TABLE 2.—*Mean sea-surface temperatures in the Caribbean Sea and the Straits of Florida for February, 1919–1930*

Year	Caribbean Sea		Straits of Florida	
	Number of observations	Mean temperature	Number of observations	Mean temperature
1919[1]	31	79.4	14	[1] 74.8
1920	114	78.6	22	74.2
1921	167	78.0	42	74.6
1922	187	78.4	82	74.6
1923	281	77.3	68	75.4
1924	369	78.5	102	73.6
1925	213	78.1	72	75.0
1926	350	79.2	115	73.2
1927	285	79.0	106	76.1
1928	407	79.0	125	74.0
1929	387	78.8	130	75.1
1930	481	78.4	145	74.6
Mean (1920–1930)		78.5		74.6

[1] Not used in computations because of insufficient data.

TABLE 3.—*Mean sea-surface temperatures (° F.), and number of observations, February, 1930*

Quarter	Period	Caribbean Sea				Straits of Florida			
		Number of observations	Mean	Departure from 11-year mean (1920-1930)	Change from preceding month	Number of observations	Mean	Departure from 11-year mean (1920-1930)	Change from preceding month
			° F.	° F.	° F.		° F.	° F.	° F.
I	1 to 7	112	78.8			37	74.8		
II	8 to 14	93	78.1			32	74.0		
III	15 to 21	126	78.4			37	75.3		
IV	22 to 28	150	78.5			39	74.5		
Month		481	78.4	—0.1	—0.3	145	74.6	0.0	—1.0

CLIMATOLOGICAL TABLES

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, February, 1931

(For description of tables and charts, see REVIEW, January, p. 50)

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	49.8	+1.2	2 stations	77	[1] 7	2 stations	18	[1] 10	3.41	−1.90	River Falls	5.42	Birmingham	1.68
Arizona	48.6	+0.8	Gila Bend	86	[1] 1	Alpine	−1	17	3.75	+2.58	Natural Bridge	8.19	Springerville	0.52
Arkansas	48.2	+4.9	Hope	75	[1] 3	Dutton	14	10	4.77	+1.47	Dutton	8.04	Junction	2.50
California	48.9	+1.7	Blythe	84	3	Twin Lakes	−10	16	2.56	−1.88	Mount Wilson	8.82	Bishop Creek	0.21
Colorado	32.5	+4.8	2 stations	70	[1] 3	2 stations	−16	17	1.26	+0.26	La Veta Pass	6.15	Gunnison	0.00
Florida	58.9	−1.4	Belle Glade	84	18	do	24	11	2.11	−1.00	Apalachicola	5.75	Pslatka	0.40
Georgia	49.8	+1.3	Waycross	79	18	Clayton	13	11	2.83	−2.15	Cornelia	4.47	Meldrim	1.43
Idaho	28.3	+0.2	Glenns Ferry	74	15	Felt	−18	[1] 8	1.09	−0.69	Roland	4.30	Grand View	T.
Illinois	37.9	+8.5	Carbondale	72	7	Marengo	1	10	1.29	−0.64	Cairo	3.38	Geneseo	0.12
Indiana	37.6	+7.4	Rome	68	7	Plymouth	10	10	1.65	−0.87	Rome	3.31	Whiting	0.24
Iowa	35.4	+12.8	3 stations	65	[1] 2	2 stations	−4	10	0.25	−0.96	Keokuk (No. 2)	1.13	14 stations	T.
Kansas	41.7	+7.9	Atwood	76	19	Centralia	6	10	0.98	−0.03	Overbrook (near)	2.88	Coldwater	0.13
Kentucky	41.6	+5.0	2 stations	72	7	Beattyville	12	15	3.20	−0.25	Franklin	5.49	Whitesburg	1.51
Louisiana	55.8	+2.3	Morgan City	80	7	2 stations	20	11	3.73	−0.84	Logansport	6.36	Tallulah	2.12
Maryland-Delaware	36.6	+2.6	Princess Anne, Md	65	9	Oakland, Md	7	13	1.66	−1.42	Sines, Md	3.31	Great Falls, Md	1.21
Michigan	28.9	+8.9	Morenci	61	28	3 stations	−21	10	0.79	−0.90	Houghton	2.23	Secord	0.12
Minnesota	27.4	+15.4	2 stations	63	24	2 stations	−26	[1] 12	0.40	−0.32	Little Falls	1.85	Redby	T.
Mississippi	51.8	+2.6	Port Gibson	78	8	do	19	11	3.65	−1.21	Clarksdale	7.07	Brookhaven	2.22
Missouri	40.9	+8.5	Doniphan	75	3	do	5	10	2.40	+0.29	Campbell	5.07	Lucerne	0.50
Montana	31.7	+10.5	Ballantine	64	2	Hebgen Dam	−20	8	0.36	−0.36	Heron	3.25	3 stations	0.00
Nebraska	36.7	+11.1	McCook	74	19	2 stations	3	[1] 9	0.64	−0.08	Orleans	2.10	2 stations	T.
Nevada	37.9	+2.8	Logandale	76	28	Owyhee	−4	22	0.73	−0.25	Las Vegas	2.71	Beowawe	0.07
New England	24.0	+1.4	Bridgeport, Conn	56	28	Van Buren, Me	−32	2	2.14	−1.05	Rockport, Mass	4.96	Bethlehem, N. H	0.42
New Jersey	33.3	+3.9	Flemington	62	28	Sussex	−9	11	2.18	−1.45	Chatham	3.42	Cape May City	0.81
New Mexico	38.5	+1.1	Artesia	74	5	Elizabethtown	−13	23	1.49	+0.83	Cloverdale	5.80	Gallegos (near)	0.07
New York	25.1	+3.0	Flushing	58	28	Indian Lake	−28	3	1.80	−0.99	High Market	3.37	Lockport	0.67
North Carolina	44.1	+1.5	Nashville	78	[1] 8	Mount Mitchell	4	15	1.83	−2.29	Rock House	5.00	2 stations	0.70
North Dakota	28.0	+17.8	Berthold Agency	62	19	Towner	−31	9	0.28	−0.21	Fullerton	1.62	5 stations	0.00
Ohio	35.2	+5.7	5 stations	65	28	Canfield	4	11	1.85	−0.50	Gallipolis	3.24	Wauseon	1.17
Oklahoma	47.8	+6.5	Eufaula	79	2	Bartlesville	16	10	2.44	+1.27	Tuskahoma	7.51	Boise City	0.50
Oregon	36.5	+0.7	Marshfield	72	12	Seneca	−5	7	1.71	−1.36	Valsetz	9.75	Umatilla	0.02
Pennsylvania	31.9	+3.8	3 stations	66	28	Hawley	−16	11	1.98	−0.99	Elk Lick	3.61	Erie	0.87
South Carolina	47.7	+0.2	2 stations	77	18	Caesars Head	15	11	1.77	−2.51	Walhalla	4.63	Society Hill	0.53
South Dakota	33.7	+14.1	Gannvalley	69	15	McLaughlin	−14	13	0.32	−0.31	2 stations	0.90	2 stations	T.
Tennessee	44.3	+3.3	Clarksville	73	7	Rugby	10	15	4.08	−0.26	Perryville	8.11	Elizabethton	1.20
Texas	53.4	+2.4	Riogrande	86	22	3 stations	21	[1] 9	2.96	+1.17	Bon Wier	8.15	Clint	0.27
Utah	33.1	+2.9	St. George	69	[1] 25	Lewiston	−2	1	0.71	−0.57	Silver Lake	1.98	Wendover	0.00
Virginia	40.2	+2.9	Diamond Springs	74	9	Burkes Garden	8	11	1.89	−1.20	Emporia	3.59	Rocky Mount	0.81
Washington	36.9	+1.9	2 stations	68	18	Stockdill Ranch	0	7	3.23	−0.87	Big Four	15.75	Wapato	0.03
West Virginia	35.8	+3.6	do	68	[1] 7	Bayard	5	3	2.57	−0.56	Pickens	4.68	Wardensville	1.08
Wisconsin	28.9	+12.2	Downing	62	21	2 stations	−25	10	0.61	−0.57	Wausau	1.30	Cuba	0.16
Wyoming	28.1	+5.6	Torrington	67	19	Riverside	−24	22	0.48	−0.31	Bechler River	2.18	Deaver	0.02
Alaska (January)	12.7	+10.4	Mile Seven (Cordova).	59	[1] 21	Eagle	−57	22	2.55	+0.50	Mile Seven (Cordova).	20.36	McKinley Park	0.00
Hawaii	69.4	+0.7	Mahukoma	89	99	Volcano Observatory.	47	[1] 2	4.14	−2.25	Wahiawa Water Co. Intake	17.60	6 stations	0.00
Porto Rico	73.7	+0.3	Mayaguez	93	3	Guineo Reservoir	49	20	5.98	+3.06	Toro Negro	16.82	Penuelas	0.00

[1] Other dates also.

