CLIMATOLOGICAL TABLES [1]

CONDENSED CLIMATOLOGICAL SUMMARY

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures, with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data as indicated by the several headings.

The mean temperature for each section, the highest and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course, the number of such records is smaller than the total number of stations.

Condensed climatological summary of temperature and precipitation by sections, August, 1928

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	80.9	+1.3	3 stations	100	[2] 4	Riverton	57	22	4.55	+0.01	Saint Bernard	9.20	Demopolis	0.92
Arizona	78.9	−0.6	Mohawk	117	9	Bright Angel	29	6	2.20	+0.07	Bisbee	7.50	2 stations	0.00
Arkansas	81.3	+1.6	Texarkana	105	28	Lurton	51	31	4.62	+0.93	Thornburg	10.57	Portland	0.73
California	71.7	0.0	2 stations	121	[2] 1	Helm Creek	22	[2] 4	0.01	−0.08	McCloud	0.35	209 stations	0.00
Colorado	63.8	−1.2	Eads	104	19	2 stations	20	[2] 21	1.31	−0.68	Savage Basin	4.45	Nast	0.10
Florida	81.4	0.0	5 stations	100	[2] 23	4 stations	66	[2] 3	9.82	+2.71	Monticello	22.19	Bonifay	2.68
Georgia	79.9	+0.5	3 stations	100	[2] 3	2 stations	56	[2] 22	9.99	+4.77	Macon	20.52	Rome	3.45
Idaho	64.5	−1.4	Cambridge	108	9	Stanley	18	[2] 29	0.25	−0.42	Cottonwood	1.20	9 stations	0.00
Illinois	75.4	+1.2	McLeansboro	99	9	Mount Carroll	44	31	3.53	+0.08	Effingham	7.13	Astoria	0.60
Indiana	74.6	+1.3	2 stations	99	9	Wheatfield	44	25	3.80	+0.49	Bloomington	5.79	Salamonia	1.39
Iowa	72.7	+1.0	Inwood	100	1	2 stations	37	24	6.42	+2.98	Decorah	12.80	Corydon	2.16
Kansas	76.9	−0.6	Oberlin	104	19	Oberlin	35	24	3.11	+0.08	Emmett	7.73	Dresden	0.32
Kentucky	77.0	+1.4	Quicksand	101	7	2 stations	54	23	4.33	+0.62	Eubank	7.35	Earlington	1.60
Louisiana	83.3	+1.6	Plain Dealing	104	21	3 stations	65	12	4.13	−1.06	Franklin	11.23	Logansport	0.00
Maryland-Delaware	75.7	+2.4	Millsboro, Del	100	6	Oakland, Md	41	13	9.20	+4.93	Cheltenham, Md	18.68	Cumberland, Md	3.23
Michigan	68.0	+1.4	Five Channels	100	10	Vanderbilt	28	25	3.50	+0.68	Bay City	8.57	Groton	0.89
Minnesota	67.1	+0.4	Fergus Falls	101	14	Meadow Lands	30	25	6.03	+2.86	Albert Lea	12.28	Hallock	1.62
Mississippi	82.6	+2.1	Holly Springs	104	13	Hernando	60	31	3.57	−0.79	Biloxi	8.85	Yazoo City	0.22
Missouri	76.4	+0.4	Clinton	99	15	Louisiana	45	22	5.35	+1.67	Galena	11.24	Hannibal	0.96
Montana	62.5	−1.9	2 stations	107	11	Conway's Ranch	21	29	1.37	+0.22	Adel	4.00	Heron	T.
Nebraska	73.8	+1.0	Greeley	109	10	Ewing	31	24	1.54	−1.27	Falls City	6.96	2 stations	T.
Nevada	70.6	−0.3	Logandale	115	9	Rye Patch	29	27	0.07	−0.37	McGill	0.45	12 stations	0.00
New England	70.1	+3.3	3 stations	98	[2] 5	2 stations	35	[2] 12	4.68	+0.74	East Hartland, Conn.	11.16	Hyannis, Mass	0.38
New Jersey	74.5	+2.7	2 stations	99	[2] 3	Layton	45	13	6.72	+1.99	Belvidere	14.26	Ashbury Park	3.33
New Mexico	68.7	−1.7	Cambray	104	6	Selsor Ranch	25	6	3.25	+0.67	Cloudcroft	8.44	Tularosa	0.10
New York	70.8	+3.5	2 stations	99	[2] 4	Allegany State Park	34	13	4.63	+0.86	High Falls	10.65	Avon	0.83
North Carolina	77.6	+1.9	Weldon	101	6	2 stations	47	[2] 23	8.39	+3.19	Linville Falls	20.95	Hatteras	1.13
North Dakota	64.8	−0.6	Beach	105	11	Pembina	25	31	3.30	+1.02	Edgeley	9.17	Pembina	0.20
Ohio	74.0	+2.2	Middleport	99	9	Millport	43	31	2.65	−0.87	Ironton	6.62	Larue	0.59
Oklahoma	81.3	+0.3	2 stations	106	[2] 21	Goodwell	41	24	3.07	−0.26	Pryor	10.31	Altus	0.17
Oregon	65.1	−0.4	Pittsburg	108	8	Fremont	22	15	0.07	−0.43	Lake	0.37	48 stations	0.00
Pennsylvania	73.4	+3.4	Phoenixville	99	4	Ridgway	35	13	4.60	+0.37	Hawley	10.87	Beaver Falls	1.32
South Carolina	79.4	+0.5	2 stations	98	[2] 3	Caesars Head	59	1	10.22	+4.33	Caesars Head	20.02	Beaufort (near)	1.99
South Dakota	71.2	+1.2	Cottonwood	109	15	2 stations	32	[2] 24	2.67	+0.47	Menno	8.03	Oelrichs	0.20
Tennessee	78.4	+2.0	Perryville	101	9	Elkmont	55	[2] 20	5.25	+1.17	Elkmont	10.36	Fayetteville	1.86
Texas	83.3	+0.6	Falfurrias	110	10	Muleshoe	44	25	2.12	−0.44	Grandfalls	11.65	3 stations	0.00
Utah	69.3	−0.3	Saint George	111	9	Woodruff	28	[2] 28	0.51	−0.48	Dry Gulch Ranger Station.	2.77	10 stations	0.00
Virginia	75.9	+1.9	Clarksville	103	4	Dale Enterprise	42	[2] 12	8.71	+4.21	New Canton	18.65	Langley Field	2.04
Washington	64.9	−0.8	Wahluke	106	7	Chewelah	29	28	0.22	−0.77	Cusick	1.44	11 stations	0.00
West Virginia	74.0	+2.2	Point Pleasant	103	8	Bayard	39	12	5.36	+1.41	Hinton	8.43	Dam 12, Ohio River	1.85
Wisconsin	67.9	+1.1	Sheboygan	98	8	Prentice	30	31	5.91	+2.61	Prairie du Chien	12.92	Cornucopia	2.45
Wyoming	62.4	−1.7	Basin	103	[2] 9	Riverside	15	17	0.81	−0.35	Dull Center (near)	3.02	Border	0.00
Alaska (July)	54.3	−1.1	Porcupine Creek	90	3	Wonder Lake	25	23	3.48	+0.66	Speel River	10.00	Fort Yukon	0.50
Hawaii	75.4	+0.5	2 stations	94	3	Volcano Observatory.	53	15	5.33	−1.20	Eke	38.50	8 stations	0.00
Porto Rico	79.3	+0.2	Toa Alta	98	[2] 2	2 stations	61	17	10.36	+3.01	Coamo	20.94	Vieques	5.05

[1] For description of tables and charts, see Review, January, 1928, p. 29.

[2] Other dates also.

