eastern Pacific coupled with cyclonic conditions over the extreme western part of the United States. On these dates strong northwesterly winds were experienced close in along the central California coast, attaining force 10 on the 21st, as reported by the American steamer *Malolo*, near 38° N., 123° W., and force 11 on the 22d, as reported by the British motorship *Ary Lensen*, in 38° 55′ N., 124° 21′ W. On the 23d and 24th, strong northwesterly gales occurred some 4 or 5 degrees west of the coast of Oregon. On March 30 a fresh northwest gale was reported by a ship near Point Conception.

No tropical storms occurred on the North Pacific this month, but strong northeast trades (force 7) were experienced south of the Hawaiian Islands on the 11th and 12th, and a norther of force 7 occurred near the Gulf of Tehuantepec on the 12th.

Fog.—Fog was reported on 2 days off the Oregon coast; on 7 days off the California coast, and on 1 day near Cape San Lucas. Dense, delaying fog occurred at the mouth of the Columbia River on March 2. Along the northern Pacific routes fog mantled a considerable sea area between 46° and 52° N., 150° and 170° W., on the 27th to 29th. Between latitudes 33°–38° N., longitudes 139°–170° W., fog occurred on 8 days. In east longitudes fog was noted on 4 days near mid-Pacific, and on 3 days off the China coast.

CLIMATOLOGICAL TABLES

CONDENSED CLIMATOLOGICAL SUMMARY

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

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

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

Condensed climatological summary of temperature and precipitation, by sections, March 1936

[For description of tables and charts, see REVIEW, January, p. 29]

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	59.8	+4.0	Selma No. 1	90	25	Florence	27	18	3.61	−2.14	Madison	7.78	Millry	0.81
Arizona	54.1	+.8	2 stations	95	20	Alpine	−7	29	.98	+.02	Pinal Ranger Station.	4.67	5 stations	.00
Arkansas	57.1	+4.5	Magnolia	88	[1] 15	Dutton	22	17	2.19	−2.55	England	6.03	De Queen	.05
California	52.4	+.9	2 stations	105	[1] 17	Soda Springs	−12	25	1.86	−1.68	2 stations	7.61	3 stations	.00
Colorado	36.9	+2.4	Las Animas	89	13	Hermit (near)	−21	26	.99	−.30	Cascade	4.04	Salida	.02
Florida	65.3	.0	2 stations	92	[1] 26	4 stations	33	[1] 13	3.29	+.16	Inverness	6.89	Palatka	1.36
Georgia	58.9	+2.7	do	92	[1] 24	Blairsville	20	17	4.32	−.56	Athens No. 2	7.01	Quitman	2.15
Idaho	33.0	−2.8	Kooskia	74	20	Deadwood	−24	30	1.45	−.33	Roland	7.51	Howe	T
Illinois	44.8	+4.7	3 stations	81	23	Marengo	5	6	1.70	−1.35	Shawneetown	5.31	Sycamore	.14
Indiana	44.6	+4.0	Shoals	84	30	2 stations	6	10	2.74	−1.01	Mt. Vernon	5.65	Hobart	1.20
Iowa	39.2	+4.7	Keokuk No. 2	80	23	do	−1	31	1.02	−.70	Charles City	3.14	Mt. Ayr	T
Kansas	48.5	+5.2	Liberal	90	9	Tribune	9	24	.14	−1.28	Columbus	1.33	7 stations	.00
Kentucky	50.7	+4.4	2 stations	81	30	Farmers	19	6	4.85	+.12	Russellville	7.79	Louisville	2.99
Louisiana	63.3	+2.7	Urania	93	24	2 stations	30	18	2.07	−2.65	Plain Dealing	3.91	Lake Arthur	.70
Maryland-Delaware	47.2	+5.0	Cumberland, Md	83	30	do	15	2	5.84	+2.27	Grantsville, Md	9.39	Solomons, Md	3.26
Michigan	32.7	+2.9	2 stations	70	24	Vanderbilt	−28	1	1.09	−1.07	Ironwood	4.63	Croswell	.19
Minnesota	26.4	+.1	Winnebago	68	28	Warroad	−32	5	1.50	+.31	Pigeon River Bridge	3.50	Alexandria	.20
Mississippi	60.8	+3.9	3 stations	90	[1] 25	2 stations	28	[1] 13	2.93	−2.83	Booneville	7.32	Biloxi	.70
Missouri	49.4	+5.6	Caruthersville	84	26	Downing	13	6	1.27	−1.99	New Madrid	4.05	Tarkio	T
Montana	30.8	+.1	Ballantine	70	6	Summit	−29	30	.72	−.23	Trout Creek (near)	4.32	Deer Lodge	.03
Nebraska	40.5	+4.2	McCook	85	9	Harrison	−6	30	.57	−.58	Mullen	1.92	5 stations	T
Nevada	43.4	+3.0	Logandale	88	15	Marlette Lake	2	[1] 23	.59	−.38	Marlette Lake	2.41	2 stations	T
New England														
New Jersey	45.3	+6.2	3 stations	78	30	Layton	−1	2	5.28	+1.50	Charlotteburg	9.08	Tuckerton	2.07
New Mexico	44.8	+1.0	Nara Visa (near)	90	20	McGaffey Ranger Station.	−14	24	.32	−.42	Aspen Grove Ranch	2.28	35 stations	.00
New York	39.0	+6.8	Bedford Hills	77	30	Indian Lake	−2	20	5.54	+2.47	Mt. McGregor	9.00	Letchworth Park	1.29
North Carolina	52.6	+2.7	3 stations	88	31	Mt. Mitchell	8	[1] 18	6.22	+1.95	Swansboro	14.32	New Holland	3.50
North Dakota	25.5	+1.2	4 stations	61	[1] 9	Hannah	−27	5	.81	+.08	Howard	2.48	Hettinger	.20
Ohio	43.0	+4.2	Portsmouth	81	30	Hiram	8	6	3.64	+.26	Gallipolis (near)	5.48	Oxford	1.13
Oklahoma	56.3	+5.6	Hugo	91	29	Goodwell	16	24	.51	−1.65	Tishomingo	3.29	18 stations	.00
Oregon	39.8	−1.2	Grants Pass	82	[1] 20	Fall River	−18	31	1.97	−.77	Crossett	11.38	Morgan	.04
Pennsylvania	42.6	+4.9	Greensburg	85	29	Gouldsboro	−3	2	6.84	+3.30	Bakers Summit	10.06	Grove City	3.01
South Carolina	56.5	+1.9	2 stations	90	31	Long Creek	23	22	5.33	+1.42	Landrum	9.72	Orangeburg	2.45
South Dakota	33.7	+2.8	Tyndall	75	9	4 stations	−9	[1] 5	.78	−.33	Arlington	2.11	Bison	T
Tennessee	53.3	+3.9	3 stations	84	[1] 26	Rugby	18	7	6.77	+1.34	Gatlinburg	10.64	Union City	2.86
Texas	62.0	+3.5	Falfurrias	102	23	Romero	16	24	1.02	−1.01	Sinton	4.94	13 stations	.00
Utah	38.4	.0	St. George	81	17	Woodruff	−5	23	1.32	−.07	Silver Lake	4.94	Panguitch	.15
Virginia	49.8	+4.0	Kenbridge	85	30	Big Meadows	17	13	5.83	+2.06	Shenandoah Camp No. 3.	11.92	Mineral	3.17
Washington	39.5	−2.0	4 stations	73	[1] 19	Lake Keechelus	−9	31	3.34	−.34	Big Four	14.65	2 stations	.00
West Virginia	45.3	+2.9	Hastings	86	30	Alpena	10	20	6.21	+2.24	Romeny	9.94	Bens Run	3.62
Wisconsin	30.8	+1.5	Beloit	75	23	Long Lake	−18	1	1.58	−.19	Flambeau Reservoir	3.32	Milwaukee Airport	.18
Wyoming	29.3	−.5	Wheatland	73	9	2 stations	−35	30	1.17	.00	Moose	3.36	Deaver	.20
Alaska (February)	2.4	−4.8	Dutch Harbor	55	16	Fort Yukon	−60	[1] 6	1.05	−.72	Dutch Harbor	9.01	3 stations	.00
Hawaii	69.2	+.3	Molokai Ranch	92	[1] 8	Kanalohuluhulu	34	21	9.30	+.37	Piihonua	37.30	Waianae Valley	.00
Puerto Rico	73.2	−.1	Mayaguez	95	20	Guineo Reservoir	37	28	1.42	−2.06	Guineo Reservoir	4.80	La Fe	.00