TABLE 1.—*Climatological data for Weather Bureau stations, February, 1931*

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 .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, tenth	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							**27.1**	**+1.7**										**74**	**2.23**	**−1.0**										**5.7**		
Eastport	76	67	85	29.85	29.94	−0.04	24.2	+2.7	42	14	30	−1	1	18	31	23	18	76	2.25	−1.1	11	7,939	nw.	31	ne.	19	6	4	18	7.4	11.7	0.3
Greenville, Me.	1,070	6	----	28.72	29.98	------	18.0	------	42	26	27	−16	3	9	44	----	----	----	1.84	------	12	5,242	n.	22	------	15	10	5	13	----	19.0	----
Portland, Me.	103	82	117	29.87	30.00	−.02	26.1	+2.3	47	28	33	3	3	19	28	23	16	67	3.15	−0.8	10	5,509	n.	26	s.	13	11	5	12	5.5	20.9	4.1
Concord	289	70	79	29.66	29.99	−.05	25.1	+2.3	47	26	34	−16	3	16	51	----	----	----	1.29	−1.6	8	3,852	nw.	22	nw.	27	12	6	10	5.0	12.2	3.0
Burlington	403	11	48	29.57	30.04	+.01	18.6	−0.8	41	13	28	−15	3	9	39	----	----	----	1.94	+0.4	14	5,472	s.	33	s.	8	6	7	15	7.0	21.4	19.0
Northfield	876	12	60	29.04	30.04	.00	17.7	+1.3	43	26	30	−22	3	5	55	15	13	85	0.64	−1.6	9	3,810	n.	25	s.	13	6	11	11	6.2	5.5	15.2
Boston	125	106	165	29.84	29.98	−.06	30.6	+1.8	49	13	38	4	1	23	31	27	21	68	4.21	+0.8	9	5,716	nw.	24	nw.	27	10	6	12	5.6	14.0	0.0
Nantucket	12	14	90	29.93	29.94	−.10	33.2	+2.5	49	17	39	10	1	28	27	31	28	82	3.30	−0.1	10	9,267	nw.	37	ne.	20	13	5	10	5.5	5.7	0.0
Block Island	26	11	46	29.94	29.97	−.09	31.7	+1.3	46	14	37	12	1	26	27	29	26	77	2.10	−1.6	10	11,674	w.	48	w.	14	11	6	11	5.4	2.1	0.0
Providence	160	215	251	29.80	29.98	−.07	30.4	+1.4	49	17	38	4	1	23	31	27	21	71	1.98	−1.7	8	7,942	nw.	38	nw.	27	11	4	13	5.3	4.6	T.
Hartford	159	122	----	29.83	30.02	−.04	29.0	+1.8	49	13	37	2	3	21	30	----	----	----	1.65	−2.2	11	------	nw.	----	------	----	12	5	11	5.0	6.1	0.0
New Haven	106	74	153	29.89	30.02	−.05	31.0	+2.0	50	28	38	9	1	24	26	27	22	70	2.04	−2.0	9	6,325	nw.	26	ne.	18	14	6	8	4.5	6.0	0.0
Middle Atlantic States							**36.3**	**+2.9**										**70**	**1.76**	**−1.4**										**5.3**		
Albany	97	107	115	29.94	30.05	−.02	25.8	+1.7	46	28	34	−9	3	17	36	23	17	71	2.07	−0.4	9	4,382	s.	21	sw.	27	11	7	10	5.2	6.1	2.0
Binghamton	871	10	84	29.09	30.05	−.03	25.6	+1.6	48	17	35	−12	3	17	48	----	----	----	1.97	−0.3	11	3,663	nw.	20	sw.	13	7	5	16	7.2	9.2	0.1
New York	314	414	454	29.67	30.03	−.05	34.1	+2.8	55	28	42	12	11	26	32	29	22	64	2.44	−1.4	10	10,844	nw.	45	nw.	14	9	9	10	5.5	3.8	0.0
Bellefonte	1,050	5	36	28.90	30.05	------	30.0	------	54	28	39	−14	11	21	46	26	24	82	1.59	------	9	------	sw.	----	------	----	9	6	13	6.2	8.8	0.0
Harrisburg	374	94	104	29.66	30.08	−.01	35.0	+4.8	55	28	42	15	11	28	29	30	23	63	1.44	−1.5	10	4,140	nw.	25	nw.	14	14	2	12	5.2	2.8	0.0
Philadelphia	114	123	367	29.93	30.06	−.04	37.4	+3.5	55	28	44	18	11	30	25	31	23	60	1.92	−1.4	8	8,843	nw.	34	nw.	14	10	7	11	5.3	1.1	0.0
Reading	325	81	98	29.70	30.06	------	35.4	+6.6	55	28	43	15	11	28	28	30	25	69	1.90	−1.5	9	4,098	n.	23	nw.	14	13	4	11	5.0	1.6	0.0
Scranton	805	111	119	29.16	30.06	−.02	29.4	+2.1	52	28	38	2	3	21	37	26	21	75	1.45	−1.6	10	4,066	n.	22	nw.	14	7	9	12	6.3	11.8	T.
Atlantic City	52	37	172	29.98	30.04	−.07	36.5	+2.9	55	26	44	16	11	29	27	32	27	72	1.12	−2.2	7	9,945	nw.	40	se.	17	12	7	9	4.8	T.	0.0
Cape May	17	13	49	------	------	------	36.4	+2.3	52	26	44	19	3	29	22	33	30	82	0.81	−2.5	7	------	nw.	----	------	----	11	5	12	----	T.	0.0
Sandy Hook	22	10	55	29.99	30.01	------	34.2	------	52	28	40	16	11	28	29	30	26	76	1.85	−1.9	9	10,068	nw.	40	nw.	14	13	7	8	4.5	3.7	0.0
Trenton	190	159	183	29.83	30.04	------	34.4	+3.7	55	28	43	13	11	26	28	30	23	67	2.08	−1.2	7	6,741	n.	32	nw.	14	12	5	11	5.2	1.1	0.0
Baltimore	123	100	215	29.92	30.05	−.06	39.6	+4.2	58	13	47	21	3	32	30	33	26	63	1.41	−2.0	9	6,088	nw.	30	nw.	14	11	5	12	5.2	0.7	0.0
Washington	112	62	85	29.94	30.07	−.04	39.4	+4.1	60	28	47	21	11	31	31	33	25	61	1.36	−1.9	8	4,016	nw.	25	nw.	14	12	4	12	5.3	T.	0.0
Cape Henry	18	8	54	30.03	30.05	------	41.4	+0.2	72	9	49	27	15	34	36	37	32	75	2.52	−0.9	8	7,302	n.	40	n.	14	11	7	10	5.0	T.	0.0
Lynchburg	681	153	188	29.31	30.07	−.04	42.0	+1.7	62	26	53	22	15	31	34	36	30	67	1.81	−1.3	9	3,909	w.	27	n.	14	10	9	9	4.7	0.0	0.0
Norfolk	91	170	205	29.97	30.07	−.04	43.8	+1.1	69	9	52	24	15	36	34	37	30	67	1.70	−1.5	8	7,188	n.	36	sw.	9	10	7	11	5.1	T.	0.0
Richmond	144	11	52	29.92	30.08	−.03	41.5	+1.9	63	4	52	20	15	31	36	35	30	73	2.60	−0.6	8	4,203	ne.	29	w.	13	12	7	9	4.8	T.	0.0
Wytheville	2,304	49	55	27.63	30.07	−.05	38.8	+3.7	58	24	49	15	15	29	30	32	27	70	1.48	−1.5	9	3,569	w.	19	w.	12	9	8	11	5.4	1.9	0.0
South Atlantic States							**49.0**	**+1.1**										**70**	**1.90**	**−1.8**										**4.9**		
Asheville	2,253	89	104	27.68	30.10	−.03	41.7	+3.2	63	22	53	17	15	30	38	34	29	70	1.24	−1.9	9	4,733	nw.	28	nw.	9	10	9	9	5.2	T.	0.0
Charlotte	779	55	62	29.22	30.07	−.05	46.2	+2.3	67	18	56	24	15	36	32	39	31	62	1.93	−2.2	8	3,248	ne.	16	nw.	14	12	4	12	5.1	T.	0.0
Greensboro	886	5	56	29.10	30.08	------	41.5	------	63	18	54	20	15	29	40	35	30	75	1.77	------	7	4,355	sw.	27	sw.	13	9	11	8	5.1	0.0	0.0
