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.

TABLE 1.—*Condensed climatological summary of temperature and precipitation by sections, February 1938*

[For description of tables and charts, see REVIEW, January, p. 27]

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	55.5	+6.7	Greensboro	85	11	Haleyville	18	1	1.90	−3.31	Seven Hills	3.20	Hytop	0.61
Arizona	45.6	−.5	Benson	86	4	2 stations	−11	18	1.75	+.43	McNary	5.05	Ajo	.31
Arkansas	50.9	+7.3	Wilson	87	[1] 10	Gravette	8	1	6.08	+2.76	Devils Knob	10.79	Yancopin	2.37
California	45.7	−2.4	Palm Springs	89	25	Boca	−26	17	9.26	+4.74	Inskip	38.05	Greenland Ranch	.36
Colorado	30.5	+3.2	Lamar	76	12	Spicer	−30	18	.99	.00	Pagosa Springs (near).	10.78	Byers	.03
Florida	63.5	+2.9	2 stations	88	[1] 6	Mason	24	1	1.36	−1.79	DeFuniak Springs	4.38	Lake Placid	.00
Georgia	54.7	+6.1	Stillmore	84	14	2 stations	17	[1] 2	1.12	−3.71	Dalton	2.18	Fargo	.33
Idaho	31.3	+3.3	Bruneau	69	27	Warren	−29	16	1.82	+.09	Sun Valley	6.62	Mountain Home	T
Illinois	39.0	+9.3	Sparta	78	12	3 stations	4	1	2.41	+.50	Waterloo	4.93	Keithsburg	1.01
Indiana	39.2	+8.7	Shoals	83	13	Gary	2	1	2.82	+.41	Lafayette	4.38	2 stations	1.70
Iowa	29.0	+6.7	4 stations	71	[1] 5	Inwood (near)	−22	18	.94	−.15	Inwood (near)	2.33	Boone	.11
Kansas	37.7	+4.7	3 stations	80	[1] 11	2 stations	−5	19	1.16	+.16	Asbland	3.49	Sharon Springs	.06
Kentucky	45.7	+8.6	Princeton	77	12	Farmers	8	1	2.39	−.96	Mammoth Cave	4.11	Ravenna	1.29
Louisiana	59.1	+5.3	2 stations	84	14	3 stations	21	1	3.20	−1.32	Jonesville	6.30	Port Eads	1.09
Maryland-Delaware	38.9	+5.3	Western Port, Md	76	18	Mount Savage Summit, Md.	4	28	2.53	−.42	Friendsville, Md	3.97	Hancock, Md	.90
Michigan	25.7	+5.3	Monroe	67	13	Iron Mountain	−39	1	3.20	+1.57	Lansing	7.47	Ironwood	.30
Minnesota	16.2	+3.7	Long Prairie	57	26	2 stations	−42	1	.78	+.03	Springfield	1.76	Alexandria	.06
Mississippi	56.1	+6.6	2 stations	84	[1] 10	Eupora	19	1	3.20	−1.64	Magnolia	5.40	Biloxi	1.43
Missouri	41.4	+8.3	Mount Vernon	80	13	Unionville	−5	1	3.20	+1.12	Willow Springs (near).	7.34	Bethany	T
Montana	18.3	−3.8	Billings No. 2	67	27	2 stations	−35	17	.67	−.02	Hebgen Dam	4.79	Harlowton (near)	T
Nebraska	28.6	+2.4	3 stations	75	12	Santee	−23	19	.64	−.06	Hartington	1.88	Chadron	.07
Nevada	34.8	+.9	2 stations	77	[1] 11	2 stations	−10	[1] 16	1.82	+.75	Marlette Lake	11.91	Mina	.18
New England	26.0	+3.4	Fitchburg, Mass	57	6	do	−23	[1] 10	2.41	−.70	Lakeport, N. H	4.33	Presque Isle, Maine	.88
New Jersey	35.5	+4.8	4 stations	70	[1] 14	Newton	6	28	2.31	−1.30	Burlington	3.90	Newark	1.78
New Mexico	38.4	+1.0	Lovington	83	11	Selsor Ranch	−23	18	.96	+.24	White Tail	3.65	Hillsboro	T
New York	27.5	+5.1	Fredonia	63	14	Whiteface Mountain	−22	28	3.00	+.32	High Market	6.82	Scotia	.74
North Carolina	48.0	+5.3	2 stations	81	14	Mount Mitchell	6	26	1.56	−2.45	Parker	4.26	Red Springs	.32
North Dakota	7.2	−2.4	Hettinger	60	28	Berthold Agency	−35	17	.68	+.22	Westhope	1.52	Rugby	.23
Ohio	37.4	+8.1	2 stations	73	13	Jefferson	1	1	2.87	+.27	Jefferson	4.39	Mineral Ridge	1.17
Oklahoma	46.4	+5.4	Buffalo	84	11	2 stations	−2	19	4.45	+3.08	Calvin	11.00	Goodwell	.28
Oregon	35.1	.0	Oakridge	78	26	Fremont	−22	17	4.56	+1.40	Brookings	18.77	Sheaville	.61
Pennsylvania	34.1	+5.8	Vandergrift	74	13	Kane	−4	[1] 1	2.85	.00	Bradford	5.33	Hyndman	.28
South Carolina	52.7	+5.3	Beaufort (near)	84	14	2 stations	19	[1] 2	.92	−3.32	Caesars Head	2.67	McColl	.26
South Dakota	18.6	−.5	Kennebec	71	11	do	−34	18	.60	+.04	Wagner	2.39	Hot Springs	.03
Tennessee	49.1	+7.9	Moscow	81	10	3 stations	11	1	2.49	−1.81	Memphis	5.88	Palmetto	1.09
Texas	55.6	+4.3	3 stations	88	[1] 12	2 stations	0	[1] 18	2.16	+.38	Honey Grove	7.90	San Benito	.03
Utah	33.1	+3.1	St. George	68	[1] 11	Woodruff	−20	18	1.44	+.16	Silver Lake	7.07	Mount Emmons	.15
Virginia	43.0	+5.8	Clarksville	79	14	Mountain Lake	5	1	1.65	−1.44	Mineral	2.90	Roanoke	.51
Washington	34.9	+.8	Centralia	75	27	Stockdill Ranch	−8	[1] 8	3.34	−.57	Wynoochee Oxbow	13.09	Wilson Creek	.60
West Virginia	40.9	+7.6	2 stations	76	19	3 stations	4	1	3.01	−.10	New Martinsville	5.85	McNeill	.64
Wisconsin	23.5	+6.5	do	59	13	Long Lake	−51	1	2.14	+.93	Oconto	4.67	Mellen	.25
Wyoming	24.6	+2.4	do	68	[1] 11	Fort Laramie (near)	−37	16	.51	−.27	Bechler River	3.87	Clark	T
Alaska (January)	.1	−1.8	Wrangell	54	8	Allakaket	−56	22	2.82	+.69	Little Port Walter	34.14	Teller	T
Hawaii	71.3	+2.8	Hakalau	89	24	Kanalohuluhulu	42	24	7.85	+.78	Honohina	21.50	2 stations	1.37
Puerto Rico	72.6	−1.7	Mayaguez	92	24	Cayey	47	19	3.57	+.42	Rio Blanco	12.44	Mona Island	.00

[1] Other dates also.

