much lower than 28.74 inches (730 mm.), although we can not give the exact figures owing to a possible error in the telegraphic transmission. The barometric reading reported at noon was still as low as 28.70 inches (729 mm.) (gravity correction applied).

The approximate positions of the center at 6 a. m. of the 16th, 17th, and 18th were as follows:

August 16, 6 a. m. 137° 30′ longitude E, 22° 45′ latitude N.
August 17, 6 a. m. 141° 30′ longitude E, 26° 40′ latitude N.
August 18, 6 a. m. 144° 15′ longitude E, 30° 55′ latitude N.

CLIMATOLOGICAL TABLES

CONDENSED CLIMATOLOGICAL SUMMARY

In the following table are given for the various sections of the climatologicl 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, 1930

[For description of tables and charts, see REVIEW, January, 1930, p. 37]

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	79.5	−0.1	2 stations	108	[1] 7	Valley Head	50	[1] 24	3.50	−1.04	Prattville	9.48	Tallassee	1.57
Arizona	79.4	−0.3	do	116	27	Williams	35	19	2.21	+0.07	Snowflake	6.35	2 stations	0.00
Arkansas	81.8	+2.1	do	114	9	Dutton	46	26	2.58	−1.11	Searcy	7.93	Blytheville	0.23
California	71.0	−1.1	Greenland Ranch	118	11	Portola	25	20	0.08	−0.02	Palm Springs	2.03	128 stations	0.00
Colorado	65.8	+0.7	Lamar	104	3	Hermit	26	31	3.14	+1.18	Cope	9.74	Fruita	0.33
Florida	80.6	−0.8	Blountstown	103	4	Penney Farms	55	25	4.34	−2.68	Moore Haven	11.61	Fernandina	0.35
Georgia	78.6	−0.8	Tallapoosa	105	6	Clayton	44	[1] 23	1.90	−3.32	Waycross	4.50	Savannah (No. 2)	0.13
Idaho	68.5	+2.3	Orofino	111	8	Stibnite	22	30	1.30	+0.58	Malad	5.40	St. Maries	0.00
Illinois	76.2	+2.0	2 stations	113	9	Danville	45	11	1.96	−1.50	Aledo	8.55	Chester	0.10
Indiana	74.4	+1.1	6 stations	108	[1] 7	2 stations	40	[1] 12	2.07	−1.24	Huntington	5.71	Albion	0.87
Iowa	74.4	+2.7	Sac City	113	3	3 stations	41	[1] 11	2.42	−1.02	Storm Lake	6.71	Washta	0.48
Kansas	79.7	+2.3	4 stations	114	[1] 3	Atwood	51	26	2.81	−0.24	Plainville	8.91	Coldwater	0.40
Kentucky	76.5	+0.9	St. John	113	[1] 5	Farmers	42	12	2.25	−1.48	Flemingsburg	5.40	Murray	0.32
Louisiana	81.8	+0.1	Dodson	108	15	St. Joseph	53	22	4.63	−0.56	Delta Farms	14.72	Dodson	0.45
Maryland-Delaware	73.8	+0.5	Keedysville, Md	108	4	Oakland, Md	30	12	1.12	−3.15	Millington, Md	3.33	Ferry Landing, Md	0.15
Michigan	68.6	+2.1	Monroe	102	2	2 stations	28	[1] 11	0.75	−2.07	Owosso	2.20	Alcona	0.05
Minnesota	70.8	+4.3	Fairmont	109	3	Meadowlands	33	[1] 10	1.09	−2.11	Waseca	4.50	Big Falls	0.15
Mississippi	81.0	+0.4	Corinth	110	8	Fayette	52	22	3.22	−1.14	Pearlington	8.60	Greenville	0.13
Missouri	78.5	+2.5	2 stations	114	9	Steffenville	47	11	2.02	−1.73	Maryville	4.81	Valley Park	0.04
Montana	68.7	+4.2	Trout Creek	105	9	Philipsburg	24	31	1.02	−0.11	Hebgen Dam	4.40	Melstone	0.11
Nebraska	74.6	+1.7	2 stations	113	3	Ainsworth	44	29	4.15	+1.33	Fairmont	10.64	Springview	1.17
Nevada	70.5	−0.1	Logandale	111	6	Zora Vista Ranch	25	20	0.80	+0.36	Arthur	2.93	Mina	0.00
New England	66.2	−0.6	2 stations	100	3	Bloomfield, Vt	32	14	2.54	−1.33	Van Buren, Me	6.14	Hardwick, Mass	0.85
New Jersey	71.1	−0.7	do	101	[1] 3	Layton	34	13	3.32	−1.61	Woodcliff Lake	5.58	Cape May City	1.92
New Mexico	70.4	+0.6	do	107	[1] 4	Therma	31	20	2.15	−0.34	Cloverdale	5.74	Newman	0.21
New York	67.4	+0.1	Addison	103	8	Allegany State Park	32	[1] 12	2.41	−1.41	South Edwards	5.38	Elmira	0.50
North Carolina	73.9	−1.4	Weldon	105	10	Banners Elk	31	23	2.68	−2.72	Statesville	6.06	Henderson	0.23
North Dakota	70.4	+5.0	2 stations	104	[1] 2	Portal	32	31	1.45	−0.83	Ellendale	5.01	Pembina	T.
Ohio	72.0	+0.4	3 stations	107	4	3 stations	38	[1] 12	2.35	−1.09	St. Paris	5.32	Put-in-Bay	0.58
Oklahoma	83.8	+2.6	Alva	113	3	2 stations	54	[1] 25	1.81	−1.25	Tuskahoma	4.11	Walters	0.21
Oregon	66.7	+1.5	Umatilla	109	[1] 7	Sand Creek	23	[1] 24	0.22	−0.29	Olive Lake	1.60	15 stations	0.00
Pennsylvania	70.3	+0.3	Carlisle	108	4	Somerset	29	12	1.47	−2.76	Kregar	4.12	Sunbury	0.29
South Carolina	77.5	−1.3	2 stations	103	[1] 6	Caesar's Head	46	23	2.42	−3.33	Georgetown	7.66	Trenton	0.29
South Dakota	74.2	+4.3	Wagner	113	2	Hot Springs	42	31	2.80	+0.42	Dowling	8.24	Waters Ranch	0.18
Tennessee	77.4	+1.0	Perryville	113	9	Crossville	43	12	2.61	−1.40	Kingsport	6.11	McKenzie	0.40
Texas	84.1	+1.4	McKinney	114	19	4 stations	53	[1] 8	1.51	−1.05	Navasota	6.79	16 stations	0.00
Utah	69.8	+0.3	St. George	104	[1] 6	Park City	30	9	2.57	+1.37	Black's Fork (near)	6.70	Bluff	0.34
Virginia	74.2	+0.6	3 stations	107	[1] 4	Burkes Garden	36	[1] 12	1.75	−2.66	Mendota	5.85	Randolph	0.15
Washington	67.4	+1.9	Wahluke	110	12	3 stations	32	[1] 26	0.22	−0.70	Forks	1.64	11 stations	0.00
West Virginia	70.7	−1.1	Moorefield	112	4	2 stations	30	12	2.20	−1.90	Gary	5.07	Upper Tract	0.70
Wisconsin	70.0	+3.1	2 stations	103	3	Big St. Germain Dam.	31	12	1.05	−2.23	Lake Mills	3.18	Downing	0.10
Wyoming	65.3	+1.3	Colony	100	1	Riverside	28	30	3.24	+2.26	Pinebluff	9.44	Ulm	T.
Alaska (July)	55.7	−0.1	Fort Yukon	84	27	Barrow	28	24	2.70	−0.06	Mount Roberts (b)	14.91	Fort Yukon	0.42
Hawaii	76.2	+1.0	Kaanapali	96	[1] 21	Waimea	51	[1] 6	9.30	+2.03	Piihonua	59.83	2 stations	0.00
Porto Rico	79.8	+0.7	Juana Diaz	101	11	Guineo Reservoir	50	15	4.99	−2.24	Lares	15.95	Santa Isabel	1.41