Hatteras	11	5	50	30.04	30.05	−.06	46.9	−0.5	71	9	54	31	15	40	30	43	39	77	2.34	−1.7	8	8,606	ne.	37	n.	14	11	11	6	4.2	T.	0.0
Raleigh	376	103	146	29.66	30.07	−.04	46.0	+2.8	70	18	57	23	15	35	31	38	31	63	1.80	−2.1	7	5,016	sw.	28	sw.	9	10	11	7	4.9	0.0	0.0
Wilmington	78	81	91	30.00	30.09	−.03	49.4	+1.5	73	18	60	26	15	39	32	42	38	73	1.72	−1.5	7	3,921	n.	24	n.	10	9	13	6	4.5	0.0	0.0
Charleston	48	11	92	30.02	30.07	−.05	51.8	−0.6	74	18	60	32	15	43	25	46	41	74	1.67	−1.3	6	5,812	sw.	31	n.	14	10	6	12	5.4	0.0	0.0
Columbia, S. C.	351	41	57	29.69	30.08	−.03	49.4	+1.2	70	8	60	28	11	38	34	42	36	65	1.25	−2.5	9	3,877	ne.	27	sw.	9	14	4	10	4.6	0.0	0.0
Due West	711	10	55	29.31	30.10	------	46.4	------	66	6	57	24	15	35	37	----	----	----	1.98	------	8	4,837	sw.	25	w.	9	9	6	9	4.6	0.0	0.0
Greenville, S. C.	1,039	139	146	28.94	30.05	------	46.8	+3.5	66	18	56	26	11	38	29	40	33	64	3.80	−1.4	8	4,977	ne.	29	n.	14	13	5	10	4.7	T.	0.0
Augusta	182	62	77	29.86	30.06	−.06	49.8	−0.1	71	17	62	30	15	38	37	44	42	81	1.87	−2.2	9	2,628	nw.	17	w.	9	12	7	9	4.5	0.0	0.0
Savannah	65	150	194	29.98	30.06	−.06	54.7	+0.7	75	18	64	33	11	45	28	46	41	70	1.82	−1.3	6	6,600	s.	35	nw.	20	11	7	10	5.1	0.0	0.0
Jacksonville	43	209	245	30.01	30.06	−.06	56.4	−1.6	74	17	64	34	11	49	22	49	44	69	1.49	−1.5	7	6,290	n.	33	nw.	20	10	6	12	5.4	0.0	0.0
Florida Peninsula							**64.7**	**−1.8**										**77**	**2.55**	**+0.7**										**5.6**		
Key West	22	10	64	30.00	30.02	−.05	67.5	−3.0	81	28	73	55	11	62	15	62	59	80	3.89	+2.6	6	6,817	n.	28	nw.	4	9	14	5	4.8	0.0	0.0
Miami	25	124	168	30.01	30.04	−.07	65.5	−1.6	78	14	72	47	5	59	25	59	55	74	2.12	+0.3	9	6,749	se.	34	s.	17	3	10	15	7.0	0.0	0.0
Tampa	35	79	197	30.01	30.05	−.05	61.0	−0.9	77	13	70	39	11	52	25	54	50	76	1.65	−0.9	7	6,807	nw.	46	s.	17	11	5	12	5.4	0.0	0.0
Titusville	44	5	----	30.02	30.07	------	59.5	------	78	17	69	39	11	50	33	----	----	----	0.87	------	6	------	nw.	----	------	----	10	13	5	5.2	0.0	0.0
East Gulf States							**52.4**	**+1.1**										**71**	**2.92**	**−1.9**										**4.6**		
Atlanta	1,173	190	216	28.80	30.06	−.06	47.6	+2.3	67	6	56	25	11	39	30	41	33	64	2.40	−2.4	10	5,458	nw.	33	nw.	9	13	4	11	4.9	0.0	0.0
Macon	370	78	87	29.67	30.07	−.05	49.8	+0.5	72	17	62	25	11	38	39	42	36	67	2.23	−2.2	9	3,333	nw.	20	nw.	9	13	6	9	4.5	0.0	0.0
Thomasville	273	49	103	29.76	30.07	−.05	54.6	−0.4	75	17	65	30	11	44	30	46	41	72	2.68	−1.8	7	4,529	nw.	24	nw.	14	9	9	10	5.4	0.0	0.0
Apalachicola	36	11	51	30.02	30.06	------	55.3	------	72	17	62	34	11	48	23	51	48	82	5.75	+1.8	7	5,280	n.	29	se.	16	12	5	11	4.7	0.0	0.0
Pensacola	56	149	185	30.01	30.07	−.04	54.9	−0.3	68	4	61	34	15	48	22	50	47	79	2.75	−1.6	8	7,631	n.	29	se.	16	12	7	9	4.4	0.0	0.0
Anniston	741	9	57	29.29	30.10	−.02	47.6	+1.8	69	6	59	20	11	36	36	----	----	----	2.81	−2.6	8	2,916	nw.	17	nw.	9	13	4	11	4.7	0.0	0.0
Birmingham	700	11	48	29.30	30.08	−.04	49.7	+1.7	69	6	60	24	11	40	32	42	36	68	1.68	−3.4	11	4,177	n.	24	se.	16	13	4	11	4.7	0.0	0.0
Mobile	57	125	161	30.00	30.06	−.05	55.4	+0.7	74	28	64	33	11	46	27	49	45	76	2.71	−2.6	9	5,711	n.	28	n.	14	13	9	6	4.2	0.0	0.0
Montgomery	223	100	112	29.83	30.08	−.04	52.6	+1.0	74	7	62	28	11	43	31	45	38	64	3.35	−2.1	8	3,608	n.	24	n.	14	14	5	9	4.4	0.0	0.0
Corinth	469	6	----	------	------	------	48.0	------	75	6	59	22	11	37	39	----	----	----	3.28	------	8	------	nw.	----	------	----	8	10	10	----	0.0	0.0
Meridian	375	87	95	29.67	30.07	−.04	51.0	+1.4	73	7	62	24	11	40	36	44	39	72	2.47	−3.0	8	3,341	n.	23	sw.	13	14	3	11	4.5	0.0	0.0
Vicksburg	247	65	73	29.80	30.09	−.01	53.8	+2.0	73	7	63	31	11	44	27	46	39	65	2.48	−2.3	9	4,255	n.	21	se.	22	14	6	8	4.4	0.0	0.0
New Orleans	53	76	84	30.00	30.06	−.03	59.0	+1.7	78	17	67	37	11	51	24	53	48	74	3.79	−0.5	7	4,111	ne.	18	n.	14	13	7	8	4.2	0.0	0.0
West Gulf States							**55.2**	**+3.7**										**77**	**3.80**	**+1.3**										**5.6**		
Shreveport	249	77	93	29.79	30.06	−.03	53.8	+2.9	72	4	62	34	15	45	26	49	46	79	3.32	0.0	12	3,516	se.	16	nw.	13	12	6	10	5.1	0.0	0.0
Bentonville	1,303	11	44	28.67	30.06	−.04	45.4	+6.9	66	2	55	20	10	36	31	----	----	----	3.52	------	12	3,275	s.	19	s.	6	16	2	10	----	0.0	0.0
Fort Smith	457	79	94	29.56	30.05	−.05	49.1	+6.3	70	5	57	28	10	41	31	44	39	75	5.97	+3.4	9	4,401	e.	20	e.	21	11	4	13	5.6	0.0	0.0
Little Rock	357	136	153	29.69	30.08	−.03	49.6	+4.7	69	3	58	29	15	41	27	43	37	66	4.03	+0.2	9	4,969	n.	31	n.	8	14	1	13	5.1	0.0	0.0
Austin	605	136	148	29.39	30.03	------	56.8	+3.4	76	19	66	36	10	48	35	51	48	77	5.63	+3.3	12	4,985	se.	28	n.	13	8	10	10	5.6	0.0	0.0
Brownsville	57	83	100	29.96	30.02	------	63.7	+1.1	79	8	70	50	4	57	25	59	57	85	0.81	−0.4	7	5,819	se.	26	se.	21	3	12	13	7.2	0.0	0.0
Corpus Christi	20	11	78	30.01	30.03	−.02	61.6	+3.2	80	28	68	48	14	55	30	57	55	81	1.74	+0.3	5	6,309	se.	34	nw.	15	6	8	14	6.4	0.0	0.0
Dallas	512	220	227	29.49	30.05	------	52.1	------	70	20	60	33	14	44	29	----	----	----	2.36	+0.1	12	7,015	se.	43	sw.	22	14	5	9	4.2	0.0	0.0
Fort Worth	670	106	114	29.31	30.03	−.04	53.6	+5.3	72	20	62	34	14	46	30	48	44	74	2.84	+1.1	13	4,546	se.	30	se.	21	8	7	13	6.0	0.0	0.0