[1] Other dates also.

TABLE 1.—*Coimatological data for Weather Bureau stations, March 1936*

[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, 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							40.2	+7.2										79	5.83	+2.6										6.5		
Eastport	76	67	85	29.89	29.97	+0.04	36.8	+7.9	55	17	43	8	2	31	20	35	32	86	4.48	+0.6	15	8,688	sw.	41	se.	12	4	6	21	7.5	7.7	0.0
Greenville, Maine	1,070	6	40																													
Portland, Maine	103	82	117	29.82	29.94	−.02	38.2	+6.4	62	29	44	10	2	32	26	34	29	74	7.48	+3.6	18	7,123	n.	38	se.	12	14	4	13	5.4	11.7	.0
Concord	289	60																														
Burlington	403	11	48	29.43	29.89	−.11	36.6	+7.5	63	29	45	−6	2	28	36	33	29	76	3.80	+1.8	17	8,034	s.	38	s.	4	7	8	16	6.9	3.8	.0
Northfield	876	12	60	28.94	29.91	−.09	34.2	+7.8	64	30	45	−14	2	24	43	31	27	79	6.05	+3.5	19	5,752	s.	25	sw.	31	5	7	19	7.5	2.9	T
Boston [1]	29	31	50	29.89	29.92	−.05	41.8	+6.2	70	31	49	15	7	34	33	37	32	75	6.40	+2.8	12	7,932	e.	31	w.	28	9	7	15	6.5	2.9	.0
Nantucket	12	14	90	29.92	29.92	−.06	43.2	+7.7	60	30	49	25	7	38	17	40	37	83	4.27	+.5	13	11,992	s.	41	sw.	13	9	9	13	6.0	T	.0
Block Island	26	11	46	29.88	29.91	−.07	40.2	+4.8	61	30	46	21	7	35	20	38	35	86	6.50	+2.7	15	11,509	s.	43	nw.	22	7	11	13	6.4	2.6	.0
Providence	160	215	251	29.75	29.93	−.05	43.8	+8.1	70	31	52	15	7	36	34	38	33	73	6.78	+3.3	13	9,390	nw.	47	se.	18	12	7	12	5.6	3.2	.0
Hartford	159	70	104	29.74	29.92	−.07	43.4	+8.4	71	30	52	10	8	35	29				6.10	+2.2	16	6,500	s.	37	nw.	22	7	9	15	6.5	5.5	.0
New Haven	106	74	153	29.81	29.92	−.07	43.4	+7.6	65	30	51	14	7	26	27	39	34	76	6.43	+2.3	16	7,134	s.	30	nw.	22	8	10	13	6.4	3.3	.0
Middle Atlantic States							47.2	+6.5										74	4.81	+1.3										6.9		
Albany	97	97	112	29.80	29.90	−.11	42.3	+9.6	73	29	51	6	2	33	37	38	33	74	5.39	+2.8	18	5,658	s.	30	se.	11	8	8	15	6.7	.3	.0
Binghamton	871	57	79	28.95	29.90	−.12	40.7	+8.1	69	30	50	4	2	31	35				6.24	+3.6	20	5,151	ne.	30	nw.	22	2	8	21	8.2	5.1	.0
New York	314	415	454	29.55	29.90	−.10	45.3	+7.6	72	30	53	17	7	38	26	40	35	72	3.97	+.3	16	10,945	s.	65	nw.	22	8	9	14	6.3	1.2	.0
Harrisburg	374	94	104	29.47	29.88	−.15	45.2	+6.3	73	30	53	16	2	37	28	40	34	70	6.61	+3.6	12	6,147	ne.	30	nw.	22	4	10	17	7.2	4.8	.0
Philadelphia	114	174	367	29.78	29.91	−.11	48.3	+7.5	75	30	57	24	2	40	28	42	37	72	4.02	+.6	14	9,616	s.	41	se.	17	5	9	17	6.6	T	.0
Reading	3	283	306	29.54	29.90		46.1	+6.1	74	30	55	16	2	38	31	41	35	70	4.77	+1.2	17	9,019	se.	45	nw.	22	5	10	16	6.7	2.4	.0
Scranton	805	72	104	29.01	29.89	−.13	43.4	+7.7	74	30	53	13	2	34	35	38	32	71	5.25	+2.0	17	5,211	sw.	32	nw.	22	3	13	15	7.1	1.7	.0
Atlantic City	52	37	172	29.84	29.90	−.12	43.8	+5.2	73	31	50	24	2	38	28	40	37	80	3.87	+.3	16	13,007	s.	46	e.	11	5	7	19	7.0	T	.0
Sandy Hook	22	10	57	29.87	29.89		42.8		67	30	49	22	7	37	24	39	36	82	3.40	−.6	16	10,026	s.	49	nw.	22	5	11	15	6.3	.2	.0
Trenton	190	88	106	29.69	29.90		46.4	+7.3	75	30	56	19	2	37	32	41	37	76	3.78	−.1	14	7,603	s.	33	se.	17	5	9	17	6.9	T	.0
Baltimore	123	100	215	29.76	29.89	−.14	48.8	+6.5	75	29	57	24	2	41	28	43	39	74	6.42	+2.7	15	7,953	se.	34	s.	17	6	8	17	7.0	1.6	.0
Washington	112	62	85	29.76	29.88	−.16	50.3	+7.7	76	30	60	26	2	41	44	43	37	68	4.47	+.7	14	5,834	nw.	34	nw.	21	5	10	16	7.0	T	.0
Cape Henry	18	8	54	29.88	29.90		51.6	+5.0	81	24	60	33	2	43	38	46	42	78	3.82	.0	16	8,650	sw.	32	nw.	21	8	8	15	6.4	T	.0
Lynchburg	686	5		29.15	29.90	−.15	51.4	+4.1	79	31	64	28	2	39	46				7.48	+3.9	16		nw.				5	18	8		3.0	.0
Norfolk	91	80	125	29.81	29.91	−.12	53.8	+5.6	83	31	63	32	2	45	31	47	43	74	3.83	+.1	16	8,152	sw.	43	se.	17	4	11	16	7.0	T	.0
Richmond	144	11	52	29.75	29.90	−.14	52.4	+5.2	82	31	63	27	2	42	43	45	40	72	3.83	+.2	12	7,184	sw.	34	nw.	21	8	8	15	6.5	.0	.0
Wytheville	2,304	49	55		29.89	−.16	46.2	+3.9	71	30	57	24	18	36	35			70	4.59	+1.2	15	5,746	w.	30	w.	12	10	9	12		7.2	.0
South Atlantic States							57.6	+3.8										74	5.63	+1.9										5.9		
Asheville	2,253	89	104	27.56	29.93	−.13	49.0	+4.1	75	30	60	24	18	38	36	41	35	68	6.42	+2.4	15	7,554	nw.	38	nw.	17	7	10	14	6.2	12.2	.0
Charlotte	779	63	86	29.07	29.92	−.13	55.0	+4.6	83	31	65	32	17	45	32	47	42	69	7.12	+3.0	15	6,413	s.	30	nw.	24	8	9	14	6.2	T	.0
Greensboro	886	6	56	28.94	29.91		50.8		79	31	62	30	8	40	36	44	41	78	4.95		16	7,013	sw.	34	nw.	21	7	7	17	6.7	.5	.0
Hatteras	11	5	50	29.91	29.92	−.12	56.0	+4.0	72	31	62	37	1	50	20	52	50	84	7.24	+3.0	13	10,426	sw.	49	w.	12	9	9	13	5.7	.0	.0
Raleigh	376	103	146	29.49	29.90	−.15	55.2	+5.0	84	31	65	32	2	45	28	50	47	81	4.46	+.6	16	7,032	sw.	38	nw.	12	7	13	11	5.9	T	.0
Wilmington	72	73	107	29.86	29.93	−.12	57.8	+4.5	84	31	66	36	18	49	27	52	47	76	10.43	+7.3	12	7,810	s.	37	sw.	17	12	6	13	5.7	.0	.0