TABLE 1.—*Climatological data for Weather Bureau stations, August, 1928*

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, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F.		° F.	° F.		° F.	° F.	° F.	° F.	%	In.	In.		Miles								0-10	In.	In.
New England							70.3	+2.9										84	3.29	−0.3										5.9		
Eastport	76	67	85	29.95	30.03	+0.07	61.2	+0.5	90	14	68	49	21	54	30	58	57	87	3.94	+0.9	12	4,554	s.	21	e.	6	8	5	18	6.8	0.0	0.0
Greenville, Me.	1,070	6		28.91	30.04		64.8		89	15	73	45	21	56	31				4.52		16		se.				9	5	17		0.0	0.0
Portland, Me.	103	82	117	29.93	30.05	+.07	69.4	+3.0	95	4	77	56	21	62	32	64	61	82	3.52	+0.4	14	4,234	s.	22	nw.	11	11	7	13	5.6	0.0	0.0
Concord	289	70	79	29.72	30.02	+.04	69.6	+2.8	94	4	80	47	13	59	38				5.12	+1.6	15	2,947	se.	16	nw.	30	8	12	11	5.5	0.0	0.0
Burlington	403	11	48	29.58	30.00	+.03	70.2	+2.3	90	4	79	47	12	61	31				2.81	−0.6	17	5,227	s.	27	s.	28	6	13	12	6.0	0.0	0.0
Northfield	876	12	60		30.03	+.05	67.6	+4.2	90	15	78	42	12	57	38			92	4.12	+0.2	14	3,840	s.	24	sw.	1	4	13	14	6.8	0.0	0.0
Boston	125	115	188	29.90	30.03	+.04	73.6	+3.7	96	4	81	58	7	66	34	67	65	79	2.45	−1.2	11	4,911	sw.	31	nw.	30	6	9	14	6.2	0.0	0.0
Nantucket	12	14	90	30.02	30.03	+.04	70.6	+2.8	87	15	77	56	22	64	20	66	65	89	0.57	−2.5	6	8,294	sw.	30	ne.	12	10	10	11	5.3	0.0	0.0
Block Island	26	11	46	30.00	30.02	+.03	70.6	+2.1	85	15	76	60	22	65	18	67	65	88	2.01	−1.7	7	8,347	sw.	37	sw.	11	5	15	11	6.0	0.0	0.0
Providence	160	215	251	29.87	30.04	+.05	73.2	+2.2	95	4	82	54	13	65	30	67	65	78	4.03	+0.5	11	5,222	sw.	26	nw.	5	10	10	11	5.4	0.0	0.0
Hartford	159	122		29.87	30.04	+.05	73.6	+4.7	96	4	82	54	13	65	29				4.08	−0.2	14		sw.				10	10	11	5.5	0.0	0.0
New Haven	106	74	153	29.92	30.03	+.04	74.0	+3.7	96	4	88	56	13	66	27	68	66	81	3.51	−0.8	15	4,771	sw.	24	ne.	12	12	8	11	5.3	0.0	0.0
Middle Atlantic States							75.4	+2.2										82	6.10	+1.7										5.9		
Albany	97	102	115	29.92	30.02	+.04	73.0	+2.2	92	30	81	54	13	64	30	68	66	83	4.12	+0.4	14	4,138	s.	23	s.	24	13	10	8	4.8	0.0	0.0
Binghampton	871	10	84	29.11	30.02	+.03	72.5	+4.5	92	3	82	49	13	62	32				2.32	−1.0	12	2,880	e.	20	sw.	10	10	8	13	6.0	0.0	0.0
New York	314	414	454	29.70	30.03	+.03	74.4	+1.3	90	4	81	61	23	68	19	68	66	79	4.26	−0.1	15	8,143	s.	45	s.	10	5	12	14	6.8	0.0	0.0
Harrisburg	374	94	104	29.64	30.03	+.02	75.0	+2.4	93	4	83	58	14	66	26	68	66	79	3.64	−0.6	15	3,333	sw.	18	n.	11	4	9	18	6.9	0.0	0.0
Philadelphia	114	123	341	29.92	30.04	+.04	77.2	+2.4	95	4	85	59	12	70	20	70	67	77	5.47	+0.8	12	5,982	sw.	44	ne.	12	4	13	14	6.5	0.0	0.0
Reading	325	81	98	29.68	30.02		75.7		94	4	84	58	13	67	27	69	66	77	4.82	+0.3	13	3,475	sw.	22	ne.	12	9	10	12	6.3	0.0	0.0
Scranton	805	111	119	29.19	30.04	+.04	72.9	+3.1	91	4	82	52	13	64	32	67	65	81	6.04	+1.8	17	3,647	s.	23	w.	30	3	11	17	7.4	0.0	0.0
Atlantic City	52	37	172	29.97	30.02	+.02	74.7	+2.2	87	18	80	59	12	69	23	70	69	85	6.20	+1.7	7	10,517	s.	62	ne.	12	13	11	7	4.4	0.0	0.0
Cape May	17	13	49				74.8	+1.4	90	30	81	60	12	68	23	71	70	90	5.46		6		s.				12	10	9		0.0	0.0
Sandy Hook	22	10	55	30.00	30.02		74.6		93	4	80	61	22	69	20	70	68	84	6.31		17	7,923	sw.	43	ne.	12	9	9	13	6.3	0.0	0.0
Trenton	190	159	183	29.82	30.02		75.5		96	4	84	57	12	67	26	69	67	82	3.40	−2.0	12	5,746	sw.	35	ne.	12	7	9	15	6.6	0.0	0.0
Baltimore	123	100	215	29.89	30.01	.00	77.8	+2.3	97	3	86	57	12	70	24	71	68	76	9.70	+5.3	11	5,198	sw.	35	n.	12	11	7	13	5.8	0.0	0.0
Washington	112	62	85	29.91	30.02	+.01	77.0	+2.0	97	4	86	57	12	68	28	70	69	83	14.41	+10.4	12	2,610	s.	27	n.	21	7	11	13	6.2	0.0	0.0
Cape Henry	18	8	54	30.00	30.02		78.2		96	4	86	59	14	71	22	73	71	81	2.64	−2.2	9	6,124	sw.	33	nw.	12	15	11	5	4.5	0.0	0.0
Lynchburg	681	153	188	29.31	30.04	+.02	77.4	+1.8	98	6	86	60	13	68	28	70	68	81	14.87	+11.1	18	3,569	w.	28	s.	10	5	17	9	5.6	0.0	0.0
Norfolk	91	170	205	29.95	30.04	+.04	79.4	+2.0	94	7	88	61	13	71	24	72	69	78	2.05	−3.2	9	6,975	s.	39	w.	12	10	13	8	5.0	0.0	0.0
Richmond	144	11	52	29.89	30.04	+.03	78.0	+1.5	97	4	87	58	12	69	24	71	70	85	8.05	+3.6	15	3,913	sw.	27	nw.	30	9	15	7	5.2	0.0	0.0
Wytheville	2,304	49	55	27.74	30.04	+.03	71.9	+1.4	87	2	81	56	23	63	26	67	65	88	5.44	+1.2	18	2,725	w.	18	nw.	5	5	16	10	6.2	0.0	0.0
South Atlantic States							79.6	+1.4										84	7.45	+1.5										5.8		
Asheville	2,253	70	84	27.75	30.04	+.02	73.0	+2.5	87	4	82	58	23	64	26	67	65	88	9.08	+4.5	16	3,667	se.	24	n.	5	5	18	8	5.9	0.0	0.0
Charlotte	779	55	62	29.22	30.04	+.02	79.8	+2.7	97	4	89	66	13	70	25	73	71	86	13.14	+8.1	15	2,324	sw.	19	nw.	11	6	17	8	6.0	0.0	0.0
Hatteras	11	11	50	30.04	30.05	+.05	79.7	+1.7	92	8	86	66	13	74	17	75	73	80	1.13	−4.6	7	6,317	sw.	38	sw.	11	17	6	8	4.3	0.0	0.0
Raleigh	376	103	110	29.65	30.04	+.03	78.6	+1.6	95	3	88	61	13	70	23	72	71	84	10.41	+4.5	13	3,863	sw.	29	sw.	11	5	16	10	6.3	0.0	0.0