TABLE 2.—*Climatological data for Weather Bureau stations, February 1938*

[Compiled by Annie E. Small, by official authority U. S. Weather Bureau]

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max.+mean min.÷2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
New England							28.4	+3.0										77	2.37	-0.9										6.4		
Eastport	76	67	85	30.06	30.15	+0.17	21.3	-0.2	41	6	29	-2	11	14	32	20	16	79	1.99	-1.4	13	12.5	nw.	32	e.	14	10	1	17	6.6	12.4	8.3
Greenville, Me.	1,069	4	41				15.0		37	22	26	-19	12	4	49				2.65		14	5.0			n.							
Portland, Me.	103	82	117	30.04	30.17	+.15	26.6	+2.8	46	7	34	5	11	19	27	24	19	74	4.11	+.1	14	8.8	n.	30	n.	10	11	5	12	5.4	12.1	5.3
Concord	289	54	72	29.84	30.17	+.13	26.8	+4.0	49	6	36	3	27	17	35				2.11	-.8	15	5.7	nw.	25	nw.	28	12	5	11	5.4	9.5	5.1
Burlington	403	11	48	29.73	30.20	+.17	22.1	+2.7	45	6	30	-5	11	14	35	19	17	83	1.64	+.1	15	11.2	s.	40	s.	5	3	10	15	7.1	5.6	1.7
Northfield	876	12	60	29.20	30.19	+.15	21.0	+4.6	49	6	31	-8	2	10	42	18	15	82	1.49	-.8	12	8.9	n.	27	s.	3	5	5	18	7.1	3.4	1.2
Boston [1]	29	33	62	30.12	30.15	+.11	30.6	+1.8	53	6	38	8	28	23	31	28	23	74	2.38	-1.0	16	11.6	nw.	37	nw.	28	6	7	15	7.0	10.0	1.5
Nantucket	12	14	90	30.13	30.14	+.10	33.4	+2.7	49	14	39	12	28	28	25	32	29	86	3.01	-.4	17	14.6	n.	51	ne.	20	5	6	17	7.4	3.8	.7
Block Island	26	11	46	30.13	30.16	+.10	33.5	+3.1	50	6	39	9	28	28	27	31	27	76	1.93	-1.7	15	16.3	nw.	49	nw.	28	9	6	13	6.1	.7	.5
Providence	159	215	251	29.98	30.16	+.11	31.8	+2.8	53	18	40	7	28	24	29	29	24	73	2.34	-1.3	15	11.9	nw.	41	nw.	28	11	2	15	5.9	11.6	2.4
Hartford	159	66	100	30.02	30.20	+.14	31.6	+4.4	50	6	39	6	28	24	29				2.20	-1.6	10	9.2	nw.	30	nw.	28	9	6	13	6.0	7.9	1.5
New Haven	106	74	153	30.08	30.20	+.13	33.2	+4.2	55	14	40	8	28	26	29	29	22	67	2.91	-1.1	12	9.5	n.	35	nw.	28	8	4	16	6.8	2.0	.6
Middle Atlantic States							38.2	+4.9										71	2.02	-1.2										7.1		
Albany	97	97	112	30.10	30.21	+.14	29.4	+5.3	50	6	37	2	28	22	30	26	20	68	1.60	-.9	15	8.7	nw.	23	s.	5	5	5	18	7.3	6.5	1.5
Binghamton	871	57	79	29.24	30.20	+.12	29.8	+5.8	58	14	39	2	28	21	40	27	25	86	2.34	+.1	17	7.4	nw.	27	nw.	28	0	6	22	8.9	2.3	.6
New York	314	415	454	29.84	30.19	+.11	35.6	+4.3	59	18	43	10	28	28	25	31	25	68	2.24	-1.6	11	15.6	nw.	60	nw.	28	6	6	16	6.9	T	.0
Harrisburg	374	94	104	29.79	30.21	+.12	35.0	+4.8	62	18	42	13	28	28	28	31	25	68	2.03	-.9	10	7.8	nw.	30	nw.	28	7	6	15	6.8	1.7	.0
Philadelphia	114	123	367	30.09	30.22	+.12	37.4	+3.5	65	18	45	15	28	30	31	33	26	66	2.54	-.8	10	13.6	sw.	39	nw.	28	6	8	14	6.6	4.1	.0
Reading	323	283	306	29.85	30.22		35.8	+7.0	66	18	44	12	28	28	28	32	26	69	1.77	-1.6	13	11.7	nw.	54	e.	19	5	8	15	7.0	3.2	T
Scranton	805	72	104	29.31	30.20	+.12	31.0	+3.7	58	18	39	7	28	23	32	28	22	69	2.82	-.2	12	7.4	nw.	30	nw.	28	3	10	15	7.5	3.3	.8
Atlantic City	52	37	172	30.14	30.20	+.09	38.8	+5.2	70	14	46	17	28	32	30	35	30	73	2.19	-1.2	10	17.0	nw.	53	ne.	20	6	8	14	6.5	.3	.0
Sandy Hook	22	10	57	30.17	30.19		35.5	+3.4	57	6	41	14	28	30	22	32	28	76	2.22	-1.5	11	15.2	nw.	52	nw.	28	6	6	16	6.7	.4	.0
Trenton	190	88	106	29.99	30.21		35.6	+4.9	64	18	44	13	28	28	31	32	26	69	2.17	-1.1	10	9.7	nw.	34	nw.	28	6	4	18	7.2	3.0	.0
Baltimore	123	100	215	30.08	30.22	+.11	40.4	+5.0	73	18	48	20	28	33	34	35	28	65	3.10	-.3	9	11.0	sw.	41	nw.	28	6	6	16	6.9	.6	.0
Washington	112	62	85	30.09	30.22	+.11	40.9	+5.6	71	18	49	21	28	33	29	35	28	65	2.37	-.9	9	7.9	s.	30	nw.	7	6	6	16	6.5	1.4	.0
Cape Henry	18	8	54	30.19	30.21		46.2	+5.0	75	6	54	24	17	39	31	41	37	76	1.56	-1.7	7	14.3	sw.	43	nw.	20	4	12	12	6.6	T	.0
Lynchburg	686	144	184	29.48	30.24	+.13	45.2	+4.9	74	14	54	20	2	36	32	39	32	67	1.16	-2.0	5	8.5	sw.	31	nw.	28	5	6	17	7.0	T	.0
Norfolk	91	80	125	30.13	30.23	+.12	46.8	+4.1	76	14	54	29	26	39	29	41	36	73	1.10	-2.1	7	11.3	ne.	34	w.	20	3	7	18	7.5	T	.0
Richmond	144	11	52	30.08	30.24	+.13	44.8	+5.2	75	14	54	24	2	35	31	39	34	73	1.89	-1.3	9	9.1	ne.	31	nw.	7	8	6	14	6.3	T	.0
Wytheville	2,304	49	55	27.77	30.22	+.10	40.8	+5.7	65	6	50	18	1	32	36	36	33	79	1.18	-1.8	11	7.8	w.	25	w.	27	3	5	20	7.8	.7	.0
South Atlantic States							52.6	+4.7										74	0.93	-2.8										5.9		
Asheville	2,253	89	104	27.84	30.25	+.12	44.8	+6.3	71	6	54	22	1	36	35	40	36	76	1.04	-2.1	11	9.9	nw.	27	nw.	27	4	7	17	7.5	.2	.0
Charlotte	779	68	86	29.38	30.24	+.12	49.2	+5.3	76	10	58	28	1	40	28	42	36	65	.66	-3.5	5	7.8	ne.	30	sw.	19	5	9	14	6.6	T	.0
Greensboro [1]	886	6	56	29.28	30.26		44.6		74	10	54	22	2	35	35	39	35	76	.98		9	8.4	ne.	28	sw.	19	4	7	17	7.3	T	.0
Hatteras	11	5	50	30.20	30.22	+.11	50.0	+2.6	71	6	56	34	26	44	23	46	44	84	1.81	-2.2	6	14.9	n.	40	n.	20	9	10	9	5.3	.0	.0
Raleigh	366	103	140	29.81	30.23	+.12	49.1	+5.9	78	14	58	26	2	40	29	43	38	72	.87	-3.0	9	9.6	sw.	28	nw.	7	7	8	13	5.9	T	.0