Charleston	48	11	92	29.88	29.93	−.13	59.9	+2.5	83	31	68	39	17	52	30	54	50	77	5.51	+2.5	8	8,094	w.	34	ne.	10	7	10	14	6.1	.0	.0
Columbia, S. C.	347	67	73	29.54	29.92	−.14	58.6	+3.4	87	31	69	35	17	48	30	50	44	67	5.36	+2.0	14	5,711	s.	28	w.	12	13	6	12	5.4	T	.0
Greenville, S. C.	1,039	139					54.1	+4.2	74	31	64	34	19	45	30				4.43	−.7	11		sw.				14	7	10		.0	.0
Augusta	182	62	77	29.72	29.91	−.15	60.0	+4.0	86	31	71	35	17	48	34	51	44	67	4.37	+.3	13	5,264	nw.	27	nw.	24	8	11	12	5.7	T	.0
Savannah	65	73	152	29.87	29.94	−.12	62.8	+3.8	87	31	72	39	17	53	32	54	49	73	3.67	+.6	9	9,575	s.	44	w.	17	10	12	9	5.5	.0	.0
Jacksonville	43	86	110	29.92	29.97	−.09	64.7	+2.1	87	26	74	43	18	56	29	56	51	72	2.93	.0	10	6,708	w.	30	w.	17	9	13	9	5.3	.0	.0
Florida Peninsula							69.6	−0.2										77	3.53	+1.5										5.1		
Key West	22	10	64	29.96	29.98	−.07	71.8	−.8	85	30	78	54	22	66	22	66	63	79	4.36	+3.0	6	8,076	se.	37	nw.	17	15	12	4	3.9	.0	.0
Miami	25	124	168	29.97	30.00	−.08	70.3	+.1	84	29	77	50	18	64	25	64	60	74	3.71	+1.5	10	7,678	se.	45	s.	9	9	14	8	5.5	.0	.0
Tampa	35	88	197	29.94	29.98	−.09	66.8	.0	84	30	74	48	18	60	24	60	56	78	2.53	+.1	10	8,321	s.	34	nw.	17	11	5	15	5.9	.0	.0
Titusville	43	5	36	29.92	29.97		66.1		88	30	76	41	19	56	32				4.33		8		w.				11	6	14		.0	.0
East Gulf States							61.4	+3.8										71	2.77	−2.4										5.5		
Atlanta [1]	976	5	53	28.90	29.92	−.14	56.5	+4.5	82	26	68	32	19	45	40	48	42	69	4.22	−1.1	10	7,521	nw.	43	nw.	17	10	10	11	5.5	T	.0
Macon	370	79	87	29.54	29.94	−.12	59.9	+3.2	84	31	72	36	17	48	36	50	43	62	3.06	−1.9	10	6,151	s.	32	nw.	17	13	7	11	5.0	T	.0
Thomasville	273	49	58	29.68	29.96	−.10	63.0	+2.8	85	31	74	39	18	52	32	56	52	77	3.15	−.9	8		sw.				8	10	13		.0	.0
Apalachicola	36	11	51	29.94	29.98		63.0		79	31	70	43	18	56	22	57			2.95	−1.3	12		s.				7	8	16		.0	.0
Pensacola	56	149	185	29.91	29.97	−.09	62.2	+1.9	77	10	68	40	18	56	25	58	55	83	2.78	−2.0	10	9,899	se.	35	nw.	20	10	8	13	5.5	.0	.0
Anniston	741	9					58.5	+6.0	83	26	71	32	21	46	38				3.82	−1.8	8		nw.				15	11	5		.0	.0
Birmingham	700	11	48	29.17	29.94	−.12	59.4	+4.0	84	26	70	34	18	49	35	50	43	64	2.87	−2.8	7	6,495	nw.	26	nw.	20	11	10	10	5.2	.0	.0
Mobile	57	86	105	29.90	29.96	−.10	63.0	+3.3	79	30	72	40	18	54	28	56	52	76	1.52	−4.5	10	6,335	s.	36	nw.	16	8	9	14	6.0	.0	.0
Montgomery	218	92	105	29.71	29.96	−.10	62.0	+4.2	87	26	73	38	18	51	37	52	44	62	2.08	−3.9	7	6,236	se.	31	nw.	16	10	10	11	5.6	.0	.0
Meridian	375	67	92	29.55	29.94	−.11	61.6	+4.5	87	26	73	37	18	50	36	52	46	66	1.96	−3.3	7	5,635	sw.	26	nw.	20	12	9	10	5.1	.0	.0
Vicksburg	247	65	73	29.68	29.94	−.10	63.0	+4.5	86	25	73	42	17	53	30	53	45	60	2.60	−3.0	9	6,376	s.	26	nw.	19	11	6	14	5.6	.0	.0
New Orleans	53	76	84	29.91	29.97	−.07	65.8	+3.0	83	25	74	47	18	57	32	58	54	75	2.25	−2.5	8	5,587	se.	24	nw.	16	10	8	13	6.2	.0	.0
West Gulf States							63.2	+4.0										65	1.65	−1.3										5.0		
Shreveport	249	92	227	29.65	29.92	−.10	63.7	+5.4	87	15	74	42	17	53	31	54	46	60	2.65	−1.5	6	8,990	s.	34	nw.	19	13	13	5	4.6	.0	.0
Bentonville	1,303	12	38	28.53	29.90	−.11	53.0	+5.7	71	29	65	31	31	41	32				1.16	−2.4	7	6,338	s.	26	sw.	22	10	10	11		T	.0
Fort Smith	457	79	94	29.41	29.89	−.12	57.8	+5.2	83	29	69	37	12	46	36	47	36	51	.75	−2.3	5	7,020	e.	26	sw.	13	13	11	7	4.7	.0	.0
Little Rock	357	94	102	29.54	29.92	−.11	58.0	+5.0	80	29	68	37	13	48	33	48	39	55	2.35	−2.3	6	7,396	sw.	27	sw.	13	15	7	9	4.4	.0	.0
Austin	605	136	148	29.27	29.90		65.4	+4.7	90	14	77	42	12	54	38	54	46	59	1.52	−.8	4	6,451	s.	31	n.	16	11	13	7	4.7	.0	.0
Brownsville	57	88	96	29.82	29.88		69.4	+1.2	88	16	77	51	17	62	28	63	61	83	.58	−.7	5	8,012	se.	32	n.	11	8	12	11	6.0	.0	.0
Corpus Christi	20	11	78	29.88	29.90	−.08	67.9	+2.9	91	14	74	52	17	61	31	62	59	82	3.29	+1.7	5	8,003	s.	34	s.	22	10	11	10	5.5	.0	.0
Dallas	512	220	227	29.34	29.88		62.6		90	14	74	39	17	52	35	51	39	49	.90	−2.0	4	9,702	s.	36	nw.	19	14	10	7	4.1	.0	.0
Fort Worth	679	92	110	29.19	29.90	−.08	62.7	+5.0	90	14	75	37	17	51	38				.63	−1.7	4	8,175	n.	40	n.	16	23	7	1		.0	.0
Galveston	54	106	114	29.88	29.94	−.07	64.7	+2.3	78	24	70	51	17	60	19	61	59	87	1.89	−.8	8	7,826	s.	28	se.	8	8	13	10	5.6	.0	.0
Houston	138	292	314	29.79	29.94		66.0	+2.7	86	23	75	46	17	58	28				2.31	−1.2	8	9,073	s.	38	n.	16	8	9	14	5.7	.0	.0
Palestine	510	64	72	29.39	29.92	−.08	63.6	+4.5	88	23	75	42	17	53	34	54	47	62	1.27	−2.2	7	6,358	s.	25	s.	22	15	9	7	4.4	.0	.0
Port Arthur	34	58	66	29.91	29.95		65.2		83	24	73	45	12	57	25				1.09	−2.2	8	6,204	s.	29	n.	16	9	12	10	5.6	.0	.0
San Antonio	693	242	301		29.89	−.09	66.3	+3.5	90	23	76	45	17	56	34			60	2.66	+.8	5	7,667	s.	41	se.	18	8	13	10		.0	.0