Wilmington	78	81	91	29.98	30.06	+.06	80.0	+2.4	92	19	87	65	13	73	22	75	74	86	7.11	+0.8	11	4,110	sw.	28	sw.	11	10	14	7	5.1	0.0	0.0
Charleston	48	11	92	30.00	30.06	+.05	82.0	+1.0	93	19	88	72	13	76	16	78	76	85	2.82	−3.7	11	6,603	sw.	36	s.	10	4	18	9	5.9	0.0	0.0
Columbia, S. C.	351	41	57	29.67	30.05	+.04	80.4	+0.8	94	7	89	69	21	72	23	73	72	83	10.19	+3.4	15	3,811	s.	33	sw.	11	9	14	8	5.5	0.0	0.0
Due West	711	10	55	29.31	30.07		78.6		93	5	88	66	31	69	26				13.90		14	4,660	sw.	36	nw.	31	6	20	5	5.6	0.0	0.0
Greenville, S. C.	1,039	139	146	28.97	30.04		77.9	+2.1	92	8	86	66	20	69	23	71	69	83	13.36		12	4,654	sw.	36	n.	11	5	18	8	5.9	0.0	0.0
Augusta	182	62	77	29.83	30.02	+.01	81.6	+1.2	96	3	90	70	14	73	24	74	72	82	8.44	+3.4	18	3,338	s.	25	se.	10	5	18	8	5.8	0.0	0.0
Savannah	65	150	194	29.98	30.05	+.04	81.2	+0.5	93	22	88	70	27	74	20	75	74	84	6.29	−1.0	15	6,766	se.	39	s.	10	6	11	14	6.6	0.0	0.0
Jacksonville	43	209	245	29.99	30.04	+.03	81.0	−0.7	94	23	88	70	13	74	19	75	73	82	5.85	0.0	16	7,180	e.	38	sw.	10	5	14	12	6.5	0.0	0.0
Florida Peninsula							82.3	+0.2										79	7.63	+1.1										6.0		
Key West	22	10	64	29.97	29.99	+.01	83.2	−0.3	91	24	88	74	4	78	15	77	74	77	5.25	+0.7	16	6,628	e.	36	sw.	13	8	14	9	5.3	0.0	0.0
Miami	25	71	164	29.99	30.02		81.6	+0.2	89	21	86	72	7	77	15	76	74	78	9.75	+3.3	17	7,018	e.	38	s.	13	7	11	13	6.4	0.0	0.0
Tampa	35	79	87	29.98	30.01	+.01	82.1	+0.6	94	21	90	70	7	74	22	75	73	82	7.89	−0.7	14	4,361	ne.	36	se.	13	6	15	10	6.2	0.0	0.0
Titusville	41	5																														
East Gulf States							81.4	+1.5										80	7.11	+2.1										5.4		
Atlantic	1,173	190	216	28.83	30.05	+.04	78.7	+1.7	94	8	87	67	23	71	23	71	68	78	4.01	−0.4	11	5,671	nw.	31	se.	13	6	18	7	6.1	0.0	0.0
Macon	370	78	87	29.64	30.04	+.03	80.2	+0.3	93	25	89	68	5	72	24	74	73	86	20.52	+16.3	16	3,661	s.	32	n.	10	7	17	7	5.6	0.0	0.0
Thomasville	273	49	58	29.73	30.02	+.02	80.6	−0.4	95	1	89	69	27	72	24	74	73	85	13.75	+8.7	19	2,789	ne.	29	e.	14	2	9	20	7.5	0.0	0.0
Apalachicola	36	42	49	29.97	30.01		81.0		93	23	87	70	28	75	17	76	75	84	12.06		19	4,914	sw.	30	nw.	14	5	17	9	5.9	0.0	0.0
Pensacola	56	149	185	29.96	30.02	+.04	82.0	+1.1	93	9	87	72	21	77	18	75	73	78	7.28	−0.7	16	6,660	s.	38	n.	21	4	17	10	6.3	0.0	0.0
Anniston	741	9	57	29.27	30.05	+.06	79.5	+3.1	94	8	90	63	23	69	29				3.82	−0.7	13	2,360	se.	15	ne.	14	15	14	2	3.7	0.0	0.0
Birmingham	700	11	48	29.29	30.04	+.05	80.8	+1.6	95	8	90	68	19	71	26	73	71	80	5.46	+1.0	14	3,237	s.	27	sw.	30	13	13	5	4.5	0.0	0.0
Mobile	57	125	161	29.95	30.01	+.03	82.8	+1.8	96	25	91	70	12	75	23	75	73	81	5.74	−1.2	12	4,869	sw.	30	e.	26	3	23	5	5.6	0.0	0.0
Montgomery	223	100	112	29.78	30.02	+.02	81.9	+1.1	95	8	90	70	19	73	21	74	72	80	3.40	−0.8	12	3,539	se.	26	n.	10	4	18	9	5.8	0.0	0.0
Corinth	469	6					82.2		98	13	93	62	31	72	26				2.84		13		s.				19	6	6		0.0	0.0
Meridian	375	87	95	29.63	30.01	+.03	81.6	+2.1	97	25	91	68	5	72	25	74	72	80	5.32	+1.8	14	2,799	sw.	29	sw.	5	9	18	4	4.9	0.0	0.0
Vicksburg	217	65	73	29.75	30.02	+.04	82.6	+1.8	97	13	91	70	4	74	23	74	72	77	2.29	−1.2	7	3,438	se.	18	s.	4	19	9	3	3.7	0.0	0.0
New Orleans	53	76	84	29.95	30.00	+.02	84.8	+2.6	97	26	92	72	12	78	21	76	74	76	6.61	+0.8	16	3,112	ne.	22	ne.	26	6	20	5	5.6	0.0	0.0
West Gulf States							83.9	+2.0										73	2.20	−0.7										3.5		
Shreveport	249	77	93	29.73	29.99	+.02	84.9	+2.9	98	27	94	68	31	75	22	75	71	72	1.44	−1.3	5	3,466	s.	17	se.	13	22	7	2	3.0	0.0	0.0
Bentonville	1,303	11	44	28.66	29.99	+.02	77.4	+0.9	92	8	87	61	24	68	23				9.20		9		sw.		w.		26	2	3		0.0	0.0
Fort Smith	457	79	94	29.50	29.97	.00	82.4	+1.9	98	16	92	68	31	73	28	74	71	74	4.02	+0.7	7	4,059	e.	31	w.	17	18	8	5	3.7	0.0	0.0
Little Rock	357	136	153	29.63	30.00	+.02	81.8	+2.0	97	8	91	64	31	73	26	74	71	76	4.70	+1.0	10	4,680	s.	34	nw.	21	14	10	7	4.6	0.0	0.0
Austin	605	136	148	29.33	29.96		85.8	+2.0	100	28	97	71	25	75	27	74	70	67	1.02	−1.0	3	4,523	se.	25	ne.	7	18	10	3	3.5	0.0	0.0
Brownsville	57	53	61	29.87	29.93		85.1	+1.2	98	10	93	74	30	77	23	76	74	79	0.51	−2.0	6	4,567	se.	18	se.	3	21	9	1	2.6	0.0	0.0
Corpus Christi	20	11	78	29.94	29.96	+.03	84.6	+2.1	102	11	91	75	7	78	24	78	76	81	1.29	−1.0	5	7,135	se.	27	ne.	7	19	7	5	3.5	0.0	0.0
Dallas	512	220	227	29.44	29.98		83.9		98	21	93	66	25	74	23				0.94		6	6,182	se.	38	w.	23	20	8	3	2.9	0.0	0.0
Fort Worth	670	106	114	29.26	29.95	+.01	84.2	+1.2	99	10	94	65	25	74	27	73	69	66	2.13	−0.6	5	5,191	s.	25	sw.	23	16	9	6	4.1	0.0	0.0
Galveston	54	106	114	29.94	30.00	+.04	84.3	+1.3	97	10	89	72	28	79	19	77	75	76	5.24	+1.0	13	5,808	s.	29	s.	18	13	16	2	4.0	0.0	0.0
Groesbeck	461	11	56	29.50	29.97		84.2		100	29	95	68	25	73	29				0.01		1	5,584	s.	26	e.	29	17	12	2	3.1	0.0	0.0
Houston	138	292	314	29.85	29.99		84.4	+1.2	98	10	93	70	29	76	22				2.14	−2.0	9	6,046	s.	37	se.	29	13	16	2	4.0	0.0	0.0
Palestine	510	64	72	29.46	29.98	+.01	84.2	+2.4	98	27	94	70	30	74	26	74	70	70	2.45	+0.3	3	3,917	s.	22	se.	24	21	9	1	2.6	0.0	0.0