TABLE 1.—*Climatological data for Weather Bureau stations, August, 1930*

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: Departure from normal	Temperature: Maximum	Temperature: Date	Temperature: Mean maximum	Temperature: Minimum	Temperature: Date	Temperature: Mean minimum	Temperature: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with .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							**67.3**	**−0.1**										**78**	**2.10**	**−1.5**										**5.3**		
Eastport	76	67	85	29.92	30.00	+0.04	60.6	−0.1	79	27	68	49	13	53	27	56	54	83	2.32	−0.7	8	5,058	s.	33	e.	23	2	12	17	7.2	0.0	0.0
Greenville, Me.	1,070	6		28.86	30.01		61.4		81	28	71	39	14	52	30			13	4.24		13	3,299	se.				9	11	11		0.0	0.0
Portland, Me.	103	82	117	29.90	30.02	+.04	65.6	−0.8	86	5	73	48	13	59	22	60	56	75	2.62	−0.5	13	4,726	sw.	30	ne.	23	10	15	6	4.6	0.0	0.0
Concord	289	70	79	29.70	30.00	+.02	65.7	−1.1	91	3	77	41	13	55	34				2.82	−0.7	10	2,821	nw.	22	e.	23	12	9	10	5.4	0.0	0.0
Burlington	403	11	48	29.56	29.98	+.01	65.6	−2.3	85	28	76	43	13	56	31				1.61	−1.8	15	4,947	s.	24	sw.	24	8	8	15	6.2	0.0	0.0
Northfield	876	12	60		30.02	+.04	62.6	−0.8	86	4	75	36	13	50	36			84	1.17	−2.4	12	3,306	s.	25	sw.	4	2	20	9	6.5	0.0	0.0
Boston	125	106	165	29.87	30.00	+.01	70.5	+0.6	98	3	78	53	12	63	28	63	59	70	3.03	−0.6	8	4,472	sw.	20	e.	23	8	18	5	5.2	0.0	0.0
Nantucket	12	14	90	29.99	30.00	+.01	68.4	+0.6	90	5	75	57	13	62	21	64	62	85	1.79	−1.6	7	8,430	sw.	36	ne.	23	16	8	7	4.5	0.0	0.0
Block Island	26	11	46	29.96	29.99	.00	69.2	+0.7	88	5	75	57	12	64	19	65	63	86	2.29	−1.4	7	8,300	sw.	48	ne.	23	10	16	5	4.9	0.0	0.0
Providence	160	215	251	29.83	30.00	+.01	70.6	−0.4	97	3	80	52	13	62	25	63	59	71	2.14	−1.4	7	6,115	nw.	48	nw.	16	15	12	4	4.1	0.0	0.0
Hartford	159	122		29.84	30.01	+.02	70.5	+1.6	98	3	80	50	13	60	29				1.92	−2.4	9		s.				12	12	7	4.5	0.0	0.0
New Haven	106	74	153	29.89	30.00	+.01	70.7	+0.4	94	3	80	51	13	62	24	64	60	72	1.35	−2.9	8	5,394	s.	37	n.	23	12	12	7	4.8	0.0	0.0
Middle Atlantic States							**73.6**	**+0.2**										**68**	**1.80**	**−2.5**										**4.8**		
Albany	97	107	115	29.89	29.99	+.01	70.8	0.0	95	3	81	49	13	61	30	63	60	74	2.20	−1.5	10	3,776	s.	22	sw.	29	13	13	5	4.2	0.0	0.0
Binghamton	871	10	84	29.10	30.02	+.03	69.0	+1.0	97	4	81	40	13	56	40				1.54	−2.0	8	2,879	ne.	18	nw.	9	6	12	13	6.5	0.0	0.0
New York	314	414	454	29.67	30.00	.00	72.8	−0.3	93	5	80	55	23	66	20	64	60	71	3.43	−0.9	9	7,704	sw.	48	n.	23	7	16	8	5.5	0.0	0.0
Bellefonte	1,050	5	36	28.92	30.02		68.1		100	4	84	37	12	53	43	59	53	62	0.36		4		sw.				9	11	11	5.8	0.0	0.0
Harrisburg	374	94	104	29.62	30.01	.00	74.0	+1.4	103	4	85	50	13	63	32	62	54	56	1.21	−2.8	6	3,458	nw.	18	sw.	4	10	16	5	5.0	0.0	0.0
Philadelphia	114	123	367	29.89	30.01	+.01	75.7	+0.9	98	5	84	57	23	67	23	65	59	63	1.51	−3.1	8	7,655	sw.	35	ne.	23	9	16	6	5.1	0.0	0.0
Reading	325	81	98	29.66	30.00		73.8	+1.4	99	5	84	51	13	63	30	63	57	61	1.21	−3.0	6	3,148	sw.	17	nw.	10	14	8	9	4.9	0.0	0.0
Scranton	805	111	119	29.17	30.02	+.02	70.2	+0.4	98	4	82	42	13	58	37	60	55	63	1.85	−1.8	5	3,522	sw.	24	ne.	23	10	19	2	4.6	0.0	0.0
Atlantic City	52	37	172	29.94	29.99	−.01	72.2	−0.3	92	10	78	56	13	66	22	67	64	79	2.55	−1.9	5	9,243	s.	48	n.	23	14	11	6	4.2	0.0	0.0
Cape May	17	13	49				72.0	−1.4	92	9	80	53	13	64	23	67	65	81	1.92	−2.3	6		s.				12	13	6		0.0	0.0
Sandy Hook	22	10	55	29.96	29.98		72.6		94	5	79	57	23	66	20	66	62	75	2.94	−2.0	5	7,930	sw.	56	ne.	23	14	10	7	4.6	0.0	0.0
Trenton	190	159	183	29.80	30.00		72.8	−0.2	95	9	83	53	12	63	28	64	59	68	3.30	−1.4	7	5,640	sw.	44	ne.	23	11	15	5	4.9	0.0	0.0
Baltimore	123	100	215	29.87	29.99	−.02	77.6	+2.1	104	5	87	60	12	68	29	65	59	56	0.78	−3.6	6	6,099	n.	28	sw.	29	10	17	4	4.9	0.0	0.0
Washington	112	62	85	29.89	30.00	−.01	76.8	+1.8	102	5	88	55	13	66	30	64	58	59	0.62	−3.4	5	3,252	nw.	20	nw.	10	10	15	6	4.6	0.0	0.0
Cape Henry	18	8	54	29.98	30.00		75.4	−1.5	96	4	82	60	24	68	23	69	66	77	1.88	−3.0	6	7,070	sw.	34	n.	17	15	11	5	4.6	0.0	0.0
Lynchburg	681	153	188	29.31	30.04	+.02	75.4	−0.2	101	9	88	49	13	63	34	64	58	60	0.42	−3.4	9	3,599	n.	26	sw.	17	13	14	4	4.7	0.0	0.0
Norfolk	91	170	205	29.92	30.02	+.02	77.4	0.0	100	9	86	60	24	69	25	68	64	71	0.64	−4.6	6	7,123	ne.	32	ne.	21	12	9	10	4.7	0.0	0.0
Richmond	144	11	52	29.87	30.01	.00	76.1	−0.4	101	9	88	55	13	65	30	66	62	69	2.35	−2.1	6	3,731	sw.	31	n.	27	16	8	7	4.0	0.0	0.0
Wytheville	2,304	49	55	27.72	30.03	+.02	68.6	−1.9	93	5	81	44	13	56	34	60	56	71	2.13	−2.1	9	2,930	w.	16	w.	10	14	11	6	4.4	0.0	0.0
South Atlantic States							**77.3**	**−0.8**										**73**	**2.13**	**−3.6**										**4.4**		
Asheville	2,253	70	84	27.76	30.05	+.03	70.4	−0.1	94	8	82	49	23	59	31	61	58	75	1.78	−2.4	8	3,352	se.	32	nw.	10	19	8	4	3.8	0.0	0.0
Charlotte	779	55	62	29.21	30.03	+.01	76.7	−0.4	100	5	88	53	23	66	30	66	62	38	3.41	−1.7	10	2,379	ne.	23	w.	10	12	12	7	4.8	0.0	0.0
Greensboro	886	5	56	29.10	30.04		74.2		101	5	87	51	24	61	38	65	63	76	2.25		9	4,109	sw.	31	ne.	7	12	12	7	4.7	0.0	0.0
Hatteras	11	5	50	29.99	30.00	.00	76.7	−1.3	87	6	82	62	24	71	19	71	68	78	3.07	−2.7	7	8,491	sw.	36	n.	22	14	11	6	4.3	0.0	0.0
