CLIMATOLOGICAL TABLES[1]

CONDENSED CLIMATOLOGICAL SUMMARY

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

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

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

Condensed climatological summary of temperature and precipitation by sections, March, 1929

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	59.6	+3.5	4 stations	93	24	Valley Head	20	10	15.35	+9.60	Elba	33.85	Madison	8.77
Arizona	51.1	−1.4	Parker	98	30	Bright Angel (Ranger Station.)	−2	[2] 1	0.46	−0.65	Pinal Ranch	2.43	5 stations	0.00
Arkansas	55.7	+3.0	Harrison	98	24	Dutton	19	[2] 1	3.77	−0.97	Clinton	6.27	Cotter	1.35
California	49.4	−1.2	Dudley	98	2	Helm Creek	−18	25	2.35	−1.50	Fordyce Dam	8.70	4 stations	0.00
Colorado	34.7	−0.2	Canon City	84	6	Hermit	−29	1	1.48	+0.15	Trout Lake	6.08	Cope	0.02
Florida	69.1	+3.3	Orlando	95	24	2 stations	34	[2] 3	3.21	+0.26	Bluff Springs	19.41	Mammoth Grove	0.45
Georgia	60.4	+3.7	3 stations	94	[2] 24	Clayton	16	11	10.17	+5.38	Goat Rock	20.32	Savannah	2.74
Idaho	36.0	0.0	Parma	75	28	Big Springs	−12	31	1.46	−0.18	Roland	5.10	Aberdeen	0.18
Illinois	47.0	+6.4	Harrisburg	94	24	Waukegan	2	7	3.39	+0.18	Golden	7.00	Roberts	1.54
Indiana	47.6	+6.9	3 stations	91	[2] 24	Rochester	6	7	3.11	−0.75	La Porte	5.84	Logansport	1.33
Iowa	39.1	+4.5	Keosauqua	83	24	Mason City	−5	9	1.44	−0.33	Wever	4.92	Sac City	0.30
Kansas	46.9	+3.1	2 stations	92	24	Tribune	9	1	0.94	−0.54	Lyndon	3.10	2 stations	T.
Kentucky	52.0	+5.7	Hopkinsville	94	24	2 stations	9	10	4.17	−0.52	Middlesboro	10.20	St. John	1.94
Louisiana	63.4	+2.7	Ruston	95	24	Robeline	25	2	6.06	+1.39	Winnsboro	11.53	Lake Charles	2.38
Maryland-Delaware	48.2	+5.6	Western Port, Md.	86	24	Friendsville, Md.	4	10	3.17	−0.49	Public Landing, Md	5.40	Frostburg, Md.	1.90
Michigan	35.9	+6.2	Monroe	75	25	Humboldt	−22	8	2.07	−0.15	Morenci	4.13	Vanderbilt (near)	0.83
Minnesota	31.0	+4.9	Taylors Falls	70	29	2 stations	−30	9	1.00	−0.11	New Ulm	2.31	Milan	0.22
Mississippi	60.2	+3.4	Macon	96	24	Port Gibson	24	2	8.65	+2.92	Hickory	15.33	Austin	3.84
Missouri	48.6	+4.7	Jefferson City	97	24	Seymour	11	10	3.30	+0.28	Monroe City	6.13	Grant City	0.47
Montana	34.3	+4.1	Medicine Lake	75	28	Cascade	−11	24	1.20	+0.31	Trout Creek	4.10	Kinread	0.08
Nebraska	40.5	+4.9	2 stations	83	24	Gordon	2	25	0.80	−0.30	Hay Springs	3.76	Alma	0.00
Nevada	41.0	0.0	Logandale	86	29	Millett	1	24	0.84	+0.03	Mahoney Ranger Station.	2.57	2 stations	0.00
New England	35.2	+2.9	Bridgeport, Conn.	78	22	Pittsburgh (a), N. H.	−33	11	3.41	+0.18	Somerset, Vt.	5.93	Presque Isle, Me.	1.43
New Jersey	44.9	+6.4	Pleasantville	81	22	Culvers Lake	5	10	3.07	−0.84	Chatham	4.92	Hightstown	1.92
New Mexico	42.3	−1.2	Artesia	87	24	Elizabethtown	−26	1	0.94	+0.08	Levy	3.26	Animas	0.00
New York	38.2	+6.2	Mount Hope	78	22	McKeever	−26	10	3.21	+0.15	South Edwards	6.00	Chazy	1.03
North Carolina	54.1	+4.2	2 stations	91	24	Mount Mitchell	0	10	5.94	+1.66	Rock House	14.16	Manteo	1.58
North Dakota	30.5	+7.9	Carson	77	29	2 stations	−15	[2] 7	0.78	−0.05	Mott	3.00	Pembina	0.00
Ohio	45.8	+6.6	Ironton	92	25	Hiram	3	8	2.83	−0.60	Dam No. 28, Ohio River.	4.53	North Bass Island	1.38
Oklahoma	53.3	+2.2	2 stations	97	[2] 6	Boise City	9	1	3.42	+1.25	Chickasha	6.72	Boise City	0.97
Oregon	43.0	+0.8	Grants Pass	81	4	Austin	0	4	2.64	−0.68	Goverrment Camp	10.39	2 stations	T.
Pennsylvania	43.7	+6.2	Vandergrift	89	25	Montrose	−5	9	2.69	−0.85	Warren	4.50	Ebensburg	1.37
South Carolina	57.6	+2.8	2 stations	93	25	2 stations	20	11	7.59	+3.61	Caesars Head	12.57	Charleston	2.05
South Dakota	36.0	+5.1	do	75	28	Pollock	−5	6	1.78	+0.67	Harveys Ranch	4.25	Flandreau	0.33
Tennessee	54.3	+4.8	Clarksville	94	24	Elkmont	11	10	7.75	+2.40	Rock Island	14.64	Memphis	3.63
Texas	61.0	+2.3	Riogrande	102	23	Vega	10	1	2.58	+0.52	Bon Wier	8.62	2 stations	0.05
Utah	37.8	−0.6	St. George	83	29	Beaver	−7	25	1.62	+0.12	Morgan	7.45	Otter Creek Reservoir.	0.12
Virginia	50.6	+4.8	Pedlar Dam	93	25	Burkes Garden	5	10	3.97	+0.24	Pedlar Dam	6.10	Staunton	2.08
Washington	42.1	+1.2	Trinidad	73	18	Bumping Lake	9	31	3.39	−0.17	Mt. Baker Lodge	17.74	Wahluke	T.
West Virginia	46.7	+3.9	2 stations	92	25	Pickens	−2	10	3.47	−0.42	Camden-on-Gauley.	6.65	Morgantown	1.27
Wisconsin	32.8	+3.6	Lancaster	69	14	Long Lake	−22	9	1.65	−0.06	Plum Island	3.56	Grantsburg	0.57
Wyoming	29.6	+0.1	Cody	72	28	Moran	−23	22	1.75	+0.68	Sundance	4.29	Deaver	0.32
Alaska (February)	18.2	+7.5	Lignite	52	14	Eagle	−49	22	2.86	+1.05	Latouche	19.90	McKinley Park	0.04
Hawaii	70.0	+1.4	Waipahu	92	[2] 28	Volcano Observatory.	46	7	7.55	−2.30	Honomu	40.71	6 stations	0.00
Porto Rico	74.0	+0.2	Canovanas	94	10	Guineo Reservoir	49	8	4.75	+1.21	Rio Grande	12.08	Ponce	0.54

[1] For description of tables and charts, see REVIEW, January, 1929, p. 36.

[2] Other dates also.