Galveston	54	106	114	30.02	30.08	+.01	58.8	+2.5	73	17	64	45	15	54	17	55	52	84	4.23	+1.4	7	6,439	se.	27	n.	9	11	4	13	5.6	0.0	0.0
Groesbeck	461	11	56	29.55	30.04	------	53.9	------	72	20	62	36	10	46	28	----	----	----	5.06	+2.2	10	6,276	n.	27	se.	15	8	8	12	6.0	0.0	0.0
Houston	138	292	314	29.91	30.06	------	58.4	+2.5	74	20	66	40	10	51	28	----	----	----	4.76	+1.6	10	7,557	se.	44	e.	16	10	5	13	5.9	0.0	0.0
Palestine	510	64	72	29.52	30.06	−.02	54.4	+3.2	72	20	63	38	10	46	27	49	45	76	4.69	+1.6	10	4,644	s.	21	nw.	22	10	5	13	5.5	0.0	0.0
Port Arthur	34	58	66	30.02	30.06	------	58.4	------	76	17	65	39	10	51	22	----	----	----	4.96	+1.4	7	4,685	n.	28	e.	16	10	4	14	5.9	0.0	0.0
San Antonio	693	242	301	29.29	30.02	−.03	57.4	+2.0	75	17	66	40	10	49	28	52	47	73	2.68	+1.0	9	7,240	n.	36	ne.	15	10	10	8	5.3	0.0	0.0
Taylor	571	38	51	29.46	30.06	.00	55.6	+4.3	74	19	65	35	10	47	34	----	----	----	3.87	+1.8	10	4,887	s.	24	se.	15	9	10	9	5.2	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, February, 1931*—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 .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							40.3	+4.3										73	2.78	−0.6										6.1		
Chattanooga	762	190	215	29.25	30.07	−0.06	47.0	+2.9	66	8	56	25	15	38	30	40	33	63	4.78	−0.1	9	4,017	ne.	24	w.	9	12	4	12	5.1	0.0	0.0
Knoxville	995	102	111	29.00	30.08	−.04	44.7	+2.8	66	8	54	21	15	35	31	39	33	70	2.93	−1.6	12	3,200	n.	20	sw.	7	9	4	15	5.7	T.	0.0
Memphis	399	76	97	29.64	30.07	−.04	48.3	+4.0	68	6	56	28	15	40	27	42	37	69	4.85	+0.5	8	5,141	n.	28	n.	8	14	3	11	4.8	0.0	0.0
Nashville	546	168	191	29.51	30.11	−.01	44.3	+2.7	67	6	53	22	15	36	32	39	34	72	5.05	+0.9	10	4,977	nw.	26	nw.	13	11	2	15	5.8	T.	0.0
Lexington	989	193	230	29.03	30.13	+.02	39.3	+3.9	62	7	47	18	15	32	26	----	----	----	3.40	−0.2	9	6,946	n.	30	w.	13	8	4	16	6.2	1.5	0.0
Louisville	525	188	234	29.52	30.11	.00	41.4	+4.2	63	7	49	20	14	34	27	37	32	73	2.88	−0.7	7	5,535	n.	24	n.	13	7	7	14	6.4	1.0	0.0
Evansville	431	76	116	29.63	30.11	.00	41.9	+5.6	66	7	50	19	14	34	28	37	31	71	2.33	−0.9	10	4,879	n.	23	sw.	12	10	5	13	5.6	T.	0.0
Indianapolis	822	194	230	29.18	30.09	−.01	38.0	+6.9	60	3	45	14	14	31	27	34	29	73	1.76	−1.0	9	5,869	sw.	26	sw.	3	10	5	13	5.8	T.	0.0
Royal Center	736	11	55	29.28	30.11	----	35.2	----	57	3	43	14	14	28	30	----	----	----	1.11	−1.2	10	5,573	nw.	26	nw.	13	6	10	12	6.0	0.5	0.0
Terre Haute	575	96	129	29.47	30.10	----	38.9	----	63	3	46	14	14	31	29	35	31	78	2.06	−0.6	11	4,721	nw.	23	n.	3	9	5	14	5.7	0.1	0.0
Cincinnati	627	11	51	29.41	30.11	+.01	38.8	+6.0	63	7	46	19	14	31	30	34	31	77	1.88	−1.1	10	3,824	sw.	19	sw.	7	10	4	14	6.4	1.3	0.0
Columbus	822	216	230	29.19	30.09	.00	36.8	+6.1	60	28	44	16	14	30	27	33	28	73	1.54	−1.1	13	5,686	nw.	28	nw.	13	6	8	14	6.2	1.9	0.0
Dayton	899	137	173	29.12	30.10	----	37.6	+6.2	60	28	44	18	14	31	26	34	30	76	1.77	−0.9	14	4,475	sw.	25	w.	7	6	9	13	6.2	0.4	0.0
Elkins	1,947	59	67	28.00	30.13	+.03	34.2	+2.6	61	28	43	15	11	25	40	30	27	81	3.19	+0.1	13	2,696	nw.	22	nw.	13	6	5	17	7.2	3.7	0.0
Parkersburg	637	77	82	29.44	30.12	+.02	37.8	+3.6	64	28	46	14	11	29	35	33	28	75	2.97	−0.2	11	2,951	nw.	17	nw.	14	8	3	17	6.9	3.0	0.0
Pittsburgh	842	353	410	29.15	30.09	.00	34.6	+2.3	62	28	42	15	14	28	32	31	27	77	1.93	−0.7	11	5,304	sw.	27	nw.	14	6	7	15	6.9	4.1	0.0
Lower Lake Region							29.3	+4.4										79	1.37	−1.0										7.0		
Buffalo	767	247	280	29.19	30.05	−.01	27.1	+2.8	50	28	34	6	1	20	29	25	23	85	1.50	−1.4	12	9,469	sw.	50	w.	15	3	9	16	7.4	10.2	0.3
Canton	448	10	61	29.53	30.04	----	17.9	−0.1	39	13	29	−19	7	7	49	----	----	----	1.15	−1.1	17	5,773	sw.	25	sw.	13	9	7	12	6.2	10.5	13.0
Ithaca	836	74	100	29.11	30.05	----	27.2	+2.7	47	17	35	−1	3	19	34	24	20	80	1.34	−0.6	16	5,859	nw.	27	nw.	14	4	6	18	7.7	14.2	0.4
Oswego	335	71	85	29.67	30.05	−.01	25.8	+1.9	42	17	34	−7	3	18	45	24	21	81	1.67	−1.0	16	6,245	s.	26	n.	2	3	2	23	8.3	13.9	7.7
Rochester	523	86	102	29.47	30.07	+.01	28.2	+3.6	44	28	36	4	3	21	38	26	22	77	1.40	−1.3	15	5,356	sw.	28	w.	14	3	10	15	7.4	6.8	0.8
Syracuse	596	65	79	29.38	30.05	−.02	27.2	+3.4	45	13	35	−5	3	20	44	----	----	----	1.27	−1.4	18	4,470	w.	22	sw.	14	4	5	19	7.6	7.7	1.6
Erie	714	130	166	29.27	30.06	−.01	30.4	+3.5	52	28	37	12	11	24	30	28	25	80	0.87	−1.7	7	6,964	nw.	32	sw.	2	6	6	16	7.1	1.6	0.0
Cleveland	762	267	337	29.23	30.07	.00	33.0	+5.6	58	28	39	13	14	27	31	29	25	76	1.29	−1.2	6	7,647	n.	37	w.	13	6	6	16	7.0	0.5	0.0
Sandusky	629	5	67	29.39	30.09	+.02	33.4	+6.0	53	3	39	16	14	28	28	----	----	----	1.71	−0.4	9	4,891	sw.	27	w.	13	7	4	17	6.8	1.4	0.0
Toledo	628	208	243	29.39	30.10	+.03	34.0	+6.7	59	28	40	14	14	28	29	30	25	73	1.46	−0.6	10	7,000	sw.	30	w.	15	11	5	12	5.7	0.8	0.0
Fort Wayne	856	100	119	29.14	30.09	----	34.6	+8.8	59	28	41	16	14	28	30	31	28	79	1.36	−1.0	12	5,416	nw.	25	nw.	13	6	9	13	6.2	2.2	0.0
Detroit	730	218	258	29.27	30.09	+.03	32.8	+7.5	56	28	39	12	14	27	26	30	26	80	1.40	−0.8	8	6,101	n.	25	sw.	5	10	4	14	6.0	3.5	0.0
Upper Lake Region							28.9	+9.6										82	1.00	−0.8										6.5		
Alpena	609	13	92	29.39	30.08	+.05	26.0	+8.0	44	15	33	1	14	20	27	24	21	81	0.88	−0.8	11	6,333	nw.	29	e.	7	6	5	17	7.1	8.2	T.