Raleigh	376	103	110	29.62	30.01	.00	76.0	−1.0	98	9	86	58	21	66	28	67	62	68	1.25	−4.2	6	4,655	sw.	26	w.	9	12	12	7	4.5	0.0	0.0
Wilmington	78	81	91	29.95	30.03	+.03	76.7	−0.9	95	30	85	57	23	68	26	70	68	80	1.56	−4.8	7	3,906	sw.	15	ne.	13	11	12	8	4.9	0.0	0.0
Charleston	46	11	92	29.98	30.03	+.02	79.6	−1.4	94	29	86	62	23	73	22	72	70	78	1.75	−4.8	6	6,154	sw.	26	n.	8	12	12	7	4.4	0.0	0.0
Columbia, S. C.	351	41	57	29.66	30.03	+.02	78.0	−1.6	97	6	88	55	23	68	30	68	64	68	1.59	−3.9	7	3,453	ne.	24	nw.	18	13	14	4	4.1	0.0	0.0
Due West	711	10	55	29.30	30.05		77.5		96	31	88	53	23	66	37				0.78		5	4,307	sw.	24	se.	21	11	16	4	4.1	0.0	0.0
Greenville, S. C.	1,039	139	146	28.96	30.03		77.0	+1.2	98	5	87	54	23	67	26	67	62	67	2.65	−2.8	7	4,113	ne.	32	w.	5	8	17	6	4.9	0.0	0.0
Augusta	182	62	77	29.82	30.01	.00	79.4	−1.0	98	29	90	58	23	69	34	69	65	69	3.67	−1.4	8	2,921	s.	24	n.	21	14	14	3	4.4	0.0	0.0
Savannah	65	150	194	29.95	30.02	+.01	79.8	−0.9	97	29	89	60	23	71	28	72	69	78	1.95	−5.4	6	6,303	n.	32	nw.	11	12	12	7	4.3	0.0	0.0
Jacksonville	43	209	245	29.98	30.03	+.02	79.8	−1.9	95	6	87	64	22	72	21	72	69	76	0.76	−5.0	5	6,174	ne.	25	s.	7	14	12	5	4.4	0.0	0.0
Florida Peninsula							**82.6**	**+0.5**										**75**	**5.31**	**−0.9**										**4.8**		
Key West	22	10	64	29.98	30.00	+.02	83.8	+0.3	92	12	89	73	22	78	17	76	74	73	4.09	−0.4	14	4,702	e.	31	n.	19	10	13	8	5.2	0.0	0.0
Miami	25	124	168	30.00	30.02	−.01	82.4	+1.0	92	21	89	71	26	76	18	75	73	76	4.72	−1.4	16	4,990	ne.	25	w.	19	3	23	5	6.0	0.0	0.0
Tampa	35	79	197	29.98	30.01	+.01	81.6	+0.1	94	15	90	67	2	73	22	73	70	75	7.13	−1.0	14	5,645	e.	44	ne.	2	7	18	6	5.3	0.0	0.0
Titusville	44	5		29.97	30.03		81.8		99	10	91	66	22	72	26				5.65		8		sw.				23	6	2	2.7	0.0	0.0
East Gulf States							**80.0**	**+0.1**										**71**	**3.38**	**−1.9**										**4.7**		
Atlanta	1,173	190	216	28.83	30.04	+.03	78.8	+1.8	98	6	88	57	22	70	22	66	61	61	0.96	−3.5	8	4,613	nw.	23	nw.	17	11	11	9	5.0	0.0	0.0
Macon	370	78	87	29.64	30.03	+.02	78.6	−1.3	98	6	90	58	22	68	32	69	66	70	1.71	−2.6	6	3,013	sw.	21	nw.	10	13	12	6	4.1	0.0	0.0
Thomasville	273	49	103	29.74	30.03	+.03	79.6	−1.4	94	12	90	62	21	70	25	71	68	74	2.99	−2.8	6	3,640	ne.	30	w.	8	11	13	7	5.0	0.0	0.0
Apalachicola	36	11	51	29.98	30.02		80.6		92	8	88	67	26	74	20	73	71	73	2.68	−4.9	8	4,278	n.	28	nw.	19	15	13	3	4.1	0.0	0.0
Pensacola	56	149	185	29.97	30.03	+.05	79.6	−1.3	90	6	86	67	22	73	21	73	70	75	1.66	−7.0	7	6,361	w.	33	n.	18	8	11	12	5.8	0.0	0.0
Anniston	741	9	57	29.27	30.05	+.06	77.7	+1.3	103	8	90	55	23	65	36				1.99	−2.1	9	2,165	nw.	18	nw.	17	20	8	3	3.4	0.0	0.0
Birmingham	700	11	48	29.29	30.04	+.05	79.8	+0.6	103	8	91	59	23	68	31	68	64	69	4.93	+0.7	9	3,091	n.	17	ne.	20	14	11	6	4.3	0.0	0.0
Mobile	57	125	161	29.97	30.03	+.05	81.2	+0.2	95	13	90	65	23	73	23	73	71	78	3.71	−3.2	7	4,826	n.	38	sw.	18	7	16	8	5.6	0.0	0.0
Montgomery	223	100	112	29.80	30.04	+.05	80.2	−0.6	99	6	90	62	23	71	27	70	67	72	3.96	−0.3	8	3,162	sw.	26	sw.	10	11	10	10	5.4	0.0	0.0
Corinth	469	6					81.2		110	8	95	56	24	67	42				3.21		7		sw.				11	20	0		0.0	0.0
Meridian	375	87	95	29.64	30.02	+.04	79.4	−0.1	99	7	90	59	23	68	33	69	65	68	3.73	−0.8	9	2,798	sw.	27	n.	19	11	16	4	4.4	0.0	0.0
Vicksburg	247	65	73	29.76	30.04	+.06	82.2	+1.4	99	7	92	62	23	72	26	70	65	65	3.41	0.0	7	3,716	se	26	w.	18	16	11	4	3.7	0.0	0.0
New Orleans	53	76	84	29.97	30.02	+.04	82.8	+0.6	96	7	90	70	29	75	19	75	72	77	9.49	+3.7	9	2,832	se.	16	ne.	15	10	15	6	5.1	0.0	0.0
West Gulf States							**84.0**	**+2.1**										**66**	**1.58**	**−1.4**										**3.8**		
Shreveport	249	77	93	29.72	29.98	+.01	84.4	+2.4	102	19	96	67	23	73	28	72	66	62	2.40	−0.3	7	3,542	se.	22	nw.	20	17	8	6	4.0	0.0	0.0
Bentonville	1,303	11	44	28.64	29.97	.00	79.2	+2.7	102	13	92	55	23	66	34				2.62		5	2,420	s.	16	s.	4	28	2	1		0.0	0.0
Fort Smith	457	79	94	29.50	29.97	.00	84.8	+4.3	106	7	97	62	23	72	31	69	63	55	0.95	−2.3	4	3,912	e.	28	se.	4	10	16	5	4.9	0.0	0.0
Little Rock	357	136	153	29.63	30.00	+.02	82.8	+3.0	105	8	94	63	23	72	29	68	60	53	0.65	−3.1	6	4,586	e.	28	sw.	4	19	7	5	3.8	0.0	0.0
Austin	605	136	148	29.34	29.97		85.2	+1.4	103	20	97	67	28	74	28	72	66	62	1.71	−0.3	5	4,587	s.	29	se.	5	19	11	1	3.6	0.0	0.0
Brownsville	57	83	100	29.91	29.97		83.8	−0.1	96	21	92	71	28	76	23	75	72	77	0.53	−2.0	2	6,984	se.	26	se.	31	21	9	1	2.9	0.0	0.0
Corpus Christi	20	11	78	29.96	29.98	+.05	84.0	+1.5	97	29	91	73	28	77	23	76	74	80	0.32	−2.0	1	7,914	se.	26	se.	10	18	9	1	3.6	0.0	0.0
Dallas	512	220	227	29.44	29.97		84.9		104	19	95	68	26	75	28				1.21	−1.6	5	6,253	s.	34	ne.	22	24	5	2	2.4	0.0	0.0
Fort Worth	670	106	114	29.26	29.96	+.02	85.2	+2.2	105	19	96	67	5	74	28	70	63	54	3.12	+0.5	8	4,979	se.	21	w.	5	11	13	7	4.9	0.0	0.0
Galveston	54	106	114	29.97	30.03	+.07	83.4	+0.4	92	1	88	67	25	78	17	76	73	76	2.73	−1.6	5	6,375	s.	33	se.	25	11	17	3	4.7	0.0	0.0
Groesbeck	461	11	56	29.51	29.98		84.2		103	19	96	64	29	73	30				1.50	−0.4	6	5,458	s.	22	se.	31	17	10	4	3.3	0.0	0.0
Houston	138	292	314	29.86	30.00		85.2	+2.0	102	19	95	69	29	76	25				0.79	−3.4	7	6,132	s.	26	e.	1	13	15	3	4.5	0.0	0.0