[1] Observations taken at airport.

TABLE 1.—*Climatological data for Weather Bureau stations, March 1936*—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							48.5	+4.2										67	4.68	+0.5										6.0		
Chattanooga	762	71	214	29.11	29.93	−0.13	56.7	+5.5	81	26	67	35	18	46	34	48	40	61	5.04	−0.7	12	7,030	w.	38	nw.	20	10	12	9	5.0	T	0.0
Knoxville	995	66	84	28.86	29.92	−.14	52.7	+4.0	78	30	63	29	19	42	34	46	40	72	7.96	+2.9	13	4,927	w.	27	nw.	2	7	12	12	5.6	2.6	.0
Memphis	399	78	86	29.49	29.91	−.13	57.4	+5.1	80	26	67	36	17	48	29	48	40	59	4.12	−1.1	7	7,135	s.	35	sw.	24	16	7	8	4.1	.0	.0
Nashville	546	168	191	29.35	29.94	−.11	53.8	+4.6	75	30	64	32	18	43	32	45	38	61	8.40	+3.3	13	8,306	nw.	46	nw.	17	10	7	14	5.5	T	.0
Lexington	989	6	----	----	----	----	48.0	+4.3	73	30	59	25	6	37	34	----	----	----	4.43	+.1	10	----	s.	----	----	----	13	4	14	----	2.1	.0
Louisville	525	188	234	29.33	29.92	−.13	50.0	+4.6	77	30	60	22	6	39	35	43	36	63	2.99	−1.4	10	9,386	s.	46	n.	17	7	15	9	5.5	2.8	.0
Evansville	431	76	116	29.44	29.91	−.13	49.9	+4.0	75	30	60	27	6	40	35	42	35	62	4.67	+.5	11	7,923	s.	34	nw.	12	11	11	9	5.2	T	.0
Indianapolis	822	194	230	29.01	29.90	−.14	44.3	+4.3	73	30	54	17	6	34	40	38	31	64	2.13	−1.8	12	9,289	w.	39	w.	12	9	12	10	6.1	2.8	.0
Terre Haute	575	96	129	29.26	29.89	----	46.5	----	74	29	57	20	6	36	39	40	34	67	2.81	−1.0	11	8,195	sw.	37	w.	12	10	12	9	5.5	4.9	.0
Cincinnati	627	11	51	29.22	29.90	−.15	46.8	+5.9	78	30	58	19	6	36	34	40	34	67	2.55	−1.3	13	7,052	s.	29	n.	17	7	9	15	6.4	1.2	.0
Columbus	822	90	210	29.01	29.90	−.14	43.8	+4.7	76	30	53	18	6	34	37	39	33	69	3.10	−.4	17	8,467	s.	41	n.	17	7	9	15	6.3	2.8	.0
Dayton	900	58	153	28.92	29.88	----	44.8	+4.3	76	30	55	19	6	35	36	----	----	----	2.94	−.8	13	7,761	sw.	33	w.	12	5	15	11	6.4	5.5	.0
Elkins	1,947	59	78	27.85	29.94	−.11	42.3	+2.3	74	30	54	15	20	31	43	37	33	78	8.32	+4.5	15	4,874	w.	27	w.	13	2	12	17	7.6	29.8	.0
Parkersburg	637	77	84	29.27	29.93	−.12	46.0	+3.2	77	30	56	22	1	36	36	40	34	69	4.83	+1.3	17	5,585	nw.	28	nw.	17	7	6	18	6.5	11.3	.0
Pittsburgh [1]	842	164	410	28.50	29.87	−.17	42.2	+2.6	75	30	51	15	6	33	33	37	32	75	5.88	+2.8	18	8,964	sw.	34	sw.	27	4	8	19	7.6	9.6	.0
Lower Lake Region							37.8	+4.8										76	4.35	+1.7										7.0		
Buffalo	768	243	280	29.03	29.88	−.14	35.0	+3.9	59	27	42	9	6	28	25	32	29	80	7.03	+4.5	19	11,614	sw.	61	sw.	13	4	8	19	7.5	38.5	.0
Canton	448	10	61	29.38	29.87	----	33.8	+6.1	61	29	43	−8	2	25	37	31	28	84	2.94	+.4	20	7,517	w.	34	sw.	27	4	9	18	7.3	12.8	.0
Ithaca	836	77	100	28.97	29.89	----	38.4	+6.6	65	29	47	7	2	30	31	34	30	75	6.92	+4.6	18	7,366	nw.	32	se.	2	3	6	22	7.9	10.5	.0
Oswego	335	71	85	29.51	29.88	−.13	35.9	+4.7	65	29	42	5	2	29	29	32	28	79	5.61	+3.0	18	8,210	se.	30	n.	18	5	4	22	7.8	12.3	.0
Rochester	523	86	102	29.31	29.89	−.13	37.3	+5.5	68	27	44	12	6	30	28	34	30	78	6.55	+3.8	18	6,854	w.	37	sw.	27	5	7	19	7.3	19.2	.0
Syracuse	596	65	79	29.25	29.90	−.12	39.0	+7.6	68	29	47	7	2	31	30	----	----	----	5.97	+3.0	22	5,796	w.	26	w.	22	4	6	21	7.7	8.8	.0
Erie	714	130	166	29.10	29.88	−.14	37.7	+4.2	68	27	45	12	6	31	25	34	30	77	3.80	+1.2	16	10,366	w.	38	se.	27	6	8	17	6.8	20.4	.0
Cleveland	762	267	318	29.04	29.88	−.15	39.5	+4.9	68	30	47	11	6	32	34	36	31	74	3.28	+.6	16	12,445	w.	51	n.	18	4	10	17	7.1	10.1	.0
Sandusky	629	5	67	29.19	29.89	−.14	39.5	+4.4	68	24	48	11	6	31	27	----	----	----	3.87	+1.2	15	7,548	sw.	30	sw.	27	5	13	13	6.7	3.6	.0
Toledo	628	79	87	29.20	29.89	−.14	39.3	+4.0	68	24	48	12	6	31	30	34	29	71	1.90	−.6	12	7,982	w.	31	sw.	27	7	16	8	5.7	1.9	.0