Escanaba	612	54	60	29.40	30.09	+.03	26.4	+11.0	45	3	33	6	10	20	24	24	21	83	0.86	−0.6	4	5,710	n.	30	n.	9	8	6	14	6.1	8.6	5.0
Grand Haven	632	54	89	29.38	30.08	+.03	31.6	+7.4	47	27	38	10	10	26	22	30	27	85	0.86	−1.3	10	6,405	sw.	31	n.	3	5	6	17	7.0	5.6	0.0
Grand Rapids	707	70	244	29.30	30.10	+.05	32.2	+8.5	50	25	39	8	10	26	25	29	25	77	0.79	−1.4	10	6,949	sw.	33	sw.	1	7	6	15	6.5	7.2	0.0
Houghton	668	64	99	29.33	30.09	+.04	24.7	+11.0	43	24	33	−5	10	17	37	----	----	----	2.23	+0.4	10	5,260	e.	30	w.	3	4	9	15	7.2	22.0	13.5
Lansing	878	6	88	29.10	30.07	----	30.4	+7.5	49	16	37	9	10	24	30	28	27	91	0.99	−0.9	10	5,270	sw.	24	nw.	13	9	5	14	6.3	7.9	0.0
Ludington	637	60	66	29.36	30.07	----	31.1	+8.6	43	27	36	10	10	26	22	29	27	86	0.67	−1.4	9	5,858	n.	27	sw.	1	8	7	13	6.4	4.2	0.0
Marquette	734	77	111	29.25	30.08	+.03	27.6	+11.3	50	15	34	5	13	21	24	25	21	80	1.51	−0.4	12	5,942	nw.	34	nw.	13	4	9	15	7.3	15.1	8.9
Port Huron	638	70	120	29.35	30.07	+.02	29.6	+6.9	48	16	36	8	14	23	28	27	24	81	1.34	−0.6	10	6,271	nw.	26	nw.	13	6	8	14	6.9	9.1	T.
Sault Ste. Marie	614	11	52	29.37	30.10	+.07	20.8	+8.2	40	15	30	−20	10	11	41	20	18	89	1.31	−0.6	12	3,957	se.	32	nw.	13	7	6	15	6.5	15.7	5.4
Chicago	673	7	131	29.36	30.10	+.02	35.6	+9.3	54	3	41	12	14	30	26	32	28	77	0.76	−1.4	7	6,231	ne.	25	sw.	1	7	10	11	6.1	0.4	0.0
Green Bay	617	109	141	29.38	30.07	+.01	29.0	+11.6	47	25	36	−2	14	22	27	27	23	81	0.64	−0.9	4	6,217	n.	25	nw.	3	5	10	13	6.8	7.1	1.0
Milwaukee	681	125	221	29.33	30.09	+.03	33.4	+10.6	51	16	40	7	14	27	25	30	26	77	0.45	−1.4	5	7,647	n.	31	sw.	1	9	6	13	5.8	3.8	T.
Duluth	1,133	5	47	28.84	30.10	+.02	26.2	+14.8	56	24	35	−5	13	18	34	23	19	80	0.69	−0.4	3	7,316	ne.	36	nw.	13	13	6	9	4.9	9.2	5.0
North Dakota							28.3	+20.4										81	0.42	−0.1										5.2		
Moorhead	940	50	58	29.05	30.11	.00	26.2	+18.1	53	15	35	−12	9	17	37	24	21	84	0.80	−0.4	3	4,986	n.	22	nw.	25	8	8	12	6.0	3.6	T.
Bismarck	1,674	8	57	28.24	30.08	−.04	30.4	+20.1	59	15	40	0	9	21	38	26	22	77	0.74	+0.3	4	4,609	nw.	24	n.	8	12	7	9	4.7	9.9	1.3
Devils Lake	1,478	11	44	28.46	30.09	−.02	25.6	+20.5	51	15	34	−13	9	17	31	23	21	86	0.13	−0.4	3	5,377	s.	23	nw.	8	10	8	10	5.3	1.4	T.
Ellendale	1,457	10	56	28.48	30.09	----	28.0	----	56	15	37	−6	9	19	37	----	----	----	0.74	+0.2	7	7,642	nw.	38	e.	27	7	7	14	6.3	6.4	2.5
Grand Forks	833	12	67	----	----	----	24.4	----	46	15	33	−14	9	16	34	22	----	----	0.09	----	2	----	nw.	35	nw.	9	18	5	5	----	1.0	T.
