CLIMATOLOGICAL TABLES

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

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, December, 1930

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	43.8	−3.5	Brewton	75	11	Valley Head	18	23	2.84	−2.01	Silver Hill	5.90	Elba	1.25
Arizona	42.4	−1.8	Granite Reef Dam	87	12	Snowflake	−13	28	0.25	−1.01	Rucker Canyon	1.55	44 stations	0.00
Arkansas	40.6	−1.9	Hope	83	11	Dutton	9	[1] 22	2.58	−1.47	Warren	5.31	Mammoth Springs	0.95
California	44.1	−0.9	Santa Ana	85	8	Madeline	−5	29	0.47	−3.77	Cummings	5.99	101 stations	0.00
Colorado	22.4	−2.1	Las Animas	66	2	Sunbeam	−37	26	0.28	−0.81	La Veta Pass	1.40	9 stations	0.00
Florida	55.7	−3.9	Homestead	86	17	Jacksonville (No. 2)	22	24	4.17	+1.27	Brooksville	8.30	Coral Gables	0.69
Georgia	43.8	−3.8	Fargo	76	1	Clayton	10	18	3.35	−0.91	Clayton	6.75	2 stations	2.16
Idaho	18.9	−6.1	Glenns Ferry	51	11	Felt	−29	25	0.69	−1.30	Pete King Ranger Station.	2.83	3 stations	0.00
Illinois	31.3	+0.8	Sparta	70	9	Mount Carroll	−9	24	0.71	−1.53	Mount Carmel	2.16	Danville	0.15
Indiana	31.4	−0.7	Princeton	63	9	Laporte	−6	24	1.10	−1.80	Salem	2.51	Fowler	0.09
Iowa	26.7	+2.6	Albia	65	9	Olin	−10	16	0.57	−0.57	Washington	1.69	Lake Park (near)	T.
Kansas	33.6	+1.9	Atchison	68	10	Ulysses	1	[1] 20	0.38	−0.52	Sedan	1.94	3 stations	T.
Kentucky	35.4	−2.1	Earlington	69	11	Farmers	2	24	2.21	−1.82	Harlan	3.47	Franklin	0.75
Louisiana	48.7	−3.6	4 stations	76	11	2 stations	20	17	3.90	−1.35	Leesville	7.06	New Orleans (No. 3)	1.55
Maryland-Delaware	33.4	−1.7	Millsboro, Del	62	12	Oakland, Md	−17	25	2.60	−0.69	Oakland, Md	4.35	Millsboro, Del	1.59
Michigan	25.7	+0.8	Howard City	58	11	Vanderbilt	−18	15	1.00	−1.15	Deer Park	3.96	Twin Falls	0.15
Minnesota	19.7	+5.3	Worthington	61	9	2 stations	−25	3	0.23	−0.58	Gonvick	3.19	6 stations	T.
Mississippi	44.5	−3.5	Leakesville	75	5	5 stations	20	[1] 17	3.58	−1.53	Fayette	5.71	Fruitland Park	1.80
Missouri	34.2	+0.3	Greenville	70	9	Seymour	2	17	1.23	−0.84	Dean	3.78	2 stations	0.18
Montana	26.7	+4.7	Lewistown	66	8	Hebgen Dam	−25	25	0.23	−0.72	Heron	2.01	17 stations	0.00
Nebraska	29.8	+3.9	3 stations	68	[1] 9	Purdum	1	21	0.21	−0.49	Halsey	0.75	3 stations	0.00
Nevada	28.0	−4.2	Logandale	71	9	Owyhee	−21	21	0.07	−0.82	Arthur	0.69	25 stations	0.00
New England	27.2	+0.6	Springfield, Mass	64	1	Bethlehem, N. H	−18	16	2.08	−1.26	Nantucket, Mass	5.14	Bennington, Vt	0.52
New Jersey	33.0	+0.4	2 stations	60	1	Layton	−5	25	2.67	−1.35	Belvidere	3.92	Bridgeton	1.58
New Mexico	30.2	−2.9	Rodeo	69	[1] 10	Red River	−25	[1] 22	0.37	−0.35	Cloverdale	2.38	10 stations	0.00
New York	27.9	+1.3	Cairo	58	1	Stillwater Reservoir	−19	16	1.86	−1.12	Cutchogue	4.96	Chazy	0.49
North Carolina	38.3	−4.1	5 stations	70	[1] 1	Boone	−4	21	4.44	+0.43	Manteo	8.63	Marshall	1.20
North Dakota	19.9	+6.9	Hettinger	53	8	Willow City	−30	1	0.19	−0.35	Pembina	0.90	5 stations	0.00
Ohio	30.9	−0.3	McArthur	60	1	Medina	−5	2	1.19	−1.64	Marietta (No. 1)	2.51	Van Wert	0.40
Oklahoma	39.9	+0.7	Idabel	73	11	Boise City	8	22	2.01	+0.52	Eufaula	4.42	Hooker	0.19
Oregon	32.5	−1.3	Hillcrest Orchard	65	2	Blitzen	−15	27	2.03	−2.47	Willow Creek	8.44	Juniper Ranch	0.03
Pennsylvania	30.0	−1.1	York	59	10	Somerset	−15	25	2.29	−0.94	Warren	4.06	Zelienople	0.82
South Carolina	41.5	−4.9	Garnett	74	11	2 stations	10	[1] 18	3.84	+0.31	Caesars Head	5.93	Aiken	2.04
South Dakota	26.9	+6.9	Spearfish	67	8	Milbank	−11	1	0.17	−0.43	Hardy Ranger Station.	1.97	5 stations	0.00
Tennessee	37.4	−3.1	3 stations	68	4	Rugby	1	24	3.09	−1.41	Hohenwald	5.58	Altamont	0.73
Texas	46.0	−3.8	2 stations	85	[1] 11	Muleshoe	−1	22	1.93	−0.23	Goose Creek	5.57	Fowlerton	0.00
Utah	19.2	−6.8	Springdale	62	7	Woodruff	−23	27	0.23	−1.02	Silver Lake	1.27	21 stations	0.00
Virginia	35.1	−3.1	Christchurch	74	1	Burkes Garden	−7	25	2.97	−0.28	Danville	4.72	Quantico	1.41
Washington	32.2	+0.3	2 stations	61	[1] 2	Bumping Lake	−5	[1] 26	2.37	−3.39	Forks	11.26	Oroville	0.11
West Virginia	30.9	−2.4	Charleston	66	3	Marlinton	−14	25	2.81	−0.70	Pickens	6.59	Upper Tract	0.76
Wisconsin	22.3	+2.1	New London	57	9	Prentice	−18	2	0.42	−0.88	Racine	1.03	2 stations	0.10
Wyoming	21.4	+0.8	2 stations	62	[1] 8	Dixon	−34	27	0.26	−0.58	Bechler River	1.27	6 stations	0.00
Alaska (Nov.)	9.6	−3.0	do	58	[1] 1	Eagle	−52	[1] 29	3.61	+1.19	Latouche	27.88	Barrow	0.01
Hawaii	70.8	+1.0	4 stations	88	[1] 2	Volcano Observatory	47	31	4.07	−5.71	Puu Kukui (upper)	16.00	3 stations	0.00
Porto Rico	75.8	+1.2	San German	94	2	Guineo Reservoir	46	5	4.23	−0.27	Barros	9.40	Central Aguirre	0.34

[1] Other dates also.

TABLE 1.—*Climatological data for Weather Bureau stations, December, 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 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.