Fort Wayne	857	69	84	28.95	29.89	----	40.6	+1.7	66	29	50	13	6	31	32	35	30	71	3.03	−.2	12	7,761	w.	28	w.	27	9	10	12	5.9	3.5	.0
Detroit [1]	626	5	78	29.19	29.88	−.15	37.6	+4.2	67	24	45	10	6	30	28	32	28	75	1.28	−1.1	10	8,243	nw.	44	sw.	27	6	9	16	6.4	1.7	.0
Upper Lake Region							31.7	+3.4										76	1.42	−0.7										6.9		
Alpena	609	13	89	29.19	29.87	−.16	30.2	+4.7	52	24	37	−7	1	23	28	27	23	79	1.46	−.5	12	8,875	nw.	34	nw.	4	7	9	15	6.6	10.3	1.0
Escanaba	602	54	60	29.18	29.86	−.18	27.2	+3.0	50	24	34	−10	1	20	33	24	20	77	1.73	−.2	13	7,051	s.	31	nw.	4	7	7	17	6.7	9.5	.0
Grand Rapids	707	70	244	29.09	29.88	−.15	37.2	+3.8	69	24	46	7	1	29	28	32	27	71	.73	−1.8	11	9,001	sw.	45	sw.	24	4	9	18	7.0	3.0	.0
Lansing	878	5	90	28.91	29.87	----	35.9	+3.7	69	24	44	8	6	27	27	31	26	72	.83	−1.5	12	8,048	w.	33	sw.	27	6	7	18	7.1	5.0	.0
Ludington	637	5	54	29.15	29.86	----	33.4	+3.3	61	23	40	0	1	26	28	30	----	----	.61	−1.7	9	----	se.	----	----	----	7	13	11	----	3.5	.5
Marquette	734	77	111	29.02	29.84	−.20	27.6	+2.8	54	24	35	0	5	20	31	25	22	83	2.89	+.6	17	6,558	w.	31	nw.	4	5	11	15	6.6	13.8	10.0
Sault Sainte Marie	614	11	52	29.16	29.88	−.15	25.4	+3.8	42	21	33	−12	6	18	30	23	21	83	2.21	+.4	21	7,390	se.	38	nw.	4	5	10	16	6.9	13.2	T
Chicago	673	7	131	29.15	29.89	−.14	39.6	+4.3	72	23	47	14	6	32	27	34	29	69	1.00	−1.6	12	8,592	w.	35	se.	26	7	13	11	6.3	2.0	.0
Green Bay	617	109	141	29.16	29.84	−.20	31.9	+3.3	64	23	40	1	1	24	29	28	23	72	1.18	−.9	10	8,036	w.	35	w.	27	5	5	21	7.5	7.8	.0
Milwaukee	681	97	221	29.11	29.86	−.17	36.5	+4.4	69	23	44	8	6	29	31	32	27	71	.67	−1.8	9	9,671	w.	39	sw.	24	6	9	16	6.9	1.9	.2
Duluth	1,133	5	47	28.57	29.83	−.23	24.0	+.3	45	20	31	−14	5	17	24	22	19	83	2.36	+.8	15	9,829	w.	41	nw.	29	5	6	20	7.6	19.9	2.2
North Dakota							25.2	+2.8										83	1.05	+0.2										6.6		
Moorhead, Minn.	940	50	58	28.83	29.88	−.20	24.0	+1.3	48	19	32	−13	5	16	36	22	20	86	1.31	+.3	10	7,636	nw.	27	n.	3	2	8	21	7.8	13.1	2.5
Bismarck	1,674	8	57	28.06	29.90	−.16	28.2	+4.0	55	17	36	0	5	20	31	26	22	79	.88	.0	6	7,755	nw.	30	nw.	20	5	13	13	6.3	11.6	1.2
Devils Lake	1,478	11	44	28.26	29.88	−.17	22.6	+2.8	44	19	31	−16	5	15	38	21	19	89	.51	−.3	10	8,510	w.	33	nw.	3	4	8	19	7.2	5.5	.8
Grand Forks	833	12	67	----	----	----	21.1	----	42	18	30	−22	5	12	37	19	----	----	1.09	----	13	----	nw.	38	nw.	3	2	20	9	----	6.6	7.8
Williston	1,878	41	48	27.88	29.91	−.13	25.9	+3.0	55	17	34	−8	31	18	33	24	20	78	1.51	+.8	12	7,305	w.	35	w.	7	10	14	7	5.2	18.2	9.0
Upper Mississippi Valley							40.6	+4.3										69	2.05	−0.3										6.0		
Minneapolis	919	105	208	28.84	29.85	----	29.9	+0.3	56	28	37	−6	5	23	35	27	23	77	2.66	+1.2	11	8,851	w.	33	nw.	12	1	11	19	7.8	16.5	T
La Crosse	714	11	48	29.07	29.86	−.18	34.5	+3.0	69	23	43	4	6	26	39	30	25	76	2.45	+.8	13	5,083	nw.	23	sw.	24	5	11	15	6.8	9.4	.9
Madison	974	70	78	28.78	29.86	−.18	35.2	+4.6	72	23	43	4	6	27	30	31	27	77	.61	−1.5	10	7,251	nw.	31	s.	23	5	11	15	7.0	2.4	.0
Charles City	1,015	10	51	28.77	29.88	−.17	34.0	+3.3	71	23	42	5	6	26	39	29	26	76	3.14	+1.4	11	6,679	w.	27	sw.	24	8	9	14	6.1	1.6	.0
Davenport	606	66	161	29.22	29.89	−.14	40.8	+4.7	77	23	50	14	6	32	28	35	28	66	1.25	−1.1	10	8,702	nw.	40	sw.	23	8	11	12	6.0	2.6	.0
Des Moines	861	5	99	28.96	29.88	−.16	41.3	+5.4	75	23	52	17	6	31	35	35	29	65	1.57	−.2	4	9,005	n.	39	nw.	12	8	10	13	5.8	T	.0
Dubuque	700	60	79	29.11	29.87	−.17	38.2	+4.2	76	23	47	9	6	29	36	32	27	68	.81	−1.2	11	5,759	nw.	23	se.	26	8	8	15	6.6	3.0	T
Keokuk	614	64	78	29.24	29.92	−.11	43.8	+4.9	78	23	55	17	6	33	32	36	28	59	1.01	−1.4	4	7,254	n.	38	nw.	12	11	8	12	5.7	T	.0