Port Arthur	34	58	66	29.95	29.99		84.2		99	10	91	71	30	77	21	77	75	79	4.62		7	4,320	s.	28	sw.	18	19	9	3	3.5	0.0	0.0
San Antonio	693	119	132	29.24	29.94	+.01	86.6	+3.1	102	12	98	68	30	76	31	73	68	63	1.21	−1.2	3	4,456	se.	29	n.	30	13	16	2	4.0	0.0	0.0
Taylor	583	55	63	29.41	30.01	+.06	85.4	+3.7	99	12	97	69	25	74	28				0.29	−2.2	2	4,979	s.	28	e.	29	23	6	2	3.1	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, August, 1928*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F.		° F.	° F.		° F.	° F.	° F.	F.	%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee							76.4	+1.4										77	3.57	+0.1										5.4		
Chattanooga	762	190	215	29.23	30.02	+0.02	78.2	+0.7	91	5	87	63	23	70	28	71	68	79	4.66	+0.6	15	3,815	sw.	42	sw.	30	4	21	6	5.5	0.0	0.0
Knoxville	996	102	111	29.01	30.04	+.03	77.4	+1.2	93	2	87	63	21	68	25	70	69	82	4.58	+0.7	13	3,309	sw.	25	w.	4	5	20	6	5.8	0.0	0.0
Memphis	399	76	97	29.58	30.00	+.02	81.2	+1.8	94	14	89	61	31	74	21	74	71	76	3.91	+0.6	9	4,139	sw.	24	w.	30	10	14	7	4.9	0.0	0.0
Nashville	546	168	191	29.47	30.04	+.04	78.9	+1.1	92	5	88	62	31	70	25	71	69	77	4.62	+0.9	9	4,275	sw.	33	nw.	21	9	16	6	5.2	0.0	0.0
Lexington	989	193	230	29.00	30.04	+.03	75.2	+0.7	90	9	83	60	13	68	23				4.30	+0.7	12	6,322	sw.	31	sw.	14	9	15	7	5.2	0.0	0.0
Louisville	525	188	234	29.46	30.04	+.04	77.0	0.0	92	9	85	62	12	69	25	70	68	79	3.23	−0.2	11	5,195	s.	28	se.	23	11	14	6	4.6	0.0	0.0
Evansville	431	76	116	29.58	30.04	+.05	79.0	+1.6	95	7	88	62	25	70	25	70	68	75	1.41	−2.0	12	4,508	s.	32	nw.	10	7	16	8	5.5	0.0	0.0
Indianapolis	822	194	230	29.15	30.02	+.02	74.6	+0.9	91	9	84	55	12	65	28	66	63	72	3.81	+0.5	10	5,862	s.	42	s.	21	13	15	3	4.3	0.0	0.0
Royal Center	736	11	55	29.24	30.02		71.0		91	2	82	48	19	60	34				7.42		11	4,669	s.	32	nw.	21	10	15	6	5.0	0.0	0.0
Terre Haute	575	96	129	29.40	30.01		75.7		92	28	86	56	25	66	28	68	65	74	4.06		8	4,796	s.	30	nw.	10	9	17	5	5.0	0.0	0.0
Cincinnati	627	11	51	29.36	30.03	+.02	75.6	+2.0	93	10	86	56	12	66	29	68	66	78	2.85	−0.6	10	3,395	sw.	22	s.	21	12	11	8	4.8	0.0	0.0
Columbus	822	179	222	29.18	30.03	+.02	75.1	+2.1	92	9	84	56	12	66	25	67	63	72	1.05	−2.2	5	4,968	s.	29	nw.	17	12	16	3	4.5	0.0	0.0
Dayton	899	137	173	29.08	30.01		75.4	+2.0	93	8	86	55	12	65	29	67	63	73	3.00	−0.3	9	4,646	ne.	35	w.	17	5	21	5	5.5	0.0	0.0
Elkins	1,947	59	67	28.06	30.04	+.02	70.9	+1.8	87	3	80	54	23	62	30	65	64	87	4.77	+1.1	17	2,188	w.	16	nw.	24	3	10	18	7.3	0.0	0.0
Parkersburg	637	77	82	29.40	30.05	+.04	76.3	+2.4	93	29	85	57	23	67	28	68	66	80	4.75	+1.2	12	2,815	se.	24	nw.	2	6	9	16	6.8	0.0	0.0
Pittsburgh	842	353	410	29.14	30.02	+.01	74.4	+1.5	90	9	83	57	13	66	29	67	64	76	3.10	−0.1	11	5,710	sw.	29	nw.	5	6	14	11	5.7	0.0	0.0
Lower Lake Region							72.2	+2.5										75	2.88	−0.1										4.9		
Buffalo	767	247	280	29.19	30.01	+.02	71.0	+2.4	91	15	78	55	26	64	29	66	64	82	1.84	−1.2	11	8,145	sw.	48	w.	21	14	12	5	4.6	0.0	0.0
Canton	448	10	61	29.53	30.00		69.6	+1.8	91	16	80	46	12	60	32				3.23	+0.5	13	4,623	sw.	26	w.	21	9	12	10	5.4	0.0	0.0
Ithaca	836	5	100	29.12	30.00		70.6		90	4	81	46	13	60	32	65	63	82	3.04	−0.3	12	4,721	nw.	29	nw.	21	5	15	11	5.9	0.0	0.0
Oswego	335	76	91	29.64	30.01	+.02	70.8	+2.4	90	28	78	56	12	64	25	66	64	79	2.66	+0.1	10	4,571	s.	23	sw.	21	8	11	12	5.6	0.0	0.0
Rochester	523	86	102	29.46	30.02	+.03	72.0	+2.8	91	4	81	52	13	64	28	65	61	73	3.25	+0.4	10	3,982	sw.	24	w.	21	12	9	10	5.4	0.0	0.0
Syracuse	597	97	113	29.39	30.03	+.04	71.8	+3.2	90	4	80	53	13	64	28				4.98	+1.6	15	5,294	s.	30	se.	16	6	14	11	6.2	0.0	0.0
Erie	714	130	166	29.27	30.02	+.01	72.4	+2.8	91	3	80	53	13	65	24	66	63	74	3.89	+0.6	10	7,122	nw.	32	nw.	10	12	17	2	4.4	0.0	0.0
Cleveland	762	190	201	29.21	30.02	+.01	72.8	+2.8	92	3	80	56	13	66	23	66	62	70	1.15	−1.6	6	6,569	ne.	34	w.	4	12	13	6	4.7	0.0	0.0
Sandusky	629	5	67	29.35	30.02	+.01	74.1	+2.3	96	3	83	54	31	65	29				2.92	−0.2	9	4,438	ne.	23	nw.	9	10	15	6	4.7	0.0	0.0
Toledo	628	208	243	29.35	30.03	+.03	72.9	+1.6	94	3	82	53	25	64	30	65	62	72	2.68	−0.2	12	7,042	sw.	44	sw.	4	18	12	1	3.2	0.0	0.0
Fort Wayne	856	113	124	29.11	30.02		73.4	+2.3	94	8	84	52	25	63	32	65	62	72	1.96		10	4,717	sw.	26	sw.	21	12	16	3	4.5	0.0	0.0
Detroit	730	218	258	29.25	30.02	+.01	73.2	+2.9	92	3	82	53	25	64	27	65	61	71	2.02	−0.8	8	5,368	sw.	26	ne.	11	11	15	5	4.6	0.0	0.0
Upper Lake Region							67.4	+1.0										79	3.94	+1.0										4.5		
Alpena	609	13	92	29.36	30.02	+.02	64.6	+0.5	84	2	74	41	25	56	25	61	58	80	3.96	+1.1	8	6,325	se.	36	se.	29	14	11	6	4.3	0.0	0.0
Escanaba	612	54	60	29.34	29.99	.00	64.9	+0.6	88	7	72	43	31	58	23	61	58	81	5.44	+2.2	11	6,267	s.	29	ne.	21	13	11	7	4.5	0.0	0.0
Grand Haven	632	54	89	29.33	30.00	+.01	68.1	+1.0	87	16	77	48	31	60	26	63	61	78	2.34	−0.5	8	5,797	s.	25	s.	20	14	11	6	4.3	0.0	0.0