Wilmington	72	73	107	30.16	30.24	+.12	52.1	+4.2	77	14	61	29	26	43	28	46	42	76	.93	-2.3	7	9.6	ne.	30	sw.	19	9	6	13	5.9	T	.0
Charleston	48	11	92	30.18	30.23	+.11	55.3	+2.9	79	14	62	34	26	48	24	50	46	78	.76	-2.2	8	10.6	ne.	24	ne.	1	9	5	14	6.0	.0	.0
Columbia, S. C.	347	70	91	29.85	30.24	+.13	54.0	+5.8	78	14	64	33	26	44	33	46	39	63	.49	-3.3	4	8.8	ne.	24	s.	19	12	5	11	5.1	T	.0
Greenville, S. C.	1,039	139					48.6	+5.3	78	10	57	29	2	40	36			70	1.15	-4.0	7						8	7	13		.0	.0
Augusta	182	62	77	30.02	30.21	+.09	55.4	+5.5	79	14	66	32	26	45	35	48	41	66	.52	-3.6	5	6.5	nw.	22	sw.	19	8	11	9	5.2	.0	.0
Savannah	65	73	152	30.15	30.22	+.10	58.2	+4.2	80	14	67	32	26	49	29	51	47	77	.54	-2.6	5	11.2	e.	29	nw.	25	12	5	11	5.5	.0	.0
Jacksonville	43	86	110	30.17	30.22	+.10	61.6	+3.6	81	14	70	37	26	53	27	55	52	81	1.41	-1.6	7	8.6	ne.	26	sw.	26	12	7	9	5.1	.0	.0
Florida Peninsula							68.3	+2.9										77	0.94	-1.2										3.2		
Key West	21	10	64	30.12	30.14	+.07	72.1	+1.6	82	23	77	60	26	67	13	65	63	80	.25	-1.1	3	11.6	e.	24	nw.	24	18	9	1	3.0	.0	.0
Miami	25	124	168	30.13	30.16	+.06	70.2	+3.1	80	20	75	45	26	65	21	63	60	74	1.15	-.7	9	10.3	ne.	25	ne.	8	14	12	2	3.6	.0	.0
Tampa	35	88	197	30.15	30.19	+.09	66.4	+4.5	83	6	75	43	26	57	28	58	55	77	.85	-1.7	3	11.6	e.	25	ne.	2	16	9	3	3.1	.0	.0
Titusville	43	5	36	30.13	30.18		64.4	+2.3	82	7	76	34	26	53	30	57	56		1.52	-1.2	7		e.				12	12	4		.0	.0
East Gulf States							56.6	+5.0										75	1.66	-3.1										5.4		
Atlanta [1]	976	5	53	29.18	30.22	+.10	51.4	+6.1	75	14	62	28	1	41	31	44	40	73	1.18	-3.6	5	9.9	nw.	33	sw.	19	9	8	11	5.5	.0	.0
Macon	370	79	87	29.82	30.23	+.11	55.2	+5.9	79	14	66	30	26	44	34	48	43	71	.86	-3.6	5	7.6	nw.	22	s.	19	9	13	6	4.7	.0	.0
Thomasville	273	49	58	29.92	30.22	+.10	59.4	+4.4	80	15	70	34	25	49	32	52	49		1.23	-3.2	6		e.								.0	.0
Apalachicola	35	11		30.17	30.21		58.9	+2.6	71	16	66	40	21	52	23	54	52	84	.38	-3.5	2	8.9	e.	26	e.	17	12	6	10	5.0	.0	.0
Pensacola	56	149	185	30.16	30.22	+.11	57.2	+2.0	74	7	64	28	1	51	32	54	50	82	1.72	-2.6	4	11.2	se.	30	w.	26	12	10	6	4.5	.0	.0
Anniston	741	9					53.2	+7.4	77	11	64	22	1	43	35				2.23	-3.2	5		nw.				11	9	8		.0	.0
Birmingham	700	11	48	29.46	30.21	+.09	54.6	+6.6	78	10	64	23	1	45	34	47	42	71	1.65	-3.4	6	8.2	se.	24	se.	17	10	8	10	5.7	.0	.0
Mobile	57	86	161	30.16	30.22	+.11	58.6	+3.9	77	10	68	28	1	49	32	52	49	79	1.88	-3.4	4	9.4	s.	24	w.	26	9	10	9	5.3	.0	.0
Montgomery	218	92	105	29.98	30.23	+.11	56.9	+5.3	77	10	67	29	1	47	33	50	44	69	1.32	-4.1	4	7.8	e.	28	nw.	18	13	6	9	4.9	.0	.0
Meridian	375	67	92	29.81	30.21	+.10	56.2	+6.6	78	10	66	24	1	46	35	49	44	73	2.27	-3.2	6	6.7	s.	21	sw.	26	9	12	7	5.3	.0	.0
Vicksburg	247	82	102	29.93	30.20	+.10	57.3	+5.5	78	13	66	24	1	49	31	51	45	71	3.68	-1.1	4	9.5	se.	24	w.	19	5	8	15	7.0	.0	.0
New Orleans	53	76	84	30.16	30.21	+.12	60.8	+3.5	81	14	69	31	1	52	22	55	52	79	1.50	-2.8	6	7.4	se.	18	e.	22	6	12	10	5.8	.0	.0
West Gulf States							57.3	+5.7										76	3.39	+0.9										6.6		
Shreveport	249	92	227	29.92	30.20	+.11	57.9	+7.9	80	17	67	25	1	49	34	51	46	71	2.38	-.9	5	12.2	s.	34	s.	17	7	7	14	6.4	.0	.0
Bentonville	1,303	12	38	28.81	30.20	+.10	46.0	+7.5	73	11	54	17	19	38	29				7.33	+5.2	10	8.6	sw.	27	se.	14	2	12	14		2.5	.0
Fort Smith	463	57	82	29.70	30.19	+.09	49.6	+6.8	75	10	58	22	19	42	31	45	40	74	9.21	+6.6	9	9.7	e.	31	e.	15	6	8	14	6.7	.4	.0
Little Rock	357	94	102	29.81	30.20	+.09	51.0	+6.1	77	10	59	21	1	43	29	46	41	73	4.87	+1.0	8	9.1	s.	24	sw.	18	5	7	16	7.0	T	.0
Austin	605	68	90	29.50	30.14		59.2	+5.8	81	27	68	24	1	51	34	54	49	74	2.72	+.4	6	8.7	s.	24	nw.	18	7	8	13	6.3	.0	.0
Brownsville	57	88	96	30.04	30.10		66.4	+3.8	80	28	74	40	1	59	28	61	59	82	.06	-1.2	3	11.2	se.	27	s.	15	4	14	10	6.5	.0	.0
Corpus Christi	20	11	78	30.11	30.13	+.08	63.8	+5.4	76	27	69	40	1	58	22	60	58	85	1.74	+.3	5	11.9	se.	34	e.	21	4	10	14	6.8	.0	.0
Dallas	512	220	227	29.60	30.16		54.2		76	11	62	27	1	46	29	49	44	73	4.73	+2.4	7	12.4	se.	38	w.	18	3	10	15	7.2	2.9	.0
Fort Worth	679	92	110	29.44	30.16	+.09	54.3	+6.0	77	11	63	26	1	46	30				4.57	+2.8	5	10.0	s.	25	n.	6	9	7	12	6.0	3.1	.0
Galveston	54	106	114	30.12	30.18	+.11	59.4	+3.1	72	27	65	37	1	54	21	56	54	88	1.91	-.9	6	11.2	se.	30	se.	17	8	8	12	6.1	.0	.0
Houston	138	292	314	30.03	30.18		61.0	+5.1	78	9	69	29	1	53	30				3.74	+.6	7	12.3	se.	30	s.	17	5	8	15	6.7	.0	.0
Palestine	510	64	72	29.64	30.18	+.10	57.6	+6.4	77	14	66	25	1	49	28	51	46	72	1.93	-1.1	6	8.9	s.	25	s.	17	4	11	13	6.8	.0	.0
Port Arthur	34	98	106	30.15	30.19		60.0		77	27	67	30	1	53	28				1.94	-1.6	5	13.2	se.	38	s.	18	7	8	13	6.3	.0	.0
San Antonio	693	242	301	29.41	30.13	+.08	61.3	+5.9	82	27	70	28	1	53	32	55	50	70	.33	-1.3	6	12.7	se.	36	se.	16	5	6	17	6.9	.0	.0