Cairo	358	87	93	29.52	29.91	−.13	52.8	+5.6	76	26	63	29	6	42	33	45	39	67	4.04	+.3	11	8,135	s.	33	s.	24	10	12	9	5.5	T	.0
Peoria	609	11	45	29.23	29.91	−.12	41.9	+4.9	78	23	52	17	6	32	31	36	30	70	1.80	−.9	10	6,556	se.	26	w.	12	13	6	12	5.0	.9	.0
Springfield, Ill.	636	5	191	29.21	29.89	−.14	45.0	+4.8	78	23	55	21	6	35	31	39	34	71	3.61	+.4	8	9,847	w.	44	nw.	12	9	11	11	5.5	1.2	.0
St. Louis	568	179	303	29.28	29.90	−.13	49.2	+5.4	74	3	59	24	6	39	33	41	33	59	1.67	−1.7	6	10,130	nw.	47	sw.	22	14	9	8	4.1	T	.0
Missouri Valley							44.5	+5.9										63	0.64	−1.3										4.6		
Columbia, Mo.	784	6	84	29.06	29.91	−.12	48.2	+5.6	78	23	60	21	6	36	36	----	----	----	2.20	−.7	6	7,717	w.	32	w.	12	14	10	7	4.4	T	.0
Kansas City [1]	750	32	45	29.07	29.89	−.13	48.9	+6.2	79	23	62	20	31	36	40	39	30	55	.08	−2.4	2	9,121	sw.	38	w.	26	10	14	7	4.8	T	.0
St. Joseph	967	11	49	28.84	29.88	----	47.0	----	78	23	59	18	31	35	37	38	28	54	.14	−1.9	1	8,302	nw.	34	nw.	11	15	11	5	3.7	.0	.0
Springfield, Mo.	1,324	98	104	28.48	29.89	−.13	50.9	+5.7	78	29	62	27	31	40	36	42	33	57	1.29	−2.1	5	8,826	s.	32	s.	23	19	8	4	3.2	.0	.0
Iola	984	11	50	28.85	29.90	−.11	52.4	+7.9	80	23	67	23	31	38	44	----	----	----	.18	−2.4	2	----	se.	----	----	----	11	17	3	----	.0	.0
Topeka	987	65	87	----	----	----	49.0	+6.4	81	23	63	19	31	35	40	----	----	----	.25	−1.8	2	8,357	w.	32	s.	22	17	11	3	3.6	T	.0
Lincoln	1,189	11	81	28.59	29.88	−.14	44.3	+6.8	75	22	56	18	31	32	40	35	26	58	.18	−1.1	4	8,796	n.	40	nw.	11	10	17	4	4.5	T	T
Omaha	1,105	170	200	28.82	29.89	−.15	42.4	+5.4	75	23	54	16	31	31	38	35	29	66	.84	−.5	3	9,474	nw.	41	nw.	11	12	13	6	4.5	T	.0
Valentine	2,598	47	54	27.17	29.93	−.10	36.2	+3.9	73	9	48	4	30	24	43	30	22	63	.95	−.1	8	8,110	nw.	27	n.	18	6	15	10	6.1	10.7	6.6
Sioux City	1,138	64	106	28.64	29.88	−.17	38.8	+6.1	73	28	48	13	31	29	41	33	27	7	.36	−.8	4	8,379	nw.	40	nw.	11	8	10	13	6.1	2.1	.8
Huron	1,307	59	74	28.47	29.90	−.16	33.5	+4.6	67	9	43	7	5	24	40	29	25	78	.68	−.2	11	7,657	nw.	36	nw.	11	11	12	8	5.2	8.6	.4
Northern Slope							32.9	+1.5										62	0.85	−0.1										6.5		
Havre	2,505	11	67	27.26	29.96	−.04	30.4	+3.3	59	6	40	−11	29	20	35	26	20	71	.59	+.1	9	7,948	sw.	32	nw.	9	8	13	10	6.1	9.0	3.4
Helena	4,124	85	111	25.71	29.99	−.02	31.8	−.6	60	20	41	−13	30	23	27	26	16	53	.45	−.3	7	7,363	sw.	35	sw.	13	0	12	19	8.1	8.0	5.2
Missoula	3,263	80	91	----	----	----	35.4	----	66	20	44	5	31	27	35	----	----	----	.54	−.4	12	5,798	sw.	37	e.	29	1	6	24	8.3	2.8	T
Kalispell	2,973	48	56	----	29.98	−.01	32.5	−.4	57	20	41	3	29	24	28	----	----	70	1.50	+.6	12	5,291	sw.	27	w.	21	2	18	11	----	17.9	13.0
Miles City	2,371	48	55	27.37	29.97	−.05	34.2	+5.6	59	17	43	3	30	26	27	29	23	65	.21	−.6	10	5,944	s.	30	w.	9	8	12	11	6.0	1.3	T
Rapid City	3,259	50	58	26.49	29.98	−.03	35.0	+2.4	65	9	46	−6	30	24	37	29	21	60	.82	−.2	5	7,297	nw.	32	n.	9	5	19	7	5.8	12.5	6.3
Cheyenne	6,094	50	71	23.79	29.90	−.06	33.2	+.1	63	9	46	0	30	20	43	27	17	56	1.17	+.2	11	12,583	nw.	49	nw.	27	6	12	13	6.2	13.5	.8
Lander	5,372	60	68	24.51	29.93	−.06	33.6	+1.2	65	5	48	1	24	20	42	26	16	54	1.32	+.1	5	5,125	sw.	46	sw.	12	7	19	5	5.3	14.3	3.1
Sheridan	3,790	10	47	25.99	29.97	----	32.6	----	62	6	44	−17	30	21	36	27	19	63	1.48	+.3	10	4,901	nw.	30	nw.	28	6	13	12	6.2	15.2	6.5
Yellowstone Park	6,241	12	46	23.74	30.03	+.01	24.8	−1.7	48	20	34	−13	30	15	36	21	15	66	.71	−1.0	14	7,617	sw.	36	sw.	27	2	12	17	7.8	15.3	10.9
North Platte	2,821	11	51	26.93	29.89	−.11	40.2	+3.6	77	9	54	15	31	27	46	32	22	57	.57	−.3	5	7,230	n.	28	ne.	26	10	12	9	5.3	4.3	1.1