Grand Rapids	707	70	87	29.26	30.01	+.01	71.3	+1.6	92	15	81	49	25	61	31	63	59	70	4.46	+1.8	8	3,160	w.	18	sw.	21	9	13	9	5.2	0.0	0.0
Houghton	668	64	99	29.26	29.97	.00	64.3	+0.6	89	14	74	46	25	55	31				2.39	−0.5	10	5,080	e.	29	w.	30	9	11	11	5.6	0.0	0.0
Lansing	878	6	49	29.09	30.01		69.0	+0.5	91	2	80	45	25	58	33	64	62	82	2.79	0.0	12	2,636	sw.	15	w.	20	16	9	6	4.0	0.0	0.0
Ludington	637	60	66	29.31	30.00		65.6		85	9	73	45	25	58	26	61	58	78	2.66		10	5,542	s.	42	sw.	20	18	8	5	3.5	0.0	0.0
Marquette	734	77	111	29.20	29.99	+.01	64.2	+0.4	85	14	72	46	31	56	27	59	57	81	4.48	+1.8	13	5,723	s.	26	w.	21	9	7	15	6.0	0.0	0.0
Port Huron	638	70	120	29.33	30.02	+.02	70.2	+2.4	89	3	79	51	31	62	25	64	62	80	4.36	+1.7	12	5,819	ne.	30	n.	10	13	16	2	3.6	0.0	0.0
Sault Ste. Marie	614	11	52	29.32	30.01	+.02	64.2	+2.1	88	16	74	40	25	54	30	59	56	81	4.09	+1.0	11	4,454	se.	31	nw.	21	14	11	6	4.8	0.0	0.0
Chicago	673	7	131	29.30	30.02	+.02	72.2	+0.6	94	3	79	58	31	65	26	66	63	79	5.03	+1.8	8	6,135	ne.	29	sw.	3	13	11	7	4.4	0.0	0.0
Green Bay	617	109	141	29.33	29.99	.00	68.4	+0.7	93	8	78	45	31	59	31	62	59	74	3.82	+0.7	12	6,051	s.	32	sw.	20	15	10	6	4.4	0.0	0.0
Milwaukee	681	125	221	29.28	30.01	+.01	70.6	+1.4	93	8	78	51	31	63	23	64	60	73	4.02	+1.4	9	7,582	se.	28	sw.	20	18	6	7	3.9	0.0	0.0
Duluth	1,133	5	47	28.77	29.97	.00	63.6	+1.0	89	9	72	44	31	55	28	59	57	86	4.03	+0.8	11	6,198	ne.	36	nw.	27	15	7	9	4.5	0.0	0.0
North Dakota							65.5	−0.6										68	3.42	+1.2										4.0		
Moorhead	940	50	58	28.93	29.94	−.02	67.2	+1.1	96	14	78	42	24	56	32	60	55	71	6.42	+3.5	9	4,792	s.	24	n.	26	17	6	8	4.2	0.0	0.0
Bismarck	1,674	8	57	28.17	29.93	−.01	66.7	−0.6	100	11	79	38	23	54	37	58	53	67	2.11	+0.3	12	5,316	n.	28	nw.	29	15	11	5	3.8	0.0	0.0
Devils Lake	1,478	11	44	28.39	29.94	.00	63.8	−1.0	95	12	77	34	23	51	36	56	51	70	3.34	+0.6	10	5,157	n.	26	ne.	15	16	8	7	3.8	0.0	0.0
Ellendale	1,457	10	56	28.40	29.94		66.2		96	12	78	39	24	54	37				3.35		11	7,542	ne.	48	sw.	13	15	10	6	4.1	0.0	0.0
Grand Forks	833	12	67				64.8		94	12	77	38	24	53	34	59			3.05		13		n.		s.		14	11	6	4.4	0.0	0.0
Williston	1,878	41	48	27.99	29.94	+.01	64.2	−1.9	102	11	77	35	24	52	42	55	49	65	1.79	+0.3	11	4,021	n.	22	se.	13	18	8	5	3.7	0.0	0.0
Upper Mississippi Valley							73.6	+0.9										76	5.61	+2.4										4.4		
Minneapolis	918	102	208	28.98	29.94		70.4	+0.5	94	9	80	49	23	61	28				5.84	+2.7	11	7,132	s.	54	n.	1	14	8	9	4.7	0.0	0.0
St. Paul	837	236	261	29.07	29.96	−.01	69.4	0.0	94	9	79	46	31	60	25				6.10	+3.1	12	7,363	se.	62	n.	15	15	7	9	4.4	0.0	0.0
La Crosse	714	11	48	29.22	29.97	−.01	70.2	+0.2	95	8	80	45	31	60	28	64	62	80	8.69	+5.0	11	2,157	s.	14	sw.	1	14	8	9	4.7	0.0	0.0
Madison	974	70	78	28.98	30.00	+.01	70.2	+0.4	91	8	79	51	31	62	25	64	61	75	4.69	+1.5	9	4,607	s.	36	sw.	20	15	8	8	4.4	0.0	0.0
Wausau	1,247	4		28.68	29.99		67.0		91	8	78	42	31	56	28				8.75		12		se.				11	6	14	5.5	0.0	0.0
Charles City	1,015	10	51	28.93	29.98	+.01	70.1	+1.0	92	8	80	44	31	60	27	64	61	78	12.78	+9.4	10	3,624	se.	23	sw.	6	20	3	8	3.4	0.0	0.0
Davenport	606	71	79	29.34	29.99	+.01	74.7	+1.6	93	15	84	52	31	65	25	67	64	73	6.57	+3.1	10	4,045	s.	29	sw.	20	13	12	6	4.4	0.0	0.0
Des Moines	861	84	97	29.08	29.97	.00	73.8	+0.7	94	2	84	49	24	64	27	67	64	75	7.75	+4.2	11	4,345	s.	27	sw.	20	16	8	7	4.2	0.0	0.0
Dubuque	700	81	96	29.25	29.99	+.01	71.8	+0.1	92	9	82	49	31	62	26	66	63	76	9.38	+6.1	10	3,641	s.	30	sw.	20	13	8	10	4.7	0.0	0.0
Keokuk	614	64	78	29.34	30.01	+.03	75.9	+0.9	94	16	85	56	25	66	25	68	64	72	2.67	−0.5	7	4,096	s.	24	s.	20	15	9	7	4.4	0.0	0.0
Cairo	358	87	93	29.64	30.01	+.02	78.7	+0.9	93	14	86	63	31	71	21	72	70	81	3.95	+0.9	10	4,058	s.	34	nw.	21	8	11	12	6.0	0.0	0.0
Peoria	609	11	45	29.36	30.03	+.04	74.8	+2.4	94	16	85	53	31	64	30	68	65	76	3.62	+0.5	7	3,124	s.	17	s.	29	16	12	3	3.3	0.0	0.0
Springfield, Ill	636	10	91	29.33	30.00	+.01	76.3	+1.8	93	27	86	54	25	66	27	69	66	76	0.73	−2.4	7	4,559	s.	25	sw.	21	14	14	3	4.0	0.0	0.0
Hannibal	534	74	109	29.43	29.99	+.01	76.6	+1.6	95	16	86	58	25	67	26				0.96	−2.4	9	4,873	sw.	26	w.	3	16	11	4	4.1	0.0	0.0
St. Louis	568	265	303	29.41	30.00	+.01	77.6	+0.3	94	28	86	60	25	69	23	69	66	72	4.83	+1.8	11	6,552	sw.	38	sw.	3	13	11	7	4.5	0.0	0.0
Missouri Valley							75.3	+1.3										69	3.74	+0.5										3.8		
Columbia, Mo	784	6	84	29.17	29.99	+.02	75.8	+0.2	92	16	85	59	31	67	23				3.22	+0.2	11	3,775	s.	22	sw.	20	16	10	5	4.2	0.0	0.0
Kansas City	963	161	181	28.97	29.97	.00	77.2	+0.6	94	27	86	54	24	68	26	69	65	72	8.79	+4.7	9	5,414	s.	40	n.	7	16	11	4	3.9	0.0	0.0
St. Joseph	967	18	49	28.96	29.96		77.1		95	27	87	51	24	67	23	69	66	75	4.83		10	4,546	se.	38	w.	3	18	8	5	3.6	0.0	0.0
Springfield, Mo	1,324	98	104	28.64	30.02	+.06	75.9	+0.2	91	28	84	58	24	68	24	70	67	79	7.81	+3.5	13	5,247	s.	29	nw.	7	23	5	3	2.8	0.0	0.0
Iola	984	11	50	28.95	29.97	+.01	79.0	+1.9	100	28	90	56	24	68	30				2.52	−1.1	8	3,056	s.	22	n.	7	15	13	3	4.3	0.0	0.0