Palestine	510	64	72	29.48	29.99	+.02	83.4	+1.6	103	19	94	67	29	73	29	71	67	66	2.10	−0.1	6	3,871	s.	22	s.	31	18	8	5	3.4	0.0	0.0
Port Arthur	34	58	66	29.97	30.01		83.6		97	1	92	69	27	75	27	75	72	75	3.88	−2.1	9	4,356	e.	33	e.	19	16	12	3	3.8	0.0	0.0
San Antonio	693	242	301	29.26	29.95	+.02	85.8	+2.3	103	20	98	70	27	74	28	72	67	63	0.41	−2.0	1	6,583	se.	34	se.	31	16	13	2	3.4	0.0	0.0
Taylor	571	38	51	29.42	30.01	+.06	84.8	+3.1	102	19	97	68	25	73	28				1.35	−1.0	3	4,915	s.	26	se.	31	15	13	3	3.7	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, August, 1930*—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 maximum	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 .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							**75.5**	**+0.6**										**60**	**1.97**	**−1.4**										**5.0**		
Chattanooga	762	190	215	29.22	30.01	+.01	77.8	+0.3	98	9	88	55	22	67	30	66	60	60	1.43	−2.6	7	4,059	sw.	30	sw.	9	8	20	3	5.0	0.0	0.0
Knoxville	995	102	111	29.00	30.03	+.02	76.5	+0.3	101	5	88	54	23	65	35	65	60	64	2.03	−1.9	7	3,086	ne.	24	sw.	8	13	10	8	4.7	0.0	0.0
Memphis	399	76	97	29.59	30.00	+.02	81.4	+2.0	104	8	91	62	24	71	33	68	61	56	0.49	−2.9	4	4,299	ne.	20	nw.	17	16	10	5	3.9	0.0	0.0
Nashville	546	168	191	29.46	30.04	+.04	79.2	+1.4	105	9	90	58	22	68	34	65	58	56	4.69	+1.0	8	4,712	w.	26	sw.	4	16	11	4	3.7	0.0	0.0
Lexington	989	193	230	29.01	30.05	+.04	76.2	+1.7	99	8	86	56	12	66	32				1.69	−1.8	11	6,746	ne.	51	nw.	9	14	12	5	4.0	0.0	0.0
Louisville	525	188	234	29.47	30.04	+.04	77.8	+0.8	102	8	89	57	12	67	30	64	57	57	1.20	−2.2	8	5,298	n.	62	nw.	9	10	19	2	4.4	0.0	0.0
Evansville	431	76	116	29.56	30.02	+.03	78.8	+1.4	105	9	90	57	22	68	28	66	58	55	1.29	−2.1	5	4,323	n.	32	n.	9	10	13	8	5.0	0.0	0.0
Indianapolis	822	194	230	29.16	30.03	+.03	75.4	+1.7	99	9	86	54	12	65	28	63	56	58	2.08	−1.2	11	5,595	ne.	42	nw.	9	8	15	8	5.5	0.0	0.0
Royal Center	736	11	55	29.27	30.05		71.0		93	3	82	44	12	60	32				2.23	−0.3	12	4,176	ne.	60	w.	9	10	10	11	5.7	0.0	0.0
Terre Haute	575	96	129	29.42	30.03		77.2		102	8	88	56	11	66	31	65	59	61	1.68	−1.6	9	4,703	n.	33	nw.	9	11	9	11	5.4	0.0	0.0
Cincinnati	627	11	51	29.37	30.04	+.03	75.4	+1.8	101	4	88	53	12	63	35	63	56	60	1.24	−2.2	9	3,396	ne.	22	nw.	9	12	12	7	5.0	0.0	0.0
Columbus	822	216	230	29.17	30.03	+.02	73.0	0.0	98	9	83	54	12	63	31	62	55	66	2.45	−0.8	11	5,089	n.	34	nw.	9	12	10	9	5.1	0.0	0.0
Dayton	899	137	173	29.10	30.03		73.6	+0.2	98	4	84	54	12	63	32	62	57	64	4.98	+1.7	12	3,728	ne.	30	nw.	9	11	14	6	5.0	0.0	0.0
Elkins	1,947	59	67	28.05	30.05	+.03	66.6	−2.5	94	4	80	37	12	54	45	59	55	75	1.28	−2.6	9	2,118	nw.	17	w.	10	8	12	11	6.4	0.0	0.0
Parkersburg	637	77	82	29.40	30.05	+.04	73.8	−0.1	102	4	85	49	12	62	40	62	56	62	1.63	−1.9	10	2,581	se.	26	nw.	8	9	12	10	5.9	0.0	0.0
Pittsburgh	842	353	410	29.14	30.03	+.02	71.6	−1.3	99	4	82	50	12	62	33	60	53	59	1.10	−2.1	7	4,286	w.	24	w.	4	9	15	7	5.5	0.0	0.0
Lower Lake Region							**70.3**	**+0.7**										**65**	**1.31**	**−1.7**										**5.4**		
Buffalo	767	247	280	29.18	30.00	+.01	68.7	+0.1	85	8	76	50	11	62	27	63	61	78	0.69	−2.4	6	7,947	sw.	38	sw.	2	10	12	9	5.4	0.0	0.0
Canton	448	10	61	29.51	29.97		65.4	−2.4	86	4	76	46	12	54	34				1.24	−2.4	12	4,680	sw.	29	sw.	4	6	16	9	5.7	0.0	0.0
Ithaca	836	5	100	29.12	30.01		67.5	−1.1	96	4	80	40	13	55	38	60	56	71	1.49	−1.9	10	4,283	nw.	24	s.	14	7	13	11	6.0	0.0	0.0
Oswego	335	76	91	29.63	29.99	.00	68.3	−0.1	93	4	77	49	13	60	30	61	57	69	1.34	−1.3	12	4,691	s.	20	nw.	10	8	15	8	5.5	0.0	0.0
Rochester	523	86	102	29.46	30.02	+.03	69.8	+0.6	96	8	79	48	12	60	32	60	55	63	2.05	−0.8	10	4,322	sw.	28	sw.	4	6	16	9	5.9	0.0	0.0
Syracuse	596	65	79	29.37	30.00	+.01	70.8	+2.2	96	3	81	48	13	61	30				1.57	−1.3	11	3,655	s.	20	nw.	10	7	16	8	5.4	0.0	0.0
Erie	714	130	166	29.27	30.02	+.01	70.8	+1.2	94	4	79	53	12	63	28	62	56	62	1.16	−2.1	5	6,926	nw.	32	sw.	4	14	10	7	4.4	0.0	0.0
Cleveland	762	267	337	29.22	30.03	+.02	71.1	+1.1	97	4	78	55	23	64	23	62	55	59	1.84	−0.9	7	6,950	n.	32	nw.	24	6	15	10	6.3	0.0	0.0
Sandusky	629	5	67	29.36	30.04	+.03	72.8	+1.0	99	4	82	51	13	64	31				1.16	−2.0	7	4,235	ne.	23	w.	4	6	16	9	5.7	0.0	0.0
Toledo	628	208	243	29.37	30.04	+.04	72.8	+1.5	96	3	82	54	11	64	26	61	55	58	0.86	−2.0	11	6,831	n.	31	w.	4	15	8	8	4.3	0.0	0.0
Fort Wayne	856	100	119	29.13	30.05		72.3	+1.2	92	3	82	52	12	62	28	63	58	67	1.43	−1.7	10	4,453	ne.	43	w.	9	6	10	15	6.5	0.0	0.0
Detroit	730	218	258	29.26	30.04	+.03	73.5	+3.2	96	3	82	54	11	65	27	61	55	58	0.90	−1.9	8	5,541	sw.	25	ne.	17	17	8	6	3.7	0.0	0.0
Upper Lake Region							**69.5**	**+3.3**										**68**	**0.74**	**−2.1**										**4.1**		
Alpena	609	13	92	29.38	30.04	+.04	67.6	+3.5	89	2	78	45	12	57	30	60	56	71	1.14	−1.7	8	6,225	nw.	35	nw.	31	15	12	4	3.9	0.0	0.0
Escanaba	612	54	60	29.39	30.04	+.05	67.1	+2.8	89	8	76	44	11	58	26	60	56	71	0.69	−2.5	8	5,597	s.	23	n.	10	18	10	3	3.6	0.0	0.0
Grand Haven	632	54	89	29.35	30.02	+.03	68.5	+1.4	88	3	77	48	12	60	26	61	56	68	0.43	−2.4	5	5,645	w.	29	sw.	3	11	9	11	5.3	0.0	0.0
Grand Rapids	707	70	87	29.29	30.05	+.05	73.0	+3.3	95	3	84	50	12	62	32	60	53	56	0.40	−2.2	6	6,115	ne.	34	sw.	3	11	13	7	5.1	0.0	0.0