[1] Observations taken at airport.

TABLE 1.—*Climatological data for Weather Bureau stations, March 1936*—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.
Middle Slope							**47.9**	**+4.6**										**43**	**0.42**	**−0.8**										**4.1**		
Denver	5,292	106	113	24.58	29.87	−.08	41.2	+1.9	73	9	53	12	30	29	44	31	17	44	1.95	+.9	1	16,688	s.	30	nw.	10	7	16	8	5.4	15.1	0.8
Pueblo	4,685	80	86	25.15	29.84	−.08	44.9	+3.3	76	9	60	16	24	30	48	33	17	39	.14	−.4	4	6,314	e.	36	nw.	28	14	15	2	4.5	.7	.0
Concordia	1,392	50	58	28.42	29.92	−.09	46.3	+5.3	79	9	60	19	31	33	44	36	25	51	.15	−1.1	1	7,580	w.	32	nw.	26	13	14	4	4.4	T	.0
Dodge City	2,509	10	86	27.28	29.90	−.07	48.0	+5.2	79	9	63	21	31	33	43	35	20	39	.10	−.8	3	10,512	n.	38	s.	21	18	13	0	2.7	.1	T
Wichita	1,358	85	93	28.44	29.87	−.12	51.0	+5.9	78	22	64	21	31	38	39	40	25	42	T	−1.8	0	9,665	sw.	41	sw.	22	15	10	6	3.8	.0	.0
Oklahoma City	1,214	10	47	28.60	29.88	−.10	56.2	+6.2	81	22	69	32	31	43	36	44	31	45	.21	−1.8	1	8,446	s.	30	sw.	23	14	12	5	3.9	.0	.0
Southern Slope							**58.2**	**+3.6**										**41**	**0.48**	**−0.4**										**4.0**		
Abilene	1,738	10	52	28.09	29.89	−.07	61.2	+4.7	86	14	74	38	12	48	38	46	30	40	.94	−.4	3	8,106	s.	31	s.	21	14	9	8	4.6	.0	.0
Amarillo	3,676	10	49	26.15	29.87	−.08	52.2	+5.3	78	18	66	25	31	38	39	38	22	36	T	−.7	0	8,218	sw.	32	w.	23	18	11	2	2.9	.0	.0
Del Rio	960	63	71	28.88	29.86	−.09	65.3	+1.8	91	14	77	44	28	53	41	54	44	56	.89	+.2	2	6,509	se.	29	nw.	19	10	9	12	5.6	.0	.0
Roswell	3,566	75	85	26.26	29.86	−.04	53.9	+2.6	78	21	69	26	24	38	42	39	20	32	.09	−.6	2	7,394	s.	35	sw.	25	18	10	3	2.7	.0	.0
Southern Plateau							**53.4**	**+2.7**										**41**	**0.21**	**−0.3**										**3.2**		
El Paso	3,778	152	175	26.11	29.87	−.01	58.0	+2.2	77	21	70	34	27	46	31	42	23	30	T	−.4	0	9,534	w.	46	w.	31	17	9	5	3.4	.0	.0
Albuquerque	4,972	5	39	24.95	29.84	-----	47.1	-----	73	18	64	16	27	30	46	35	19	40	.11	−.3	4	8,123	w.	42	w.	31	13	14	4	3.8	.1	.0
Santa Fe	7,013	38	53	23.14	29.86	−.03	41.2	+1.5	62	20	54	15	29	29	35	32	20	43	.63	−.2	4	5,581	n.	27	sw.	31	19	8	4	3.4	5.5	.0
Flagstaff	6,997	10	59	23.25	29.86	−.05	37.1	+1.2	63	15	52	0	26	22	41	29	----	60	1.63	-----	6	7,217	sw.	35	sw.	31	8	18	5	----	7.5	T
Phoenix	1,108	10	107	28.72	29.86	−.05	64.6	+3.9	90	19	79	38	23	50	39	48	30	34	.50	−.2	3	4,736	e.	35	sw.	22	21	2	8	3.3	.0	.0
Yuma	141	9	54	29.73	29.88	−.06	67.6	+3.5	94	20	83	38	27	52	40	51	32	31	T	−.3	0	5,127	w.	29	nw.	22	23	6	2	2.2	.0	.0
Independence	3,957	5	26	25.91	29.94	.00	52.2	+3.7	76	9	67	23	23	37	41	38	----	----	.02	−.5	1	-----	nw.	----	----	----	21	6	3	----	.0	.0
Middle Plateau							**42.3**	**+1.4**										**51**	**0.57**	**−0.2**										**4.6**		
Reno	4,527	61	76	25.45	30.00	+.02	44.8	+3.8	71	8	58	18	26	32	39	36	25	51	.04	−.8	2	5,780	w.	32	w.	29	16	10	5	3.7	.4	.0
Tonopah	6,090	12	20	-----	-----	-----	43.0	-----	62	20	53	14	26	33	26	33	19	42	.37	-----	2	-----	nw	----	----	----	----	----	----	----	----	----
Winnemucca	4,344	18	56	25.57	30.01	.00	40.8	+.8	72	20	56	14	26	26	42	33	24	56	.35	−.6	5	6,835	ne.	27	sw.	31	14	8	9	4.3	4.4	.2
Modena	5,473	10	46	24.53	29.90	−.06	40.4	+2.2	68	9	55	16	23	26	45	31	20	52	.67	−.4	5	7,537	w.	38	w.	31	12	10	9	4.4	6.3	.0
Salt Lake City [1]	4,357	86	210	25.68	29.97	−.01	40.4	−1.3	68	17	52	21	23	29	36	34	27	61	1.21	+.8	7	7,344	se.	41	w.	29	9	10	12	5.9	10.1	8.0