TABLE 1.—*Climatological data for Weather Bureau stations, March, 1929*

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F.		° F	° F	° F.	° F	%	In.	In.		Miles								0–10	In.	In.
New England							**37.6**	**+4.8**										**75**	**3.48**	**0.0**										**6.0**		
Eastport	76	67	85	29.75	29.84	−0.09	31.0	+2.1	52	31	38	−4	11	24	28	29	24	74	3.11	−0.7	17	8,062	s.	36	nw.	8	4	13	14	7.0	24.0	1.8
Greenville, Me	1,070	6	----	28.66	29.86	------	27.0	------	55	19	36	−15	11	17	45	----	----	----	2.05	------	12	------	nw.	----	------	18	11	9	11	----	19.0	----
Portland, Me	103	82	117	29.78	29.90	−.06	35.6	+3.8	61	12	43	3	11	28	36	31	26	71	3.41	−0.4	12	6,568	sw.	36	nw.	6	14	5	12	5.4	5.9	0.0
Concord	289	70	79	29.56	29.89	−.11	35.6	+4.8	63	12	45	3	10	26	44	----	----	----	3.78	+0.8	12	4,419	nw.	24	nw.	9	11	9	11	5.3	5.3	0.0
Burlington	403	11	48	29.44	29.89	−.11	32.8	+3.7	59	19	41	−1	10	25	30	----	----	----	2.47	+0.4	14	8,316	s.	39	s.	21	3	7	21	7.8	4.5	0.0
Northfield	876	12	60	28.93	29.91	−.09	31.5	+5.1	59	12	41	−8	10	22	48	29	25	82	2.54	0.0	14	5,779	s.	28	sw.	22	3	11	17	7.5	12.9	0.0
Boston	125	115	188	29.75	29.89	−.08	41.4	+5.8	69	22	50	9	10	33	33	36	30	69	2.80	−0.8	11	7,136	sw.	34	sw.	7	12	6	13	5.8	4.0	0.0
Nantucket	12	14	90	29.88	29.89	−.09	39.9	+4.4	62	13	47	12	10	33	23	37	34	83	4.66	+0.9	16	11,231	sw.	55	ne.	2	11	5	15	6.4	1.9	0.0
Block Island	26	11	46	29.86	29.89	−.09	39.9	+4.5	64	22	46	12	10	34	24	37	34	82	4.59	+0.8	15	12,555	sw.	54	w.	7	12	7	12	5.1	2.0	0.0
Providence	160	215	251	29.73	29.91	−.07	41.6	+5.9	73	22	50	8	10	33	33	36	29	67	3.17	−0.3	13	8,666	nw.	45	nw.	7	12	5	14	5.3	5.2	0.0
Hartford	159	122	----	29.74	29.92	−.07	41.6	+6.6	73	22	51	8	10	32	30	----	----	----	3.52	−0.4	15	------	sw.	----	------	----	14	7	10	4.7	3.9	0.0
New Haven	106	74	153	29.82	29.94	−.05	42.4	+6.6	75	22	51	10	10	33	35	38	33	74	4.19	+0.1	15	6,509	s.	35	nw.	8	11	11	9	5.2	1.6	0.0
Middle Atlantic States							**47.2**	**+6.7**										**69**	**2.84**	**−0.6**										**5.6**		
Albany	97	107	115	29.82	29.92	−.09	38.8	+6.1	64	16	48	6	10	30	43	34	29	72	3.10	+0.5	15	5,407	sw.	30	s.	25	10	9	12	5.7	5.2	0.0
Binghamton	871	10	84	28.98	29.93	−.09	40.9	+8.3	68	23	50	7	10	31	34	----	----	----	2.03	−0.6	14	4,564	nw.	34	sw.	7	3	12	16	7.1	3.2	0.0
New York	314	414	454	29.61	29.95	−.05	44.8	+7.1	75	22	54	12	10	36	28	39	32	66	3.51	−0.1	12	13,166	nw.	60	nw.	7	10	12	9	5.7	0.3	0.0
Bellefonte, Pa	1,050	5	36	28.83	29.96	------	40.8	------	75	24	53	7	10	28	43	36	31	72	1.83	------	9	------	w.	----	------	----	7	9	14	6.2	7.1	0.0
Harrisburg	374	94	104	29.57	29.98	−.05	45.8	+6.9	78	24	55	13	10	36	35	39	32	63	2.19	−0.8	11	5,306	sw.	33	sw.	7	10	9	12	5.5	5.0	0.0
Philadelphia	114	123	367	29.85	29.98	−.04	48.4	+7.6	78	22	58	14	10	39	30	43	38	72	2.22	−1.2	10	10,662	sw.	48	nw.	7	10	9	12	5.7	T.	0.0
Reading	325	81	98	29.61	29.96	------	46.6	------	75	22	56	13	10	37	32	41	34	67	2.66	−0.9	10	5,150	nw.	32	nw.	7	11	9	11	5.3	3.0	0.0
Scranton	805	111	119	29.08	29.96	−.06	42.4	+6.7	72	22	52	7	10	33	34	37	33	74	1.95	−1.2	14	5,382	sw.	33	w.	7	4	10	17	7.4	4.4	0.0
Atlantic City	52	37	172	29.92	29.98	−.04	45.9	+7.3	79	22	54	13	10	38	34	40	36	75	3.25	−0.4	12	13,672	sw.	52	w.	7	13	7	11	4.8	T.	0.0
Cape May	17	13	49	------	------	------	46.6	+5.8	78	24	55	15	10	38	33	42	38	79	3.14	------	13	------	s.	----	------	----	13	7	11	----	T.	0.0
Sandy Hook	22	10	55	29.92	29.94	------	43.5	------	74	22	51	14	10	36	26	39	34	76	2.38	−1.7	15	10,743	nw.	51	w.	7	9	12	10	5.3	T.	0.0
Trenton	190	159	183	29.75	29.96	------	46.0	------	77	22	56	11	10	36	30	40	34	68	2.34	−1.1	12	8,234	sw.	43	nw.	7	12	7	12	5.6	T.	0.0
Baltimore	123	100	215	29.85	29.98	−.05	50.2	+7.9	83	24	60	16	10	40	34	43	35	63	3.16	−0.6	11	7,908	sw.	54	sw.	7	14	6	11	5.3	T.	0.0
Washington	112	62	85	29.86	29.98	−.06	50.2	+7.6	84	24	60	15	10	40	38	43	34	60	2.64	−1.1	9	5,422	s.	40	nw.	7	14	5	12	5.4	T.	0.0
Cape Henry	18	8	54	29.99	30.01	------	54.2	------	87	26	64	25	10	45	33	47	42	69	3.36	−0.5	7	9,588	sw.	50	nw.	7	11	11	9	5.1	0.0	0.0
Lynchburg	681	153	188	29.26	30.01	−.04	52.8	+5.5	87	24	64	20	10	42	35	44	37	60	3.22	−0.3	10	6,388	sw.	40	nw.	7	13	10	8	4.8	0.0	0.0
Norfolk	91	170	205	29.93	30.03	.00	54.4	+6.2	86	24	64	21	10	45	31	47	41	66	2.80	−1.0	8	11,368	s.	61	w.	7	11	9	11	5.2	0.0	0.0
Richmond	144	11	52	29.87	30.02	−.02	52.8	+5.6	87	24	63	18	10	42	35	45	39	66	3.96	+0.3	10	7,027	sw.	40	nw.	7	11	11	9	5.2	T.	0.0
Wytheville	2,304	49	55	27.62	30.01	−.04	47.6	+5.3	84	25	58	14	10	37	36	41	35	68	3.51	+0.1	15	5,341	w.	35	w.	16	9	7	15	5.7	3.2	0.0
South Atlantic States							**58.5**	**+4.8**										**73**	**4.67**	**+0.9**										**5.3**		
Asheville	2,253	70	84	27.66	30.04	−.02	50.4	+5.5	87	25	60	20	10	40	36	43	37	69	5.85	+1.9	13	7,342	se.	36	nw.	7	12	13	6	4.8	0.4	0.0
Charlotte	779	55	62	29.20	30.04	−0.1	55.8	+5.4	90	25	66	26	10	46	35	48	42	68	7.09	+2.9	13	4,636	sw.	33	nw.	7	9	12	10	5.5	0.0	0.0
Greensboro	886	5	56	29.09	30.05	------	51.9	------	87	25	64	19	11	40	42	45	40	73	4.34	------	12	7,007	sw.	42	sw.	23	10	9	12	5.5	0.0	0.0
Hatteras	11	11	50	30.04	30.04	.00	56.6	+4.6	78	24	63	30	11	50	26	53	49	78	2.41	−1.8	12	10,672	s.	48	nw.	7	12	10	9	4.8	0.0	0.0
Raleigh	376	103	110	29.64	30.04	−.01	55.6	+5.4	88	24	66	23	10	45	32	49	44	73	6.00	+2.1	12	6,516	sw.	35	nw.	7	9	11	11	5.8	0.0	0.0