New England							30.2	+0.8										76	2.39	−1.0										6.8		
Eastport	76	67	85	29.89	29.97	−0.01	27.2	+0.9	54	1	34	−2	16	21	30	25	22	78	2.42	−1.3	15	8,076	nw.	43	sw.	1	4	4	23	8.4	10.7	6.7
Greenville, Me	1,070	6		28.78	29.99		19.9		45	1	27	−10	16	13	26				2.74		9	4,681	se.				4	10	17		24.5	
Portland, Me	103	82	117	29.90	30.03	.00	28.3	+0.7	53	1	35	4	16	22	26	25	19	69	1.93	−2.0	8	5,470	n.	29	nw.	1	11	5	15	6.0	10.2	7.0
Concord	289	70	79	29.68	30.01	−.05	26.8	0.0	43	1	35	−1	25	19	35				1.14	−2.0	10	3,110	nw.	19	nw.	13	10	5	16	6.2	12.0	8.6
Burlington	403	11	48	29.56	30.03	−.02	24.6	+0.2	41	9	30	−7	16	19	29				0.82	−1.1	11	7,152	s.	36	s.	3	0	6	25	8.8	8.7	1.8
Northfield	876	12	60		30.04	−.01	23.0	+2.6	50	1	32	−11	16	14	42			87	0.85	−1.6	11	3,879	s.	21	n.	1	0	8	23	8.6	8.7	3.0
Boston	125	106	165	29.87	30.01	−.04	33.2	+0.7	58	1	40	4	16	27	31	30	25	72	2.99	−0.5	8	5,852	nw.	26	nw.	1	12	4	15	5.9	7.7	1.0
Nantucket	12	14	90	29.97	29.98	−.07	36.4	+0.6	56	1	42	11	16	31	24	34	31	81	5.14	+1.4	16	10,279	w.	67	ne.	27	8	3	20	7.2	0.4	0.0
Block Island	26	11	46	29.97	30.00	−.06	35.6	−0.4	56	1	40	10	16	31	27	33	29	76	3.53	−0.3	11	13,312	w.	54	nw.	2	11	4	16	6.3	2.1	0.1
Providence	160	215	251	29.84	30.02	−.04	32.7	+1.1	57	1	39	6	16	27	30	29	24	70	2.67	−0.7	9	7,574	nw.	42	nw.	2	12	3	16	5.9	6.5	0.3
Hartford	159	122		29.86	30.04	−.03	31.7	+1.9	56	1	38	2	16	25	33				2.35	−1.6	9		sw.				11	3	17	6.2	9.5	3.6
New Haven	106	74	153	29.92	30.04	−.03	32.7	+0.2	55	1	38	6	16	27	34	29	24	71	2.42	−1.6	8	6,167	n.	33	n.	27	14	1	16	5.7	11.0	3.8
Middle Atlantic States							34.6	−1.1										73	2.32	−1.0										6.6		
Albany	97	107	115	29.95	30.06	−.02	30.2	+1.7	50	1	36	3	16	24	32	27	21	70	0.69	−1.9	12	4,415	s.	21	s.	3	8	7	16	6.5	4.7	1.8
Binghamton	871	10	84	29.09	30.05	−.04	28.2	0.0	43	12	34	4	17	22	29				1.70	−0.6	15	3,838	nw.	17	nw.	13	0	4	27	8.9	11.7	5.5
New York	314	414	454	29.70	30.06	−.03	35.0	0.0	56	1	41	9	16	29	30	31	24	67	2.65	−1.0	12	10,530	nw.	55	nw.	2	6	7	18	6.8	4.2	0.1
Bellefonte	1,050	5	36	28.92	30.07		26.8		43	9	34	−2	25	20	34	25	22	82	2.84		7		w.				2	4	25	8.6	10.3	4.5
Harrisburg	374	94	104	29.70	30.12	.00	32.2	−0.5	51	9	38	12	16	26	29	28	22	67	2.27	−0.8	5	4,844	w.	26	sw.	9	5	9	17	7.2	3.7	T.
Philadelphia	114	123	367	29.95	30.08	−.03	36.6	+0.3	57	1	42	14	16	32	31	32	25	63	2.50	−0.9	8	9,252	nw.	39	nw.	1	8	10	13	6.2	2.1	0.0
Reading	325	81	98	29.72	30.09		33.4	+1.2	51	9	39	11	16	28	28	30	24	71	2.61	−1.0	9	4,250	nw.	23	nw.	1	7	9	15	7.0	2.0	T.
Scranton	805	111	119	29.18	30.08	−.02	29.9	−0.8	50	1	36	7	17	24	33	27	23	78	2.04	−1.0	15	4,301	sw.	20	nw.	1	3	10	18	7.4	17.6	5.5
Atlantic City	52	37	172	30.00	30.06	−.04	36.4	0.0	55	1	42	14	16	31	27	33	29	76	2.27	−1.7	12	10,774	w.	42	ne.	27	11	5	15	6.0	2.6	0.0
Cape May	17	13	49				36.6	−1.4	56	12	43	15	16	30	29	34	31	84	1.97	−1.8	11		nw.				8	8	15		3.4	0.0
Sandy Hook	22	10	55	30.02	30.04		34.9		55	1	39	13	16	30	28	32	28	76	2.09	−2.0	12	11,211	w.	42	ne.	27	9	4	18	6.7	0.8	0.0
Trenton	190	159	183	29.85	30.07		33.7	−0.7	57	1	40	11	16	27	35	30	25	71	2.38	−1.0	7	7,056	nw.	35	nw.	1	9	8	14	6.3	3.8	0.0
Baltimore	123	100	215	29.95	30.09	−.04	37.0	−0.2	55	9	43	16	16	31	30	32	26	68	1.95	−1.4	7	7,067	sw.	41	nw.	1	7	10	14	6.3	1.6	0.0
Washington	112	62	85	29.98	30.11	−.02	35.7	−0.9	56	1	42	15	16	29	34	31	24	67	2.04	−1.3	7	4,524	nw.	30	nw.	1	9	7	15	6.1	2.5	0.0
Cape Henry	18	8	54	30.05	30.07		40.7	−3.0	62	11	46	21	25	35	24	37	34	80	3.39	0.0	10	9,769	nw.	45	n.	2	8	9	14	6.1	2.5	0.0
Lynchburg	681	153	188	29.34	30.11	−.03	36.5	−3.0	65	10	44	14	25	29	32	32	26	66	2.80	−0.5	6	4,678	w.	35	nw.	27	12	10	9	5.4	7.8	T.
Norfolk	91	170	205	29.99	30.09	−.04	40.4	−2.7	63	10	47	21	16	34	24	36	32	74	3.02	−0.3	9	8,090	n.	39	nw.	27	9	8	14	6.0	2.7	0.0
Richmond	144	11	52	29.95	30.12	−.02	36.8	−3.0	62	10	45	16	16	29	32	32	28	76	2.48	−0.8	7	4,946	ne.	26	nw.	30	12	6	13	5.5	6.0	0.0
Wytheville	2,304	49	55	27.60	30.14	−.01	29.7	−5.6	55	3	37	1	25	22	37	27	23	79	2.88	0.0	8	4,900	w.	23	nw.	1	8	8	15	6.4	18.1	2.4
South Atlantic States							43.2	−4.2										76	3.51	+0.1										5.7		
Asheville	2,253	70	84	27.70	30.14	−.02	34.2	−3.6	56	10	42	13	21	26	30	30	26	75	2.45	−0.8	8	6,005	n.	28	nw.	27	9	6	16	6.2	9.2	T.
Charlotte	779	55	62	29.26	30.12	−.04	38.6	−4.4	64	10	46	19	17	31	29	33	27	70	3.43	−0.4	6	3,474	ne.	15	w.	27	12	6	13	5.5	10.4	0.0
Greensboro	886	5	56	29.14	30.12		33.5		65	10	43	4	25	24	39	28	25	80	3.86		4	5,213	w.	28	nw.	27	14	2	15	5.6	14.3	0.4
Hatteras	11	5	50	30.04	30.05	−.08	45.9	−4.2	65	1	51	32	16	40	17	42	40	83	7.46	+3.2	12	10,294	n.	56	nw.	17	7	9	15	6.4	0.0	0.0
Raleigh	376	103	110	29.70	30.12	−.03	39.8	−3.2	66	10	48	21	17	32	26	34	29	71	3.68	+0.1	7	5,878	nw.	28	nw.	27	13	6	12	5.5	6.5	0.0
Wilmington	78	81	91	30.02	30.11	−.04	44.6	−4.5	68	10	53	26	25	36	28	40	35	76	4.55	+1.8	10	4,198	n.	21	sw.	1	10	7	14	5.7	T.	0.0
Charleston	48	11	92	30.06	30.10	−.05	47.2	−4.5	71	6	54	29	18	40	21	42	38	76	2.05	−0.7	10	7,045	n.	27	e.	16	9	6	16	6.0	0.0	0.0
Columbia, S. C	351	41	57	29.74	30.13	−.03	42.5	−4.7	66	11	50	24	17	35	28	37	32	73	2.74	−0.3	7	4,285	ne.	21	sw.	29	12	5	14	5.3	0.0	0.0
Due West	711	10	55	29.35	30.15		39.4		64	1	48	18	18	31	31				3.45		5	5,661	ne.	22	ne.	16	12	7	12	5.0	T.	T.
