2	T	.0	1
Madison [2]	974	70	78	29.01	30.08	+.05	50.8	+.5	78	11	59	29	17	43	25	38	76	1.48	−1.0	7	8.2	nw.	23	se.	13	16	6	9	4.4	T	.0	1
Charles City	1,015	10	51	28.98	30.09	+.07	48.8	+.2	78	11	60	23	17	37	35	---	---	1.91	−.4	6	5.4	se.	20	s.	12	18	2	11	4.1	T	.0	1
Moline [1]	606	6	50	29.41	30.07	+.03	52.2	−1.5	82	9	64	28	28	40	36	40	74	3.24	---	6	8.3	w.	32	se.	13	15	6	10	4.5	.0	.0	2
Des Moines [2]	860	5	99	29.11	30.04	+.01	53.0	−.4	84	9	65	27	16	42	37	40	69	.75	−1.8	3	8.2	n.	27	se.	19	18	4	9	3.8	.0	.0	2
Dubuque	699	81	96	29.31	30.06	+.02	51.8	−.1	79	11	62	30	17	41	31	39	69	3.23	+.8	7	5.4	nw.	17	se.	12	14	6	11	4.7	T	.0	2
Burlington, Iowa [1]	702	6	35	29.29	30.06	+.01	54.2	+.4	83	10	66	25	17	42	37	41	74	3.27	+.6	6	7.5	nw	33	s.	12	14	6	11	4.3	T	.0	3
Cairo	357	5	99	29.65	30.04	−.03	59.3	−1.1	83	1	69	32	17	49	31	---	---	1.61	−1.2	10	8.6	n.	24	se.	13	16	6	9	4.4	.0	.0	1
Peoria [1]	609	11	45	29.41	30.08	+.03	53.8	+1.8	81	10	64	29	17	43	35	42	73	1.60	---	5	9.4	n.	28	s.	13	17	5	9	4.0	.0	.0	0
Springfield, Ill. [2]	636	5	191	29.36	30.06	+.01	56.8	+1.0	82	1	67	31	17	47	32	41	74	2.76	+.2	11	10.9	n.	31	s.	13	14	5	12	5.0	T	.0	2
St. Louis [5]	568	6	303	29.43	30.05	−.01	58.8	.0	84	20	68	34	17	50	32	46	75	2.22	−.5	8	11.0	nw.	30	s.	12	15	6	10	4.4	.0	.0	1
Missouri Valley							54.0	+0.1									68	2.10	−0.1										3.6			
Columbia, Mo. [2]	784	6	66	29.19	30.05	.00	56.3	−.3	82	19	67	29	17	46	33	43	72	3.85	+1.2	8	6.8	n.	18	sw.	20	15	9	7	4.3	.0	.0	3
Kansas City [1]	963	38	76	29.00	30.03	−.01	56.6	−1.1	85	10	68	29	16	46	36	43	68	1.93	−.8	7	9.1	ne.	26	s.	11	17	8	6	3.7	.0	.0	1
St. Joseph [2]	967	11	49	29.00	30.04	---	55.8	−.2	85	10	67	29	16	44	33	42	70	1.54	−1.4	6	7.5	s.	23	nw.	13	21	3	7	2.9	.0	.0	1
Springfield, Mo. [1]	1,324	5	60	28.64	30.04	−.01	55.6	−2.0	80	29	67	28	16	44	35	44	77	3.99	+.9	7	10.3	s.	32	se.	23	16	5	10	4.1	.0	.0	5
Topeka	987	65	87	28.97	30.03	---	56.4	−.6	86	10	68	30	16	45	34	43	68	2.43	.0	7	8.0	s.	27	s.	19	19	4	8	3.6	.0	.0	1
Lincoln [2]	1,189	11	81	28.75	30.04	+.01	53.7	−.5	87	10	67	24	16	40	44	36	65	1.53	−.4	6	8.0	s.	36	nw.	13	15	9	7	3.9	.0	.0	2
Omaha [1]	1,105	5	68	28.85	30.04	+.01	52.9	−.5	86	9	67	22	16	39	44	39	66	.55	−1.6	5	9.7	s.	40	se.	20	16	10	5	3.5	.0	.0	0
Valentine	2,598	46	54	27.27	29.99	−.02	51.2	+1.9	84	8	66	24	26	36	45	32	59	1.61	+.5	3	8.4	s.	34	nw.	12	20	8	3	3.1	4.5	3.0	1
Sioux City [1]	1,138	64	106	28.80	30.03	+.01	51.2	+1.5	84	9	65	22	16	37	44	37	67	1.63	−.1	5	9.0	se.	33	nw.	13	20	4	7	3.5	.0	.0	2
Huron [1]	1,301	5	41	28.61	30.01	.00	50.2	+2.5	85	8	65	25	14	36	48	36	70	1.99	+.7	6	12.0	se.	49	se.	19	17	6	8	3.7	4.0	.5	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 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 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.