Williston	1,878	41	48	28.03	30.06	−.05	31.0	+22.9	53	18	41	−2	9	21	37	26	22	76	0.19	−0.2	3	3,826	se.	31	w.	24	13	10	5	3.7	2.3	0.0
Upper Mississippi Valley							36.2	+11.6										76	1.05	−0.6										5.2		
Minneapolis	918	102	208	29.06	30.08	----	32.0	+16.1	57	24	40	0	9	24	34	----	----	----	0.70	−0.2	4	6,098	nw.	26	nw.	3	12	4	12	5.4	7.0	2.0
St. Paul	837	236	261	29.15	30.09	.00	31.4	+15.6	57	24	40	0	10	23	33	----	----	----	0.72	−0.2	4	5,851	nw.	28	w.	7	12	5	11	4.8	7.7	3.5
La Crosse	714	11	48	29.29	30.08	.00	32.5	+13.3	59	24	41	−1	14	24	31	29	25	79	0.71	−0.4	4	2,731	s.	13	nw.	13	11	7	10	5.1	7.5	1.0
Madison	974	70	78	29.01	30.10	+.03	31.4	+12.3	48	24	38	5	14	25	23	28	26	83	0.40	−1.1	6	4,790	nw.	30	n.	28	10	6	12	5.6	3.9	0.0
Wausau	1,247	4	62	----	30.10	----	27.0	----	53	24	36	−10	10	18	38	----	----	----	1.30	+0.1	5	3,354	n.	18	w.	8	8	9	11	----	12.9	3.7
Charles City	1,015	10	51	29.00	30.11	+.01	32.6	+15.5	58	24	41	5	10	24	29	28	25	80	0.61	−0.5	4	3,470	se.	18	sw.	15	14	7	7	4.1	4.3	0.0
Davenport	606	71	79	29.43	30.11	+.01	36.8	+11.9	59	27	45	11	14	29	26	32	28	76	0.14	−1.4	3	5,148	sw.	28	ne.	6	10	9	9	5.3	T.	0.0
Des Moines	861	5	99	29.17	30.11	.00	36.8	+13.1	58	27	47	10	10	27	30	31	26	70	0.09	−1.0	1	5,198	s.	27	e.	6	11	9	8	5.0	T.	0.0
Dubuque	700	81	96	29.33	30.10	+.01	34.3	+12.1	51	24	42	8	14	27	26	31	28	81	0.25	−1.1	3	3,238	s.	18	nw.	13	10	6	12	5.7	1.4	0.0
Keokuk	614	64	78	29.43	30.13	+.02	38.8	+10.5	63	3	47	14	10	30	29	33	28	71	1.08	−0.5	6	3,772	sw.	18	sw.	11	13	4	11	5.0	0.1	0.0
Cairo	358	87	93	29.70	30.10	−.02	43.8	+5.3	70	7	52	23	15	36	30	38	33	72	3.38	+0.2	7	5,460	n.	28	n.	24	10	5	13	5.8	0.0	0.0
Peoria	609	11	45	29.44	30.12	+.02	36.7	+10.8	60	3	45	13	14	29	29	32	29	81	0.83	−1.2	10	3,609	s.	17	e.	6	11	5	12	5.1	T.	0.0
Springfield, Ill	636	5	191	29.41	30.10	.00	38.6	+9.1	64	3	46	15	14	31	26	34	30	77	1.57	−0.8	10	6,542	s.	26	ne.	28	9	8	11	5.7	0.1	0.0
Hannibal	534	74	109	29.52	30.11	.00	39.3	+9.6	66	3	47	16	14	31	32	----	----	----	2.17	+0.3	7	4,228	sw.	23	sw.	11	12	3	13	5.3	1.4	0.0
St. Louis	568	265	303	29.48	30.10	−.01	41.7	+7.2	67	3	50	18	14	34	27	37	31	69	1.77	−0.8	10	6,438	n.	29	sw.	12	11	6	11	5.1	T.	0.0
Missouri Valley							38.6	+12.8										68	1.01	−0.2										4.6		
Columbia, Mo	784	6	84	29.24	30.10	−.01	40.9	+9.2	67	3	49	17	10	33	34	----	----	----	3.19	+1.2	11	4,241	n.	21	nw.	9	11	5	12	5.6	0.8	0.0
Kansas City	963	161	181	29.04	30.10	−.01	42.2	+11.0	66	2	50	17	10	34	26	36	31	70	1.24	−0.5	5	5,521	s.	24	n.	25	12	8	8	4.7	T.	0.0
St. Joseph	967	11	49	29.03	30.09	----	40.1	----	64	2	49	15	10	31	27	34	28	69	0.81	−0.6	4	4,342	ne.	19	sw.	15	15	6	7	4.0	T.	0.0
Springfield, Mo	1,324	98	104	28.65	30.08	−.03	43.2	+8.0	63	2	52	18	10	35	25	38	32	69	3.06	+0.7	10	5,893	se.	24	se.	22	15	7	6	3.8	0.0	0.0
Iola	984	11	50	29.01	30.09	−.01	42.7	+9.5	69	3	53	16	10	33	34	----	----	----	1.53	−0.1	6	3,864	n.	22	ne.	8	9	5	14	5.9	0.0	0.0
Topeka	987	92	107	----	----	----	41.2	+10.2	66	2	50	16	10	32	32	----	----	----	1.34	−0.2	5	5,099	se.	25	sw.	15	11	9	8	4.5	T.	0.0
Lincoln	1,189	11	81	28.79	30.10	.00	38.1	+12.0	62	11	49	11	10	27	35	33	26	68	1.09	+0.1	3	4,891	s.	21	n.	28	10	9	9	5.3	0.4	T.
Omaha	1,105	115	122	28.89	30.10	−.01	38.6	+13.1	59	11	47	15	10	30	29	32	25	63	0.03	−0.9	1	4,296	nw.	21	nw.	9	17	5	6	3.6	0.4	0.0
Valentine	2,598	47	54	27.31	30.09	.00	36.1	+14.7	62	15	47	12	9	25	38	30	25	72	0.37	−0.2	5	4,513	w.	34	sw.	26	9	9	10	5.1	0.1	0.0
Sioux City	1,135	94	164	28.86	30.11	−.01	36.4	+15.4	59	24	46	12	13	27	30	31	24	64	0.04	−0.8	1	6,345	nw.	31	se.	26	14	6	8	4.2	T.	0.0
Huron	1,306	59	74	28.67	30.11	−.01	32.6	+18.3	64	15	44	4	13	21	40	27	22	70	0.19	−0.4	5	5,128	s.	25	se.	26	14	5	9	4.2	1.3	0.0
Pierre	1,572	70	75	28.37	30.08	−.03	35.8	+17.2	65	15	47	10	9	25	41	30	24	69	0.13	−0.3	4	4,520	nw.	24	nw.	8	9	11	8	4.8	0.6	0.0
Yankton	1,233	49	57	28.76	30.11	−.01	35.8	+14.9	62	15	46	12	12	25	37	----	----	----	0.11	−0.7	2	4,188	nw.	22	sw.	10	15	4	9	4.2	T.	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, February, 1931*—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 .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							32.7	+11.0										67	0.42	−0.3									5.3			
Billings	3,140	5					36.2		62	2	52	8	8	20	49				0.28		7		nw.				11	10	7		1.7	
Havre	2,505	11	67	27.34	30.03	−0.04	35.6	+22.0	57	18	46	14	9	25	38	30	23	65	0.02	−0.5	1	5,397	sw.	30	sw.	18	13	10	5	4.4	T.	0.0
Helena	4,124	89	113	25.79	30.08	−.03	33.3	+10.3	59	18	42	12	8	24	33	27	19	57	0.18	−0.5	2	4,613	sw.	28	sw.	16	6	10	12	5.9	2.3	0.0
Kalispell	2,973	48	56	26.99	30.14	+.06	27.9	+4.6	49	18	34	7	9	21	20	26	23	79	0.27	−0.8	5	2,421	nw.	15	nw.	24	1	9	18	7.8	1.9	0.0
Miles City	2,371	48	55	27.49	30.10	+.01	36.3	+19.5	58	19	47	11	9	26	35	31	25	69	0.47	0.0	4	2,876	s.	21	nw.	24	14	5	9	4.8	1.1	0.0
Rapid City	3,259	50	58	26.60	30.10	+.02	36.3	+12.9	63	14	48	11	9	25	47	30	24	66	0.13	−0.4	3	3,907	n.	22	n.	24	10	7	11	5.6	0.6	0.0
Cheyenne	6,088	84	101	23.95	30.06	+.03	32.2	+4.9	57	19	42	10	13	22	33	27	20	63	0.74	+0.1	6	6,682	w.	33	w.	10	6	11	11	6.2	7.1	3.5
Lander	5,372	60	68	24.61	30.10	+.02	29.3	+6.8	52	18	42	3	13	16	35	25	19	71	0.77	+0.1	4	1,812	sw.	20	nw.	16	15	11	2	3.8	8.4	0.5
Sheridan	3,790	10	47	26.08	30.08		32.2		58	18	46	6	14	18	49	27	19	65	0.59	−0.1	5	2,130	nw.	23	nw.	26	10	10	8	4.8	4.9	T.