Greenville, S. C	1,039	139	146	28.98	30.10		39.5	−2.7	66	10	47	18	18	32	29	34	26	71	4.60	−0.2	6	4,983	ne.	23	ne.	5	14	3	14	4.8	14.4	T.
Augusta	182	62	77	29.92	30.12	−.04	44.0	−4.1	67	10	52	25	18	36	31	39	34	76	2.16	−1.1	7	3,389	nw.	18	nw.	23	13	4	14	5.3	0.2	0.0
Savannah	65	150	194	30.03	30.10	−.05	47.8	−4.6	70	11	55	30	18	40	24	42	38	77	2.35	−0.6	9	7,791	w.	30	nw.	26	11	3	17	5.9	0.0	0.0
Jacksonville	43	209	245	30.06	30.11	−.03	51.1	−5.2	70	6	58	34	18	44	23	46	43	79	3.11	+0.1	14	7,294	n.	45	se.	19	6	6	19	7.0	0.0	0.0
Florida Peninsula							62.8	−3.7										80	3.88	+2.1										6.8		
Key West	22	10	64	30.04	30.06	−.02	67.2	−3.1	81	19	72	50	24	62	16	62	60	82	4.26	+2.6	9	6,599	ne.	30	n.	23	8	7	16	6.5	0.0	0.0
Miami	25	124	168	30.04	30.07	−.05	64.4	−3.6	78	6	72	40	24	57	27	58	55	76	1.38	−0.3	9	7,146	n.	24	ne.	2	4	9	18	7.1	0.0	0.0
Tampa	35	79	197	30.06	30.10	−.02	56.7	−4.4	76	5	64	37	24	49	26	51	49	82	5.99	+3.9	13	7,505	nw.	28	nw.	23	6	8	17	6.7	0.0	0.0
Titusville [1]	44	5		30.04	30.09		57.8		80	6	66	35	24	49	29				4.38		13		nw.				5	15	6	6.7	0.0	0.0
East Gulf States							45.8	−3.7										75	2.88	−2.0										6.0		
Atlanta	1,173	190	216	28.86	30.13	−.03	39.6	−5.1	57	13	46	23	23	34	22	35	30	72	3.46	−1.2	10	7,763	nw.	29	nw.	30	11	5	15	5.7	T.	0.0
Macon	370	78	87	29.74	30.14	−.02	43.8	−3.7	69	11	52	26	21	36	30	38	33	72	2.71	−1.3	9	4,312	nw.	19	nw.	30	11	5	15	5.8	0.0	0.0
Thomasville	273	49	103	29.83	30.14	−.01	47.9	−4.6	70	10	55	32	23	40	25	42	39	79	2.34	−2.0	10	4,987	nw.	23	nw.	23	7	7	17	6.7	0.0	0.0
Apalachicola	36	11	51	30.09	30.13		51.1		69	12	58	36	24	45	22	47	43	81	3.35	−1.8	13	5,915	nw.	28	e.	16	10	6	15	6.2	0.0	0.0
Pensacola	56	149	185	30.09	30.15	.00	49.4	−4.6	66	5	55	30	23	44	21	45	42	78	3.37	−1.3	11	8,540	n.	38	se.	25	4	11	16	6.6	0.0	0.0
Anniston	741	9	57	29.35	30.17	+.01	41.1	−3.1	62	9	50	21	23	33	28				2.25	−2.8	8	3,670	nw.	21	se.	5	15	2	14	5.1	0.2	0.0
Birmingham	700	11	48	29.37	30.16	.00	43.2	−3.2	64	9	51	26	23	36	28	37	32	72	2.48	−2.7	11	4,282	nw.	34	se.	5	14	3	14	5.4	0.0	0.0
Mobile	57	125	161	30.09	30.15	.00	49.4	−2.8	70	5	57	30	23	42	22	45	42	82	3.12	−1.9	10	6,285	n.	33	se.	25	8	9	14	6.2	0.0	0.0
Montgomery	223	100	112	29.91	30.17	+.01	46.0	−3.4	67	11	53	29	23	39	26	40	35	70	2.48	−2.4	10	4,346	nw.	24	se.	26	10	6	15	5.8	0.0	0.0
Corinth	469	6			30.18		40.8		64	9	50	21	24	32	32				3.26		9		se.				7	11	13		1.5	0.0
Meridian	375	87	95	29.75	30.16	.00	44.8	−2.9	66	9	53	26	24	36	30	39	35	76	3.04	−2.2	9	3,514	nw.	20	w.	5	11	4	16	6.0	0.0	0.0
Vicksburg	247	65	73	29.90	30.19	+.04	46.0	−4.0	67	9	54	26	17	38	26	40	35	72	4.10	−1.2	10	4,080	n.	18	se.	4	11	4	16	6.0	0.0	0.0
New Orleans	53	76	84	30.10	30.16	+.03	52.6	−3.0	74	11	59	36	17	46	24	47	43	73	1.80	−3.0	10	4,460	nw.	23	e.	21	7	5	19	6.7	0.0	0.0
West Gulf States							48.3	−2.1										75	2.63	−0.4										5.8		
Shreveport	249	77	93	29.91	30.15	+.06	46.7	−2.4	67	9	54	27	17	39	24	43	39	80	3.80	−0.4	9	3,501	se.	28	w.	4	12	7	12	5.2	0.0	0.0
Bentonville	1,303	11	44	28.75	30.15	+.02	37.6	+0.1	63	9	46	17	17	30	29				2.58		9	2,922	nw.	16	s.	24	20	5	6		6.4	T.
Fort Smith	457	79	94	29.67	30.16	+.03	42.0	−0.1	64	11	50	24	27	34	28	37	33	75	2.70	−0.1	5	4,643	e.	23	e.	14	12	11	8	4.8	T.	0.0
Little Rock	357	136	153	29.78	30.17	+.03	42.3	−1.9	64	9	50	25	16	35	24	37	30	67	2.28	−1.9	7	5,125	nw.	24	ne.	5	13	4	14	5.1	T.	0.0
Austin	605	136	148	29.53	30.18		49.1	−1.9	72	14	59	25	17	39	31	43	38	73	3.85	+1.2	7	5,003	n.	31	n.	15	10	9	12	5.7	0.0	0.0
Brownsville	57	83	100	30.09	30.15		58.2	−3.0	81	11	66	36	23	51	25	53	50	80	0.42	−1.1	9	5,802	nw.	28	se.	4	6	7	18	7.1	0.0	0.0
Corpus Christi	20	11	78	30.15	30.17	+.05	55.3	−2.7	77	11	62	33	23	49	26	51	48	79	0.71	−0.7	10	5,986	n.	30	n.	21	2	8	21	7.8	0.0	0.0
Dallas	512	220	227	29.62	30.18		45.6		67	1	54	24	22	38	28				1.95	−0.4	6	7,184	w.	36	w.	15	16	7	8	3.9	2.4	0.0
Fort Worth	670	106	114	29.45	30.18	+.06	47.4	−0.1	71	14	57	23	22	38	36	42	38	75	2.08	+0.2	6	4,502	nw.	26	s.	14	14	7	10	4.5	1.5	0.0
Galveston	54	106	114	30.13	30.19	+.07	52.8	−3.6	69	11	58	37	23	48	19	49	46	81	3.26	−0.5	8	6,857	nw.	30	nw.	15	6	8	17	6.9	0.0	0.0
Groesbeck	461	11	56	29.67	30.17		46.0		69	14	54	28	22	38	27				1.96	−1.2	8	5,807	n.	27	nw.	5	7	8	16	6.1	0.0	0.0
Houston	138	292	314	30.03	30.18		50.8	−3.6	71	14	58	33	23	44	21				4.07	−0.2	7	8,340	n.	32	nw.	28	8	8	15	6.5	0.0	0.0
Palestine	510	64	72	29.64	30.18	+.06	47.1	−2.8	67	14	55	26	22	39	28	42	37	75	3.08	−0.6	7	4,281	nw.	23	nw.	15	12	5	14	5.4	0.0	0.0
Port Arthur	34	58	66	30.13	30.17		51.5		73	11	58	34	23	45	21				5.12	−0.1	8	5,384	n.	28	sw.	4	10	4	17	6.5	0.0	0.0
San Antonio	693	242	301	29.43	30.16	+.05	51.0	−2.7	73	4	60	29	17	42	27	44	39	68	0.88	−0.7	8	6,514	n.	30	nw.	4	10	13	8	5.3	0.0	0.0
Taylor	571	38	51	29.59	30.20	+.09	48.1	−2.5	71	14	58	29	17	39	32				3.22	+0.9	8	4,558	nw.	24	nw.	15	12	6	13	5.5	0.0	0.0

[1] Precipitation complete. Otherwise for 26 days, 1-6 and 12-31.