Northern Slope							49.7	+4.1									60	1.06	0.0										5.0			
Billings [1]	3,570	24	39	26.28	29.93	-----	53.2	+5.2	86	4	66	29	31	40	43	34	54	.29	-----	4	10.2	sw.	47	nw.	13	9	11	11	5.5	T	.0	0
Havre	2,507	11	67	27.32	29.94	−.04	50.0	+5.5	91	3	65	23	15	35	51	32	59	1.10	+.4	7	6.7	w.	26	nw.	13	11	9	11	5.1	1.2	T	0
Helena [1]	4,124	5	35	25.77	29.97	−.06	47.4	+3.6	80	3	60	24	14	34	43	33	61	.51	−.1	5	7.0	w.	37	w.	13	10	7	14	5.8	T	.0	1
Missoula [2]	3,205	80	91	26.62	30.00	-----	49.6	+4.8	83	3	60	27	31	39	39	36	69	1.73	−.5	8	5.7	se.	28	nw.	5	8	12	11	5.8	T	.0	1
Kalispell	2,973	48	56	26.91	29.97	−.04	46.2	+2.7	77	3	56	26	20	37	36	38	75	1.28	+.2	11	4.7	w.	18	w.	13	7	6	18	6.9	T	.0	2
Miles City [1]	2,371	5	28	27.45	29.94	−.06	51.6	+5.1	86	3	67	26	15	37	46	34	59	1.65	-----	6	-----	se.	-----	-----	-----	12	9	10	5.1	1.2	1.0	0
Rapid City [1]	3,259	5	63	26.60	29.96	−.05	51.8	+3.3	86	11	66	24	21	37	41	29	52	1.12	+.2	5	14.1	nw.	57	nw.	12	13	10	8	4.6	2.6	1.4	1
Cheyenne [1]	6,094	5	40	24.01	29.96	−.05	47.2	+2.4	76	10	63	19	15	32	44	28	54	.54	−.4	4	9.7	w.	34	nw.	13	15	9	7	4.0	.5	.0	1
Lander	5,352	60	68	24.65	29.96	−.08	47.8	+4.3	77	3	62	22	15	33	44	28	51	1.06	−.3	4	4.5	sw.	19	sw.	11	12	13	6	4.5	8.5	1.0	0
Sheridan [1]	3,790	5	38	26.09	29.96	-----	50.5	+5.9	87	3	66	23	21	35	47	31	58	.87	−.2	7	8.0	nw.	42	nw.	31	14	8	9	4.3	1.7	T	0
North Platte [2]	2,821	11	51	27.06	30.00	−.02	51.8	+2.1	84	19	68	26	26	36	49	33	64	1.35	+.3	2	6.7	s.	30	n.	12	17	10	4	3.5	1.0	.0	0
Middle Slope							56.2	−0.4									60	1.74	−0.2										3.1			
Denver [2]	5,292	106	113	24.74	29.95	−.06	54.0	+2.8	83	18	67	29	31	41	41	24	38	.26	−.8	2	7.0	s.	26	w.	13	21	6	4	2.9	2.5	T	0
Pueblo [1]	4,690	5	36	25.30	29.97	−.02	51.2	.0	83	18	69	24	15	33	57	27	48	.17	−.5	3	7.9	nw.	52	sw.	19	17	10	4	3.0	T	.0	0
Concordia	1,392	50	58	28.55	30.04	+.01	54.6	−1.3	86	9	68	27	16	42	39	40	66	1.43	−.5	6	6.9	s.	31	nw.	13	19	6	6	3.2	.0	.0	4
Dodge City [1]	2,509	5	58	27.40	29.99	−.03	55.3	−.8	89	18	69	28	27	42	45	40	65	2.51	+1.2	7	13.0	s.	45	nw.	12	22	4	5	2.7	.0	.0	5