[1] Observations taken at airport.

TABLE 2.—*Climatological data for Weather Bureau stations, February 1938*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max.+mean min.÷2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	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							**43.3**	**+7.2**										**75**	**2.73**	**−0.6**										**7.7**		
Chattanooga	762	71	214	29.40	30.23	+0.10	51.8	+7.7	76	12	60	28	1	43	29	45	39	67	1.43	−3.4	8	9.3	s.	30	sw.	19	7	8	13	6.4	T	0.0
Knoxville	995	66	84	29.14	30.22	+.10	49.2	+7.3	74	12	58	26	1	41	31	44	39	72	2.55	−2.0	12	6.5	w.	27	sw.	19	6	8	14	6.2	T	.0
Memphis	399	78	86	29.76	30.20	+.09	51.6	+7.3	76	10	59	23	1	44	24	46	41	70	5.88	+1.5	8	9.1	s.	26	sw.	19	6	7	15	6.6	T	.0
Nashville	546	168	188	29.63	30.23	+.11	49.7	+8.1	74	12	57	20	1	42	26	45	40	72	1.82	−2.3	11	10.6	sw.	34	sw.	18	5	4	19	7.3	T	.0
Lexington	989	6																														
Louisville	525	188	234	29.62	30.22	+.11	44.2	+7.0	73	12	52	18	1	36	28	40	36	75	2.16	−1.4	14	12.2	s.	30	nw.	27	3	8	17	7.7	T	.0
Evansville	431	76	116	29.72	30.20	+.09	45.4	+9.1	72	12	53	18	1	38	26	41	37	74	2.71	−.5	12	11.1	n.	32	sw.	5	3	6	19	7.5	0.1	.0
Indianapolis	822	194	230	29.29	30.20	+.10	37.7	+6.6	67	13	45	13	1	30	25	35	31	76	2.52	−.2	12	12.6	s.	36	w.	6	1	6	21	8.6	2.0	.0
Terre Haute	575	63	149	29.54	30.17		40.3		70	12	48	13	1	33	25	37	34	78	2.65	.0	13	11.5	sw.	32	nw.	6	1	8	19	8.2	2.0	.0
Cincinnati	627	11	51	29.51	30.21	+.11	40.5	+7.7	71	13	48	15	1	33	33	37	33	78	2.25	−.7	14	9.3	sw.	24	nw.	27	2	4	22	8.4	1.1	.0
Columbus	822	90	210	29.30	30.20	+.11	38.1	+7.4	68	13	46	13	1	31	34	35	31	77	2.73	+.1	14	10.9	s.	29	w.	6	2	8	18	7.9	3.4	.0
Dayton	899	60	163	29.20	30.19		38.8	+7.4	70	13	46	13	1	31	36				2.75	+.1	10	10.1	sw.	27	sw.	13	1	6	21	8.5	3.7	.0
Elkins	1,947	65	83	28.11	30.23	+.13	39.1	+7.5	68	18	49	11	1	29	41	35	31	77	3.48	+.4	16	7.3	w.	30	w.	6	1	6	21	8.5	13.4	3.0
Parkersburg	637	77	84	29.50	30.20	+.10	41.0	+6.8	70	13	50	14	1	32	34	37	33	77	2.45	−.7	15	7.4	nw.	25	w.	6	2	5	21	8.2	1.1	.0
Pittsburgh [1]	1,273	39	54	28.79	30.19	+.10	**36.2**	**+3.9**	**66**	**13**	**44**	11	1	28	34	32	29	78	2.82	+.2	16	11.5	nw.	33	w.	7	1	7	20	8.4	3.4	1.0
Lower Lake Region							**30.2**	**+5.1**										**80**	**3.34**	**+0.9**										**8.3**		
Buffalo	768	243	280	29.32	30.18	+.12	28.5	+4.2	55	5	36	0	28	21	31	27	24	81	4.23	+1.3	18	15.2	sw.	35	sw.	3	3	4	21	8.3	9.8	4.1
Canton	448	10	61	29.69	30.20		20.5	+2.5	45	6	29	−9	28	12	34	19	18	90	3.28	+1.0	17	8.3	w.	28	e.	20	4	7	17	7.4	10.7	5.4
Ithaca	836	77	100	29.25	30.19		28.9	+4.4	57	13	38	2	28	20	40	26	22	79	2.16	+.2	19	11.7	nw.	34	se.	3	1	5	22	8.8	13.2	5.5
Oswego	335	71	85	29.80	30.18	+.12	27.9	+4.0	53	6	35	0	28	21	31	26	21	73	3.33	+.6	16	11.4	se.	34	n.	27	2	3	23	8.6	7.5	4.9
Rochester	523	86	102	29.60	30.20	+.14	29.6	+5.0	55	6	37	3	28	22	36	26	21	72	3.05	+.4	18	9.0	sw.	23	w.	14	4	3	21	8.1	14.9	8.0
Syracuse	596	65	79	29.54	30.21	+.14	29.6	+5.5	57	14	38	−1	28	22	42				2.56	−.2	20	7.9	s.	24	nw.	27	2	5	21	8.4	11.7	2.0
Erie	714	130	166	29.39	30.19	+.12	31.5	+4.6	62	13	39	5	28	24	37	30	26	79	4.12	+1.5	15	14.1	w.	38	se.	3	2	7	19	8.1	2.0	.2
Cleveland	762	267	318	29.33	30.18	+.11	33.8	+6.4	68	13	41	9	1	26	29	32	29	81	3.01	+.5	14	17.0	s.	47	nw.	27	4	1	23	8.5	2.0	T
Sandusky	629	5	67	29.49	30.16	+.09	34.5	+7.1	68	13	41	12	1	28	27				3.25	+1.1	14	10.5	sw.	26	nw	14	1	7	20	8.4	2.9	.0
Toledo	628	79	87	29.50	30.20	+.13	33.0	+5.7	66	13	40	9	1	26	28	31	28	80	3.39	+1.3	14	10.7	w.	30	w.	6	2	5	21	8.1	12.8	1.7
Fort Wayne	857	69	84	29.24	30.19		33.9	+6.3	65	13	41	11	1	27	25	32	29	82	2.77	+.4	15	10.5	nw.	30	w.	6	1	6	21	8.4	6.2	T
Detroit [1]	626	5	78	29.48	30.19	+.13	31.2	+5.9	63	13	38	4	1	24	25	29	26	80	4.95	+2.8	15	11.1	nw.	29	w.	6	2	2	24	8.6	4.8	T
Upper Lake Region							**25.5**	**+6.5**										**83**	**3.12**	**+1.3**										**8.2**		
Alpena	609	13	89	29.51	30.21	+.18	22.7	+4.7	45	8	29	−9	1	16	27	22	19	83	2.93	+1.2	16	10.9	nw.	32	se.	5	0	10	18	8.0	10.2	9.0
Escanaba	612	41	49	29.53	30.23	+.17	22.2	+6.8	41	27	30	−23	1	15	31	20	17	82	2.23	+.7	13	10.9	n.	42	n.	27	2	4	22	8.4	22.7	21.9
Grand Rapids	707	70	244	29.40	30.20	+.15	30.6	+6.9	58	13	37	5	1	24	22	28	25	81	5.30	+3.1	13	12.0	ne.	35	sw.	6	1	6	21	8.5	6.9	.6
Lansing	878	5	90	29.21	30.18		29.5	+6.6	57	13	36	3	1	23	25	28	26	86	7.47	+5.6	15	9.9	nw.	26	nw.	27	2	4	22	8.8	10.5	2.0
Ludington	637	5	54	29.47	30.19		27.4	+4.9	45	6	33	2	1	21	23	26	23		3.78	+1.8	16		e.				1	5	22		5.4	.9
Marquette	734	44	69	29.39	30.23	+.18	22.6	+6.3	45	26	29	−12	1	16	29	21	19	86	1.52	−.4	16	8.2	nw.	27	sw.	7	0	6	22	8.7	12.2	17.5
Sault Sainte Marie	614	11	52	29.52	30.26	+.23	16.8	+4.2	39	8	26	−15	1	8	37	16	13	85	1.81	−.1	13	7.9	se.	27	ne.	27	6	4	18	7.2	18.6	29.4
Chicago	673	7	131	29.44	30.19	+.11	34.6	+8.3	63	13	40	11	1	29	27	32	28	76	2.11	.0	15	12.0	ne.	28	ne.	19	1	4	23	8.9	5.4	.3
Green Bay	617	109	141	29.50	30.21	+.15	25.0	+7.6	41	27	32	−20	1	18	42	23	20	82	3.16	+1.6	14	10.6	n.	31	ne.	19	2	7	19	8.1	9.2	6.0
Milwaukee	681	97	221	29.42	30.18	+.12	31.1	+8.3	57	13	37	3	1	25	27	29	26	82	3.33	+1.5	13	13.7	n.	32	s.	4	3	2	23	8.7	2.9	T