Houghton	668	64	99	29.32	30.04	+.07	67.8	+4.1	92	1	78	48	12	58	33				0.94	−1.8	7	5,248	w.	25	w.	9	21	4	6	3.3	0.0	0.0
Lansing	878	6	49	29.11	30.04		70.1	+1.6	97	3	83	45	12	57	33	61	55	64	0.18	−2.6	4	2,737	n.	15	w.	2	12	14	5	4.5	0.0	0.0
Ludington	637	60	66	29.35	30.04		67.6	+2.3	87	4	76	49	12	60	24	61	57	72	0.98	−1.6	5	5,182	s.	26	s.	3	20	10	1	2.8	0.0	0.0
Marquette	734	77	111	29.24	30.04	+.06	68.1	+4.3	95	2	77	51	11	59	31	61	58	74	1.16	−1.5	6	5,824	w.	25	s.	30	16	10	5	3.8	0.0	0.0
Port Huron	638	70	120	29.34	30.03	+.03	69.6	+1.8	95	2	79	48	11	60	28	62	57	69	0.56	−2.1	6	6,212	ne.	38	nw.	14	10	15	6	5.1	0.0	0.0
Sault Sainte Marie	614	11	52	29.35	30.04	+.05	66.2	+4.1	89	2	76	45	12	56	31	59	56	76	0.40	−2.2	6	4,315	nw.	28	nw.	10	22	7	2	2.8	0.0	0.0
Chicago	673	7	131	29.33	30.05	+.05	73.4	+1.8	98	3	80	56	12	66	26	64	60	70	1.17	−2.0	9	5,279	ne.	30	n.	9	13	10	8	5.0	0.0	0.0
Green Bay	617	109	141	29.37	30.03	+.04	71.2	+3.5	94	4	82	50	18	60	29	62	57	65	0.59	−2.6	5	5,661	n.	23	n.	16	11	12	8	5.1	0.0	0.0
Milwaukee	681	125	221	29.31	30.04	+.04	72.8	+3.6	95	3	80	56	11	65	26	63	58	64	1.46	−1.2	10	6,779	n.	52	sw.	31	14	11	6	4.3	0.0	0.0
Duluth	1,133	5	47	28.84	30.03	+.06	70.2	+7.6	97	1	82	45	12	58	35	60	55	67	0.29	−2.9	4	6,689	ne.	33	sw.	1	19	12	0	2.8	0.0	0.0
North Dakota							**71.1**	**+5.0**										**59**	**2.09**	**−0.3**										**5.0**		
Moorhead	940	50	58	28.99	29.99	+.03	72.2	+6.1	98	1	85	45	10	59	40	60	53	58	0.92	−2.0	8	4,589	s.	27	nw.	29	8	13	10	5.6	0.0	0.0
Bismarck	1,674	8	57	28.22	29.97	+.03	71.3	+4.0	97	6	84	45	10	59	38	60	54	62	1.71	−0.1	9	4,838	e.	35	nw.	6	12	10	9	5.0	0.0	0.0
Devils Lake	1,478	11	44	28.44	29.99	+.05	69.5	+4.7	95	1	83	41	10	56	37	58	52	62	0.62	−1.9	7	4,546	se.	21	n.	31	14	5	12	4.8	0.0	0.0
Ellendale	1,457	10	56	28.45	29.99		71.0		98	2	85	41	10	57	42				5.01	+1.9	9	7,672	s.	45	se.	21	5	15	11	6.1	0.0	0.0
Grand Forks	833	12	67				71.0		98	2	85	41	10	57	40	60			1.24		4		se.	29	nw.	31	18	12	1		0.0	0.0
Williston	1,878	41	48	28.03	29.96	+.03	71.4	+5.3	98	1	84	43	31	58	42	58	49	53	2.17	+0.7	9	3,858	se.	20	ne.	26	19	5	7	3.7	0.0	0.0
Upper Mississippi Valley							**75.8**	**+3.0**										**61**	**1.39**	**−1.9**										**5.0**		
Minneapolis	918	102	208	29.02	29.99		75.2	+5.3	98	3	86	54	10	65	28				0.72	−2.4	7	5,548	s.	30	nw.	1	11	11	9	5.1	0.0	0.0
St. Paul	837	236	261	29.13	30.02	+.05	74.0	+4.6	98	3	85	53	10	63	29				0.48	−2.5	6	5,670	se.	32	w.	1	10	14	7	4.8	0.0	0.0
La Crosse	714	11	48	29.26	30.01	+.03	72.2	+2.2	98	3	85	48	12	59	34	62	58	70	0.90	−2.8	7	1,874	s.	13	sw.	27	12	12	7	4.7	0.0	0.0
Madison	974	70	78	29.01	30.03	+.04	72.5	+2.7	94	3	82	55	12	63	25	62	57	63	1.58	−1.6	9	3,892	s.	15	e.	17	12	15	4	4.6	0.0	0.0
Wausau	1,247	4	62	28.75	30.06		70.2		94	4	83	46	12	57	35				1.56	−2.0	8	3,041	n.	15	w.	1	11	11	9	5.1	0.0	0.0
Charles City	1,015	10	51	28.98	30.04	+.07	72.4	+3.3	101	3	84	50	11	61	32	63	58	66	1.45	−2.0	6	2,800	se.	25	nw.	5	14	11	6	4.1	0.0	0.0
Davenport	606	71	79	29.38	30.03	+.05	75.6	+2.5	103	3	86	56	22	65	29	64	59	62	2.42	−1.1	10	3,940	ne.	38	nw.	9	10	8	13	5.8	0.0	0.0
Des Moines	861	5	99	29.12	30.01	+.04	75.8	+2.7	105	3	87	53	11	65	31	64	59	61	1.00	−2.5	12	4,601	e.	25	s.	31	6	14	11	6.0	0.0	0.0
Dubuque	700	81	96	29.30	30.03	+.05	74.2	+2.5	103	3	85	53	22	63	31	64	58	64	1.92	−1.3	5	2,778	n.	27	nw.	5	10	13	8	5.0	0.0	0.0
Keokuk	614	64	78	29.37	30.04	+.06	78.0	+3.0	106	3	89	59	21	67	32	65	59	58	2.11	−1.1	9	3,350	ne.	18	sw.	3	8	11	12	5.7	0.0	0.0
Cairo	358	87	93	29.64	30.01	+.02	79.4	+1.6	106	9	90	61	22	69	28	66	60	59	0.76	−2.3	8	4,249	s.	23	n.	10	14	9	8	4.6	0.0	0.0
Peoria	609	11	45	29.39	30.05	+.06	76.1	+3.6	103	3	88	52	23	64	39	64	59	64	1.56	−1.6	6	2,654	ne.	21	n.	9	14	11	6	4.2	0.0	0.0
Springfield, Ill	636	154	191	29.36	30.02	+.03	77.0	+2.5	102	3	87	57	21	67	28	65	58	58	2.68	−0.5	8	6,083	ne.	43	n.	9	9	10	12	5.8	0.0	0.0
Hannibal	534	74	109	29.47	30.04	+.06	78.0	+3.0	104	9	89	54	22	66	35				1.45	−1.9	11	4,053	sw.	21	sw.	3	13	6	12	5.2	0.0	0.0
St. Louis	568	265	303	29.42	30.01	+.02	80.4	+3.1	105	4	90	59	22	71	25	65	57	51	0.28	−2.7	6	5,800	s.	24	sw.	3	16	8	7	4.5	0.0	0.0
Missouri Valley							**77.2**	**+3.3**										**62**	**2.91**	**−0.3**										**5.0**		
Columbia, Mo	784	6	84	29.20	30.01	+.04	78.4	+2.8	107	9	90	58	24	67	35				2.18	−1.4	7	3,916	sw.	17	n.	18	7	16	8	5.5	0.0	0.0
Kansas City	963	161	181	28.98	29.98	+.01	80.2	+3.6	107	3	90	56	12	71	28	66	58	54	3.48	−0.6	8	5,609	e.	21	n.	18	15	12	4	4.1	0.0	0.0
St. Joseph	967	11	49	28.98	29.98		78.8		107	3	90	59	25	68	29	66	61	61	3.29	−0.2	11	4,218	se.	30	nw.	16	18	8	5	3.8	0.0	0.0
Springfield, Mo	1,324	98	104	28.65	30.03	+.06	78.9	+3.2	101	9	89	60	12	69	26	65	57	53	3.02	−1.1	6	5,224	se.	29	w.	16	27	4	0	1.4	0.0	0.0
Iola	984	11	50	28.96	29.98	+.02	81.0	+3.9	108	4	94	58	23	68	40				1.60	−1.9	9	2,938	s.	24	se.	4	13	13	5	4.4	0.0	0.0
Topeka	987	92	107				80.0	+3.8	110	3	91	58	12	69	32				2.88	−1.2	9	5,089	sw.	31	se.	4	11	16	4	4.6	0.0	0.0
Lincoln	1,189	11	81	28.74	29.97	+.02	77.2	+2.8	108	3	88	57	12	67	32	67	63	70	3.75	+0.2	15	4,835	e.	29	nw.	30	3	18	10	6.4	0.0	0.0