Wichita [1]	1,358	6	64	28.58	30.01	−.02	57.6	−1.0	83	10	69	32	27	46	34	43	67	1.83	−.8	8	13.4	s.	36	s.	19	21	3	7	3.0	.0	.0	4
Oklahoma City [2]	1,214	10	47	28.73	30.02	−.01	61.4	−.1	84	14	72	32	27	50	33	46	65	1.28	−1.6	4	8.6	s.	24	sw.	30	21	4	6	3.2	.0	.0	2
Tulsa [1]	674	10	61	29.30	30.02	-----	59.0	−2.6	82	10	70	33	27	48	36	47	72	4.72	+1.4	8	10.6	s.	30	n.	14	17	8	6	3.6	.0	0	4
Southern Slope							62.8	−0.4									60	0.87	−1.0										3.1			
Abilene [2]	1,738	10	56	28.20	29.99	−.02	65.2	−.2	90	14	78	34	27	52	41	47	61	1.20	−1.3	3	9.3	s.	28	s.	19	21	4	6	2.9	.0	.0	1
Amarillo [1]	3,676	5	42	26.28	29.99	−.01	57.6	−.1	89	18	72	32	27	43	46	38	59	.72	−.9	6	13.6	sw.	46	sw.	19	16	11	4	3.3	.0	.0	6
Del Rio	960	63	71	29.00	29.98	.00	68.6	−1.4	86	30	78	48	28	59	30	56	69	1.55	−.3	6	7.3	se.	25	n.	1	17	6	8	4.2	.0	.0	3
Roswell	3,566	75	85	26.40	29.98	+.02	59.6	+.1	89	17	76	34	21	43	50	37	49	.01	−1.4	1	7.8	s.	34	nw.	12	21	8	2	1.9	.0	.0	0
Southern Plateau							66.0	+2.0									42	0.13	−0.4										1.9			
El Paso [1]	3,778	5	85	26.20	29.92	.00	63.8	+1.8	85	17	78	38	21	50	40	36	39	T	−.8	0	9.3	se.	32	w.	30	22	8	1	2.3	.0	.0	1
Albuquerque [1]	5,314	5	48	24.78	29.94	-----	56.8	+.2	81	17	71	34	21	43	38	34	47	.22	−.6	4	8.1	se.	38	w.	19	24	6	1	2.2	.0	.0	3
Phoenix [2]	1,107	39	87	28.73	29.84	−.04	72.9	+2.3	97	1	87	46	20	59	42	45	45	.17	−.3	1	5.8	e.	29	w.	18	24	2	5	2.2	.0	.0	1
Tucson [1]	2,555	6	30	27.30	29.86	-----	70.8	-----	94	1	85	41	21	57	49	40	38	.25	−.3	3	-----	se.	-----	-----	-----	24	3	4	2.3	.0	.0	0
Yuma	142	9	54	29.69	29.81	−.06	76.2	+2.9	107	1	92	48	31	61	41	48	44	.03	−.2	1	5.0	w.	27	w.	18	29	2	0	.7	.0	.0	2
Independence	3,957	5	26	25.96	29.95	.00	60.2	+2.7	89	1	75	29	30	46	38	34	40	.10	−.2	1	-----	s.	-----	-----	-----	-----	-----	-----	-----	.0	.0	1
Middle Plateau							52.6	+2.2									53	0.75	0.0										4.5			
Reno	4,227	20	52	25.44	29.95	−.04	50.2	−.6	88	1	69	16	31	32	51	33	58	.32	.0	3	7.5	nw.	40	se.	17	11	10	10	4.9	.0	.0	1
Tonopah	6,090	9	20	24.05	29.95	-----	52.3	+.2	79	1	62	24	31	42	30	31	51	.81	+.4	3	-----	se.	-----	-----	-----	16	13	2	-----	2.0	.0	2