Topeka	987	92	107				77.4	+1.2	97	27	88	52	24	67	27				4.91	+0.6	8	5,454	s.	33	n.	16	17	11	3	3.4	0.0	0.0
Lincoln	1,189	11	81	28.71	29.94	−.01	76.2	+1.8	97	9	87	45	24	65	29	67	62	68	3.65	−0.1	7	5,738	s.	44	w.	16	15	10	6	3.9	0.0	0.0
Omaha	1,105	115	122	28.80	29.95	−.01	76.0	+1.6	96	9	85	48	24	67	26	67	64	70	3.12	+0.1	8	4,517	se.	26	n.	23	17	10	4	3.4	0.0	0.0
Valentine	2,598	47	54	27.28	29.94	.00	72.8	+1.1	100	9	86	42	24	59	41	60	52	57	2.10	−0.7	10	5,945	s.	30	nw.	5	16	11	4	3.2	0.0	0.0
Sioux City	1,135	94	164	28.77	29.96	+.01	73.8	+1.8	98	8	84	42	24	64	29	65	61	70	2.67	−0.3	8	7,715	s.	45	w.	26	13	12	6	4.2	0.0	0.0
Huron	1,306	59	74	28.57	29.94	−.01	71.2	+1.8	100	14	84	39	24	59	38	62	57	68	2.14	−0.3	11	6,146	s.	30	ne.	23	13	13	5	4.1	0.0	0.0
Pierre	1,572	70	75		29.91	−.03	74.0	+1.2	108	12	88	46	24	60	42			60	1.70	−0.3	11	6,475	e.	50	ne.	20	21	6	4		0.0	0.0
Yankton	1,283	49	57	28.64	29.93	−.02	74.0	+2.0	101	1	86	44	24	62	35				2.22	−0.8	8	4,793	s.	48	nw.	22	14	11	6	4.1	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, August, 1928*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Northern Slope							65.2	−1.2										55	0.82	−0.5										3.7		
Billings	3,140	5					64.7		101	11	83	38	30	46	52				0.90		9		nw.				17	4	10		0.0	0.0
Havre	2,505	11	44	27.36	29.97	+0.06	63.6	−1.8	98	10	77	36	23	50	41	53	46	62	1.88	+0.7	9	3,435	sw.	19	w.	18	15	7	9	4.5	0.0	0.0
Helena	4,110	87	112	25.84	29.97	+.03	63.1	−1.9	98	10	76	43	29	50	39	52	44	60	1.99	+1.3	7	5,152	sw.	23	n.	24	15	9	7	4.1	0.0	0.0
Kalispell	2,973	48	56	26.95	29.96	+.03	60.8	−2.0	94	10	75	36	28	47	44	50	41	57	1.14	+0.2	7	3,950	nw.	34	sw.	10	15	11	5	3.7	0.0	0.0
Miles City	2,371	48	55	27.46	29.96	+.03	68.8	−2.7	104	11	82	41	24	55	42	55	45	52	0.14	−0.9	7	3,301	n.	33	nw.	1	20	8	3	3.0	0.0	0.0
Rapid City	3,259	50	58	26.62	29.96	+.03	69.8	+0.3	98	13	83	44	31	57	37	57	49	53	0.42	−1.7	4	4,824	n.	30	n.	22	16	10	5	3.5	0.0	0.0
Cheyenne	6,088	84	101	24.11	29.94	+.02	65.2	−0.4	89	12	79	42	23	52	35	50	38	45	0.53	−1.0	7	6,539	w.	31	nw.	19	12	14	5	4.4	0.0	0.0
Lander	5,372	60	68	24.71	29.95	+.03	65.0	−0.5	94	9	82	39	29	48	44	50	39	48	0.24	−0.3	4	3,610	w.	36	nw.	22	20	10	1	3.0	0.0	0.0
Sheridan	3,790	10	47	26.12	29.97		64.3		99	11	81	37	30	47	50	53	46	63	0.65		8	2,533	nw.	25	nw.	13	17	11	3	3.4	0.0	0.0
Yellowstone Park	6,241	11	48	23.98	30.00	+.07	56.6	−4.3	89	10	72	30	29	41	41	44	35	54	0.96	−0.1	9	4,548	sw.	29	sw.	14	11	13	7	4.5	0.0	0.0
North Platte	2,821	11	51	27.08	29.94	.00	73.6	+2.8	99	9	87	39	24	60	41	61	55	60	0.11	−2.3	1	3,762	s.	26	n.	22	21	8	2	2.8	0.0	0.0
Middle slope							76.2	+0.2										60	2.04	−0.4										3.9		
Denver	5,292	106	113	24.81	29.96	+.04	70.6	−0.1	96	19	83	49	23	58	34	54	43	43	0.85	−0.6	7	4,838	s.	31	n.	22	15	12	4	4.1	0.0	0.0
Pueblo	4,685	80	86	25.36	29.95	+.04	72.4	−0.3	98	20	87	51	8	58	43	55	46	48	0.49	−1.1	7	3,912	se.	30	nw.	1	13	15	3	4.0	0.0	0.0
Concordia	1,392	50	58	28.53	29.97	+.02	76.5	0.0	97	27	87	47	24	66	35	68	64	71	5.47	+2.6	10	4,384	s.	24	nw.	7	18	8	5	3.9	0.0	0.0
Dodge City	2,509	11	51	27.44	29.98	+.05	75.8	−1.9	95	1	88	44	24	63	34	64	59	65	2.78	+0.1	6	5,512	s.	27	sw.	2	23	5	3	2.7	0.0	0.0
Wichita	1,358	139	158	28.55	29.94	−.01	79.8	+1.5	100	11	91	52	24	69	29	68	64	66	0.70	−2.4	6	7,714	s.	36	sw.	3	15	12	4	4.0	0.0	0.0
Broken Arrow	765	11	56	29.17	29.99		79.2		94	28	88	60	24	70	26				10.11		7	6,218	s.	30	w.	17	16	6	9	4.3	0.0	0.0
Oklahoma City	1,214	10	47	28.71	29.95	+.01	82.0	+2.3	100	21	93	62	24	71	28	70	66	67	1.98	−1.2	7	5,264	s.	32	sw.	9	17	7	7	4.3	0.0	0.0
Southern slope							78.8	−0.9										66	4.62	+2.2										4.0		
Abilene	1,738	10	52	28.19	29.95	+.03	80.8	−1.2	97	23	91	60	24	71	30	70	65	67	5.61	+3.4	7	4,748	s.	28	w.	23	17	8	6	3.8	0.0	0.0
Amarillo	3,676	10	49	26.33	29.97	+.05	74.6	−1.1	92	6	85	49	25	64	25	64	60	66	6.15	+3.3	8	5,432	s.	26	s.	13	15	12	4	4.1	0.0	0.0
Del Rio	944	64	71	28.93	29.89	−.01	85.6	+1.4	101	30	95	68	8	76	25	72	66	60	2.35	−0.2	5	5,880	se.	26	ne.	18	19	10	2	3.3	0.0	0.0
Roswell	3,566	75	85	26.41	29.95	+.07	74.0	−2.6	94	6	84	54	25	64	29	64	60	70	4.36	+2.4	12	4,314	s.	26	se.	17	8	17	6	4.9	0.0	0.0
Southern Plateau							77.2	−0.2										54	1.70	+0.3										2.9		
El Paso	3,778	152	175	26.21	29.90	+.06	77.8	−1.4	97	7	88	62	24	68	27	64	58	58	2.69	+1.0	12	5,433	e.	48	se.	27	12	17	2	4.3	0.0	0.0
Santa Fe	7,013	38	53	23.38	29.93	+.04	65.4	−2.0	88	20	77	48	26	54	32	53	47	63	2.60	+0.3	15	3,308	e.	22	ne.	13	11	12	8	5.0	0.0	0.0
Flagstaff	6,907	10	59	23.48	29.89	+.05	63.8	+1.0	88	20	78	40	6	50	42	51		61	1.82		12		nw.		s.	26	9	14	8		0.0	0.0
Phoenix	1,108	10	82	28.68	29.79	.00	88.4	−0.1	112	8	101	65	26	75	43	69	58	42	1.47	+0.5	6	2,954	e.	43	s.	26	17	12	2	3.2	0.0	0.0
Yuma	141	9	54	29.64	29.78	+.02	90.7	+0.3	114	8	105	68	6	77	40	73	63	48	0.04	−0.5	1	3,398	sw.	28	s.	21	28	3	0	0.8	0.0	0.0