TABLE 1.—*Climatological data for Weather Bureau stations, December, 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 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									In.	In.
Ohio Valley and Tennessee							**34.1**	**−2.4**										**78**	**1.78**	**−1.7**										**6.9**		
Chattanooga	762	190	215	29.32	30.16	0.00	39.4	−3.9	61	9	46	23	24	33	28	35	30	71	3.66	−1.5	10	4,939	sw.	25	nw.	30	10	4	17	6.0	3.1	0.0
Knoxville	995	102	111	29.06	30.15	−.01	36.8	−3.5	61	4	43	20	31	31	26	34	31	80	2.30	−2.2	10	3,978	ne.	20	sw.	29	8	5	18	6.7	7.2	0.0
Memphis	399	76	97	29.73	30.16	+.01	41.0	−2.6	62	9	47	23	22	35	23	36	31	72	2.81	−1.7	11	5,136	sw.	24	nw.	23	10	9	12	5.5	0.7	0.0
Nashville	546	168	191	29.58	30.18	+.03	38.2	−2.8	62	9	45	20	24	31	29	34	29	74	2.09	−2.1	9	5,545	nw.	26	se.	5	10	9	12	5.7	3.3	0.0
Lexington	989	193	230	29.06	30.17	+.03	32.2	−3.6	54	4	38	12	2	26	24	----	----	----	1.79	−2.0	9	8,292	sw.	27	nw.	30	10	7	14	6.0	3.6	1.0
Louisville	525	188	234	29.56	30.16	+.02	34.6	−3.0	59	4	40	15	30	29	27	32	27	76	1.87	−1.9	8	6,694	sw.	32	nw.	29	6	9	16	6.7	2.2	T.
Evansville	431	76	116	29.67	30.16	+.03	35.3	−1.8	61	9	41	16	2	29	29	32	27	74	1.69	−1.8	8	5,823	sw.	22	nw.	29	7	7	17	6.5	4.7	T.
Indianapolis	822	194	230	29.20	30.12	.00	31.1	−1.1	55	9	37	10	2	25	24	29	25	80	0.80	−2.2	8	7,319	sw.	28	nw.	29	9	3	19	6.8	2.9	0.0
Royal Center	736	11	55	29.28	30.11	------	28.8	------	50	9	35	7	2	23	25	----	----	----	0.24	−2.4	11	6,945	w.	28	w.	11	8	4	19	6.9	1.8	T.
Terre Haute	575	96	129	29.49	30.13	------	32.6	------	57	9	39	12	2	26	26	30	26	80	0.75	−2.2	8	5,947	s.	25	n.	15	8	5	18	6.6	1.8	0.0
Cincinnati	627	11	51	29.43	30.14	+.01	32.6	−0.8	56	11	38	12	2	27	24	30	27	81	1.20	−1.8	8	5,047	sw.	24	nw.	29	5	8	18	6.9	4.0	1.5
Columbus	822	216	230	29.21	30.11	−.01	31.6	−0.8	52	9	37	11	2	26	25	29	25	78	0.80	−1.9	5	7,373	sw.	34	nw.	1	5	3	23	7.7	2.0	0.5
Dayton	899	137	173	29.13	30.12	------	31.6	−1.0	54	9	37	12	16	26	24	29	26	82	0.97	−1.8	10	6,103	sw.	20	sw.	29	3	6	22	7.9	4.4	0.7
Elkins	1,947	59	67	28.01	30.16	+.04	28.2	−4.5	56	4	37	−7	25	20	41	26	23	84	3.63	+0.2	18	3,604	w.	23	nw.	1	4	6	21	8.1	13.9	4.5
Parkersburg	637	77	82	29.47	30.14	.00	33.4	−1.8	56	10	39	14	2	28	33	30	26	77	2.11	−0.9	11	3,795	sw.	23	nw.	1	3	6	22	8.2	1.6	T.
Pittsburgh	842	353	410	29.17	30.11	.00	31.5	−2.7	50	10	37	8	2	26	26	29	25	77	1.72	−1.1	14	7,243	w.	34	w.	30	3	6	22	8.0	2.8	0.5
Lower Lake Region							**29.3**	**+0.2**										**80**	**1.26**	**−1.5**										**8.4**		
Buffalo	767	247	280	29.17	30.03	−.03	29.3	−0.5	46	11	34	5	2	25	27	27	24	81	1.93	−1.4	19	11,374	w.	60	w.	9	0	5	26	8.9	14.9	2.7
Canton	448	10	61	29.53	30.02	------	23.9	+1.2	42	12	30	−8	2	17	33	----	----	----	0.83	−1.9	16	5,858	sw.	30	sw.	26	2	5	24	8.4	7.9	1.8
Ithaca	836	74	100	29.11	30.05	------	28.4	−0.6	44	10	34	6	17	23	24	26	22	79	1.79	−0.6	15	6,356	nw.	28	nw.	12	1	6	24	8.5	17.1	6.4
Oswego	335	71	85	29.66	30.04	−.02	28.4	−0.6	43	7	34	7	2	23	23	27	23	78	1.14	−2.4	18	7,277	s.	29	nw.	1	0	2	29	9.4	8.9	4.1
Rochester	523	86	102	29.47	30.06	.00	29.4	+0.1	49	11	34	5	16	24	23	27	23	76	1.71	−1.0	18	5,507	sw.	30	w.	9	0	2	29	9.4	11.7	1.2
Syracuse	596	65	79	29.38	30.04	−.03	29.2	+0.9	45	12	34	5	16	24	21	----	----	----	1.80	−1.3	16	4,500	s.	19	nw.	12	2	4	25	8.6	8.7	2.2
Erie	714	130	166	29.26	30.06	−.01	30.8	−1.1	47	11	35	9	17	27	25	28	25	79	1.61	−1.2	15	10,098	s.	38	se.	6	0	4	27	8.7	9.8	1.8
Cleveland	762	267	337	29.22	30.07	−.02	32.0	+0.8	53	11	37	10	2	27	23	29	24	74	0.89	−1.6	15	9,996	sw.	50	w.	30	1	6	24	8.6	5.0	1.0
Sandusky	629	5	67	29.38	30.08	−.01	31.0	−0.2	52	11	36	8	2	26	21	----	----	----	0.84	−1.4	16	6,114	sw.	27	nw.	1	3	7	21	8.0	3.5	0.2
Toledo	628	208	243	29.39	30.09	+.01	30.4	0.0	52	11	36	7	16	25	23	27	24	78	0.83	−1.5	15	8,505	sw.	32	w.	9	8	5	18	7.1	4.0	0.2
Fort Wayne	856	100	119	29.14	30.10	------	29.8	+2.5	52	11	35	8	2	25	22	27	24	83	0.61	−2.0	12	8,549	sw.	27	nw.	1	6	4	21	7.4	2.7	0.5
Detroit	730	218	258	29.26	30.08	+.01	29.6	+0.3	52	9	35	5	2	24	25	28	26	88	1.10	−1.2	13	6,823	sw.	28	sw.	31	6	3	22	7.8	9.1	0.9