Winnemucca	4,339	5	56	25.61	29.96	−.09	51.0	+2.7	90	1	67	15	31	35	48	32	54	.86	+.2	10	7.2	sw.	27	nw.	2	10	10	11	5.1	T	.0	3
Modena	5,473	10	46	24.62	29.93	−.03	51.0	+3.0	79	1	67	18	31	35	45	-----	-----	.43	−.3	4	9.4	w.	37	sw.	18	11	16	4	4.2	T	.0	2
Salt Lake City [1]	4,227	32	46	25.60	29.95	−.06	54.8	+4.0	86	2	67	29	22	42	38	36	55	1.61	+.3	8	9.2	se.	34	w.	19	12	9	10	5.1	T	.0	4
Grand Junction	4,602	60	68	25.39	29.95	−.04	56.6	+3.8	80	4	70	31	31	44	37	32	45	.46	−.5	6	6.0	se.	31	sw.	18	18	10	3	3.2	T	.0	3
Northern Plateau							51.8	+2.6									65	1.79	+0.6										6.7			
Baker [2]	3,471	36	54	26.42	29.99	−.09	48.4	+1.8	86	1	60	23	23	36	45	36	73	1.08	+.2	9	5.4	s.	17	nw.	5	5	12	14	6.7	.3	.0	2
Boise [1]	2,739	5	49	27.13	29.95	−.11	53.9	+3.8	86	1	65	27	31	42	35	38	57	1.42	+.2	10	10.4	se.	38	w.	17	8	7	16	6.6	T	.0	1
Pocatello [1]	4,478	5	31	25.46	29.97	−.07	50.4	+3.9	83	2	64	26	15	37	46	33	58	1.43	−.2	10	9.0	sw.	30	sw.	11	7	11	13	6.2	4.1	T	1
Spokane [1]	1,929	27	42	27.93	29.97	−.09	50.2	+1.9	87	4	60	25	31	40	43	39	72	3.13	+2.0	11	5.4	ne.	27	sw.	11	5	8	18	7.2	T	.0	2
Walla Walla	991	57	65	28.90	29.96	−.11	54.9	+1.4	86	7	64	32	20	46	31	-----	-----	2.23	+.7	12	5.0	s.	22	s.	24	8	5	18	6.7	.0	.0	0
Yakima	1,076	58	67	28.80	29.95	−.10	52.8	+2.6	87	7	64	29	23	42	32	-----	-----	1.45	+.8	9	4.7	nw.	24	nw.	11	6	6	19	7.0	.0	.0	1
North Pacific Coast Region							54.6	+2.3									79	5.86	+2.0										7.2			
North Head	211	5	56	29.71	29.92	−.13	54.5	+1.6	77	6	59	41	31	50	22	50	86	8.52	+3.5	19	14.2	s.	64	s.	24	5	7	19	7.5	.0	.0	3
Seattle [2]	125	90	321	29.82	29.94	−.11	54.3	+.6	75	6	60	38	31	48	20	47	79	5.73	+2.9	14	8.7	se.	34	sw.	21	6	3	22	7.3	.0	.0	0
Tacoma	194	172	201	29.75	29.94	−.10	53.5	+3.0	78	1	60	34	31	47	32	-----	-----	5.01	+1.7	15	7.5	s.	28	sw.	11	6	10	15	6.6	.0	.0	0
Tatoosh Island	86	9	53	29.83	29.91	−.10	53.2	+3.3	69	6	57	42	22	50	17	47	81	7.95	−.2	16	16.3	e.	64	e.	23	6	8	17	6.6	.0	.0	1
Medford [1]	1,329	29	58	28.58	29.98	-----	54.6	+1.0	90	1	67	32	31	42	45	43	70	3.68	+2.3	14	-----	nw.	-----	-----	-----	5	7	19	7.3	T	.0	0
Portland, Oreg. [2]	154	68	106	29.80	29.96	−.10	56.4	+2.2	83	6	63	42	31	50	26	49	81	6.12	+3.1	13	5.1	se.	19	ne.	6	4	8	19	7.5	.0	.0	1