Omaha	1,105	115	122	28.84	29.99	+.03	76.7	+2.3	111	3	87	60	11	67	31	66	61	67	6.28	+3.2	14	3,306	e.	35	nw.	30	6	19	6	5.3	0.0	0.0
Valentine	2,598	47	54	27.32	29.98	+.04	73.3	+1.6	103	2	85	50	31	62	36	63	58	68	2.31	+0.1	13	5,124	w.	22	sw.	1	4	17	10	5.9	0.0	0.0
Sioux City	1,135	94	164	28.81	29.99	+.04	75.6	+3.6	105	3	85	56	25	66	29	65	60	64	0.89	−2.2	8	5,929	s.	27	s.	31	4	14	13	6.7	0.0	0.0
Huron	1,306	59	74	28.62	29.98	+.03	74.6	+5.2	104	1	86	53	31	63	39	63	58	64	3.58	+1.1	10	5,495	se.	36	sw.	1	13	10	8	5.0	0.0	0.0
Pierre	1,572	70	75	28.31	29.94	.00	75.4	+2.6	107	2	87	50	31	64	38	63	56	59	2.61	+0.5	9	5,371	e.	35	n.	6	8	15	8	5.5	0.0	0.0
Yankton	1,233	49	57	28.69	29.98	+.03	75.7	+3.7	108	3	86	56	21	65	31				1.96	−1.0	11	3,901	se.	22	nw.	31	6	15	10	6.3	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau station, August, 1930*—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 maximum	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 .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							69.7	+3.4										58	2.03	+0.8										5.0		
Billings	3,140	5	----	----	----	----	72.2	----	99	25	88	43	31	56	43	----	----	----	1.35	----	10	----	nw.	----	----	----	5	14	12	----	0.0	0.0
Havre	2,505	11	44	27.38	29.96	+0.05	72.2	+6.8	100	24	88	38	31	57	41	56	44	45	0.34	−0.9	7	3,533	e.	27	n.	30	15	13	3	3.6	0.0	0.0
Helena	4,124	89	113	25.85	29.96	+.02	69.4	+4.4	93	8	83	39	31	56	34	54	44	48	0.54	−0.2	8	4,863	sw.	31	sw.	23	6	18	7	5.6	0.0	0.0
Kalispell	2,973	48	56	26.95	29.94	+.01	68.0	+5.2	98	8	84	42	31	52	43	53	41	46	0.23	−0.6	3	3,651	nw.	20	ne.	30	14	14	3	4.3	0.0	0.0
Miles City	2,371	48	55	27.49	29.98	+.05	75.6	+4.1	100	6	88	42	31	63	37	60	51	51	0.93	−0.2	8	3,447	s.	24	nw.	22	14	13	4	4.6	0.0	0.0
Rapid City	3,259	50	58	26.68	30.02	+.09	72.5	+3.0	97	1	83	45	31	62	35	60	53	57	0.96	−0.7	6	4,304	w.	25	ne.	31	5	16	10	6.2	0.0	0.0
Cheyenne	6,088	84	101	24.15	30.00	+.08	66.2	+0.6	87	20	77	48	30	55	33	56	51	66	6.73	+5.2	16	5,610	w.	38	sw.	31	6	19	6	5.6	0.0	0.0
Lander	5,372	60	68	24.76	30.00	+.08	67.0	+1.5	88	25	80	43	31	54	37	56	50	64	4.35	+3.8	13	2,839	sw.	30	w.	31	15	12	4	4.6	0.0	0.0
Sheridan	3,790	10	47	26.16	29.99	----	70.2	----	94	25	85	38	31	56	42	58	51	60	0.36	−0.6	9	2,753	se.	25	sw.	22	7	15	9	5.7	0.0	0.0
Yellowstone Park	6,241	11	48	----	----	----	61.0	+0.1	82	24	74	30	31	48	39	----	----	69	4.13	+3.1	18	3,757	sw.	32	sw.	1	4	15	12	----	0.0	0.0
North Platte	2,821	11	51	27.10	29.97	+.03	75.4	+4.6	102	2	87	57	28	64	35	65	62	72	1.72	−0.7	17	3,617	se.	21	nw.	4	12	8	11	5.0	0.0	0.0
Middle Slope							78.3	+2.3										58	2.12	−0.6										3.8		
Denver	5,292	106	113	24.85	30.00	+.08	71.6	+0.9	91	3	82	55	17	61	30	58	51	58	2.02	+0.6	12	4,059	s.	26	nw.	17	8	18	5	5.2	0.0	0.0
Pueblo	4,685	80	86	25.35	29.93	+.02	73.7	+1.0	96	2	87	53	30	60	37	59	53	59	3.03	+1.2	12	3,687	nw.	26	w.	14	13	13	5	4.4	0.0	0.0
Concordia	1,392	50	58	28.54	29.98	+.03	79.6	+3.1	108	3	91	60	12	68	33	67	62	62	1.85	−1.1	12	4,410	s.	30	s.	16	12	17	2	4.5	0.0	0.0
Dodge City	2,509	11	51	27.43	29.96	+.03	80.4	+2.7	105	3	94	60	26	67	33	65	58	56	0.55	−2.1	7	5,558	se.	30	e.	20	24	5	2	2.0	0.0	0.0
Wichita	1,358	139	158	28.56	29.95	.00	80.7	+2.4	105	3	92	61	22	70	31	67	61	57	2.96	−0.2	9	7,083	s.	34	nw.	16	19	10	2	3.4	0.0	0.0
Broken Arrow	765	11	56	29.18	30.00	----	82.2	----	105	3	95	60	25	70	33	----	----	----	1.34	−2.5	6	5,865	sw.	31	e.	4	15	13	3	4.0	0.0	0.0
Oklahoma City	1,214	10	47	28.71	29.95	+.01	83.6	+3.9	106	3	96	63	23	71	30	69	62	57	3.12	+0.2	5	4,952	s.	34	nw.	20	22	6	3	3.0	0.0	0.0
Southern Slope							82.7	+3.0										50	1.05	−1.2										3.0		
Abilene	1,738	10	52	28.18	29.94	+.02	85.4	+3.4	105	19	98	64	29	73	32	67	58	48	0.59	−1.6	9	5,298	s.	26	sw.	15	13	15	3	4.1	0.0	0.0
Amarillo	3,676	10	49	26.32	29.96	+.04	79.8	+4.1	100	3	93	60	26	67	34	63	54	51	1.61	−1.5	8	5,558	s.	22	se.	22	21	8	2	2.9	0.0	0.0
Del Rio	944	64	71	28.94	29.90	.00	86.6	+2.4	101	20	98	69	28	76	30	69	60	49	0.08	−1.6	2	5,995	se.	23	se.	8	25	6	0	2.1	0.0	0.0
Roswell	3,566	75	85	26.40	29.93	+.05	78.9	+2.3	102	20	93	57	29	65	36	62	53	52	1.92	−0.2	6	4,203	s.	32	se.	6	22	8	1	2.8	0.0	0.0
Southern Plateau							78.0	+0.6										50	0.84	−0.3										2.8		
El Paso	3,778	152	175	26.21	29.88	+.04	81.6	+2.4	100	19	93	64	10	70	29	62	51	41	1.29	−0.4	5	4,460	e.	32	nw.	25	22	7	2	2.5	0.0	0.0
Santa Fe	7,013	38	53	23.40	29.93	+.04	67.6	+0.2	87	21	80	50	15	56	31	54	46	56	1.99	−0.3	13	3,042	e.	20	nw.	29	19	7	5	4.0	0.0	0.0
Flagstaff	6,907	10	59	23.50	29.93	+.09	63.2	+0.4	86	27	77	42	18	49	39	52	----	66	1.90	----	12	4,340	nw.	31	nw.	13	7	17	7	----	0.0	0.0
Phoenix	1,108	10	107	28.69	29.81	+.02	89.6	+1.1	111	27	103	70	9	77	37	69	58	41	0.86	−0.1	6	3,121	e.	24	n.	10	18	10	3	2.9	0.0	0.0
Yuma	141	9	54	29.67	29.81	+.05	89.6	−0.8	113	27	104	67	19	75	41	72	62	47	0.04	−0.5	2	2,941	sw.	30	se.	1	24	6	1	1.9	0.0	0.0
Independence	3,957	6	27	25.98	29.93	+.12	76.4	+0.3	96	22	92	54	19	61	41	55	----	----	T.	−0.1	0	----	nw.	----	----	----	17	9	5	----	0.0	0.0
Middle Plateau							71.7	+0.6										46	1.26	+0.5										3.9		