Upper Lake Region							**25.7**	**+1.0**										**83**	**1.08**	**−1.1**										**7.8**		
Alpena	609	13	92	29.34	30.03	+.01	25.4	+0.6	44	9	31	−4	2	19	26	24	21	83	0.86	−1.2	14	6,816	sw.	29	nw.	31	3	3	25	8.5	11.3	4.2
Escanaba	612	54	60	29.35	30.04	+.01	24.0	+1.6	50	9	30	−3	1	18	24	22	18	80	0.20	−1.6	7	6,198	nw.	32	n.	29	7	7	17	6.9	4.0	1.5
Grand Haven	632	54	89	29.34	30.05	.00	28.8	−0.5	48	10	34	6	17	23	25	27	25	87	1.69	−0.8	18	7,625	w.	32	w.	31	4	1	26	8.4	24.1	4.0
Grand Rapids	707	70	244	29.29	30.08	+.03	28.6	+0.1	49	10	34	8	2	24	21	26	23	79	1.34	−1.2	14	7,458	sw.	27	s.	2	4	3	24	8.2	18.0	2.0
Houghton	668	64	99	29.28	30.03	+.01	22.9	+1.1	42	8	29	−4	24	17	33	----	----	----	2.19	−0.9	13	6,147	w.	28	w.	28	2	3	26	8.8	22.5	13.5
Lansing	878	6	88	29.08	30.06	------	26.6	−0.6	48	9	33	−2	2	20	30	25	24	93	0.91	−1.2	13	5,513	sw.	22	nw	29	4	6	21	7.9	7.9	2.8
Ludington	637	60	66	29.33	30.04	------	28.6	+0.2	46	10	34	8	15	24	20	27	24	81	1.03	−1.4	14	7,252	w.	34	sw.	25	1	7	23	8.5	12.6	2.8
Marquette	734	77	111	29.19	30.02	.00	24.6	+2.0	48	9	30	−3	1	19	24	22	20	83	1.97	−0.7	17	6,932	w.	34	sw.	26	3	2	26	8.5	19.6	13.2
Port Huron	638	70	120	29.33	30.05	−.01	27.7	+0.1	51	9	33	1	16	22	25	25	23	85	2.02	0.0	11	7,096	nw.	27	nw.	30	4	4	23	7.9	23.3	4.5
Sault Sainte Marie	614	11	52	29.30	30.03	+.03	22.0	+1.5	40	9	28	−8	15	16	25	21	20	90	1.32	−1.0	19	5,299	sw.	27	nw.	31	6	4	21	7.3	15.0	10.7
Chicago	673	7	131	29.35	30.10	+.02	29.7	+0.9	51	9	35	7	2	24	27	27	23	76	0.27	−1.8	6	7,066	nw.	28	nw.	29	6	8	17	6.8	3.2	0.0
Green Bay	617	109	141	29.36	30.05	+.01	23.8	+1.5	54	9	30	−2	1	17	26	22	19	82	0.33	−1.4	6	6,598	sw.	26	nw.	29	5	5	21	7.7	3.2	0.8
Milwaukee	681	125	221	29.31	30.07	+.01	27.8	+1.7	54	9	34	−2	2	22	31	25	22	81	0.79	−0.9	10	8,634	w.	33	nw.	31	7	5	19	6.9	9.0	3.3
Duluth	1,133	5	47	28.79	30.07	+.02	19.0	+3.1	50	9	26	−14	1	12	32	17	15	84	0.20	−1.0	6	7,673	nw.	48	nw.	29	5	7	19	7.3	2.0	0.4
North Dakota							**20.9**	**+8.5**										**86**	**0.13**	**−0.4**										**6.2**		
Moorhead	940	50	58	29.03	30.09	+.01	19.8	+8.3	42	10	27	−12	1	12	32	19	17	90	0.10	−0.6	6	5,580	s.	27	nw.	30	6	7	18	7.3	1.2	0.1
Bismarck	1,674	8	57	28.24	30.10	+.02	22.8	+8.1	46	8	30	−1	1	15	27	21	17	78	0.19	−0.4	3	5,552	nw.	36	nw.	10	12	6	13	5.6	2.0	1.9
Devils Lake	1,478	11	44	28.42	30.06	.00	17.0	+7.5	38	8	26	−18	1	8	34	16	15	94	0.23	−0.3	8	5,878	w.	27	nw.	28	8	10	13	6.5	3.0	4.1
Ellendale	1,457	10	56	28.48	30.10	------	21.6	------	43	8	30	−6	1	13	29	----	----	----	0.07	−0.4	5	8,881	nw.	35	nw.	10	6	10	15	6.9	1.1	0.2
Grand Forks	833	12	67	------	------	------	16.7	------	40	8	26	−17	1	8	34	15	----	----	0.79	------	11	------	nw.	42	nw.	31	7	12	12	----	8.4	6.5
Williston	1,878	41	48	28.03	30.08	+.02	24.0	+10.2	46	8	31	3	1	17	26	22	19	82	0.05	−0.5	2	4,649	w.	27	w.	10	14	8	9	4.7	0.5	0.5
Upper Mississippi Valley							**28.5**	**+1.7**										**81**	**0.59**	**−1.0**										**6.2**		
Minneapolis	918	102	208	29.05	30.07	------	23.0	+3.4	45	9	29	−11	1	17	31	----	----	----	0.06	−0.9	2	6,770	nw.	36	nw.	29	7	5	19	7.3	0.7	T.
St. Paul	837	236	261	29.15	30.09	+.01	22.6	+3.6	47	9	29	−11	1	16	32	----	----	----	0.19	−0.9	7	6,829	nw.	35	nw.	29	8	5	18	7.0	3.2	0.3
La Crosse	714	11	48	29.28	30.08	.00	24.5	+2.2	49	9	31	−3	1	18	31	22	20	86	0.26	−1.1	8	3,014	nw.	19	nw.	29	10	2	19	6.6	2.5	T.
Madison	974	70	78	28.99	30.09	+.01	24.4	+1.6	50	9	30	−2	2	18	31	23	21	87	0.68	−1.0	9	5,652	nw.	24	ne.	14	7	6	18	6.7	4.0	1.2
Wausau	1,247	4	62	------	30.07	------	20.8	------	49	9	28	−5	1	14	29	----	----	----	0.28	−1.2	5	3,807	w.	18	nw.	29	9	3	19	----	8.1	1.5
Charles City	1,015	10	51	29.00	30.12	+.02	23.0	+2.6	48	9	30	0	1	16	29	21	19	86	0.34	−1.0	5	3,895	nw.	20	nw.	20	12	3	16	6.0	2.5	1.3
Davenport	606	71	79	29.44	30.13	+.03	28.0	+0.9	52	10	34	7	31	22	28	26	22	82	0.97	−0.5	6	6,468	w.	40	nw.	29	9	7	15	6.3	4.6	T.
Des Moines	861	5	99	29.19	30.13	+.02	28.6	+2.6	61	9	36	10	16	22	28	26	22	77	0.36	−0.9	4	6,036	nw.	30	nw.	29	9	6	16	6.5	2.0	T.