Yellowstone Park	6,241	11	48		30.17	+.07	25.2	+5.6	45	4	36	2	18	14	36			71	0.25	−1.1	8	4,108	sw.	21	n.	27	10	9	9		8.1	7.1
North Platte	2,821	11	51	27.07	30.06	−.01	38.6	+12.0	65	19	50	20	14	27	39	32	26	68	0.76	+0.2	3	3,654	w.	18	s.	26	10	12	6	4.8	1.0	0.0
Middle Slope							42.0	+8.2										68	1.20	+0.3										5.3		
Denver	5,292	106	113	24.69	30.03	+.02	38.8	+6.1	64	19	48	23	28	30	30	31	22	58	1.11	+0.6	7	3,931	s.	24	w.	16	5	16	7	5.4	18.0	6.0
Pueblo	4,685	80	86	25.26	30.01	+.01	38.8	+5.9	63	19	52	16	10	26	42	31	23	59	1.11	+0.6	6	3,200	nw.	23	w.	6	12	8	8	4.7	9.2	5.2
Concordia	1,392	50	58	28.59	30.10	+.01	39.8	+10.0	66	2	50	17	14	29	35	34	29	72	1.46	+0.6	3	4,309	s.	20	se.	21	8	13	7	5.2	T.	0.0
Dodge City	2,509	11	51	27.42	30.06	.00	42.6	+9.4	67	20	54	24	10	31	38	36	30	71	0.56	−0.2	4	5,413	s.	26	se.	21	12	10	6	4.4	1.3	1.3
Wichita	1,358	139	158	28.59	30.05	−.03	43.6	+9.2	64	3	52	18	10	35	28	38	33	71	0.64	−0.6	9	6,701	s.	30	s.	15	9	6	13	5.6	0.0	0.0
Broken Arrow	765	11	56	29.23	30.06		46.6		69	6	56	22	10	37	33				2.05	+0.7	11	7,190	n.	35	ne.	22	9	7	12	5.8	0.0	0.0
Oklahoma City	1,214	10	47	28.74	30.04	−.03	48.3	+8.7	72	6	57	27	14	40	29	42	38	74	1.48	+0.4	12	5,415	s.	22	se.	21	8	8	12	6.3	0.0	0.0
Southern Slope							49.8	+3.8										71	1.65	+0.9										5.4		
Abilene	1,738	10	52	28.20	30.03	−.02	51.4	+4.2	72	19	60	29	14	43	30	46	42	76	2.54	+1.5	8	5,152	s.	30	s.	21	11	4	13	5.6	0.0	0.0
Amarillo	3,676	10	49	26.23	30.00	−.02	45.0	+6.9	70	5	55	26	28	35	34	38	32	68	1.83	+1.1	8	5,164	sw.	24	se.	20	14	4	10	5.0	4.7	3.5
Del Rio	944	64	71	28.99	29.99	−.01	57.2	+1.2	77	22	66	41	19	48	33	51	47	75	1.04	+0.5	8	4,543	se.	29	se.	15	8	13	7	5.4	0.0	0.0
Roswell	3,566	75	85	26.35	29.99	+.01	45.4	+2.9	70	5	56	27	18	34	37	39	32	65	1.19	+0.6	8	4,385	s.	30	n.	28	8	9	11	5.8	2.1	T.
Southern Plateau							47.2	+2.4										67	1.35	+0.7										4.8		
El Paso	3,778	152	175	26.15	29.97	+.02	50.0	+1.0	66	5	59	33	24	41	28	42	34	61	0.89	+0.5	8	6,208	e.	35	w.	15	12	12	4	4.5	0.0	0.0
Santa Fe	7,013	38	53	23.18	29.99	+.01	35.6	+2.5	50	7	44	22	28	28	26	30	25	72	0.73	0.0	11	3,148	n.	17	n.	16	5	10	13	6.3	4.5	0.2
Flagstaff	6,907	10	59	23.25	29.90	−.10	33.8	+3.0	52	3	43	13	24	24	33	30		78	2.10		9	3,493	sw.	23	n.	28	6	10	12		15.5	T.0
Phoenix	1,108	10	107	28.78	29.94	−.05	57.8	+2.7	80	3	68	38	24	48	34	50	42	63	3.71	+2.9	8	2,893	e.	23	nw.	19	8	12	8	5.1	0.0	0.
Yuma	141	9	54	29.80	29.95	−.05	59.4	+0.8	79	3	71	38	23	48	33	51	43	60	1.13	+0.7	6	2,625	ne.	27	nw.	19	15	10	3	3.3	0.0	0.0
Independence	3,957	6	27	25.94	30.00	−.06	46.6	+4.4	66	28	59	24	23	34	34	37			0.31	−0.5	2		nw.				13	4	11		0.0	0.0
Middle Plateau							37.0	+3.6										70	0.66	−0.4										6.1		
Reno	4,532	74	81	25.44	30.04	−.04	39.5	+3.9	59	18	51	20	20	28	32	34	27	63	0.47	−0.7	4	2,328	w.	27	w.	18	10	11	7	5.1	T.	0.0
Tonopah	6,090	12	20				36.7		55	18	44	16	22	29	22	32	27	70	0.57		5		se.									
Winnemucca	4,344	18	56	25.62	30.07	−.02	37.2	+3.7	58	1	49	15	22	25	37	32	25	66	0.51	−0.4	6	4,403	ne.	24	nw.	19	11	10	7	4.6	T.	0.0
Modena	5,473	10	43	24.58	29.98	−.06	34.9	+3.9	54	18	43	19	23	27	30	31	28	80	0.88	−0.1	8	4,036	e.	24	e.	12	4	9	15	7.0	3.0	0.0
Salt Lake City	4,360	163	203	25.64	30.10	+.02	34.0	+0.2	53	18	39	22	2	29	22	31	27	77	0.61	−0.9	8	2,976	nw.	24	se.	19	6	7	15	7.0	2.0	0.0
Grand Junction	4,602	60	68	25.36	29.96	−.08	39.2	+6.3	57	26	49	23	2	30	31	33	27	65	0.81	+0.2	11	2,652	se.	17	nw.	27	4	8	16	7.0	0.4	0.0
Northern Plateau							35.3	+2.1										74	0.64	−0.7										6.6		
Baker	3,471	48	53	26.50	30.17	+.05	30.9	+1.9	46	18	40	13	7	22	25	28	25	77	0.51	−0.7	8	3,209	se.	16	se.	18	4	12	12	6.2	3.7	0.0
Boise	2,739	79	87	27.25	30.17	+.05	36.2	+1.4	54	14	45	23	8	28	24	32	27	71	0.84	−0.6	8	2,597	se.	20	nw.	19	8	9	11	5.8	0.1	0.0
Lewiston	757	40	48	29.33	30.16	+.05	39.5	+2.5	56	14	47	23	9	32	29				0.88	−0.4	9	1,604	e.	1	7ne.	17	3	9	16	7.3	T.	0.0
Pocatello	4,477	760	68	25.51	30.16	+.06	29.0	+0.1	47	18	37	9	25	20	33	26	23	78	0.42	−0.8	7	4,104	se.	28	sw.	16	8	10	10	5.6	3.6	0.0
Spokane	1,929	101	110	28.04	30.14	+.05	34.6	+3.3	54	18	41	18	12	28	24	32	28	76	0.76	−1.0	8	2,981	s.	18	4	10	14	6.9	2.6	0.0
Walla Walla	991	57	65	29.05	30.14	+.03	39.0	+1.9	61	18	45	25	9	33	22	36	31	76	0.90	−0.9	10	2,661	s.	21	s.	19	3	9	16	7.7	T.	0.0
Yakima	1,076	58	67	28.96	30.13		38.2	+3.7	60	17	47	24	14	30	26	34	27	64	0.15	−0.8	3	2,378	n.	28	s.	18	7	8	13	6.4	0.5	0.0
North Pacific Coast Region							44.9	+3.0										75	3.44	−1.7										7.1		
North Head	211	11	56	29.82	30.06	.00	46.5	+3.5	59	2	51	37	21	42	14	43	39	76	4.95	−2.5	15	9,722	se.	58	sw.	18	4	8	16	6.9	0.0	0.0
Port Angeles	29	8	53		30.06		42.1		51	18	48	32	6	36	16				3.25	0.0	12	3,551	s.	26	sw.	15	5	10	13		0.0	0.0
Seattle	125	215	250	29.92	30.05	−.01	44.4	+3.3	62	13	50	35	21	39	23	41	36	72	3.25	−0.6	13	5,400	se.	33	sw.	15	5	12	11	6.5	0.0	0.0
Tacoma	194	172	201	29.85	30.06	.00	43.5	+2.9	60	13	50	31	13	37	29				3.38	−1.3	13	4,849	s.	36	sw.	15	4	9	15	6.8	0.0	0.0
Tatoosh Island	86	9	53	29.90	30.00	.00	45.6	+4.6	55	3	48	33	26	43	9	43	40	83	7.41	−2.0	18	11,687	e.	49	s.	17	5	3	20	7.5	0.0	0.0
Medford	1,329	29	58	28.63	30.06		43.8		66	12	56	24	6	31	40	39	34	72	1.06	−1.3	9		s.	26	w.	18	5	11	12	6.8	T.	0.0