Duluth	1,133	5	47	28.93	30.21	+.13	18.2	+6.8	46	26	26	−19	1	10	30	16	14	87	.63	−.4	12	11.3	ne.	35	nw.	27	8	3	17	6.9	5.6	5.4
North Dakota							**7.7**	**−0.2**										**88**	**0.67**	**+0.2**										**6.0**		
Moorhead, Minn	940	50	58	29.17	30.25	+.14	9.8	+1.7	41	26	19	−21	18	1	40	10	10	94	.51	−.2	8	8.6	n.	21	nw.	13	5	5	18	7.2	8.5	2.0
Bismarck	1,674	8	57	28.35	30.25	+.13	7.8	−2.5	45	28	17	−25	18	−2	31	8	5	84	.76	+.3	9	7.4	nw.	22	nw.	25	8	10	10	5.7	10.3	.7
Devils Lake	1,478	11	44	28.58	30.27	+.16	5.3	+.2	40	28	14	−22	14	−4	27	5	3	89	.47	.0	5	9.0	nw.	29	ne.	12	7	8	13	6.2	5.0	4.5
Grand Forks	833	12	67																													
Williston	1,878	42	50	28.14	30.24	+.13	7.8	−.3	45	26	17	−27	17	−1	35	7	4	83	.93	+.5	9	6.8	se.	26	se.	10	12	9	7	4.7	11.9	4.0
Upper Mississippi Valley							**33.7**	**+8.8**										**79**	**1.81**	**+0.1**										**8.0**		
Minneapolis-St. Paul, Minn	919	105	208	29.16	30.19	+.10	21.8	+5.9	44	8	29	−7	1	14	32	21	18	81	.62	−.3	8	10.7	e.	25	w.	13	6	2	20	7.5	7.4	T
La Crosse	714	11	48	29.40	30.20	+.12	27.2	+8.0	47	8	34	−5	1	20	24	25	22	80	1.00	−.1	11	5.9	n.	18	n.	27	2	5	21	8.2	2.7	.0
Madison	974	70	78	29.09	30.19	+.12	28.0	+8.9	47	9	34	0	1	22	23	26	23	82	2.85	+1.4	13	9.1	se.	30	ne.	19	2	4	22	8.7	4.3	T
Charles City	1,015	10	51	29.07	30.20	+.10	26.5	+9.4	48	13	34	2	1	19	32	25	22	84	.58	−.5	8	7.2	se.	18	nw.	13	6	2	20	7.4	2.9	.0
Davenport	606	66	161	29.51	30.19	+.09	34.8	+9.9	66	12	42	10	1	28	35	32	28	79	1.99	+.4	10	11.1	ne.	27	w.	6	2	3	23	8.5	1.7	.0
Des Moines	861	5	99	29.24	30.18	+.07	31.8	+8.1	63	12	40	6	1	24	40	29	26	81	.46	−.7	10	10.3	nw.	25	nw.	6	4	5	19	7.8	2.0	.0
Dubuque	699	60	79	29.41	30.19	+.10	31.6	+9.4	57	13	38	6	1	25	33	29	25	78	1.66	+.3	12	7.0	nw.	19	nw.	13	2	3	23	8.5	1.6	.0
Keokuk	614	64	78	29.50	30.18	+.07	37.1	+8.8	71	12	44	10	1	30	36	33	29	73	1.86	+.3	9	9.1	e.	26	w.	6	3	5	20	8.7	10.7	.0
Cairo	358	87	93	29.80	30.19	+.07	47.8	+9.3	74	12	56	19	1	40	28	43	39	76	2.88	−.2	10	10.9	s.	27	sw.	19	3	7	18	7.7	.1	.0
Peoria	609	11	45	29.51	30.19	+.09	36.2	+10.3	69	12	43	11	1	30	33	34	31	82	2.21	+.2	12	8.6	ne.	21	w.	6	3	7	18	7.9	7.0	T
Springfield, Ill	636	5	191	29.48	30.18	+.08	39.1	+9.6	73	12	46	13	1	32	34	36	32	78	2.12	−.2	9	12.9	s.	29	nw.	6	1	6	21	8.4	2.4	.0
St. Louis	568	179	303	29.55	30.17	+.06	42.2	+7.4	76	12	49	16	1	35	29	39	35	77	3.51	+1.0	11	14.0	sw.	39	sw.	12	5	5	18	7.1	1.6	.0
Missouri Valley							**31.3**	**+4.9**										**77**	**1.35**	**0.0**										**6.7**		
Columbia, Mo	784	6	66	29.30	30.16	+.05	40.3	+8.6	73	12	48	15	1	32	32				2.50	+.5	11	9.5	s.	21	sw.	5	5	7	16	7.2	12.9	.0
Kansas City [1]	750	32	45	29.33	30.16	+.05	38.1	+6.9	71	12	47	14	19	29	33	35	31	75	.90	−.8	8	11.4	sw.	34	sw.	12	5	5	18	7.2	4.9	.0
St. Joseph	967	11	49	29.10	30.16		36.2		69	12	46	12	18	27	38	33	29	76	.46	−1.2	7	10.1	nw.	25	nw.	6	7	9	12	6.5	1.1	.0
Springfield, Mo	1,324	98	104	28.72	30.15	+.04	43.8	+8.6	73	11	52	18	1	36	27	39	35	76	4.53	+2.2	10	11.5	s.	28	w.	6	5	9	14	6.9	6.0	.0
Topeka	987	65	87	29.08	30.16		37.2	+6.2	72	5	47	6	19	27	35	34	29	75	.92	−.6	7	10.7	n.	29	s.	12	4	7	17	7.4	6.6	.0
Lincoln	1,189	11	81	28.86	30.18	+.08	29.8	+3.7	70	12	40	−2	18	20	47	26	22	75	1.21	+.3	3	9.4	n.	27	s.	12	5	8	15	6.5	11.5	.1
Omaha [1]	982	31	44	29.10	30.20	+.09	28.5	+3.0	64	13	38	−6	19	19	46	25	22	81	.91	.0	8	11.0	n.	30	nw.	13	4	8	16	7.4	5.1	.0
Valentine	2,598	47	54	27.37	30.21	+.12	24.4	+3.0	69	11	37	−10	18	12	45	21	16	73	.40	−.2	6	8.2	w.	25	s.	7	9	7	12	5.2	6.0	.0
Sioux City	1,138	64	106	28.93	30.21	+.09	23.5	+2.5	51	7	32	−12	18	15	28	22	18	80	1.02	+.2	4	9.9	nw.	31	nw.	13	4	5	19	7.2	11.0	T
Huron	1,307	59	74	28.76	30.24	+.12	15.9	+1.6	47	26	25	−21	18	7	31	15	11	83	.65	+.1	4	8.4	nw.	25	w.	26	9	8	11	5.8	11.0	T
Northern Slope							**23.1**	**+0.7**										**71**	**0.53**	**−0.1**										**6.6**		
Havre	2,505	11	67	27.45	30.26	+.19	7.6	−6.0	49	26	18	−27	17	−3	58	7	4	83	.62	+.1	10	7.0	e.	25	sw.	6	6	10	12	6.6	8.9	T
Helena	4,124	85	111	25.79	30.16	+.05	19.2	−3.8	47	28	27	−14	16	11	33	17	12	71	.37	−.3	8	5.6	nw.	39	s.	6	5	4	19	7.2	7.8	T
Missoula	3,263	80	91				27.0	+.3	47	6	35	−7	17	19	27				1.35	+.6	9	6.5	se.	53	e.	12	7	4	17	6.7	14.3	T
Kalispell	2,973	48	56	26.92	30.09	+.01	23.4	+.1	40	25	31	−4	16	16	25	22	20	85	1.07	.0	14	5.1	w.	24	n.	12	6	1	21	7.4	17.2	4.9
Miles City	2,371	48	55	27.56	30.19	+.10	13.8	−3.0	53	26	24	−24	17	3	39	12	8	73	.26	−.2	7	5.3	ne.	19	ne.	11	5	13	10	5.9	4.4	T
Rapid City	3,259	50	58	26.65	30.14	+.06	26.5	+3.1	67	26	38	−10	16	15	47	23	18	73	.20	−.3	2	7.2	ne.	26	n.	25	12	10	6	4.6	2.2	.0
Cheyenne [1]	6,144	5	39	23.92	30.10	+.07	30.2	+2.9	60	26	43	−8	16	17	36	25	17	60	.28	−.4	3	11.5	nw.	47	nw.	4	10	6	12	5.6	3.3	.0
Lander	5,352	60	68	24.61	30.06	−.02	28.6	+6.1	60	26	40	−9	16	17	36	23	14	55	.14	−.5	4	6.6	sw.	38	sw.	3	10	12	6	4.5	1.2	.0
Sheridan	3,790	10	47	26.10	30.14		24.0		64	26	38	−12	17	10	44	20	14	66	.31	−.4	7	4.9	nw.	20	sw.	11	8	14	6	4.9	3.5	T
Yellowstone Park	6,241	12	46	23.82	30.15	+.05	24.0	+3.0	51	27	33	−14	16	15	35	20	15	71	.96	+.4	14	8.7	sw.	32	sw.	10	5	8	15	6.9	19.5	6.4
North Platte	2,821	11	51	27.13	30.16	+.09	30.9	+4.3	67	12	44	−5	19	18	44	25	19	70	.25	−.3	3	7.1	w.	28	n.	12	9	10	9	5.7	3.6	.0