Dubuque	700	81	96	29.33	30.11	+.01	25.4	+0.7	52	9	32	0	24	19	34	24	22	87	1.24	−0.2	7	3,756	nw.	23	nw.	29	9	6	16	6.2	7.6	1.9
Keokuk	614	64	78	29.45	30.16	+.04	31.6	+2.0	61	9	38	13	30	25	26	28	23	74	0.60	−0.8	4	5,053	sw.	30	nw.	29	9	9	13	5.6	0.7	0.0
Cairo	358	87	93	29.76	30.16	+.01	37.0	−0.8	62	9	43	19	16	31	26	33	29	76	1.97	−1.4	11	5,528	sw.	24	n.	15	8	10	13	5.9	3.5	0.0
Peoria	609	11	45	29.45	30.14	+.03	29.8	+1.7	56	10	37	10	30	23	27	27	24	84	0.29	−1.5	3	4,659	nw.	23	w.	29	8	10	13	5.8	1.2	0.0
Springfield, Ill.	636	5	191	29.42	30.13	+.01	32.2	+0.5	56	9	38	13	30	26	25	29	25	78	0.32	−1.9	3	8,305	nw.	42	nw.	29	10	6	15	6.1	0.6	0.0
Hannibal	534	74	109	29.54	30.14	+.02	33.2	+1.7	62	9	40	15	30	27	24	----	----	----	0.46	−1.1	4	5,777	sw.	24	nw.	29	11	7	13	5.5	0.5	0.0
St. Louis	568	265	303	29.52	30.14	+.01	35.8	+1.1	65	9	43	18	30	29	24	31	26	70	0.90	−1.3	3	8,028	nw.	28	sw.	24	13	5	13	5.3	0.5	0.0
Missouri Valley							**31.5**	**+3.8**										**76**	**0.44**	**−0.6**										**5.2**		
Columbia, Mo.	784	6	84	29.28	30.14	+.02	34.2	+1.0	62	9	41	16	17	27	28	----	----	----	0.48	−1.4	4	5,192	sw.	25	nw.	29	13	5	13	5.2	T.	0.0
Kansas City	963	161	181	29.09	30.16	+.04	35.2	+2.7	63	9	42	17	16	28	35	31	26	74	0.95	−0.4	3	6,664	nw.	30	nw.	29	13	9	9	4.6	0.3	0.0
St. Joseph	967	11	49	29.08	30.15	------	32.6	------	61	9	40	15	16	26	31	29	25	76	0.70	−0.3	4	4,933	nw.	24	nw.	29	14	7	10	4.8	0.8	0.0
Springfield, Mo.	1,324	98	104	28.72	30.16	+.03	35.2	−1.0	60	9	42	14	16	29	23	31	27	77	1.30	−1.0	10	6,229	nw.	24	nw.	29	19	3	9	3.7	4.4	0.0
Iola	984	11	50	29.08	30.17	+.05	35.5	+1.6	63	9	44	16	30	27	33	----	----	----	0.98	−0.4	6	3,834	nw.	17	sw.	24	13	9	9	4.7	0.4	0.0
Topeka	987	92	107	------	------	------	34.1	+2.1	66	9	42	18	16	27	34	----	----	----	0.37	−0.6	2	5,589	w.	27	nw.	29	17	5	9	4.2	0.8	0.0
Lincoln	1,189	11	81	28.85	30.16	+.04	31.8	+4.2	64	9	40	14	21	24	31	28	24	77	0.12	−0.7	4	5,658	w.	28	nw.	29	8	10	13	5.9	1.4	0.0
Omaha	1,105	115	122	28.93	30.16	+.05	31.1	+4.7	60	9	38	13	1	24	27	27	22	72	0.15	−0.8	3	4,979	nw.	29	nw.	29	12	5	14	5.5	1.3	T.
Valentine	2,598	47	54	27.36	30.18	+.08	27.8	+3.2	52	8	37	9	20	19	32	24	21	82	0.18	−0.4	6	5,390	w.	30	sw.	16	13	7	11	5.2	1.4	0.1
Sioux City	1,135	94	164	28.90	30.16	+.04	28.6	+5.5	58	9	36	8	1	22	34	25	21	78	0.30	−0.6	5	6,860	nw.	31	nw.	20	9	9	13	6.1	3.3	T.
Huron	1,306	59	74	28.69	30.14	+.04	26.4	+7.7	53	9	35	6	1	18	38	23	18	76	0.01	−0.6	1	5,701	w.	28	w.	10	12	3	16	5.7	0.1	0.0
Pierre	1,572	70	75	28.42	30.14	+.04	29.0	+7.2	53	8	38	10	1	20	34	25	20	75	0.02	−0.5	2	4,892	nw.	26	nw.	28	11	9	11	5.5	0.1	0.0
Yankton	1,233	49	57	28.79	30.16	+.05	29.4	+6.6	64	9	37	10	30	22	39	----	----	----	0.11	−0.7	2	4,834	nw.	22	nw.	29	12	3	16	5.9	1.1	T.

TABLE 1.—*Climatological data for Weather Bureau stations, December, 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 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							27.2	+3.3										73	0.18	−0.6										4.7		
Billings	3,140	5					34.0		60	9	47	8	31	21	38				T.		0		nw.				21	5	5		T.	
Havre	2,505	11	44	27.41	30.12	+0.07	29.2	+8.8	50	8	38	7	21	20	30	26	22	76	0.26	−0.4	4	7,506	sw.	26	sw.	9	15	11	5	4.3	2.1	0.3
Helena	4,124	89	113	25.91	30.25	+.12	29.4	+5.2	49	9	36	8	26	22	30	24	17	62	T.	−0.8	0	5,393	sw.	28	sw.	23	8	13	10	5.5	T.	0.0
Kalispell	2,973	48	56	27.14	30.32	+.25	24.4	−0.5	41	14	30	3	30	19	18	24	22	89	0.35	−1.1	7	1,981	nw.	17	w.	16	1	7	23	8.4	5.2	5.7
Miles City	2,371	48	55	27.55	30.18	+.08	30.4	+9.4	58	8	40	12	31	20	31	26	22	76	0.31	−0.3	7	3,287	s.	18	nw.	10	15	9	7	4.5	1.4	T.
Rapid City	3,259	50	58	26.66	30.19	+.10	32.8	+5.9	64	8	43	10	16	23	32	27	21	68	0.21	−0.2	2	4,722	w.	24	n.	28	11	10	10	4.9	2.5	0.0
Cheyenne	6,088	84	101	24.03	30.21	+.12	28.9	+0.4	61	8	40	8	19	18	38	21	12	54	0.12	−0.4	4	8,059	w.	32	w.	23	18	6	7	3.5	1.2	T.
Lander	5,372	60	68	24.72	30.31	+.16	21.6	+1.2	51	10	34	−4	27	9	36	17	13	79	0.10	−0.6	3	1,551	sw.	11	se.	18	21	6	4	3.1	1.4	T.
Sheridan	3,790	10	47	26.16	30.20		29.0		61	8	44	6	25	14	41	23	17	68	0.03	−0.6	2	2,488	nw.	20	nw.	30	15	12	4	4.1	0.3	0.0
Yellowstone Park	6,241	11	48	23.99	30.42	+.26	18.6	−3.0	39	9	28	−3	27	10	25	15	10	74	0.27	−1.2	3	3,866	sw.	25	w.	9	10	10	11	5.3	7.1	11.0
North Platte	2,821	11	51	27.15	30.19	+.09	29.4	+2.7	48	8	38	14	19	21	28	25	22	82	0.17	−0.4	3	4,081	w.	23	n.	12	20	3	8	3.7	1.6	T.
Middle Slope							33.9	+0.4										71	1.22	+0.3										3.9		
Denver	5,292	106	113	24.78	30.21	+.13	32.2	−0.1	61	8	44	9	19	21	40	25	16	56	0.62	−0.1	4	4,611	s.	20	w.	12	14	13	4	3.6	10.6	0.1
Pueblo	4,685	80	86	25.33	30.18	+.10	29.7	−1.8	62	9	46	3	20	14	49	22	14	59	0.13	−0.4	2	2,955	nw.	18	nw.	12	18	11	2	3.1	1.7	0.0
Concordia	1,392	50	58	28.67	30.20	+.09	32.4	+1.7	57	10	40	14	21	25	32	28	25	78	0.10	−0.5	5	4,408	w.	21	nw.	29	16	4	11	4.4	1.1	0.0
Dodge City	2,509	11	51	27.53	30.23	+.13	33.2	+0.6	59	8	43	11	20	23	32	28	25	81	0.57	0.0	5	5,169	nw.	19	se.	17	19	4	8	3.3	5.0	T.