Wilmington	78	81	91	29.99	30.08	+.03	58.9	+5.6	87	24	68	28	10	50	26	54	50	78	2.06	−1.1	10	6,483	s.	28	w.	2	9	13	9	5.2	0.0	0.0
Charleston	48	11	92	30.01	30.06	.00	61.4	+4.0	88	24	69	38	10	54	26	55	51	74	2.05	−1.0	10	8,628	sw.	37	w.	5	9	13	9	5.4	0.0	0.0
Columbia, S. C	351	41	57	29.67	30.06	.00	58.9	+3.7	91	24	69	31	10	49	29	52	48	74	5.27	+1.9	13	5,698	s.	42	sw.	23	10	15	6	4.9	0.0	0.0
Due West	711	10	55	29.29	30.07	------	56.2	------	88	25	66	29	10	46	33	----	----	----	10.94	------	13	6,906	sw.	40	w.	5	8	10	13	5.6	0.0	0.0
Greenville, S. C	1,039	139	146	28.93	30.04	------	55.1	+5.2	88	25	64	27	10	46	30	48	42	68	9.03	+3.9	14	6,506	ne.	40	sw.	5	9	9	13	5.8	0.0	0.0
Augusta	182	62	77	29.84	30.03	−.03	61.0	+5.0	93	25	71	34	3	51	33	53	47	67	6.72	+2.6	14	4,430	nw.	34	w.	5	10	14	7	5.2	0.0	0.0
Savannah	65	150	194	29.99	30.06	.00	63.2	+4.2	92	24	72	38	6	54	27	56	52	75	2.74	−0.3	10	9,539	s.	48	w.	5	9	12	10	5.6	0.0	0.0
Jacksonville	43	209	245	30.00	30.05	−.01	66.8	+4.2	89	27	75	43	6	58	27	59	55	74	2.14	−0.8	10	8,778	s.	47	sw.	23	11	9	11	5.3	0.0	0.0
Florida Peninsula							**73.0**	**+3.2**										**77**	**2.91**	**+0.9**										**4.2**		
Key West	22	10	64	30.00	30.02	−.03	75.7	+3.1	85	16	81	57	7	71	17	69	67	78	1.25	−0.1	6	7,236	se.	36	nw.	5	18	7	6	3.5	0.0	0.0
Miami	25	71	164	30.03	30.06	−.03	72.9	+2.7	85	16	79	48	6	67	27	67	65	79	5.31	+3.1	11	7,950	se.	41	sw.	5	11	10	10	5.3	0.0	0.0
Tampa	35	79	87	30.01	30.05	−.02	70.5	+3.7	89	25	79	51	6	62	26	62	59	75	2.18	−0.2	7	4,699	e.	24	e.	12	9	11	11	5.1	0.0	0.0
Titusville	44	5	----	30.00	30.05	------	----	------	91	28	----	45	7	62	----	----	----	----	0.63	------	6	------	se.	----	------	----	19	12	0	2.7	0.0	0.0
East Gulf States							**61.4**	**+3.9**										**72**	**10.95**	**+5.8**										**5.2**		
Atlanta	1,173	190	216	28.79	30.04	−.02	56.8	+4.8	87	24	66	32	10	48	32	50	44	68	13.28	+8.0	13	8,745	nw.	41	nw.	5	10	9	12	5.8	T.	0.0
Macon	370	78	87	29.65	30.05	−.01	60.6	+3.9	92	24	71	33	3	50	33	54	49	71	10.89	+5.9	7	5,005	s.	26	sw.	5	9	12	10	5.5	0.0	0.0
Thomasville	273	49	58	29.75	30.05	−.01	64.5	+4.3	92	24	75	40	11	54	35	56	51	70	5.48	+1.4	10	3,876	sw.	26	sw.	5	10	11	10	5.5	0.0	0.0
Apalachicola	36	42	49	30.01	30.05	------	63.8	------	81	28	70	45	11	58	20	59	56	79	5.24	+1.0	9	6,458	se.	28	w.	5	13	11	7	4.2	0.0	0.0
Pensacola	56	149	185	29.97	30.03	−.03	63.0	+2.7	82	23	68	41	10	58	19	58	55	79	6.42	+1.6	8	10,357	s.	51	s.	14	13	9	9	4.9	0.0	0.0
Anniston	741	9	57	29.24	30.04	−.02	57.8	+5.3	90	24	69	29	10	46	39	----	----	----	12.58	+6.9	14	4,895	se.	20	nw.	5	15	7	9	4.9	0.0	0.0
Birmingham	700	11	48	29.26	30.02	−.04	59.4	+4.0	89	24	69	30	10	50	34	51	44	65	13.14	+7.4	14	6,358	se.	31	se.	13	9	12	10	5.2	0.0	0.0
Mobile	57	125	161	29.95	30.01	−.05	63.6	+3.9	89	23	71	40	2	56	24	57	54	79	20.23	+14.2	9	7,603	s.	34	sw.	23	9	14	8	5.1	0.0	0.0
Montgomery	223	100	112	29.78	30.03	−.03	61.8	+4.0	90	24	71	35	10	53	30	55	50	70	15.38	+9.4	11	5,397	se.	24	e.	15	11	12	8	4.8	0.0	0.0
Corinth	469	6	----	------	------	------	57.2	------	92	24	68	28	10	47	35	----	----	----	9.30	------	11	------	s.	----	------	----	6	21	4	----	0.0	0.0
Meridian	375	87	95	29.60	30.00	−.05	60.8	+3.7	93	24	71	33	10	50	33	53	47	68	13.70	+8.5	10	4,711	sw.	28	w.	23	9	14	8	5.4	0.0	0.0
Vicksburg	247	65	73	29.72	30.00	−.04	61.2	+2.7	92	24	71	34	10	52	29	54	48	69	8.86	+3.3	11	5,387	se.	29	nw.	4	10	12	9	5.0	0.0	0.0
New Orleans	53	76	84	29.94	30.00	−.04	66.2	+3.4	90	23	74	43	10	58	24	60	57	80	6.25	+1.5	8	5,090	se.	22	sw.	23	9	9	13	5.7	0.0	0.0
West Gulf States							**62.2**	**+3.0**										**72**	**2.85**	**+0.1**										**5.2**		
Shreveport	249	77	93	29.68	29.96	−.06	61.6	+3.3	91	23	71	35	2	52	31	53	47	67	3.08	−1.0	9	5,006	se.	22	s.	6	14	9	8	4.8	0.0	0.0
Bentonville	1,303	11	44	28.54	29.91	−.10	51.0	+3.7	89	24	61	27	1	41	33	----	----	----	2.05	------	13	------	s.	----	s.	31	16	7	8	----	0.0	0.0
Fort Smith	457	79	94	29.44	29.93	−.08	55.0	+2.4	92	24	65	30	2	45	37	49	44	73	5.45	+2.4	12	6,126	e.	32	w.	4	13	7	11	5.5	0.0	0.0
Little Rock	357	136	153	29.57	29.95	−.08	56.8	+3.8	90	24	66	31	2	47	33	49	43	66	4.72	+0.1	17	6,860	sw.	40	nw.	31	8	7	16	6.5	0.0	0.0
Austin	605	136	148	29.28	29.91	------	63.9	+3.2	92	23	74	36	2	53	37	56	51	70	3.62	+1.3	13	5,676	se.	35	nw.	12	9	13	9	5.3	0.0	0.0
Brownsville	57	83	100	29.83	29.89	------	71.0	+2.8	90	12	79	43	2	63	27	64	61	80	0.26	−1.0	5	9,026	s.	33	s.	3	13	14	4	3.9	0.0	0.0
Corpus Christi	20	11	78	29.89	29.91	−.07	68.6	+3.6	87	23	74	51	5	63	25	63	60	81	1.06	−0.5	5	9,207	se.	32	nw.	4	8	12	11	5.6	0.0	0.0
Dallas	512	220	227	29.38	29.93	------	60.4	------	90	23	70	37	5	50	35	----	----	----	2.43	−0.4	6	9,597	se.	38	ne.	7	14	9	8	4.1	0.0	0.0
Fort Worth	670	106	114	29.19	29.90	−.08	60.8	+3.1	91	23	72	38	2	50	38	52	45	62	1.39	−0.9	5	7,061	s.	30	w.	4	8	13	10	5.5	0.0	0.0
Galveston	54	106	114	29.91	29.97	−.04	64.4	+2.0	79	29	69	45	2	60	16	60	58	86	3.57	+0.9	6	7,730	se.	28	nw.	4	10	13	8	5.0	0.0	0.0
Groesbeck	461	11	56	29.44	29.93	------	61.7	------	89	23	72	35	2	52	33	----	----	----	2.31	−0.3	11	7,653	s.	40	s.	31	11	14	6	4.9	0.0	0.0
Houston	138	292	314	29.81	29.96	------	64.9	+1.6	89	23	73	41	2	57	27	----	----	----	2.33	−1.2	7	9,181	se.	33	w.	4	8	9	14	5.7	0.0	0.0
Palestine	510	64	72	29.41	29.94	−.06	61.8	+2.7	92	23	72	34	2	52	34	55	50	71	3.21	−0.3	8	5,883	s.	28	s.	31	10	11	10	5.1	0.0	0.0