[1] Observations taken at airport.

TABLE 2.—*Climatological data for Weather Bureau stations, February 1938*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max.+mean min.÷2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Middle Slope							**38.6**	**+4.8**										**62**	**1.64**	**+0.8**										**6.0**		
Denver	5,292	106	113	24.72	30.08	+0.07	37.2	+4.5	66	11	49	2	16	26	39	28	16	46	0.43	-.1	4	7.7	s.	25	sw.	12	11	6	11	5.1	6.7	0.0
Pueblo	4,685	80	86	25.30	30.06	+.06	38.4	+5.5	71	8	51	13	16	26	45	30	19	50	.70	+.2	6	7.3	nw.	34	nw.	4	11	9	8	5.2	9.1	.0
Concordia	1,392	50	58	28.65	30.17	+.08	33.4	+3.6	73	8	44	0	19	23	38	29	24	73	1.48	+.6	3	8.7	n.	24	sw.	6	5	15	8	5.6	1.6	T
Dodge City	2,509	10	86	27.46	30.13	+.07	37.8	+4.6	78	11	49	6	19	26	47	31	22	61	1.08	+.3	6	11.6	n.	35	s.	1	4	12	12	6.6	4.1	T
Wichita	1,358	85	93	28.68	30.15	+.07	38.9	+4.5	74	11	48	4	20	29	32	34	28	70	2.48	+1.2	7	11.3	nw.	35	sw.	8	8	7	13	6.0	9.3	T
Oklahoma City	1,214	10	47	28.83	30.14	+.07	45.6	+6.0	75	11	55	14	19	36	32	41	36	75	3.66	+2.6	6	11.5	s.	28	s.	1	3	11	14	7.3	2.2	.0
Southern Slope							**50.8**	**+4.9**										**65**	**1.33**	**+0.6**										**6.9**		
Abilene	1,738	10	52	28.30	30.13	+.08	52.4	+5.2	80	13	63	26	22	42	34	46	40	69	1.23	+.2	6	10.2	s.	29	nw.	18	3	7	18	7.6	3.5	.0
Amarillo	3,676	10	49	26.32	30.12	+.10	42.9	+4.8	77	12	54	17	18	32	37	35	26	62	2.87	+2.2	9	9.2	w.	34	w.	2	2	12	14	7.1	15.7	.0
Del Rio	960	63	71	29.08	30.08	+.08	60.3	+4.3	81	27	68	32	1	53	29	54	49	70	.30	-.2	7	9.2	se.	32	nw.	18	4	6	18	7.2	.0	.0
Roswell	3,566	75	85	26.42	30.07	+.09	47.7	+5.2	75	8	61	18	18	34	44	40	31	60	.93	+.4	4	7.7	s.	28	s.	17	5	17	6	5.8	.6	.0
Southern Plateau							**45.8**	**+1.3**										**54**	**1.09**	**+0.3**										**5.8**		
El Paso	3,778	82	101	26.23	30.03	+.08	53.8	+4.8	78	10	67	28	18	41	37	42	29	43	.17	-.2	4	6.9	e.	23	nw.	17	14	7	7	4.6	.0	.0
Albuquerque [1]	4,972	5	39	25.08	30.05	------	40.4	-.1	67	9	54	14	18	27	37	33	24	54	.49	+.2	5	7.5	n.	31	w.	5	4	9	15	7.0	2.5	.0
Santa Fe	7,013	38	53	23.24	30.08	+.10	35.6	+2.5	59	9	45	11	18	26	29	29	21	57	1.02	+.3	10	5.4	e.	22	sw.	12	4	8	16	7.1	7.3	.0
Flagstaff	6,907	10	59	23.31	30.00	.00	30.4	-.4	50	26	41	-6	17	20	41	28	----	75	3.72	+1.4	11	8.1	sw.	28	sw.	11	2	15	11	----	21.5	T
Phoenix	1,107	39	51	28.87	30.03	+.04	56.4	+1.3	77	7	68	34	18	45	34	47	36	52	.55	-.2	6	5.2	e.	15	w.	12	9	8	11	5.8	.0	.0
Yuma	141	9	54	29.91	30.06	+.06	58.2	-.4	78	10	70	35	18	46	34	48	34	45	.58	+.2	4	5.8	n.	23	n.	20	14	6	8	4.3	.0	.0
Independence	3,957	5	26	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Middle Plateau							**34.8**	**+1.4**										**66**	**1.62**	**+0.7**										**8.1**		
Reno	4,527	61	76	25.40	30.00	-.08	33.2	-3.1	52	27	42	8	17	24	30	30	25	72	3.87	+2.7	12	6.5	s.	28	se.	2	4	16	8	5.9	32.4	T
Tonopah	6,090	12	20	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------	------
Winnemucca	4,344	18	56	25.56	30.01	-.08	34.8	+1.3	54	27	44	3	17	26	32	31	26	70	1.16	+.2	10	9.6	sw.	35	sw.	9	5	4	19	7.0	10.4	.0
Modena	5,473	10	43	24.60	30.02	-.02	32.9	+1.9	52	11	42	9	18	24	32	29	23	68	1.16	+.2	11	9.4	sw.	36	s.	11	10	4	14	6.2	6.8	.0
Salt Lake City [1]	4,527	32	46	25.73	30.05	-.03	36.9	------	58	11	45	10	18	29	28	33	27	67	.89	------	9	10.5	se.	35	w.	12	4	9	15	7.3	12.5	.0
Grand Junction	4,602	60	68	25.40	30.03	-.01	38.2	+5.3	60	11	48	15	18	28	29	32	23	55	.31	-.3	5	7.1	se.	25	s.	12	6	10	12	6.1	.1	.0
Northern Plateau							**35.9**	**+3.3**										**73**	**1.58**	**+0.2**										**7.9**		
Baker	3,471	36	54	26.38	30.02	-.10	33.8	+4.8	54	27	42	4	17	26	29	31	27	75	1.51	+.3	12	7.4	se.	25	s.	9	3	7	18	7.5	17.3	.0