Portland, Oreg.	153	68	106	29.92	30.08	.00	45.0	+2.9	58	18	51	32	22	39	19	41	35	70	2.40	−3.0	12	3,560	e.	24	sw.	18	2	8	18	7.8	0.0	0.0
Roseburg	510	75	99	29.52	30.08	−.02	44.5	+1.1	64	28	53	28	24	36	30	42	38	78	1.80	−2.7	14	1,995	nw.	19	s.	25	2	11	15	7.4	0.	0.00
Middle Pacific Coast Region							53.4	+3.5										76	1.53	−2.4										5.8		
Eureka	62	73	89	30.00	30.07	−.04	49.8	+2.6	62	17	56	37	20	44	23	48	45	85	2.39	−4.1	10	3,369	n.	35	n.	23	6	11	11	6.1	0.0	0.0
Red Bluff	330	5	58	29.66	30.02	−.09	52.7	+3.3	75	28	62	37	25	43	32	47	40	68	1.61	−2.3	7	3,277	nw.	24	n.	23	9	3	16	6.2	0.0	0.0
Sacramento	69	106	117	29.93	30.00	−.09	53.4	+3.3	68	24	61	39	21	45	24	50	47	80	1.35	−1.7	7	3,765	nw.	24	nw.	19	11	7	10	4.8	0.0	0.0
San Francisco	155	208	243	29.84	30.01	−.09	56.7	+4.5	69	28	62	48	23	51	20	51	46	72	1.10	−2.8	12	3,369	w.	26	w.	25	8	10	10	5.8	0.0	0.0
San Jose	141	12	110	29.87	30.02		54.6	+4.0	71	28	63	37	21	46	32				1.20	−1.2	9	2,740	nw.	22	nw.	19	7	9	12	6.3	0.0	0.0
South Pacific Coast Region							58.0	+4.1										69	2.68	+0.5										5.2		
Fresno	327	89	98	29.65	30.01	−.07	54.2	+3.1	69	18	64	35	20	45	27	49	44	73	0.67	−0.8	7	2,988	nw.	33	nw.	19	9	7	12	5.5	0.0	0.0
Los Angeles	338	159	191	29.60	29.96	−.10	60.7	+5.2	75	18	68	49	21	53	24	51	44	60	3.25	+0.2	7	3,722	ne.	24	n.	19	12	8	8	4.7	0.0	0.0
San Diego	87	62	70	29.87	29.96	−.10	59.2	+4.1	77	2	66	44	22	52	24	54	50	75	4.11	+2.1	9	3,557	e.	27	s.	3	8	10	10	5.4	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.86	29.95		75.4	+0.5	87	5	80	66	18	70	18				5.84	+3.1	13	7,113	e.	42	n.	6	8	10	10	5.9	0.0	0.0
Panama Canal																																
Balboa Heights	118	6	97		[1] 29.83	−.02	81.2	+0.9	93	28	90	70	7	72	21			[1] 74	T.	−0.8	0	6,510	n.	25	nw.	7	1	24	3	5.5	0.0	0.0
Cristobal	36	6	97	[2] 29.83	[1] 29.86	−.03	81.8	+1.0	87	3	86	73	17	78	14	74	72	[1] 75	0.97	−0.6	12	9,080	n.	29	n.	5	6	17	5	5.5	0.0	0.0
Alaska																																
Fairbanks	455	11	44	[2] 29.03	[2] 29.58		5.2		40	2	16	−28	28	−6	40	6	1	71	0.42		6	1,199	n.	19	sw.	2	7	4	17	7.1	6.2	12.5
Juneau	80	11	50	[2] 29.60	[2] 29.69		36.2		45	12	40	28	14	33	11	35	32	85	8.26		25	4,984	se.	31	se.	21	0	2	26	9.2	12.1	1.1
Hawaiian Islands																																
Honolulu	38	86	100	[2] 30.09	[2] 30.13		72.2	+1.4	78	17	76	65	4	68	11	65	62	72	0.50	−3.2	13	7,366	e.	29	e.	24	10	16	2	4.3	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, February, 1931*

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				30.2		36.2	24.3	44	0	8.09		17.0
Sydney, C. B. I	48	29.80	29.85	−0.07	25.7	+6.4	32.4	19.0	42	−11	8.70	+4.61	35.0
Halifax, N. S	88	29.76	29.87	−.08	26.7	+4.3	33.1	20.4	44	−3	4.07	−1.09	8.8
Yarmouth, N. S	65	29.78	29.85	−.14	28.3	+2.5	34.2	22.4	45	5	5.62	+1.45	23.3
Charlottetown, P. E. I	38	29.77	29.81	−.14	21.9	+4.3	28.1	15.6	45	−6	5.22	+2.16	48.8
Chatham, N. B	28	29.81	29.85	−.11	17.7	+5.2	26.7	8.8	44	−25	2.77	−0.39	14.2
Father Point, Que	20	29.95	29.98	.00	14.7	+3.2	22.3	7.1	38	−13	1.94	−0.27	19.4
Quebec, Que	296	29.69	30.03	+.04	15.0	+3.2	21.7	8.2	37	−16	2.54	−0.73	25.4
Doucet, Que	1,236				3.9		20.2	−12.4	45	−48	1.34		13.4
Montreal, Que	187	29.80	30.02	.00	18.5	+4.0	25.9	11.1	36	−4	3.12	+0.05	23.7
Ottawa, Ont	236	29.76	30.05	+.03	17.6	+5.9	28.0	7.3	44	−16	1.49	−1.20	14.2
Kingston, Ont	285	29.72	30.06	+.02	21.9	+4.1	30.4	13.4	40	−8	1.17	−1.37	5.6
Toronto, Ont	379	29.64	30.07	+.03	26.6	+5.1	33.2	20.0	43	0	1.13	−1.48	9.5
Cochrane, Ont	930				10.0		19.5	0.6	38	−27	0.30		3.0
White River, Ont	1,244	29.68	30.06	+.04	10.4	+10.2	26.0	−5.1	42	−41	0.67	−0.85	6.7
London, Ont	808				26.8		33.9	19.8	44	2	1.99		13.8
Southampton, Ont	656	29.32	30.06	+.04	23.6	+3.7	31.1	16.2	42	−5	0.96	−1.94	8.7
Parry Sound, Ont	688	29.34	30.07	+.06	19.0	+4.7	27.3	10.7	37	−22	1.47	−1.45	14.6
Port Arthur, Ont	644	29.36	30.10	+.05	21.5	+15.1	29.8	13.3	40	−11	0.24	−0.66	2.4
Winnipeg, Man	760	29.24	30.11	+.01	17.9	+19.5	26.3	9.5	40	−21	0.18	−0.80	1.8
Minnedosa, Man	1,690	28.20	30.10	+.01	19.2	+21.9	29.3	9.2	41	−28	0.06	−0.55	0.6
Le Pas, Man	860				15.6		26.5	4.8	44	−23	0.11		1.1
Qu'Appelle, Sask	2,115	27.70	30.01	−.07	25.9	+26.5	35.2	16.6	45	−16	0.22	−0.51	2.2
Moose Jaw, Sask	1,759				31.2		43.0	19.4	58	−1	0.07		0.7
Swift Current, Sask	2,392	27.36	29.94	−.13	31.6	+23.6	43.9	19.4	60	5	0.07	−0.67	0.7
Medicine Hat, Alb	2,144												
Calgary, Alb	3,428												
Banff, Alb	4,521												
Prince Albert, Sask	1,450	28.40	30.03	−.06	22.2	+25.2	33.8	10.7	45	−12	0.16	−0.53	1.6
Battleford, Sask	1,592	28.20	29.99	−.10	26.6	+26.5	37.5	15.6	53	−2	0.03	−0.34	0.3
Edmonton, Alb	2,150												
Kamloops, B. C	1,262												
Victoria, B. C	230	29.77	30.03	+.03	43.1	+3.6	47.4	38.9	51	32	3.22	−0.88	0.0
Barkerville, B. C	4,180												
Estevan Point, B. C	20												
Prince Rupert, B. C	170												
Hamilton, Ber	151												

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Toronto, Ont	379	29.58	30.01	−.04	24.9	+3.5	31.6	18.2	45	0	2.62	−0.30	22.5
Estevan Point, B. C	20				44.3		49.9	38.7	57	30	18.63		0.0
Prince Rupert, B. C	170				42.6		46.6	38.6	57	30	14.08		0.0