Port Arthur	34	58	66	29.92	29.96	------	64.8	------	82	26	72	41	1	58	21	----	----	----	1.60	------	7	5,459	se.	30	e.	12	9	11	11	5.4	0.0	0.0
San Antonio	693	119	132	29.18	29.91	−.07	65.8	+3.0	94	23	76	38	2	56	39	57	50	65	3.12	+1.3	11	4,570	ne.	27	nw.	4	9	14	8	5.1	0.0	0.0
Taylor	583	55	63	29.35	29.96	−.03	63.0	+3.3	92	23	74	32	2	52	39	----	----	----	3.30	+1.2	12	6,003	s.	32	s.	31	9	16	6	5.0	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, March, 1929*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F.		° F	° F	° F	° F	%	In.	In.		Miles								0–10	In.	In.
Ohio Valley and Tennessee							**50.2**	**+5.9**										**68**	**3.84**	**−0.3**										**6.1**		
Chattanooga	762	190	215	29.20	30.02	−0.04	55.6	+4.4	89	24	65	25	10	46	36	47	39	61	10.80	+5.0	17	6,514	se.	34	nw.	5	8	9	14	5.8	0.1	0.0
Knoxville	995	102	111	28.96	30.02	−.04	53.3	+4.6	88	25	63	24	10	44	34	47	42	72	6.69	+1.6	16	5,155	sw.	34	sw.	6	7	9	15	6.1	T.	0.0
Memphis	399	76	97	29.54	29.97	−.07	56.2	+3.9	86	24	64	29	10	49	25	49	44	67	3.63	−1.6	14	5,722	sw.	46	w.	31	9	10	12	5.9	0.0	0.0
Nashville	546	168	191	29.43	30.02	−.03	54.4	+5.2	88	24	64	23	10	45	36	47	40	64	6.48	+1.4	11	7,579	s.	38	nw.	6	7	12	12	5.8	1.5	0.0
Lexington	989	193	230	28.93	30.01	−.04	49.4	+5.7	86	25	59	15	10	40	34				3.67	−0.6	13	10,889	sw.	42	w.	16	11	11	9	5.1	7.5	0.0
Louisville	525	188	234	29.41	30.00	−.05	51.5	+6.1	88	24	61	19	10	42	33	45	39	67	2.30	−2.1	11	8,678	s.	38	w.	6	10	13	8	5.1	1.0	0.0
Evansville	431	76	116	29.53	30.00	−.04	51.4	+5.5	87	24	60	23	10	43	28	45	40	69	2.52	−1.7	13	7,590	s.	36	sw.	15	8	12	11	5.8	0.0	0.0
Indianapolis	822	194	230	29.06	29.96	−.08	47.2	+7.2	83	24	57	17	10	38	35	41	35	68	3.24	−0.7	15	8,999	s.	45	nw.	6	6	13	12	6.2	T.	0.0
Royal Center	736	11	55	29.14	29.95		44.4		75	24	54	12	10	35	38				3.87	+0.9	13	8,449	sw.	44	w.	6	6	10	15	6.6	T.	0.0
Terre Haute	575	96	129	29.32	29.95		48.8		85	24	58	17	10	39	38	42	38	73	3.63	−0.1	13	7,880	s.	38	nw.	6	9	11	11	6.0	0.2	0.0
Cincinnati	627	11	51	29.29	29.98	−.07	49.2	+8.3	88	25	58	16	10	40	34	43	37	69	2.51	−1.4	14	6,280	sw.	37	nw.	6	6	14	11	6.0	1.2	0.0
Columbus	822	179	222	29.09	29.97	−.07	47.4	+8.3	84	25	56	16	10	39	28	42	37	73	1.76	−1.7	14	8,123	s.	60	nw.	6	7	14	10	6.1	0.4	0.0
Dayton	899	137	173	29.00	29.96		47.7	+7.2	84	25	56	16	10	39	32	42	36	70	2.45	−1.2	14	7,535	sw.	46	nw.	6	4	17	10	6.5	0.5	0.0
Elkins	1,947	59	67	27.93	30.02	−.03	44.4	+4.4	86	25	58	7	10	31	44	38	33	72	3.42	−0.4	16	4,645	w.	36	w.	7	6	7	18	7.2	8.7	0.0
Parkersburg	637	77	82	29.34	30.00	−.05	48.4	+5.6	89	25	60	12	10	37	38	41	34	66	2.39	−1.1	14	4,641	se.	36	sw.	7	8	9	14	6.0	4.4	0.0
Pittsburgh	842	353	410	29.05	29.97	−.07	46.4	+6.8	84	25	56	11	10	37	33	39	33	64	2.15	−0.9	16	8,604	sw.	50	w.	7	4	10	17	6.9	3.1	0.0
Lower Lake Region							**40.9**	**+7.9**										**74**	**2.96**	**+0.3**										**7.0**		
Buffalo	767	247	280	29.06	29.91	−.11	38.1	+7.0	65	25	47	7	9	30	29	34	30	78	2.38	−0.2	21	13,375	sw.	74	w.	7	2	11	18	7.6	5.7	0.0
Canton	448	10	61	29.39	29.88		32.7	+5.0	58	19	41	−3	10	24	33				3.93	+1.4	21	7,395	sw.	36	sw.	19	5	10	16	6.8	7.3	0.0
Ithaca	836	5	100	29.00	29.92		39.3		66	23	49	5	10	30	34	34	30	75	2.78	+0.5	18	7,749	nw.	33	se.	25	4	11	16	7.3	8.1	0.0
Oswego	335	76	91	29.53	29.90	−.11	38.3	+7.1	68	23	46	9	8	31	34	34	30	76	2.76	+0.2	20	7,465	s.	34	sw.	7	2	6	23	8.1	7.4	0.0
Rochester	523	86	102	29.34	29.92	−.10	40.5	+8.7	70	25	49	8	9	32	36	35	29	70	2.43	−0.3	17	6,617	sw.	45	sw.	7	2	13	16	7.4	5.0	0.0
Syracuse	596	65	79	29.28	29.93	−.09	41.0	+9.6	68	23	50	10	10	32	34				2.51	−0.5	16	5,869	s.	24	sw.	7	2	13	16	7.4	6.1	0.0
Erie	714	130	166	29.15	29.94	−.08	42.2	+8.7	76	25	51	11	9	33	33	37	32	73	3.05	+0.4	18	10,809	sw.	58	sw.	6	3	17	11	6.4	2.5	0.0
Cleveland	762	190	201	29.11	29.94	−.09	43.6	+9.0	80	25	53	13	10	34	37	39	33	70	3.54	+0.8	17	9,959	sw.	64	w.	6	5	11	15	6.9	1.2	0.0
Sandusky	629	5	67	29.26	29.95	−.08	43.9	+8.8	78	25	53	14	10	34	36				3.01	+0.3	19	7,281	sw.	38	sw.	6	3	13	15	6.8	0.9	0.0
Toledo	628	208	243	29.25	29.94	−.09	43.3	+8.0	76	25	52	11	7	34	38	38	34	73	2.76	+0.2	20	10,650	sw.	56	w.	7	9	13	9	5.6	0.6	0.0
Fort Wayne	856	113	124	29.00	29.94		44.5	+5.6	75	25	53	12	7	36	35	39	35	75	3.57	+0.4	15	7,255	sw.	39	w.	7	5	10	16	6.7	0.3	0.0
Detroit	730	218	258	29.12	29.92	−.11	41.7	+8.3	74	25	51	10	7	33	38	37	34	80	2.85	+0.4	18	8,446	sw.	48	w.	6	6	11	14	6.5	2.4	0.0
Upper Lake Region							**34.3**	**+6.1**										**79**	**2.48**	**+0.3**										**6.4**		
Alpena	609	13	92	29.21	29.89	−.14	33.0	+7.5	61	18	42	0	8	24	35	30	26	78	1.96	0.0	13	8,442	nw.	40	nw.	6	9	7	15	6.1	9.3	4.0
Escanaba	612	54	60	29.21	29.90	−.14	29.2	+5.0	59	27	37	−3	9	21	32	26	23	82	1.41	−0.5	12	7,233	s.	36	nw.	7	11	8	12	5.7	5.5	1.5
Grand Haven	632	54	89	29.21	29.91	−.12	37.2	+5.5	67	25	44	8	7	30	32	34	31	82	2.32	−0.1	13	9,073	s.	60	w.	6	4	14	13	6.7	0.3	T.
Grand Rapids	707	70	87	29.13	29.92	−.11	39.6	+6.2	66	12	48	9	7	32	37	35	30	73	2.06	−0.4	14	4,854	w.	36	nw.	6	4	13	14	6.5	1.8	0.0
Houghton	668	64	99	29.13	29.87	−.17	27.4	+4.6	57	29	36	−6	9	19	43				3.85	+1.8	16	6,637	e.	42	nw.	6	4	7	20	7.5	23.9	T.
Lansing	878	6	49	28.96	29.92		39.4	+7.2	66	25	49	9	7	30	37	35	32	83	3.15	+0.8	14	5,143	sw.	34	w.	7	8	10	13	6.2	4.2	0.0
Ludington	637	60	66	29.18	29.89		35.0		55	23	41	8	7	29	37	32	29	84	1.64	−0.6	12	7,896	s.	42	nw.	6	5	9	17	6.9	6.0	3.4
Marquette	734	77	111	29.06	29.84	−.20	30.1	+5.3	58	27	38	1	9	22	31	27	24	82	1.84	−0.4	16	6,939	w.	36	nw.	6	5	4	22	7.5	12.2	T.