Boise	2,739	79	87	27.15	30.04	-.08	40.6	+5.8	59	27	48	21	17	34	27	35	28	61	.82	-.6	9	8.1	se.	25	se.	9	5	3	20	7.6	4.8	.0
Pocatello	4,477	60	68	25.45	30.05	-.05	34.4	+5.5	55	27	41	27	6	28	27	30	24	66	1.32	.0	12	10.0	s.	37	s.	9	4	6	18	7.5	9.6	.0
Spokane	1,929	101	110	27.92	30.02	-.07	33.6	+2.3	51	28	40	19	13	27	25	31	28	79	1.90	+.1	14	6.2	s.	27	se.	6	4	5	19	7.8	21.1	.6
Walla Walla	991	57	65	28.91	30.00	-.11	38.2	+1.1	53	5	44	20	1	33	21	35	31	78	2.18	+.4	13	5.4	s.	30	se.	13	1	3	24	8.6	8.5	.0
Yakima	1,076	58	67	28.82	29.99	------	35.0	+.5	48	12	41	17	5	29	24	33	30	80	1.77	+.8	14	4.2	nw.	16	sw.	5	1	5	22	8.6	9.7	.0
North Pacific Coast Region							**44.0**	**+1.9**										**77**	**6.13**	**+0.6**										**7.6**		
North Head	211	11	56	29.63	29.86	-.20	44.8	+1.8	67	26	50	34	4	40	19	42	39	81	6.09	-1.4	21	15.7	e.	66	s.	5	7	3	18	7.0	T	.0
Seattle	125	90	321	29.75	29.88	-.18	44.4	+3.3	70	28	51	32	17	38	33	41	36	72	2.82	-1.1	17	8.5	se.	37	s.	3	5	5	18	7.4	T	.0
Tatoosh Island	86	10	54	29.73	29.83	-.17	43.0	+2.0	56	24	46	34	4	40	11	41	38	81	6.37	-3.1	18	17.9	e.	44	sw.	6	6	2	20	7.5	.2	.0
Medford [1]	1,329	29	58	28.51	29.94	------	41.5	------	69	26	50	24	16	33	37	38	34	78	4.65	+2.3	16	----	n.	----	------	----	3	3	22	7.9	8.2	.0
Portland, Oreg.	153	68	106	29.75	29.91	-.17	43.4	+1.3	57	25	48	31	1	39	16	40	36	75	7.83	+2.5	18	6.8	e.	23	se.	3	5	4	19	7.6	1.4	.0
Roseburg	510	45	76	29.36	29.91	-.19	44.6	+1.2	74	24	53	28	17	36	39	42	37	77	9.04	+4.6	20	4.2	s.	18	s.	13	3	3	22	8.0	1.0	.0
Middle Pacific Coast Region							**49.8**	**0.0**										**74**	**10.24**	**+5.2**										**7.4**		
Eureka	62	73	89	29.88	29.96	-.15	48.5	+1.3	72	28	54	35	15	43	23	45	41	77	13.94	+7.5	20	7.9	se.	35	sw.	28	4	3	21	7.7	.0	.0
Redding [1]	722	20	34	------	------	------	47.4	-2.3	71	23	54	33	4	41	26	42	36	69	10.28	+3.7	17	11.2	nw.	41	se.	9	4	3	21	7.9	2.6	.0
Sacramento	66	92	115	29.95	30.02	-.07	50.3	+.2	70	24	57	35	19	43	25	47	43	76	8.24	+5.2	16	9.2	se.	46	s.	9	5	8	15	6.7	.0	.0
San Francisco	155	112	132	29.83	30.00	-.10	53.0	+.8	71	23	59	42	16	47	24	49	44	74	8.49	+4.6	16	8.2	e.	38	sw.	9	4	8	16	7.1	.0	.0
South Pacific Coast Region							**55.5**	**+1.6**										**69**	**5.68**	**+3.5**										**5.7**		
Fresno	327	97	105	29.71	30.07	-.01	52.4	+1.3	74	26	60	36	17	44	27	48	42	70	3.98	+2.6	10	7.1	se.	35	se.	9	7	10	11	6.3	.0	.0
Los Angeles	338	159	191	29.70	30.07	+.01	56.8	+1.3	76	23	64	42	13	49	24	50	43	64	9.81	+6.7	14	7.5	ne.	26	e.	9	14	3	11	4.8	.0	.0
San Diego	87	62	70	29.97	30.07	+.01	57.2	+2.1	79	25	64	43	14	50	27	51	46	72	3.26	+1.2	13	6.8	e.	34	s.	27	10	4	14	6.0	.0	.0
West Indies																																
San Juan, P. R.	82	9	54	29.97	30.06	------	73.6	-1.3	86	25	78	65	20	69	17	----	----	----	2.26	-.5	16	15.8	e.	37	e.	6	11	16	1	4.1	.0	.0
Panama Canal																																
Balboa Heights	118	6	92	------	[3] 29.88	+.02	80.0	-.3	90	20	88	70	28	72	20	----	----	[3] 72	.01	-.6	1	10.0	nw.	27	n.	22	16	12	0	3.8	.0	.0
Cristobal	36	6	97	------	[3] 29.91	+.02	80.8	.0	85	9	84	75	1	77	10	73	71	[3] 78	1.11	-.4	12	16.5	n.	30	n.	1	7	18	3	4.9	.0	.0
Alaska																																
Fairbanks	454	11	87	[3] 29.64	[3] 30.23	------	-11.4	-10.6	45	28	0	-50	6	-23	38	-10	-15	75	.40	-.1	6	4.2	n.	24	sw.	22	13	6	9	4.3	13.3	24.5
Juneau	80	96	116	[3] 29.82	[3] 29.91	------	24.2	-6.0	57	27	28	3	7	20	19	22	12	59	6.10	+.7	11	12.6	ne.	38	ne.	8	7	6	15	6.5	19.3	.0
Nome	22	5	32	[1] 30.15	[3] 30.16	------	6.0	-.8	32	14	14	-34	26	-2	35	6	1	65	.81	.0	9	10.0	ne.	42	ne.	27	12	6	10	4.8	6.4	7.0
Hawaiian Islands																																
Honolulu	38	86	100	29.89	29.93	------	73.4	+2.6	81	1	78	65	5	69	14	69	67	81	5.05	+1.3	14	7.8	e.	30	w.	27	7	13	8	5.9	.0	.0