Wichita	1,358	139	158	28.69	30.17	+.06	35.6	+1.0	58	2	43	19	21	28	33	32	28	78	0.58	−0.4	5	6,338	n.	30	s.	24	16	6	9	3.9	4.4	0.0
Broken Arrow	765	11	56	29.33	30.18		39.4		63	9	48	22	30	31	30				3.01	+1.5	8	7,493	nw.	30	n.	5	15	6	10	4.5	2.4	0.0
Oklahoma City	1,214	10	47	28.86	30.18	+.07	40.4	+1.1	62	9	49	24	21	32	28	35	30	75	3.52	+2.0	7	5,477	s.	22	nw.	5	17	3	11	4.4	2.1	0.0
Southern Slope							42.0	−2.0										67	0.96	+0.1										3.9		
Abilene	1,738	10	52	28.34	30.20	+.09	42.9	−3.1	67	10	53	16	22	33	30	37	32	74	2.43	+1.1	4	5,064	s.	27	s.	17	14	4	13	5.0	6.0	0.0
Amarillo	3,676	10	49	26.35	30.18	+.09	37.6	+0.6	61	8	48	17	28	27	32	29	23	64	0.46	−0.3	4	4,865	nw.	21	nw.	14	20	4	7	3.2	4.2	T.
Del Rio	944	64	71	29.14	30.15	+.05	49.5	−2.7	71	14	59	27	23	40	32	43	36	66	0.70	0.0	3	4,685	se.	28	nw.	21	10	11	10	5.0	0.0	0.0
Roswell	3,566	75	85	26.47	30.18	+.11	38.2	−3.0	62	10	51	18	26	26	35	31	24	64	0.26	−0.4	3	3,856	n.	33	nw.	14	22	6	3	2.5	0.5	0.0
Southern Plateau							40.6	−1.2										50	0.10	−0.6										2.1		
El Paso	3,778	152	175	26.28	30.15	+.12	43.0	−1.9	63	3	53	21	23	33	31	35	24	54	0.43	−0.1	5	5,413	nw.	29	ne.	14	23	4	4	2.5	T.	0.0
Sante Fe	7,013	38	53	23.26	30.22	+.16	27.8	−2.9	50	12	39	5	22	16	32	20	11	55	0.06	−0.7	1	3,664	ne.	22	n.	22	20	8	3	2.6	1.5	T.
Flagstaff	6,907	10	59	23.38	30.14	+.08	28.3	−0.1	56	11	44	2	21	13	45	22		69	0.11		2	4,566	e.	31	nw.	14	17	13	1		T.	T.
Phoenix	1,108	10	107	28.90	30.07	+.03	52.2	+0.2	74	1	67	28	20	38	37	41	27	43	T.	−1.0	0	3,024	e.	21	e.	23	23	5	3	2.1	0.0	0.0
Yuma	141	9	54	29.95	30.10	+.05	53.8	−1.4	75	9	67	30	27	41	35	41	22	30	0.00	−0.5	0	4,300	n.	24	n.	21	27	3	1	1.1	0.0	0.0
Independence	3,957	6	27	26.10	30.23	+.11	38.2	−1.1	68	13	55	10	22	22	41	26			0.00	−0.8	0		nw.				23	6	2		0.0	0.0
Middle Plateau							25.3	−5.0										69	0.14	−0.8										3.5		
Reno	4,532	74	81	25.62	30.31	+.16	31.4	−2.3	60	12	45	9	25	18	35	26	18	61	0.00	−1.0	0	2,086	w.	25	w.	13	19	8	4	3.0	T.	0.0
Tonopah	6,090	12	20				32.2		52	10	40	12	20	25	20	25	14	47	T.		0		nw.									
Winnemucca	4,344	18	56	25.81	30.36	+.18	25.8	−4.2	55	11	40	−4	20	11	39	21	17	76	0.06	−1.0	1	4,172	ne.	22	nw.	16	17	11	3	2.8	0.7	0.0
Modena	5,473	10	43	24.75	30.32	+.20	20.6	−7.5	50	13	32	−4	22	9	44	17	14	81	T.	−0.8	0	4,066	e.	24	nw.	13	18	8	5	3.4	T.	0.0
Salt Lake City	4,360	163	203	25.85	30.40	+.25	22.5	−9.4	36	4	28	6	31	17	21	21	19	84	0.54	−0.9	5	2,675	nw.	18	w.	17	13	7	11	4.9	8.5	5.3
Grand Junction	4,602	60	68	25.55	30.27	+.17	26.1	−1.4	48	9	38	6	30	14	31	21	14	66	0.11	−0.5	3	3,219	se.	18	se.	31	16	8	7	3.4	1.2	0.0
Northern Plateau							25.8	−5.6										85	0.79	−0.9										6.6		
Baker	3,471	48	53	26.69	30.43	+.27	21.0	−6.3	40	13	30	−2	30	12	26	19	16	82	0.64	−1.1	10	3,472	se.	16	se.	22	10	8	13	5.5	6.7	1.5
Boise	2,739	79	87	27.48	30.48	+.28	23.9	−8.2	41	11	32	4	30	16	25	22	19	82	0.54	−1.0	5	1,948	se.	14	se.	7	7	14	10	5.7	4.6	1.2
Lewiston	757	40	48	29.52	30.37	+.24	32.1	−3.6	48	5	38	15	30	26	18				0.76	−0.7	8	2,558	e.	15	w.	16	6	9	16	6.6	2.2	0.0
Pocatello	4,477	60	68	25.69	30.46	+.27	17.2	−10.5	37	13	26	−8	27	9	26	16	13	84	1.22	0.0	5	4,380	se.	26	sw.	13	13	7	11	5.3	16.5	12.0
Spokane	1,929	101	110	28.22	30.36	+.28	28.2	−2.3	38	5	32	12	25	24	15	28	26	90	0.86	−1.3	10	2,302	n.	14	s.	17	0	8	23	8.5	8.6	2.0
Walla Walla	991	57	65	29.24	30.35	+.23	32.7	−2.8	52	11	37	20	31	29	21	31	29	89	0.74	−1.3	11	2,019	s.	15	w.	18	1	10	20	8.2	0.5	0.0
North Pacific Coast Region							41.3	+0.7										83	2.45	−3.8										7.9		
North Head	211	11	56	29.95	30.18	+.15	45.6	+1.5	54	1	49	34	26	42	14	42	39	79	4.90	−4.6	20	10,248	se.	58	s.	8	4	8	19	7.2	0.0	0.0
Port Angeles	29	8	53		30.16		41.8		56	2	46	30	29	37	17				0.99	−3.8	14	3,603	s.	23	sw.	16	2	9	20		0.0	0.0
Seattle	125	215	250	30.06	30.19	+.18	43.1	+1.4	55	11	48	27	28	38	14	40	36	77	1.85	−3.8	14	4,608	se.	33	s.	9	3	14	14	6.7	0.0	0.0
Tacoma	194	172	201	29.98	30.19	+.18	40.8	+0.2	56	11	46	25	27	35	21				1.97	−4.7	16	3,659	s.	27	s.	22	0	7	24	8.5	0.0	0.0
Tatoosh Island	86	9	53	30.04	30.13	+.17	46.4	+2.5	56	8	49	39	28	44	11	44	42	88	5.84	−7.5	20	12,718	e.	50	e.	12	3	4	24	8.4	0.0	0.0
Yakima	1,076	58	67	29.17	30.36		31.6	+0.9	48	17	36	19	31	28	21	29	27	83	0.26	−1.1	7	1,829	se.	21	nw.	17	2	3	26	8.9	0.9	T.