Port Huron	638	70	120	29.20	29.91	−.12	38.8	+8.4	71	25	48	9	8	30	35	34	31	78	1.97	−0.1	17	8,860	sw.	52	w.	6	3	20	8	5.8	1.6	0.0
Sault Sainte Marie	614	11	52	29.18	29.90	−.13	28.1	+6.5	55	29	36	−11	9	21	38	26	23	84	2.08	+0.2	15	6,007	se.	31	nw.	30	4	14	13	6.8	8.7	T.
Chicago	673	7	131	29.18	29.92	−.11	43.2	+7.9	71	24	52	9	7	35	36	37	32	71	5.23	+2.6	9	8,712	sw.	39	nw.	6	7	12	12	6.1	0.7	0.0
Green Bay	617	109	141	29.21	29.88	−.16	33.4	+4.8	61	27	42	1	7	25	32	30	27	81	2.11	+0.1	11	8,356	s.	44	ne.	31	6	12	13	6.3	8.5	6.0
Milwaukee	681	125	221	29.15	29.90	−.13	38.0	+5.9	65	27	46	1	7	30	33	34	29	73	3.32	+0.9	9	10,182	w.	41	nw.	6	7	11	13	6.2	4.2	1.8
Duluth	1,133	5	47	28.62	29.87	−.19	28.3	+4.6	57	29	36	−10	7	20	36	25	21	79	1.79	+0.2	10	8,976	sw.	53	nw.	6	9	8	14	6.1	11.1	0.0
North Dakota							**30.6**	**+8.2**										**78**	**1.10**	**+0.3**										**6.0**		
Moorhead	940	50	58	28.83	29.87	−.21	30.9	+8.2	64	28	40	−5	7	22	39	28	24	80	1.01	0.0	7	6,210	n.	26	nw.	6	7	9	15	6.8	7.1	0.0
Bismarck	1,674	8	57	28.04	29.86	−.20	32.2	+8.0	67	28	41	5	7	23	33	28	24	77	1.61	+0.7	10	6,721	nw.	34	w.	29	7	14	10	5.8	6.2	T.
Devils Lake	1,478	11	44	28.24	29.86	−.19	28.6	+8.8	66	28	38	−2	7	19	35	25	22	83	0.76	0.0	11	6,983	ne.	32	nw.	29	8	11	12	5.5	6.5	0.0
Ellendale	1,457	10	56	28.27	29.86		32.7		66	28	41	0	9	24	38				0.78	0.0	11	10,062	nw.	49	nw.	6	6	12	13	6.4	3.8	0.0
Grand Forks	833	12	67				29.0		63	28	39	−6	7	19	42	26			0.85		8		s.		s.	28	5	7	19		1.5	0.0
Williston	1,878	41	48	27.84	29.86	−.18	30.8	+7.9	67	28	40	3	6	22	38	28	23	74	1.32	+0.6	7	6,012	w.	37	w.	29	10	10	11	5.4	11.8	0.3
Upper Mississippi Valley							**41.9**	**+5.8**										**73**	**2.88**	**+0.6**										**6.2**		
Minneapolis	918	102	208	28.85	29.85		34.2	+4.6	60	29	42	−3	7	26	34				1.31	−0.1	9	8,040	nw.	41	nw.	6	6	9	16	6.5	4.4	0.6
St. Paul	837	236	261	28.95	29.88	−.17	33.2	+4.1	58	27	41	−3	7	25	31				1.29	−0.1	8	8,216	nw.	40	nw.	6	4	11	16	6.8	3.8	0.7
La Crosse	714	11	48	29.10	29.89	−.15	36.0	+4.5	61	27	44	2	7	28	31	32	27	75	1.85	+0.2	7	3,896	s.	20	nw.	6	6	10	15	6.7	6.3	6.0
Madison	974	70	78	28.84	29.92	−.12	35.6	+5.0	64	27	43	1	7	28	29	32	28	78	2.30	+0.2	9	6,912	sw.	31	nw.	7	9	6	16	6.3	8.0	3.7
Wausau	1,247	4	64	28.52	29.89		31.6		58	29	40	−2	7	24	25				2.40	+0.6	8	4,678	w.	26	nw.	6	18	5	8	6.5	12.3	5.7
Charles City	1,015	10	51	28.81	29.91	−.14	34.2	+3.5	60	27	43	1	9	25	31	31	28	80	1.67	−0.1	6	5,330	se.	28	nw.	6	8	11	12	5.7	5.9	4.7
Davenport	606	71	79	29.24	29.90	−.13	43.4	+7.3	74	24	52	12	7	34	36	38	34	75	2.60	+0.3	12	8,679	sw.	50	nw.	6	8	9	14	6.1	0.5	0.0
Des Moines	861	84	97	28.98	29.90	−.14	40.8	+4.9	73	24	50	10	9	32	38	36	31	74	1.11	−0.7	5	5,429	sw.	28	sw.	18	6	10	15	6.5	0.7	0.0
Dubuque	700	81	96	29.14	29.90	−.14	38.6	+4.6	64	18	47	7	7	30	30	34	29	71	2.41	+0.4	9	5,013	s.	32	nw.	6	8	7	16	6.5	2.7	0.3
Keokuk	614	64	78	29.24	29.93	−.10	46.0	+7.1	81	24	56	16	9	36	38	39	34	69	4.78	+2.4	9	5,788	s.	34	w.	6	7	7	17	6.6	T.	0.0
Cairo	358	87	93	29.59	29.98	−.06	52.9	+5.7	88	24	61	26	10	45	25	47	41	71	3.54	−0.2	13	7,314	s.	37	sw.	31	8	7	16	6.3	T.	0.0
Peoria	609	11	45	29.26	29.93	−.10	45.4	+8.4	81	24	56	17	7	35	40	39	35	74	4.57	+1.8	9	5,895	s.	33	nw.	6	13	10	8	4.7	T.	0.0
Springfield, Ill	636	154	191	29.24	29.92	−.11	47.2	+7.0	84	24	57	20	10	38	40	41	36	72	2.96	−0.2	7	9,847	s.	47	nw.	6	8	8	15	6.3	T.	0.0
Hannibal	534	74	109	29.34	29.92	−.10	48.0	+7.0	87	24	58	19	9	38	41				5.11	+2.5	8	6,979	sw.	32	w.	6	9	8	14	5.9	T.	0.0
St. Louis	568	265	303	29.32	29.93	−.10	50.8	+7.0	92	24	61	22	10	41	40	44	38	68	5.33	+2.0	11	9,995	s.	40	nw.	6	12	8	11	5.3	T.	0.0
Missouri Valley							**43.4**	**+5.8**										**68**	**1.82**	**0.0**										**5.4**		
Columbia, Mo	784	6	84	29.08	29.92	−.11	48.5	+5.9	89	24	60	19	9	38	41				4.05	+1.1	8	6,093	s.	36	nw.	6	9	10	12	6.1	T.	0.0
Kansas City	963	161	181	28.87	29.92	−.10	48.2	+5.5	87	24	58	19	9	39	39	41	34	62	3.28	+0.8	4	7,514	s.	42	nw.	31	11	11	9	5.1	T.	0.0
St. Joseph	967	11	49	28.86	29.90		46.4		86	24	56	17	9	37	43	39	32	63	1.98	−0.1	7	6,235	sw.	34	nw.	6	14	7	10	4.6	T.	0.0
Springfield, Mo	1,324	98	104	28.53	29.94	−.08	49.4	+4.2	91	24	59	25	10	40	38	43	37	69	2.97	−0.4	13	7,948	s.	30	se.	12	10	10	11	5.5	T.	0.0
Iola	984	11	50	28.85	29.91	−.10	49.4	+4.9	89	24	61	24	9	38	40				1.55	−1.1	9	4,922	s.	25	n.	6	7	13	11	5.8	0.0	0.0
Topeka	987	92	107				48.0	+5.4	88	24	58	22	9	38	45				2.01	−0.1	7	7,067	sw.	40	nw.	6	11	10	10	5.3	0.3	0.0
Lincoln	1,189	11	81	28.61	29.89	−.13	42.6	+5.1	69	27	52	21	9	33	37	36	29	65	0.08	−1.2	2	7,196	s.	38	nw.	6	9	9	13	5.6	T.	T.
Omaha	1,105	115	122	28.70	29.90	−.14	42.4	+5.4	68	27	51	14	9	34	32	36	28	63	0.54	−0.8	4	5,864	nw.	34	nw.	6	11	11	9	5.2	1.5	T.
Valentine	2,598	47	54	27.13	29.88	−.15	37.9	+5.6	71	10	49	13	1	27	40	32	26	69	2.56	+1.5	11	7,344	w.	36	sw.	10	10	14	7	5.2	17.4	4.0
Sioux City	1,135	94	164	28.66	29.90	−.15	39.6	+6.9	68	29	49	13	9	30	33	34	29	70	1.12	0.0	8	9,165	nw.	51	nw.	6	8	15	8	5.7	7.1	4.2
Huron	1,306	59	74	28.46	29.89	−.17	36.4	+7.5	67	28	45	11	7	27	35	32	28	76	1.50	+0.6	10	6,949	nw.	33	nw.	6	9	13	9	5.5	5.9	T.
Pierre	1,572	70	75		29.88	−.17	38.6	+7.1	71	28	49	16	7	28	37				1.28	0.0	13	6,476	nw.	36	nw.	6	11	7	13		5.6	0.5
Yankton	1,233	49	57	28.53	29.87	−.18	39.6	+6.4	70	29	50	15	9	30	39				0.79	−0.5	8	6,230	w.	33	nw.	6	9	11	11	5.7	6.0	5.0