[1] Observations taken at airport.
[2] Observations taken bihourly.
[3] Pressure not reduced to a mean of 24 hours.

TABLE 3.—*Data furnished by the Canadian Meteorological Service, February 1938*

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	*In.*	*In.*	*In.*	*°F.*	*°F*	*°F*	*°F.*	*°F*	*°F*	*In.*	*In.*	*In.*
Cape Race, Newfoundland	99												
Sydney, Cape Breton Island	48	29.99	30.05	+0.14	17.2	−2.6	25.0	9.4	40	−5	2.98	−1.43	12.7
Halifax, Nova Scotia	88	29.84	30.11	+.16	21.0	−2.0	27.6	14.5	44	2	2.40	−2.01	7.6
Yarmouth, Nova Scotia	65	30.01	30.13	+.17	25.0	−.4	31.4	18.5	45	9	3.42	−.88	19.4
Charlottetown, Prince Edward Island	38	30.05	30.14	+.22	14.3	−2.3	22.5	6.0	40	−10	3.81	+.54	26.7
Chatham, New Brunswick	28	30.01	30.13	+.18	12.4	−1.2	23.0	1.9	37	−22	1.79	−.93	17.9
Father Point, Quebec	20												
Quebec, Quebec	296	29.85	30.21	+.20	13.8	+2.3	21.1	6.5	34	−13	2.34	−.79	23.3
Doucet, Quebec	1,236	28.82	30.26	+.24	−.8	−.6	15.8	−17.4	32	−53	3.12	+1.54	31.2
Montreal, Quebec	187												
Ottawa, Ontario	236	29.94	30.22	+.18	14.4	+2.2	23.1	5.8	38	−13	2.20	−.29	10.3
Kingston, Ontario	285	29.88	30.20	+.14	23.8	+7.0	30.3	17.3	43	−8	3.75	+1.56	4.4
Toronto, Ontario	379	29.78	30.22	+.15	27.2	+6.7	33.9	20.5	51	−4	3.62	+1.14	3.6
Cochrane, Ontario	930	29.17	30.25	+.16	3.1	−.5	14.9	−8.6	32	−34	2.02	+1.11	20.1
White River, Ontario	1,244	28.84	30.28	+.22	4.6	+7.4	19.5	−10.2	37	−50	2.19	+.94	21.9
London, Ontario	808	29.28	30.19	+.09	27.8	+8.0	34.7	20.9	55	0	6.02	+2.58	5.6
Southampton, Ontario	656	29.46	30.20	+.17	23.4	+3.8	30.4	16.4	49	−2	4.53	+1.69	9.9
Parry Sound, Ontario	688	29.50	30.24	+.17	18.8	+5.7	27.5	10.2	40	−11	4.42	+1.54	11.2
Port Arthur, Ontario	644	29.52	30.27	+.19	11.7	+2.7	22.3	1.0	46	−30	3.08	+2.37	30.8
Winnipeg, Manitoba	760	29.38	30.28	+.10	4.6	+3.0	14.3	−5.1	47	−33	1.72	+.88	17.2
Minnedosa, Manitoba	1,690	28.36	30.30	+.16	3.4	+3.2	12.8	−6.1	44	−34	3.66	+3.09	36.6
Le Pas, Manitoba	860	29.27	30.32	+.15	−1.3	+2.2	9.1	−11.6	50	−34	1.02	+.49	10.2
Qu'Appelle, Saskatchewan	2,115	27.82	30.24	+.08	2.8	−1.6	12.4	−6.9	51	−36	2.08	+1.33	20.8
Moose Jaw, Saskatchewan	1,759	28.14	30.26	+.09	5.2	−1.9	15.0	−4.7	51	−31	1.92	+1.44	19.2
Swift Current, Saskatchewan	2,392	27.52	30.26	+.11	5.8	−2.9	13.2	−1.7	46	25	1.79	+1.20	17.9
Medicine Hat, Alberta	2,365	27.61	30.25	+.12	6.1	−9.4	15.7	−3.6	47	−32	1.26	+.68	12.6
Calgary, Alberta	3,540	26.34	30.26	+.15	5.9	−8.6	15.4	−3.6	61	−30	.69	+.11	6.9
Banff, Alberta	4,521												
Prince Albert, Saskatchewan	1,450	28.66	30.34	+.19	.3	−1.1	10.7	−10.0	51	−42	.66	+.07	6.6
Battleford, Saskatchewan	1,592	28.44	30.30	+.15	−3.3	−2.6	8.4	−15.0	49	−46	.88	+.51	8.8
Edmonton, Alberta	2,150	27.82	30.27	+.20	2.8	−8.8	12.0	−6.4	58	−32	.99	+.33	9.9
Kamloops, British Columbia	1,262	28.69	30.09	+.01	26.6	−.2	33.7	19.5	46	−3	1.39	+.69	13.9
Victoria, British Columbia	230	29.62	29.87	−.16	41.7	+1.3	46.6	36.8	57	31	1.81	−1.36	T
Barkerville, British Columbia	4,180												
Estevan Point, British Columbia	20	29.78	29.80	−.18	41.0	.0	46.8	35.3	58	29	11.72	+.49	T
Prince Rupert, British Columbia	170	29.60	29.78	−.13	36.8	+.2	42.2	31.4	66	20	1.83	−6.49	.3
St. George's, Bermuda	151		30.17	+.06	61.9	+.1	67.0	56.7	74	51	1.94	−2.76	.0

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Cape Race, Newfoundland	99				23.6	−1.4	30.7	16.4	43	−5	6.01	+1.37	10.9
Kamloops, British Columbia	1,262	28.83	30.24	+0.11	28.0	+6.2	32.3	23.8	48	4	.48	−.52	4.8
Victoria, British Columbia	230												
Barkerville, British Columbia	4,180												
Estevan Point, British Columbia	20	30.00	30.04	+.05	43.8	+3.6	48.4	39.3	58	32	10.16	−2.26	.0
Prince Rupert, British Columbia	170	29.68	29.86	−.01	39.2	+4.0	43.4	35.0	51	19	8.61	−1.11	7.7

TABLE 4.—*Severe local storms, February 1938*

[Compiled by Mary O. Souder from reports submitted by Weather Bureau officials]

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United States Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Osage, Iowa	5	5 p. m.				Electrical and hail	2 inches of hail fell in 30 minutes; trees damaged.
Detroit, Mich., vicinity of	5-6					Heavy rain	Streams and rivers overflowed their banks causing much damage.
Amsterdam, N. Y., and vicinity	8				$100,000	Rain and flood	Rain and warm weather caused the ice-jammed Mohawk River to overflow, flooding cities and farmlands for miles along the river. Greatest damage in Amsterdam estimated to be $100,000.
California, central and northern portions.	9			6	1,000,000	Straight-line wind	Severe storm entered State from the Pacific Ocean. Many shade and orchard trees blown down; severe damage to communication and power lines; many garage and farm buildings unroofed. Damage most severe in San Francisco Bay region, northern San Joaquin and Sacramento Valleys.
Madera, Calif., vicinity of	11					Heavy rain	Small streams draining lower foothills basins overflowed. Highways flooded and railroad tracks washed out.
Harrisburg, Pa	11	p. m.				Snow and mist	Highways dangerous because of light snow and freezing mist. Number of traffic accidents reported.
Baltimore, Md	11-12					Glaze	Ice on all exposed objects.
Walnut, Ill., 3 miles southeast	12					Electrical	Considerable damage to a farm residence.
Missoula, Mont., and vicinity	12	4 a. m. 12:30 p. m.			500	Wind and snow	Much drifting; wind of 53 miles an hour recorded.
Grand Rapids, Mich	12-13				30,000	Thunderstorms and heavy rain.	Streets and sewers flooded. Small damage to power lines by lightning. Portion of the southern section of the city under water from the overflow of Plaster Creek. $30,000 damage to large industrial plant.
South Dakota, Walworth to Potter Counties, eastward to the State line.	12-13					Sleet	Wires ice-coated; poles and wires blown down.
Duluth, Minn., and vicinity	13	a. m.			5,000	Glaze, sleet, and snow.	Number of poles and wires down; traffic delayed.
Marquette, Mich	13-14					Rain, sleet, and dust.	Dust from 11:50 a. m., to about 12:35 p. m. Rain and sleet alternated at frequent intervals all day. Artificial light necessary in homes and motorists used headlights. By a. m. of the 14th a brown layer nearly one-half inch thick could be seen by brushing off the fresh snow that had fallen during the night.
Dodge City, Kans	14-17					Sleet and glaze	Some damage to wires and trees. Numerous minor accidents, because of icy pavements.
Oklahoma, eastern portion of State.	14-21				750,000	Flood	Heavy rain and melted snow resulted in the overflow of many minor streams Buildings, fences, highways and bridges damaged. Hundreds of livestock drowned in swollen streams. Many farmhouses washed away and land erosion severe in some parts of the flooded area.
Concordia, Kans	15-17					Rain, sleet, and snow.	Extensive damage to the power and communication lines.
Iowa, entire State [1] except the eastern portion.	16			2		Snow and glaze	All roads except those in the eastern part of the State ice-coated and slippery. Driving hazardous.
Rodessa, La	17	9:45 p. m.	150	21	250,000	Tornado	Wreckage of oil derricks, machinery, and buildings strewn along a path 1½ miles long. 40 persons injured.
Detroit, Mich	17	6-10 a. m.				Glaze	Light rain and low temperature caused all surfaces to be ice-coated.
Grand Rapids, Mich	17					do	Streets and walks covered with glaze. Several persons injured.
Mertzon and Sherwood, Tex	17	3:20 a. m.	400	0	50,000	Tornado	Main damage at Mertzon. Approximately 24 persons injured, 2 critically. Buildings demolished in the business section.
Wichita, Kans	17-19			1		Snow	This storm severe for February at this station. One person died of exposure.
Petrey, Ala	18			1	1,000	Wind	Property damaged.
Columbia, Mo	19	12:35 a. m.				Snow	Rain before midnight formed a thin coating of ice on streets and highways, after which 11.8 inches of snow fell.
Dayton, Ohio, and vicinity	19	5:16 p. m.				do	3 inches of slush on roads. Most extensive trouble from the heavy wet snow to communication lines.
Chicago, Ill.[1]	19					do	Transportation delayed because of blinding snow, 3 inches falling. Most highways in northern and west-central Illinois covered with ice or snow.
Providence, R. I	25-26			2		Snow and ice	Snow that fell on the 25th caused icy streets and highways on the 26th.
Tucker County, W. Va., and vicinity.	27					Glaze	Ice on highways in mountainous districts caused travel to be extremely hazardous. Much damage to telephones, wires, and poles.
New England [1]	28			1		Snow and wind	
Pennsylvania, western portion	28					Snow	8 inches of snow fell in the mountainous sections of Somerset County on the southwest and 5 inches in the Bradford area on the north.

[1] From press reports.