Independence	3,957	6	27	25.94	29.88	+.07	77.0	+0.9	102	9	93	52	27	61	40	53			T.		0		nw.				25	5	1	1.0	0.0	0.0
Middle Plateau							71.3	+0.2										32	0.52	−0.3										2.0		
Reno	4,532	74	81	25.49	29.90	+.06	70.2	+3.2	99	9	89	47	23	52	44	50	35	34	0.33	+0.1	2	4,521	w.	25	w.	3	29	2	0	0.9	0.0	0.0
Tonopah	6,090	12	20				72.7		94	9	85	50	26	61	27	49	27	20	0.08		1		w.									
Winnemucca	4,344	18	56	25.64	29.98	+.08	68.4	−0.9	101	9	88	42	23	49	52	50	34	34	0.02	−0.2	1	3,781	sw.	25	nw.	3	27	3	1	1.7	0.0	0.0
Modena	5,473	10	43	24.66	29.87	+.01	69.5	+0.3	96	9	87	41	27	52	45	50	34	36	0.96	−0.9	6	7,276	sw.	36	ne.	10	26	4	1	1.7	0.0	0.0
Salt Lake City	4,360	163	203	25.62	29.89	+.02	74.5	0.0	99	10	86	54	24	63	34	53	36	28	0.17	−0.7	2	5,099	s.	30	s.	25	22	7	2	2.3	0.0	0.0
Grand Junction	4,602	60	68	25.41	29.93	+.03	73.7	−1.7	97	19	87	53	24	60	35	55	41	39	1.10	+0.1	8	4,220	se.	28	sw.	1	17	10	4	3.6	0.0	0.0
Northern Plateau							69.7	−0.2										37	0.07	−0.4										2.1		
Baker	3,471	48	53	26.48	30.01	+.06	63.9	−0.7	96	8	81	35	28	47	45	49	36	41	0.06	−0.3	1	3,708	nw.	13	nw.	14	24	4	3	1.9	0.0	0.0
Boise	2,739	78	86	27.14	29.94	+.01	71.2	−0.6	104	10	87	48	28	56	42	53	38	34	0.02	−0.2	1	3,133	nw.	18	n.	4	26	3	2	1.6	0.0	0.0
Lewiston	757	40	48	29.16	29.96	+.01	72.6	−0.2	101	9	89	46	29	56	43				0.03	−0.3	2	2,242	e.	18	n.	25	22	6	3	2.2	0.0	0.0
Pocatello	4,477	60	68	25.49	29.91	−.01	68.8	−0.8	100	9	84	41	29	54	45	49	32	32	0.12	−0.4	2	4,898	se.	38	sw.	22	21	8	2	2.9	0.0	0.0
Spokane	1,929	101	110	27.95	29.96	+.01	64.8	+0.3	96	10	83	43	28	54	40	52	38	39	T.	−0.6	0	3,584	s.	22	s.	1	21	9	1	2.3	0.0	0.0
Walla Walla	991	57	65	28.90	29.96	.00	73.2	+0.5	98	9	86	50	28	60	36	56	41	37	0.18	−0.3	2	2,933	w.	15	w.	21	27	3	1	1.6	0.0	0.0
North Pacific Coast Region							62.2	0.0										69	0.14	−0.7										4.3		
North Head	211	11	56	29.85	30.07	+.04	57.2	−0.4	66	7	61	46	30	54	10	55	54	91	0.20	−0.7	7	8,156	n.	36	nw.	13	4	8	19	7.5	0.0	0.0
Port Angeles	29	8	53		30.08		57.8		75	10	66	43	16	50	26				0.12	−0.5	2	4,258	nw.	27	w.	11	16	10	5		0.0	0.0
Seattle	125	215	250	29.93	30.06	+.06	63.0	−0.1	82	31	72	51	18	54	27	56	51	70	0.01	−0.6	1	3,967	nw.	19	n.	7	14	12	5	4.3	0.0	0.0
Tacoma	194	172	201	29.88	30.08	+.06	63.4	+0.8	82	24	73	49	20	54	27				0.03	−0.7	2	4,213	n.	27	w.	10	8	18	5	5.0	0.0	0.0
Tatoosh Island	86	9	53	30.00	30.09	+.09	54.8	−0.5	63	27	57	48	13	52	12	53	53	93	0.62	−1.5	6	5,650	s.	24	s.	24	6	5	20	7.5	0.0	0.0
Yakima	1,071	5					70.7		98	9	88	43	31	53	51	57		54	0.08		2		nw.				20	10	1	2.4	0.0	0.0
Medford	1,425	4	80	28.48	29.96		69.6		98	9	90	44	15	50	48	56	46	52	0.00		0		nw.	16	n.	2	28	3	0	0.9	0.0	0.0
Portland, Oreg.	153	68	106	29.90	30.05	+.04	67.5	+0.8	88	9	78	52	14	57	30	59	52	63	T.	−0.6	0	3,513	nw.	14	nw.	11	12	11	8	4.6	0.0	0.0
Roseburg	510	75	99	29.49	30.03	+.03	67.5	−0.5	93	9	82	48	22	53	41	56	48	57	T.	−0.3	0	2,994	n.	17	n.	13	21	8	2	2.3	0.0	0.0
Middle Pacific Coast Region							66.7	−0.2										67	T.	0.0										2.9		
Eureka	62	73	89	29.99	30.06	+.06	55.0	−1.0	63	10	59	47	14	51	13	53	51	89	0.05	−0.1	3	3,567	nw.	24	nw.	14	5	9	17	6.8	0.0	0.0
Red Bluff	330	54	58	29.51	29.85	−.01	80.3	+0.6	112	9	98	55	26	62	46	62	47	38	0.00	0.0	0	2,888	s.	16	nw.	1	30	0	1	0.5	0.0	0.0
Sacramento	69	106	117	29.80	29.87	+.02	73.4	+0.5	103	9	91	52	31	56	45	60	53	57	0.00	0.0	0	5,257	s.	19	s.	25	31	0	0	0.1	0.0	0.0
San Francisco	155	208	243	29.78	29.95	+.03	58.4	−0.7	72	11	64	50	18	52	20	54	52	85	T.	0.0	0	5,085	sw.	29	w.	9	10	15	6	5.0	0.0	0.0
San Jose	141	12	110	29.80	29.95		66.3	−0.4	88	9	80	49	19	53	37				0.00	0.0	0	4,127	nw.	19	se.	15	25	6	0	2.0	0.0	0.0
South Pacific Coast Region							72.6	−0.9										63	0.01	0.0										2.1		
Fresno	327	89	98	29.52	29.86	+.04	80.6	−0.1	105	10	98	55	26	63	39	60	43	33	0.00	0.0	0	4,693	nw.	18	nw.	25	31	0	0	0.2	0.0	0.0
Los Angeles	338	159	191	29.58	29.94	+.06	70.1	−1.0	86	12	79	56	31	61	27	62	58	74	T.	0.0	0	3,273	sw.	12	w.	17	21	10	0	2.5	0.0	0.0
San Diego	87	62	70	29.83	29.92	+.03	67.2	−1.5	78	12	72	59	27	62	14	63	61	83	0.03	0.0	2	4,188	nw.	18	nw.	31	19	8	4	3.5	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.90	29.98		80.4	−0.1	90	22	85	71	3	75	16				10.39	+3.0	19	7,693	e.	35	e.	8	5	20	6	5.6	0.0	0.0
Panama Canal																																
Balboa Heights	118	7	97		[1]29.86	+.02	79.8	−1.4	90	6	85	72	11	74	16				6.87	−1.2	20		nw.		ne.	25	0	8	23	8.3	0.0	0.0
Colon	38	7	97				80.3	+0.1	90	4	86	72	12	75	16				24.49	+9.2	29		w.		w.	24	0	3	28	9.1	0.0	0.0
Alaska																																
Juneau	80	11	50	[2]29.96	[2]30.06		53.2		70	19	58	43	19	48	27	51	49	86	6.10		18	4,412	se.	28	se.	10	6	3	22	7.7	0.0	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[2]30.00	[2]30.04		78.2		85	7	83	71	25	74	12	70	67	70	0.75	−0.5	15	6,157	e.	22	ne.	23	9	18	4	4.6	0.0	0.0