TABLE 1.—*Climatological data for Weather Bureau stations, March, 1929*—Continued

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month.
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F.		° F	° F	° F	° F	%	In.	In.		Miles								0–10	In.	In.
Northern Slope							35.0	+3.7										67	1.38	+0.4											6.0	
Billings	3,140	5					37.4		72	28	50	10	14	25	41				1.06		9		nw.				15	2	14		10.4	1.0
Havre	2,505	11	44	27.20	29.87	−0.13	36.4	+9.3	73	28	48	8	6	25	41	32	27	71	0.85	+0.3	6	5,685	sw.	32	sw.	26	6	12	13	6.5	5.7	T.
Helena	4,110	87	112	25.66	29.91	−.10	36.4	+4.0	66	28	45	5	24	28	34	31	24	62	1.14	+0.4	9	6,820	sw.	32	sw.	1	5	9	17	6.8	15.3	0.0
Kalispell	2,973	48	56	26.81	29.90	−0.9	35.8	+2.9	55	27	43	16	24	28	27	32	26	70	0.63	−0.3	8	3,796	nw.	25	sw.	5	5	13	13	6.5	1.8	0.0
Miles City	2,371	48	55	27.32	29.91	−.11	36.7	+8.1	71	28	46	14	15	28	33	32	26	71	1.72	+0.9	13	5,291	s.	33	nw.	29	7	14	10	6.0	9.7	0.0
Rapid City	3,259	50	58	26.43	29.90	−.11	36.6	+4.0	72	28	47	12	25	26	41	31	23	60	2.69	+1.7	11	6,298	n.	34	n.	29	10	11	10	5.3	24.1	4.0
Cheyenne	6,088	84	101	23.83	29.90	−.06	32.6	−0.5	58	29	42	6	1	23	32	27	19	60	1.51	+0.5	13	11,048	w.	44	w.	1	10	5	16	6.1	15.1	T.
Lander	5,372	60	68	24.49	29.92	−.07	32.4	0.0	61	28	44	5	1	21	35	28	24	72	1.36	+0.2	7	3,787	se.	50	nw.	29	14	12	5	4.3	9.9	T.
Sheridan	3,790	10	47	25.95	29.91		34.6		66	28	46	8	15	24	39	29	24	70	2.56	+1.4	13	4,611	nw.	32	nw.	1	8	14	9	5.7	24.1	4.0
Yellowstone Park	6,241	11	48	23.73	29.97	−.05	28.2	+1.7	52	27	38	5	31	18	34	24	19	69	1.03	−0.6	14	6,178	sw.	34	sw.	5	5	7	19	6.9	9.8	T.
North Platte	2,821	11	51	26.92	29.87	−.13	40.4	+3.8	74	29	53	12	1	28	39	33	25	62	0.28	−0.6	7	6,080	w.	29	n.	4	7	13	11	5.8	0.9	0.0
Middle Slope							46.2	+2.9										57	1.86	+0.2											5.08	
Denver	5,292	106	113	24.57	29.87	−.08	39.8	+0.5	70	29	50	16	14	29	32	32	22	53	2.16	+1.1	11	4,933	s.	31	nw.	11	10	12	9	5.7	24.8	T.
Pueblo	4,685	80	86	25.14	29.85	−.07	42.6	+1.0	76	29	56	12	1	29	50	34	22	49	0.30	−0.3	5	5,600	nw.	40	w.	2	12	11	8	5.2	2.9	0.0
Concordia	1,392	50	58	28.43	29.92	−.09	46.1	+5.1	73	24	57	22	1	35	41	38	30	62	0.06	−1.2	3	6,047	s.	31	s.	11	4	10	17	6.9	T.	0.0
Dodge City	2,509	11	51	27.30	29.93	−.04	46.4	+3.6	84	24	60	19	1	33	53	36	27	55	0.48	−0.4	1	7,072	nw.	33	se.	11	16	6	9	4.4	T.	0.0
Wichita	1,358	139	158	28.45	29.90	−.09	49.1	+4.0	85	24	59	27	1	39	40	41	33	60	0.88	−0.9	6	8,689	s.	33	s.	11	8	15	8	5.8	0.0	0.0
Broken Arrow	765	11	56	29.10	29.92		52.4		89	24	62	28	1	42	36				4.13	+0.3	9	9,703	s.	36	se.	12	5	11	15	6.6	0.0	0.0
Oklahoma City	1,214	10	47	28.62	29.91	−.07	53.1	+3.1	91	24	64	27	1	42	36	44	36	62	5.05	+3.1	8	7,811	s.	26	s.	2	9	9	13	6.0	T.	0.0
Southern Slope							55.6	+1.0										54	1.52	+0.6											4.6	
Abilene	1,738	10	52	28.10	29.90	−.06	57.8	+1.3	92	24	69	33	1	47	41	48	38	56	2.72	+1.4	8	6,840	s.	29	s.	2	11	7	13	5.2	0.0	0.0
Amarillo	3,676	10	49	26.16	29.90	−.05	48.9	+2.0	82	6	62	18	1	36	47	39	30	56	1.84	+1.1	4	6,734	w.	27	w.	12	10	14	7	4.7	0.0	0.0
Del Rio	944	64	71	28.88	29.86	−.09	65.7	+2.2	95	31	77	38	1	54	43	54	44	55	0.72	0.0	9	6,276	se.	39	nw.	3	16	8	7	4.2	0.0	0.0
Roswell	3,566	75	85	26.27	29.88	−.02	49.8	−1.5	83	6	64	17	1	35	50	39	26	47	0.80	+0.1	2	5,949	sw.	30	sw.	24	12	14	5	4.4	0.0	0.0
Southern Plateau							50.4	−0.4										44	0.21	−0.3											3.6	
El Paso	3,778	152	175	26.11	29.89	+.01	54.4	−1.4	81	30	66	25	1	42	37	40	22	34	0.21	−0.2	1	8,981	w.	48	w.	11	18	12	1	3.2	0.0	0.0
Santa Fe	7,013	38	53	23.12	29.88	−.01	37.8	−1.9	67	29	49	−1	1	27	38	30	19	52	0.59	−0.2	5	4,614	n.	27	sw.	23	10	13	8	5.3	10.4	0.0
Flagstaff	6,907	10	59	23.25	29.88	−.03	35.5	−0.4	64	29	48	2	25	22	41	30		68	1.10		7		nw.		s.	23	10	19	2		1.5	0.0
Phoenix	1,108	10	107	28.75	29.91	.00	60.4	−0.3	86	30	75	34	25	46	38	45	27	33	0.13	−0.6	2	4,173	e.	27	sw.	10	17	6	8	3.5	0.0	0.0
Yuma	141	9	54	29.78	29.94	.00	63.0	−1.1	93	29	78	37	25	48	44	48	29	33	0.02	−0.3	1	4,161	w.	27	n.	26	20	11	0	2.4	0.0	0.0
Independence	3,957	6	27	25.93	29.96	+.02	51.4	+2.9	81	29	66	22	24	37	39	37			0.08	−0.4	3		nw.				14	13	4		0.0	0.0
Middle Plateau							40.5	−0.4										56	0.98	−0.1											5.0	
Reno	4,532	74	81	25.44	30.01	+.03	42.4	+1.4	72	4	55	14	24	30	42	35	26	56	0.67	−0.1	6	4,437	w.	36	w.	10	14	8	9	4.9	1.5	0.0
Tonopah	6,090	12	20				39.2		66	28	48	16	24	30	24	32	21	50	0.20		3		nw.									
Winnemucca	4,344	18	56	25.60	30.02	+.01	39.2	−0.8	69	5	54	11	31	24	46	34	26	61	0.55	−0.4	5	4,878	sw.	28	sw.	5	16	13	2	3.9	0.5	0.0