Roseburg	510	45	76	29.44	29.98	−.10	56.0	+2.1	85	8	66	38	31	46	37	47	75	3.91	+1.3	16	3.5	w.	26	sw.	10	3	9	19	7.4	.0	.0	0
Middle Pacific Coast Region							60.6	+0.3									68	1.64	0.0										5.2			
Eureka	60	72	88	29.96	30.02	−.04	55.0	+1.4	72	7	60	39	31	50	17	51	86	4.61	+2.3	15	6.3	se.	24	s.	24	6	7	18	7.3	.0	.0	0
Redding [1]	722	20	34	29.18	29.93	-----	62.9	−1.4	92	14	73	40	19	53	31	40	49	1.03	−1.1	7	7.3	nw.	23	nw.	10	11	8	12	5.6	.0	.0	1
Sacramento	66	92	115	29.85	29.91	−.08	63.4	+.5	94	5	75	41	31	51	37	45	60	.16	−.8	4	6.3	s.	20	sw.	6	17	6	8	3.7	.0	.0	0
San Francisco [2]	155	112	132	29.80	29.95	−.06	61.2	+.7	81	5	67	50	31	55	25	51	79	.74	−.4	5	7.6	w.	26	w.	16	14	11	6	4.1	.0	.0	0
South Pacific Coast Region							65.6	+1.7									66	0.15	−0.4										3.5			
Fresno [1]	327	5	35	29.57	29.92	−.04	64.4	+2.1	97	6	79	38	31	50	37	48	60	.06	−.5	3	5.2	nw.	22	nw.	10	20	7	4	3.1	.0	.0	0
Los Angeles	338	223	250	29.57	29.91	−.04	66.6	+1.3	90	5	76	47	19	57	26	53	62	.18	−.5	3	5.9	w.	25	w.	18	19	9	3	3.6	.0	.0	0
San Diego [1]	87	20	53	29.83	29.91	−.04	65.8	+1.7	79	25	73	49	31	58	25	58	77	.20	−.3	3	6.2	w.	19	sw.	18	15	13	3	3.8	.0	.0	0
West Indies																																
San Juan, P. R.	82	9	54	29.79	29.90	-----	80.4	+.6	90	26	85	73	14	76	15	74	82	6.14	+.3	12	8.1	se.	31	e.	12	0	20	11	6.5	.0	.0	9
Panama Canal																																
Balboa Heights	118	6	92	-----	[3] 29.82	.00	79.0	−.2	91	6	85	71	14	73	1	-----	[3] 86	10.27	+.2	29	6.1	s.	23	nw.	24	0	9	22	8.0	.0	.0	8
Cristobal	27	47	97	-----	[3] 29.82	−.01	81.4	+1.6	92	10	87	74	24	76	16	74	[3] 82	10.23	−5.6	17	6.6	s.	26	nw.	30	0	10	21	8.0	.0	.0	5

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 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 temperature of the dew-point	Mean relative humidity	Percipitation: Total	Percipitation: Departure from normal	Percipitation: 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
Alaska	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	In.	In.		Miles								0-10		In.	In.