Reno	4,532	74	81	25.51	29.93	+.09	69.0	+2.0	94	7	85	42	20	52	43	52	40	43	0.48	+0.3	4	4,201	w.	31	w.	10	22	6	3	2.8	0.0	0.0
Tonopah	6,090	12	20	----	----	----	71.0	----	87	21	82	55	2	60	27	53	39	37	1.29	----	8	----	se.	----	----	----	----	----	----	----	----	----
Winnemucca	4,344	18	56	25.65	29.96	+.08	70.3	+1.0	94	6	88	44	22	53	48	53	41	44	0.38	+0.2	8	3,338	sw.	29	w.	2	17	10	4	3.7	0.0	0.0
Modena	5,473	10	43	24.69	29.92	+.06	68.4	−0.8	89	29	83	48	19	54	40	54	44	55	2.72	+1.4	11	6,216	sw.	38	w.	3	10	12	9	4.9	0.0	0.0
Salt Lake City	4,360	163	203	25.66	29.95	+.04	74.8	+0.3	92	21	85	60	15	65	28	60	52	51	1.87	+1.0	11	4,785	s.	32	n.	27	11	15	5	4.5	0.0	0.0
Grand Junction	4,602	60	68	25.44	29.96	+.06	75.9	+0.5	95	6	88	59	15	63	32	59	48	46	0.86	−0.3	12	3,888	se.	24	sw.	12	20	8	3	3.5	0.0	0.0
Northern Plateau							73.4	+3.5										43	1.07	+0.6										4.0		
Baker	3,471	48	53	26.48	30.00	+.05	68.0	+3.4	96	7	84	42	31	52	42	53	40	45	1.16	+0.7	5	3,473	se.	26	w.	15	13	10	8	4.5	0.0	0.0
Boise	2,739	78	86	27.14	29.93	.00	74.8	+3.0	98	6	88	48	31	61	38	58	47	43	0.78	+0.6	3	2,943	nw.	16	se.	3	12	13	6	4.6	0.0	0.0
Lewiston	757	40	48	29.14	29.93	−.02	77.4	+4.6	106	7	93	51	27	61	42	----	----	----	0.19	−0.4	4	2,086	e.	26	s.	15	19	9	3	3.2	0.0	0.0
Pocatello	4,477	60	68	25.52	29.94	+.02	71.2	+1.6	92	7	83	52	28	59	37	57	49	54	3.59	+2.9	11	4,502	se.	29	sw.	5	8	17	6	5.1	0.0	0.0
Spokane	1,929	101	110	27.94	29.94	−.01	72.8	+4.7	104	8	88	47	27	58	42	55	41	38	0.57	0.0	3	3,023	s.	32	nw.	15	18	12	1	2.8	0.0	0.0
Walla Walla	991	57	65	28.89	29.94	−.02	76.4	+3.7	101	7	90	53	21	63	37	58	44	36	0.14	−0.4	5	2,623	s.	16	se.	19	16	12	3	3.5	0.0	0.0
North Pacific Coast Region							65.9	+2.6										65	0.20	−0.5										3.8		
North Head	211	11	56	29.86	30.08	+.05	60.4	+2.8	68	25	64	53	11	57	11	58	57	88	0.19	−0.9	5	8,709	n.	35	s.	15	7	13	11	5.5	0.0	0.0
Port Angeles	29	8	53	----	30.08	----	59.6	----	80	14	68	45	26	51	29	----	----	----	0.49	−0.2	1	3,753	sw.	18	w.	9	14	11	6	----	0.0	0.0
Seattle	125	215	250	29.90	30.03	+.03	65.3	+2.2	86	11	75	50	26	56	28	58	52	66	0.08	−0.6	3	3,796	nw.	26	n.	8	17	8	6	3.7	0.0	0.0
Tacoma	194	172	201	29.85	30.05	+.03	65.2	+2.6	86	11	75	49	21	55	28	----	----	----	0.10	−0.6	3	3,962	n.	21	w.	24	16	11	4	3.6	0.0	0.0
Tatoosh Island	86	9	53	29.97	30.06	+.06	57.0	+1.7	67	23	61	49	12	53	12	56	55	93	0.90	−1.1	6	5,278	sw.	37	s.	15	9	12	10	6.1	0.0	0.0
Yakima	1,076	58	67	28.82	29.95	----	75.1	+5.6	102	11	90	54	21	61	36	57	43	37	T.	−0.2	0	3,937	nw.	23	se.	18	20	8	3	2.5	0.0	0.0
Medford	1,329	29	58	28.58	29.96	----	71.8	----	101	12	89	48	21	55	42	57	46	49	T.	−0.2	0	----	w.	28	nw.	11	23	8	0	2.0	0.0	0.0
Portland, Oreg	153	68	106	29.87	30.02	+.01	69.8	+3.1	96	11	81	51	21	59	34	60	54	61	0.06	−0.6	3	3,154	nw.	13	sw.	15	14	10	7	4.0	0.0	0.0
Roseburg	510	75	99	29.48	30.02	+.02	68.3	+0.3	97	11	82	47	21	54	38	58	50	59	T.	−0.3	0	2,725	n.	17	nw.	14	20	7	4	2.7	0.0	0.0
Middle Pacific Coast Region							67.7	+0.8										66	T.	0.0										2.8		
Eureka	62	73	89	30.02	30.09	+.09	59.8	+3.8	69	15	64	50	22	55	18	57	55	85	T.	−0.2	0	3,165	nw.	24	n.	31	7	12	12	5.9	0.0	0.0
Red Bluff	330	5	58	29.55	29.89	+.03	78.3	−1.4	104	13	94	56	3	62	38	60	45	37	0.00	0.0	0	3,266	s.	14	se.	14	27	3	1	1.3	0.0	0.0
Sacramento	69	106	117	29.84	29.91	+.06	72.8	−0.1	98	11	89	51	4	56	42	61	53	58	T.	0.0	0	5,648	s.	18	s.	2	30	1	0	0.6	0.0	0.0
San Francisco	155	208	243	29.81	29.98	+.06	61.5	+2.4	77	20	68	52	6	55	22	57	54	82	0.00	0.0	0	6,017	sw.	26	w.	2	13	14	4	3.9	0.0	0.0
San Jose	141	12	110	29.86	30.01	----	66.0	−0.7	87	21	78	48	20	54	38	----	----	----	0.01	0.0	1	3,998	nw.	17	nw.	5	26	4	1	2.1	0.0	0.0
South Pacific Coast Region							74.3	+0.8										62	T.	0.0										2.9		
Fresno	327	89	98	29.55	29.90	+.08	78.8	−1.9	102	1	95	57	17	63	38	60	46	37	T.	0.0	0	5,541	nw.	20	nw.	14	26	4	1	1.3	0.0	0.0
Los Angeles	338	159	191	29.58	29.94	+.06	73.8	+2.7	93	1	83	62	19	65	26	64	59	68	0.00	0.0	0	2,818	sw.	12	w.	26	20	10	1	2.7	0.0	0.0
San Diego	87	62	70	29.84	29.93	+.04	70.3	+1.6	85	1	75	61	20	65	18	65	62	80	T.	0.0	0	3,803	w.	17	nw.	26	13	12	6	4.6	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.91	30.00	----	81.1	+0.6	93	26	86	72	12	76	16	----	----	----	3.51	−2.5	15	7,983	e.	44	e.	12	12	18	1	4.4	0.0	0.0
Panama Canal																																
Balboa Heights	118	6	97	----	[1]29.83	.00	81.0	−0.2	93	6	88	71	3	74	18	----	----	[1]84	4.34	−3.7	13	4,887	nw.	28	ne.	3	0	15	16	7.5	0.0	0.0
Cristobal	36	7	97	----	[1]29.84	−.01	82.0	+1.8	89	8	87	74	3	78	13	76	75	[1]83	14.35	−1.0	21	7,142	n.	28	nw.	29	0	9	22	8.1	0.0	0.0
Alaska																																
Fairbanks	455	11	44	[2]29.40	[2]29.91	----	54.0	----	78	8	63	34	16	45	32	51	48	79	6.88	----	20	3,147	sw.	----	----	----	0	8	23	8.3	0.0	0.0
Juneau	80	11	50	[2]29.96	[2]30.05	----	55.6	----	75	6	62	44	30	50	24	54	52	88	9.46	----	22	3,237	s.	26	e.	12	5	6	20	7.8	0.0	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[2]29.93	[2]29.98	----	79.1	+0.7	85	19	83	71	31	75	11	72	69	73	0.93	−0.4	16	6,959	e.	25	e.	11	13	5	13	5.6	0.0	0.0