Modena	5,473	10	43	24.53	29.90	−.06	38.8	+0.6	68	29	52	10	25	26	41	31	20	53	0.68	−0.4	5	7,345	w.	58	sw.	10	11	10	10	4.8	2.8	0.0
Salt Lake City	4,360	163	203	25.56	29.97	−.01	40.3	−1.4	63	28	48	23	25	32	28	34	28	62	1.96	0.0	11	4,626	nw.	34	nw.	21	9	7	15	6.4	10.3	0.0
Grand Junction	4,602	60	68	25.29	29.88	−.06	41.6	−2.0	69	29	52	17	1	31	34	33	23	52	1.02	+0.3	8	3,885	n.	31	s.	11	10	12	9	5.1	2.5	0.0
Northern Plateau							42.3	+0.8										63	0.86	−0.4											6.2	
Baker	3,471	48	53	26.41	30.03	.00	37.8	+0.2	61	27	47	20	30	28	31	33	27	65	0.47	−0.6	10	4,364	se.	23	sw.	5	7	13	11	6.2	1.2	0.0
Boise	2,739	78	86	27.14	30.02	−.01	42.8	+0.1	66	28	52	25	31	34	28	37	30	62	1.41	+0.1	8	4,005	se.	28	nw.	28	9	6	16	6.5	3.9	0.0
Lewiston	757	40	48	29.18	30.00	−.03	46.4	+1.0	69	9	57	30	14	36	33				1.01	−0.1	11	2,922	e.	27	sw.	5	7	10	14	6.2	0.3	0.0
Pocatello	4,477	60	68	25.39	29.96	−.05	37.6	+0.2	59	28	46	20	14	29	28	32	25	65	0.82	−0.5	11	6,788	sw.	36	sw.	2	5	14	12	6.2	6.0	0.0
Spokane	1,929	101	110	27.90	29.98	−.03	41.7	+2.0	60	15	50	24	30	33	32	37	30	66	0.91	−0.3	10	4,709	sw.	28	sw.	26	9	6	16	6.4	2.0	0.0
Walla Walla	991	57	65	28.93	30.01	−.01	47.7	+1.6	72	27	56	32	23	39	27	41	32	56	0.56	−1.0	10	4,042	s.	28	w.	21	9	10	12	5.9	0.4	0.0
North Pacific Coast Region							45.6	+0.4										76	3.20	−0.5											7.2	
North Head	211	11	56	29.87	30.10	+.09	44.6	−0.6	54	19	48	36	22	41	12	43	42	91	5.57	0.0	25	10,197	s.	54	s.	25	4	12	15	7.0	0.0	0.0
Port Angeles	29	8	53		30.06		42.9		55	18	49	31	14	36	21				1.94	−0.6	11	4,137	sw.	30	w.	21	3	12	16		T.	0.0
Seattle	125	215	250	29.92	30.05	+.06	45.0	+0.1	60	14	51	33	30	39	25	42	39	79	2.73	−0.3	15	6,160	s.	32	s.	5	4	7	20	7.6	T.	0.0
Tacoma	194	172	201	29.85	30.06	+.06	45.2	+1.0	63	19	52	32	18	39	29				4.00	+0.5	17	5,887	sw.	35	sw.	21	2	13	16	7.2	T.	0.0
Tatoosh Island	86	9	53	29.93	30.03	+.07	44.0	+1.1	52	18	47	37	29	41	11	43	41	91	6.40	−1.4	21	9,797	s.	54	s.	27	6	6	19	7.3	0.0	0.0
Yakima	1,076	58	67	28.83	29.99		45.0		67	3	56	26	12	34	34	38	29	56	0.45	+0.1	5	3,938	nw.	35	nw.	21	10	6	15	5.9	T.	0.0
Medford	1,425	4	80	28.56	30.08		45.8		76	4	59	22	29	33	46	40	33	66	0.93		7		nw.	27	se.	9	1	16	14	7.0	2.0	0.0
Portland, Oreg.	153	68	106	29.93	30.09	+.07	47.7	+0.8	66	19	55	33	12	41	26	44	39	73	2.90	−1.0	16	3,712	nw.	22	w.	28	2	2	27	8.5	0.2	0.0
Roseburg	510	75	99	29.56	30.12	+.08	46.8	−0.3	74	4	56	30	29	37	37	43	38	74	2.02	−1.3	15	2,384	nw.	21	nw.	28	1	13	17	7.5	0.3	0.0
Middle Pacific Coast Region							52.8	0.0										70	1.44	−1.9											4.9	
Eureka	62	73	89	30.08	30.15	+.09	47.6	−0.7	73	4	54	34	24	42	28	45	42	81	2.31	−2.9	11	4,685	n.	31	n.	30	9	6	16	6.3	0.0	0.0
Red Bluff	330	54	58	29.69	30.05	+.01	54.6	+1.0	84	3	66	33	11	43	33	47	37	57	1.26	−2.0	6	4,096	nw.	28	nw.	21	11	7	13	5.7	0.0	0.0
Sacramento	69	106	117	29.97	30.04	+.01	54.1	−0.2	80	3	65	36	25	43	31	49	43	72	0.78	−1.8	5	5,303	se.	27	se.	9	16	8	7	3.6	0.0	0.0
San Francisco	155	208	243	29.91	30.08	+.02	54.2	0.0	81	3	61	43	24	48	25	48	43	71	1.56	−1.6	7	5,621	w.	34	w.	22	12	10	9	4.8	0.0	0.0
San Jose	141	12	110	29.92	30.08		53.4	−0.3	83	4	65	33	25	42	38				1.31	−1.3	5	4,446	nw.	31	w.	22	13	10	8	4.3	0.0	0.0
South Pacific Coast Region							56.1	−0.3										69	1.75	−0.3											4.3	
Fresno	327	89	98	29.70	30.06	+.05	55.4	+0.4	84	4	67	34	25	44	33	48	40	62	1.53	0.0	7	3,847	nw.	27	nw.	22	16	9	6	4.0	0.2	0.0
Los Angeles	338	159	191	29.67	30.04	+.02	57.2	−0.3	79	4	66	40	24	48	30	50	44	68	2.51	−0.3	4	3,835	sw.	22	nw.	13	13	10	8	4.2	0.0	0.0
San Diego	87	62	70	29.94	30.04	+.02	55.6	−1.1	75	1	62	42	25	49	27	50	47	76	1.22	−0.5	9	4,645	w.	24	w.	13	13	10	8	4.7	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.94	30.02		75.2	−0.2	83	10	80	67	17	70	13				2.47	−0.7	20	10,073	e.	36	e.	15	8	19	4	5.0	0.0	0.0
Panama Canal																																
Balboa Heights	118	7	97	[1]29.76	[1]29.84	.00	80.9	−0.3	92	5	90	70	17	72	20			[2]74	2.19	+1.4	3	6,824	nw.	25	nw.	25	4	15	12	6.2	0.0	0.0
Cristobal	38	7	97	[1]29.84	[1]29.87	−.01	81.7	+0.2	88	1	86	74	8	77	13	74	72	[2]79	2.59	+1.1	12	9,787	n.	30	nw.	6	4	19	8	6.1	0.0	0.0
Alaska																																
Juneau	80	11	50	[1]29.65	[1]29.74		35.1		47	23	39	21	6	31	16	33	30	80	6.15		24	5,711	e.	30	e.	13	2	3	26	8.8	22.6	3.8
Hawaiian Islands																																
Honolulu	38	86	100	[1]30.00	[1]30.04		72.9		80	22	78	64	6	68	13	66	63	72	0.28	−2.9	7	5,542	e.	25	ne.	4	8	17	6	5.2	0.0	0.0