Anchorage	132	5	22	----	29.53	----	36.5	+.5	57	6	44	7	30	29	----	32	76	.47	−1.7	7	3.9	ne.	17	s.	6	3	6	22	----	T	T	0
Fairbanks [1]	455	4	63	29.11	29.62	----	29.5	+2.9	60	6	38	−2	131	21	31	25	78	.87	.0	13	5.1	e.	30	se.	5	5	5	21	7.4	5.0	4.2	0
Juneau [1]	80	6	21	----	29.76	----	42.3	----	59	6	48	41	30	36	----	39	84	9.26	----	19	9.5	e.	40	e.	6	3	4	24	----	T	.0	1
Nome	22	25	56	----	29.57	----	32.0	+2.7	51	8	38	2	29	27	----	----	82	1.25	−.3	15	9.6	ne.	33	sw.	30	5	5	21	----	3.1	2.0	0
Hawaiian Islands																																
Honolulu	38	86	100	29.96	29.98	----	78.0	+1.2	85	1	83	71	30	74	12	----	----	.24	−1.3	11	8.7	ne.	23	e.	23	8	18	5	5.0	.0	.0	0
Alaska																**Late Reports for September 1943**																
Bethel	28	7	31	29.58	29.62	----	42.4	−2.9	61	2	49	26	25	36	21	38	81	1.73	+1.5	15	----	n.	----	----	----	3	7	20	8.1	.4	.0	0
Fairbanks	455	4	63	29.14	29.64	----	43.6	.0	66	1	54	27	18	34	33	37	76	1.12	−.2	12	6.0	e.	26	sw.	13	1	2	27	8.8	T	.0	0
Ketchikan	75	69	90	29.98	30.00	----	54.2	+.5	72	7	60	38	18	48	25	49	84	15.00	+2.8	19	7.5	se.	22	se.	25	2	5	23	8.5	.0	.0	0
Kotzebue	20	5	31	29.66	29.67	----	39.6	−1.2	57	1	44	27	30	35	15	35	83	1.00	+.3	14	----	w.	----	----	----	2	7	21	8.0	T	.0	0
McGrath	331	5	31	29.27	29.65	----	43.6	----	63	1	50	29	24	37	25	37	77	1.80	----	17	----	n.	18	sw.	13	0	6	24	8.8	.5	.0	0
Northway	----	5	32	27.85	----	----	43.8	----	65	1	53	25	18	34	30	35	73	.57	----	----	----	nw.	----	----	----	0	13	17	8.0	T	.0	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 office records, other data from airport.

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

SEVERAL LOCAL STORMS, OCTOBER 1943

(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
Norfolk, Hampton Roads, and Cape Charles, Va., and vicinities.	Sept. 29–Oct. 1	P. m., Sept. 29	[1] 50	1	$20,000,	Gales and heavy rains.	This storm of tropical origin reached these areas on the night of Sept. 29. High tides and heavy rains caused flooding of some streets in the downtown portion of Norfolk. A small ship and several small boats were sunk. Property damage was estimated at $5,000; loss in crops about $15,000.
Michigan, eastern, upper and north-central lower peninsulas.	Oct. 16–19	----	----	----	----	Snow	More than 10 inches fell at several stations. Highway and rail traffic hampered and snow plows were required to clear roads on the 17th; however, all snow had melted by the 20th. Although snowfall in much of southern Lower Michigan and western Upper Michigan was of little consequence this was the third snowiest October of record.
Altus, Okla	22	----	----	----	250,000	Hail	Severe loss in cotton and feed crops over an area 30 by 7 miles in parts of Greer, Harmon, and Jackson Counties. Near the center of the area, cotton and feed were a total loss. Estimated loss in cotton alone, $250,000.
Cloud Chief and Cordell, Okla.	22	----	----	----	5,000	do	Much loss in cotton over a path 10 by 5 miles.
Stillwater, Okla	23	----	----	----	35,000	do	Severe loss to 40 airplanes at the Municipal Airport.
Coasts of New York and New Jersey.	27	----	----	----	----	Wind and rain	A 75-mile-an-hour wind, accompanied by torrential rains, battered the New York and New Jersey coasts, causing property damage which may run into millions of dollars. High seas, augmented by an incoming tide, raced over breakwaters and poured tons of water and sand over coastal highways the length of New Jersey and Long Island. Vehicular traffic was virtually halted and in some places railroad service was abandoned when roadbeds were washed out. Many cities and towns were without electric service and the Bell Telephone Company reported that 100 of its lines were down in Monmouth County, N. J. Sections of boardwalks in several New Jersey resort cities were swept away. In Wildwood, N. J., and vicinity, 5 public schools were closed, the pupils being marooned in their homes.
Hickman, Nebr., vicinity of	30	P. m.	400	0	4,000	Tornado and hail	Funnel-cloud observed. A considerable fall of hail occurred, but there was no damage, as crops had been previously gathered. Path 5 or 6 miles long.
Lincoln, Nebr., vicinity of	30	do	----	0	4,000	Tornado	Damage to farm buildings.

[1] Miles instead of yards.