Medford	1,329	29	58	28.80	[1]30.26		36.2		60	12	44	16	28	28	26	35	33	88	1.06	−2.0	12		nw.	32	se.	12	2	7	22	8.1	0.2	0.0
Portland, Oreg.	153	68	106	30.08	30.24	+.17	40.4	−0.8	55	9	45	28	31	36	19	38	34	78	3.16	−3.6	16	4,071	e.	20	e.	30	3	6	22	8.0	T.	0.0
Roseburg	510	75	99	29.67	30.24	+.13	41.0	−0.8	62	12	48	26	22	34	22	39	37	88	2.02	−3.3	14	1,752	e.	19	s.	31	0	14	17	7.5	0.0	0.0
Middle Pacific Coast Region							48.3	−0.1										71	1.21	−2.9										4.1		
Eureka	62	73	89	30.15	30.22	+.10	48.0	−0.2	64	12	56	34	24	40	26	46	44	86	2.50	−3.8	10	3,071	se.	31	se.	31	13	6	12	5.0	0.0	0.0
Red Bluff	330	5	58	29.84	30.20	+.06	47.2	+1.1	68	7	59	20	24	35	35	39	29	55	1.51	−2.9	6	3,590	nw.	25	s.	31	16	8	7	4.2	0.0	0.0
Sacramento	69	106	117	30.12	30.19	+.05	46.0	−0.2	64	2	57	26	28	35	28	43	39	75	0.56	−2.5	3	3,573	nw.	28	nw.	16	21	6	4	3.0	0.0	0.0
San Francisco	155	208	243	30.00	30.17	+.05	52.1	+0.8	63	16	58	39	24	46	15	46	40	68	0.98	−3.0	3	3,686	n.	32	sw.	31	13	11	7	4.5	0.0	0.0
San Jose	141	12	110	30.03	30.19		48.0	−1.9	69	10	60	24	24	36	34				0.49	−2.1	3	3,304	nw.	29	se.	31	17	7	7	3.7	0.0	0.0
South Pacific Coast Region							54.6	+1.7										56	0.00	−2.0										2.9		
Fresno	327	89	98	29.83	30.20	+.07	46.6	+0.4	66	15	58	26	26	35	29	40	34	68	0.01	−1.4	1	2,316	nw.	13	se.	31	15	8	8	4.2	0.0	0.0
Los Angeles	338	159	191	29.74	30.10	+.03	60.1	+3.5	81	8	71	40	22	50	30	47	33	42	0.00	−2.6	0	3,258	ne.	13	ne.	26	25	5	1	2.0	0.0	0.0
San Diego	87	62	70	29.98	30.08	+.01	57.1	+1.1	76	14	67	41	22	47	27	48	40	58	0.00	−1.9	0	2,617	nw.	15	s.	26	22	5	4	2.5	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.88	29.96		77.2	+0.9	84	6	82	71	6	72	13				5.36	−0.1	21	6,695	e.	39	e.	26	13	17	1	4.3	0.0	0.0
Panama Canal																																
Balboa Heights	118	7	97		29.81		81.0		92	5	89	70	31	74	19			81	2.49		8	5,582	n.	25	n.	23	12	14	5	4.9	0.0	0.0
Cristobal	36	7	97		29.83		82.4		88	3	86	75	1	78	12	76	74	78	7.86		17	10,024	n.	33	nw.	9	7	20	4	5.1	0.0	0.0
Alaska																																
Fairbanks	455	11	44	[2]28.98	[2]29.54		0.1		31	5	8	−21	15	−8	34	0	−3	84	0.21		4	891	n.	9	ne.	4	5	7	19	6.9	5.0	11.5
Juneau	80	11	50	[2]29.58	[2]29.67		39.0		50	6	42	30	9	36	13	38	36	89	12.86		29	6,637	se.	34	e.	26	0	1	30	9.8	0.6	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[2]30.04	[2]30.08		74.1	+1.7	82	14	78	66	28	70	13	68	65	76	0.89	−3.1	15	6,176	e.	30	e.	22	10	15	6	4.9	0.0	0.0
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Yellowstone Park (January)	6,241	11	48	23.78	30.26	+.12	4.8	−12.8	37	31	14	−34	17	−5	36	2	−1	79	0.88	−0.7	12	4,213	sw.	30	s.	3	8	12	11	5.9	16.4	3.4

[1] Observations taken bi-hourly.

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

TABLE 2.—*Data furnished by the Canadian Meteorological Service, December, 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				32.5		39.6	25.5	52	10	9.19		7.0
Sydney, C. B. I	48	29.85	29.90	+0.01	30.4	+2.2	35.5	25.4	55	14	7.44	+2.81	37.7
Halifax, N. S	88	29.82	29.93	−.03	28.1	+0.5	34.7	21.5	53	6	7.13	+2.01	21.3
Yarmouth, N. S	65	29.80	29.87	−.11	31.0	+0.3	36.6	25.4	53	9	6.19	+1.42	23.2
Charlottetown, P. E. I	38	29.82	29.86	−.08	26.5	+2.2	32.0	21.0	50	6	4.67	+1.01	29.2
Chatham, N. B	28	29.84	29.88	−.06	17.9	+0.9	26.6	9.3	37	−11	1.84	−1.38	11.2
Father Point, Que	20												
Quebec, Que	296	29.68	30.02	+.01	19.6	+4.4	25.0	14.3	36	−10	3.40	−0.29	33.1
Doucet, Que	1,236												
Montreal, Que	187												
Ottawa, Ont	236												
Kingston, Ont	285	29.72	30.04	.00	26.9	+3.2	32.7	21.1	42	−6	1.51	−1.73	2.6
Toronto, Ont	379	29.62	30.05	.00	28.7	+1.7	33.7	23.8	45	1	1.16	−1.75	6.4
Cochrane, Ont	930				13.0		19.0	7.0	39	−23	1.98		17.6
White River, Ont	1,244	28.60	29.97	.00	13.3	+3.6	21.4	5.2	36	−29	1.36	−0.35	13.6
London, Ont	808												
Southampton, Ont	656												
Parry Sound, Ont	688	29.28	30.01	.00	23.5	+2.3	29.3	17.8	40	−13	4.46	−0.02	38.5
Port Arthur, Ont	644	29.29	30.02	+.03	18.6	+5.4	25.5	11.7	40	−12	0.62	−0.25	6.2
Winnipeg, Man	760	29.17	30.05	+.03	13.3	+9.2	19.7	7.0	38	−20	0.59	−0.32	5.9
Minnedosa, Man	1,690	28.13	30.03	+.01	15.8	+10.1	24.9	6.8	38	−24	0.22	−0.40	2.2
Le Pas, Man	860				13.5		23.9	3.2	38	−22	0.53		5.3
Qu'Appelle, Sask	2,115	27.66	29.99	−.01	19.6	+12.2	27.7	11.6	45	−17	0.34	−0.18	3.4
Moose Jaw, Sask	1,759				25.7		35.0	16.3	52	−7	0.15		0.7
Swift Current, Sask	2,392	27.38	29.98	−.01	26.2	+10.2	36.3	16.2	56	−2	0.25	−0.53	2.5
Medicine Hat, Alb	2,144												
Calgary, Alb	3,428												
Banff, Alb	4,521												
Prince Albert, Sask	1,450	28.36	29.99	−.02	19.8	+17.0	28.7	10.9	40	−17	0.15	−0.59	1.3
Battleford, Sask	1,592	28.26	30.08	+.09	19.9	+14.5	28.9	10.9	40	−7	0.15	−0.17	1.5
Edmonton, Alb	2,150												
Kamloops, B. C	1,262												
Victoria, B. C	230	29.91	30.17	+.20	43.1	+1.9	46.7	39.6	52	33	0.78	−7.20	0.0
Barkerville, B. C	4,180												
Estevan Point, B. C	20												
Prince Rupert, B. C	170												
Hamilton, Ber	151												

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Cape Race, N. F	99				39.8		46.6	32.9	55	13	5.92		6.0
Father Point, Que	20	30.00	30.02	+.06	33.6	+4.7	39.5	27.7	55	10	2.34	−0.77	3.8
Doucet, Que	1,236				29.9		36.3	23.5	50	−15	0.64		5.6
Cochrane, Ont	930				29.9		36.3	23.5	55	−9	1.70		9.1
Calgary, Alb	3,428	26.42	30.08	+.10	30.8	+5.0	41.9	19.7	62	−12	1.27	+0.39	12.7
Kamloops, B. C	1,262	28.85	30.18	+.22	36.6	+3.2	40.5	32.8	62	20	0.83	−0.63	5.0
Estevan Point, B. C	20				44.1		49.8	38.4	58	27	8.18		0.0
Prince Rupert, B. C	170				42.2		46.2	38.2	54	28	7.31		T.