[1] Observations taken bi-hourly.

[2] Pressure not reduced to mean of 24 hours.

TABLE 2.—*Data furnished by the Canadian Meteorological Service, August, 1928*

Station	Altitude above mean sea level, Jan. 1, 1919	Pressure			Temperature of the air						Precipitation		
		Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Departure from normal	Mean max. + mean min. ÷ 2	Departure from normal	Mean maximum	Mean minimum	Highest	Lowest	Total	Departure from normal	Total snowfall
	Feet	*Inches*	*Inches*	*Inches*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	*Inches*	*Inches*	*Inches*
Cape Race, N. F	99				57.4		64.0	50.8	70	38	2.87		
Sydney, C. B. I	48												
Halifax, N. S	88												
Yarmouth, N. S	65												
Charlottetown, P. E. I	38												
Chatham, N. B	28												
Father Point, Que	20												
Quebec, Que	296	29.70	30.02	+.09	66.6	+3.5	74.0	59.3	87	48	4.54	+0.71	
Doucet, Que	1,236				63.0		72.0	54.0	88	40	3.08		
Montreal, Que	187	29.78	29.98	+.03	70.5	+4.1	78.9	62.1	91	52	4.36	+0.79	
Ottawa, Ont	236	29.74	30.00	+.04	70.3	+5.5	80.7	60.0	92	51	3.66	+0.63	
Kingston, Ont	285	29.70	30.00	+.02	69.6	+2.6	76.4	62.8	83	53	4.75	+2.37	
Toronto, Ont	379	29.60	29.99	.00	70.5	+4.5	80.1	60.9	90	52	4.99	+2.23	
Cochrane, Ont	930				62.4		73.5	51.3	88	36	5.14		
White River, Ont	1,244	28.66	29.95	−.01	59.2	+2.8	71.0	47.4	88	30	6.12	+2.82	
London, Ont	808				70.1		81.5	58.7	90	44	6.05		
Southampton, Ont	656	29.31	30.02	+.03	66.1	+2.3	75.2	57.1	86	45	3.01	+0.76	
Parry Sound, Ont	688	29.32	30.00	+.02	67.1	+3.6	75.4	58.9	83	50	3.32	+0.60	
Port Arthur, Ont	644	29.28	29.99	+.03	62.1	+2.6	70.1	54.2	85	39	3.89	+1.14	
Winnipeg, Man	760	29.12	29.94	.00	64.0	+0.6	75.1	53.0	92	38	3.18	+0.51	
Minnedosa, Man	1,690	28.15	29.94	.00	58.5	−0.9	70.3	46.8	84	30	2.45	+0.35	
Le Pas, Man	860				57.2		68.6	45.9	94	30	1.31		
Qu'Appelle, Sask	2,115	27.73	29.95	+.02	59.8	−1.7	74.0	45.6	88	32	0.18	−1.46	
Moose Jaw, Sask	1,759				62.0		78.4	45.6	98	30	0.34		
Swift Current, Sask	2,392	27.42	29.90	−.03	62.9	−1.1	78.8	47.0	96	29	0.40	−1.51	
Medicine Hat, Alb	2,144												
Calgary, Alb	3,428												
Banff, Alb	4,521												
Prince Albert, Sask	1,450	28.41	29.97	+.05	58.0	−0.9	70.4	45.7	94	34	1.14	−1.01	
Battleford, Sask	1,592	28.22	29.94	+.03	59.5	−3.1	74.0	44.9	96	32	1.08	−1.28	
Edmonton, Alb	2,150												
Kamloops, B. C	1,262												
Victoria, B. C	230	29.81	30.06	+.05	58.9	+0.2	65.9	51.9	78	48	0.23	−0.37	
Barkerville, B. C	4,180												
Estevan Point, B. C	20												
Prince Rupert, B. C	170												
Hamilton, Ber	151	29.99	30.15	+.05	79.1	−0.5	86.6	71.7	90	69	6.64	+0.56	

LATE REPORTS, JULY, 1928

Cape Race, N. F	99				56.0		63.8	48.1	72	38	3.81		
Sydney, C. B. I	48	29.87	29.92	−.01	64.9	+2.6	73.9	55.9	85	40	3.74	+.09	
Halifax, N. S	88	29.86	29.96	.00	66.2	+2.8	75.5	56.9	85	48	2.48	−1.57	
Yarmouth, N. S	65	29.83	29.90	−.05	61.7	+2.2	68.2	55.2	79	48	4.27	+0.80	
Charlottetown, P. E. I	38	29.81	29.85	−.05	66.6	+2.5	73.7	59.6	82	50	2.95	−0.54	
Chatham, N. B	28	29.79	29.82	−.06	66.0	+1.0	76.6	55.4	88	38	2.28	−1.91	
Ottawa, Ont	236	29.66	29.92	−.02	69.7	+0.2	79.4	60.1	89	50	4.03	+0.56	
Winnepeg, Man	760	29.11	29.92	−.01	67.4	+1.4	77.1	57.7	90	48	4.44	+1.36	
Qu'Appelle, Sask	2,115	27.73	29.94	+.02	63.6	+0.1	74.0	53.1	85	42	1.87	−0.61	
Medicine Hat, Alb	2,144	27.64	29.85	−.05	68.4	+0.6	80.6	56.3	94	48	2.36	+0.27	
Calgary, Alb	3,428	26.45	29.96	+.06	62.1	+1.5	74.6	49.5	90	38	1.53	−1.15	
Banff, Alb	4,521	25.44	29.93	+.03	60.0	+3.4	74.4	45.6	88	38	1.59	−1.65	
Edmonton, Alb	2,150	27.65	29.89	−.01	62.2	+1.6	73.6	50.9	88	43	4.94	+1.91	
Kamloops, B. C	1,262	28.64	29.90	−.04	72.0	+3.5	84.4	59.7	100	52	1.14	−0.47	
Victoria, B. C	230	29.76	30.01	−.04	61.0	+1.0	68.9	53.2	90	50	0.25	−0.15	
Estevan Point, B. C	20				57.3		63.0	51.6	72	47	1.26		
Prince Rupert, B. C	170				57.8		64.5	51.2	72	44	4.62		
Hamilton, Ber	151	30.05	30.21	+.07	79.5	+0.8	87.1	71.9	90	69	3.50	−0.94	

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