[1] Observations taken biho urly.

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

TABLE 2.—*Data furnished by the Canadian Meteorological Service, August, 1930*

Stations	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				57.0		64.6	49.5	75	38	4.46		0.0
Sydney, C. B. I	48												
Halifax, N. S	88	29.91	30.01	+0.05	64.8	+1.2	74.5	55.0	85	46	2.82	−1.53	0.0
Yarmouth, N. S	65												
Charlottetown, P. E. I	38	29.90	29.94	.00	66.0	+1.7	73.0	59.0	83	53	2.59	−1.15	0.0
Chatham, N. B	28	29.87	29.90	−.03	62.7	−0.5	73.5	51.9	83	42	6.42	+2.38	0.0
Father Point, Que	20												
Quebec, Que	296	29.66	29.98	+.05	63.6	+0.5	71.0	56.2	79	47	4.13	+0.30	0.0
Doucet, Que	1,236				57.5		69.8	45.2	80	36	2.96		0.0
Montreal, Que	187	29.76	29.96	+.01	66.8	+0.4	74.9	58.8	85	50	1.52	−2.05	0.0
Ottawa, Ont	236	29.71	29.97	+.01	67.0	+2.2	78.3	55.7	87	42	1.17	−1.86	0.0
Kingston, Ont	285	29.69	29.99	+.01	66.6	−0.4	73.9	59.3	82	46	1.55	−0.83	0.0
Toronto, Ont	379	29.60	29.99	.00	69.1	+3.1	79.6	58.6	95	46	0.89	−1.87	0.0
Cochrane, Ont	930				62.4		72.9	51.9	86	37	2.14		0.0
White River, Ont	1,244	28.70	29.99	+.03	59.4	+3.0	76.6	42.2	92	29	0.94	−2.36	0.0
London, Ont	808				68.9		83.0	54.9	96	40	1.40		0.0
Southampton, Ont	656	29.31	30.02	+.03	65.1	+1.3	75.2	54.9	84	42	1.34	−0.91	0.0
Parry Sound, Ont	688	29.32	30.00	+.02	66.7	+3.2	76.4	57.0	83	45	2.28	−0.44	0.0
Port Arthur, Ont	644	29.33	30.02	+.06	65.4	+5.9	77.1	53.8	89	45	2.08	−0.67	0.0
Winnipeg, Man	760												
Minnedosa, Man	1,690	28.22	30.00	+.06	65.8	+6.4	80.2	51.5	93	37	0.92	−1.18	0.0
Le Pas, Man	860				64.9		77.1	52.8	92	40	0.94		0.0
Qu'Appelle, Sask	2,115	27.78	30.00	+.07	65.7	+4.2	78.7	52.7	95	40	0.95	−0.69	0.0
Moose Jaw, Sask	1,759				68.8		83.6	53.9	97	40	1.08		0.0
Swift Current, Sask	2,392	27.43	29.89	−.04	68.1	+4.1	84.2	52.0	95	33	1.53	−0.38	0.0
Medicine Hat, Alb	2,144												
Calgary, Alb	3,428												
Banff, Alb	4,521												
Prince Albert, Sask	1,450	28.45	30.00	+.08	64.8	+5.9	77.4	52.2	96	36	0.91	−1.24	0.0
Battleford, Sask	1,592	28.25	29.96	+.05	65.2	+2.6	78.7	51.6	95	34	0.22	−2.14	0.0
Edmonton, Alb	2,150	27.68	29.92	.00	62.8	+4.0	75.7	50.0	88	33	1.44	−0.69	0.0
Kamloops, B. C	1,262												
Victoria, B. C	230	29.78	30.03	+.02	60.9	+2.2	68.4	53.5	78	51	0.14	−0.46	0.0
Barkerville, B. C	4,180												
Estevan Point, B. C	20												
Prince Rupert, B. C	170												
Hamilton, Ber	151	29.97	30.13	+.03	80.7	+1.1	86.5	74.9	90	72	3.84	−2.24	0.0

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Cape Race, N. F	99				59.4		67.3	51.6	76	46	3.90		0.0
Sydney, C. B. I	48	29.82	29.87	−0.06	67.3	+5.0	76.7	57.8	85	50	3.42	−0.23	0.0
Halifax, N. S	88	29.77	29.87	−.09	65.1	+1.7	74.9	55.3	84	49	5.56	+1.51	0.0
Yarmouth, N. S	65	29.76	29.83	−.12	61.9	+2.4	69.2	54.6	76	48	6.55	+3.08	0.0
Charlottetown, P. E. I	38	29.74	29.78	−.12	68.1	+4.0	75.2	61.0	82	54	2.42	−1.07	0.0
Chatham, N. B	28	29.71	29.74	−.14	65.6	+0.6	75.9	55.4	82	45	5.78	+1.59	0.0
Quebec, Que	296	29.53	29.84	−.07	66.0	+0.5	74.8	57.2	83	47	4.71	+0.45	0.0
Doucet, Que	1,236				57.4		69.8	44.9	85	30	4.76		0.0
Montreal, Que	187	29.64	29.84	−.09	69.4	+0.9	77.3	61.6	90	54	5.56	+1.27	0.0
Ottawa, Ont	236	29.62	29.88	−.06	68.0	−1.5	78.1	57.9	92	44	4.90	+1.43	0.0
Kingston, Ont	285	29.59	29.89	−.08	67.2	−1.0	74.2	60.2	82	50	5.02	+2.13	0.0
Toronto, Ont	379	29.52	29.91	−.06	70.1	+2.1	80.9	59.2	92	50	3.10	+0.18	0.0
Cochrane, Ont	930				61.0		72.0	50.0	88	36	1.74		0.0
White River, Ont	1,244	28.60	29.89	−.05	58.6	−0.9	73.1	44.1	94	29	1.70	−1.10	0.0
London, Ont	808				70.2		83.5	56.8	96	40	0.72		0.0
Southampton, Ont	656	29.24	29.95	−.02	64.1	−0.6	73.2	55.0	86	43	2.79	+0.81	0.0
Parry Sound, Ont	688	29.25	29.93	−.03	66.0	0.0	75.5	56.5	88	46	2.15	−0.47	0.0
Port Arthur, Ont	644	29.25	29.96	+.02	64.3	+2.3	74.5	54.1	87	46	3.60	+0.12	0.0
Winnipeg, Man	760	29.12	29.93	.00	70.8	+4.8	81.9	59.7	94	51	5.22	+2.14	0.0
Minnedosa, Man	1,690	28.14	29.91	−.02	66.6	+4.4	78.9	54.3	89	42	2.34	−0.26	0.0
Le Pas, Man	860				65.5		77.2	53.9	88	39	3.77		0.0
Qu'Appelle, Sask	2,115	27.71	29.92	.00	65.6	+2.1	78.2	53.0	98	42	0.89	−1.59	0.0
Moose Jaw, Sask	1,759				69.7		85.0	54.4	100	43	1.20		0.0
Swift Current, Sask	2,392	27.42	29.88	−.03	68.3	+1.8	83.3	53.4	97	43	0.57	−1.87	0.0
Prince Albert, Sask	1,450	28.40	29.95	+.04	65.8	+3.9	77.6	54.0	89	47	1.78	−0.27	0.0
Battleford, Sask	1,592	28.21	29.92	+.02	66.2	+1.5	79.3	53.1	92	45	2.78	+0.44	0.0
Edmonton, Alb	2,150	27.64	29.87	−.03	63.5	+2.9	76.7	50.3	93	41	1.88	−1.15	0.0
Kamloops, B. C	1,262	28.70	29.96	+.02	70.6	+2.1	83.2	58.0	99	45	0.51	−1.10	0.0
Victoria, B. C	230	29.83	30.08	+.03	59.1	−0.9	67.0	51.3	87	48	0.03	−0.37	0.0
Estevan Point, B. C	20				54.9		61.2	48.6	70	40	0.40		0.0
Prince Rupert, B. C	170				56.1		63.0	49.3	74	44	5.46		0.0
Hamilton, Ber	151	30.04	30.20	+.06	78.6	−0.1	84.1	73.1	87	68	2.34	−2.10	0.0

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