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

[2] Observations taken bihourly.

TABLE 2.—*Data furnished by the Canadian Meterological Service, March, 1929*

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				25.3		32.6	18.0	44	2	5.41		2.6
Sydney, C. B. I	48	29.76	29.81	−0.07	26.6	+0.4	36.1	17.2	51	−10	2.66	−2.27	14.0
Halifax, N. S	88	29.75	29.86	−.08	30.7	+1.7	38.8	22.7	53	0	2.35	−3.11	8.3
Yarmouth, N. S	65												
Charlottetown, P. E. I	38	29.72	29.76	−.14	26.8	+1.4	34.3	19.4	50	−9	3.53	+0.32	25.3
Chatham, N. B	28	29.70	29.73	−.17	24.9	+1.9	34.8	15.0	52	−13	2.27	−1.20	9.6
Father Point, Que	20												
Quebec, Que	296	29.55	29.88	−.08	25.6	+4.4	31.9	19.4	47	−12	2.47	−0.79	13.4
Doucet, Que	1,236				16.2		28.1	4.3	43	−38	0.62		6.2
Montreal, Que	187	29.65	29.87	−.13	30.0	+6.2	36.6	23.4	53	−2	5.93	+2.14	16.2
Ottawa, Ont	236	29.62	29.90	−.11	30.1	+8.6	37.7	22.5	52	−4	3.18	+0.46	10.8
Kingston, Ont	285	29.58	29.90	−.11	33.3	+7.7	39.8	26.8	50	2	3.01	+0.37	3.4
Toronto, Ont	379	29.48	29.90	−.12	36.9	+9.6	44.4	29.3	65	4	3.42	+0.78	3.2
Cochrane, Ont	930				16.4		26.4	6.4	50	−27	1.98		17.4
White River, Ont	1,244	28.50	29.85	−.18	18.4	+6.2	30.4	6.4	48	−36	1.95	+0.57	13.5
London, Ont	808				37.6		46.8	28.3	69	4	3.81		5.3
Southampton, Ont	656	29.16	29.89	−.14	32.9	+8.2	40.8	25.0	55	0	3.32	+0.67	12.0
Parry Sound, Ont	688	29.17	29.88	−.14	30.0	+8.9	37.2	22.8	50	−13	3.70	+1.47	13.3
Port Arthur, Ont	644	29.16	29.89	−.16	25.8	+9.0	34.0	17.6	55	−12	1.62	+0.65	9.0
Winnipeg, Man	760												
Minnedosa, Man	1,690	28.00	29.87	−.19	21.3	+8.8	31.6	11.0	64	−23	0.58	−0.07	5.8
Le Pas, Man	860				15.1		28.8	1.5	57	−35	1.58		15.8
Qu'Appelle, Sask	2,115	27.54	29.83	−.21	25.1	+10.2	34.6	15.6	68	−16	0.46	−0.31	4.6
Moose Jaw, Sask	1,759				30.3		41.8	18.9	64	−5	0.75		6.0
Swift Current, Sask	2,392	27.23	29.78	−.24	32.5	+10.5	43.9	21.2	67	−4	0.55	−0.26	3.8
Medicine Hat, Alb	2,144												
Calgary, Alb	3,428												
Banff, Alb	4,521												
Prince Albert, Sask	1,450	28.28	29.92	−.16	18.9	+6.9	31.7	6.1	61	−29	0.82	+0.05	7.4
Battleford, Sask	1,592	28.08	29.86	−.20	26.9	+13.8	38.4	15.4	62	−16	0.12	−0.34	1.0
Edmonton, Alb	2,150												
Kamloops, B. C	1,262												
Victoria, B. C	230	29.77	30.03	+.06	44.6	+2.7	49.6	39.6	56	35	2.19	−0.93	0.0
Barkerville, B. C	4,180	25.47	29.82	−.06	28.4	+2.3	36.4	20.5	47	1	2.88	+0.99	26.6
Estevan Point, B. C	20				41.5		47.4	35.6	52	28	8.77		T.
Prince Rupert, B. C	170				39.2		43.8	34.7	52	27	12.21		18.6
Hamilton, Ber	151	30.00	30.17	+.09	63.7	+1.5	69.3	58.1	76	51	2.74	−2.39	0.0

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Kingston, Ont	285	29.77	30.11	+.07	17.8	0.0	25.9	9.8	42	−10	1.13	−1.41	10.1
White River, Ont	1,244	28.65	30.05	+.03	−1.3	−1.5	14.0	−16.6	35	−46	0.96	−0.56	9.6
Winnipeg, Man	760	29.26	30.16	+.06	−0.3	+1.3	8.8	−9.5	30	−26	0.28	−0.70	2.8
Medicine Hat, Alb	2,144	27.68	30.06	+.01	7.8	−3.4	18.6	−3.0	39	−32	1.40	+0.73	13.0
Calgary, Alb	3,428	26.36	30.11	+.12	13.2	−0.3	25.3	1.2	46	−30	0.55	−0.08	5.5
Banff, Alb	4,521	25.30	30.11	+.13	12.0	−7.2	24.0	0.0	37	−27	0.74	−0.18	7.4
Edmonton, Alb	2,150	27.66	30.08	+.06	8.6	+0.3	18.2	−0.9	45	−39	1.05	+0.38	10.5
Kamloops, B. C	1,262	28.91	30.28	+.32	15.4	−12.9	22.6	8.2	45	−13	0.06	−0.73	0.5
Barkerville, B. C	4,180	25.64	30.10	+.19	14.9	−4.0	24.3	5.5	36	−17	2.55	−0.51	25.5
Estevan Point, B. C	20				36.5		44.4	28.6	48	15	2.02		0.0
Prince Rupert, B. C	170				34.7		39.6	29.9	46	11	4.97		6.7
Hamilton, Ber	151	30.00	30.17	+.06	62.8	+1.3	68.8	56.8	74	44	2.42	−2.02	0.0