Grand Junction	4,602	60	68	25.27	29.85	−.09	44.9	+1.3	68	9	57	25	27	32	32	35	21	44	.57	−.2	5	5,390	se.	34	w.	31	12	12	7	4.7	3.9	.0
Northern Plateau							**39.6**	**−1.6**										**59**	**0.72**	**−0.4**										**6.3**		
Baker	3,471	48	53	26.44	30.08	+.05	35.1	−2.5	63	20	45	10	30	25	34	31	23	63	.98	−.1	15	4,841	se.	24	sw.	27	8	11	12	6.1	6.7	.5
Boise	2,739	79	87	27.18	30.07	+.04	40.2	−2.5	68	20	50	19	31	30	35	34	25	58	.73	−.6	11	4,782	se.	24	nw.	9	6	12	13	6.7	4.8	2.0
Pocatello	4,477	60	68	25.42	30.01	.00	35.2	−2.2	57	20	44	16	25	27	26	30	23	63	1.48	+.2	11	7,607	se.	30	sw.	9	7	11	13	6.3	10.0	7.4
Spokane	1,929	101	110	27.92	30.00	−.01	38.7	−1.0	63	20	47	18	31	30	33	34	27	64	.58	−.6	5	6,223	s.	25	sw.	26	3	16	12	6.5	2.1	T
Walla Walla	991	57	65	28.96	30.04	+.02	45.2	−.9	70	2	54	22	30	37	30	39	30	56	.50	−1.1	5	5,524	sw.	32	w.	27	7	10	14	6.4	3.6	T
Yakima	1,076	58	67	28.86	30.03	-----	43.3	−.8	69	20	54	24	30	33	34	36	26	51	.05	−.3	3	5,223	nw.	29	w.	27	7	11	13	6.0	.2	.0
North Pacific Coast Region							**44.2**	**−1.2**										**74**	**3.28**	**−1.0**										**7.6**		
North Head	211	11	56	29.90	30.13	+.12	43.0	−2.2	55	1	47	29	31	39	14	41	38	83	4.59	−1.0	23	10,920	nw.	47	nw.	21	1	5	25	8.3	4.0	.0
Seattle	125	90	321	29.93	30.07	+.08	44.0	−.9	62	2	50	30	31	38	22	40	34	69	2.14	−.9	14	8,038	s.	42	s.	14	3	9	19	7.5	1.1	.0
Tatoosh Island	86	10	54	29.96	30.06	+.10	41.8	−1.1	52	19	45	30	28	38	14	40	36	79	7.67	−.2	22	11,831	w.	45	w.	20	3	9	19	7.7	1.2	.0
Medford	1,329	29	58	28.68	30.11	-----	46.6	-----	79	20	59	23	30	34	48	41	34	68	.42	−1.3	6	-----	nw.	----	----	----	7	7	17	6.5	.5	.0
Portland, Oreg.	153	68	106	29.95	30.12	+.10	45.3	−1.6	67	19	52	31	30	38	27	41	36	75	3.10	−.8	14	4,955	nw.	25	nw.	21	3	5	23	8.0	1.6	T
Roseburg	510	45	76	29.59	30.11	+.10	47.0	−.1	72	20	57	29	30	37	37	43	38	72	1.76	−1.5	14	3,499	n.	19	sw.	26	2	7	22	7.7	1.0	.0
Middle Pacific Coast Region							**53.8**	**+1.6**										**63**	**1.37**	**−2.3**										**4.8**		
Eureka	62	73	89	30.07	30.14	+.08	47.8	−.5	66	4	54	35	30	42	23	45	42	82	1.77	−3.5	9	6,378	n.	34	n.	21	9	11	11	5.5	T	.0
Redding	722	20	34	-----	-----	-----	57.5	-----	84	2	68	33	30	46	30	46	31	40	1.34	-----	4	6,872	nw.	31	ne.	21	10	6	15	6.2	.3	.0
Sacramento	69	92	115	29.92	29.99	−.04	56.3	+2.0	76	19	67	34	25	45	32	49	42	62	1.33	−1.2	3	5,704	s.	35	nw.	22	17	10	4	3.5	T	.0
San Francisco	155	208	243	29.84	30.01	−.05	57.4	+3.2	77	1	65	42	25	50	27	50	44	68	1.01	−2.1	4	5,237	w.	34	nw.	24	16	8	7	4.1	.0	.0
South Pacific Coast Region							**58.2**	**+1.8**										**71**	**1.21**	**−0.8**										**4.7**		
Fresno	327	97	105	29.64	30.00	−.01	58.1	+3.1	82	19	70	34	26	47	31	52	46	67	1.36	−.2	3	4,360	nw.	28	w.	31	16	9	6	4.0	.0	.0
Los Angeles	338	159	191	29.61	29.98	−.04	59.0	+1.5	85	1	67	42	25	51	31	51	45	70	1.34	−1.4	2	4,398	sw.	20	nw.	22	14	10	7	4.3	.0	.0
San Diego	87	62	70	29.89	29.98	−.04	57.4	+.7	77	1	63	41	26	52	25	52	49	76	.92	−.8	7	5,451	w.	31	w.	25	9	12	10	5.8	.0	.0
West Indies																																
San Juan, P. R.	82	9	54	29.90	29.99	-----	75.6	+.2	89	18	81	65	8	70	17	----	----	----	1.43	−1.7	5	7,929	e.	27	e.	10	15	15	1	3.9	.0	.0
Panama Canal																																
Balboa Heights	118	6	92	-----	[2] 29.82	−.02	81.7	+.5	93	13	90	68	2	73	21	----	----	[2] 74	.36	−.3	1	6,665	nw.	26	n.	5	2	27	2	5.0	.0	.0
Cristobal	36	6	97	-----	[2] 29.84	−.03	81.6	+.1	87	17	86	71	2	78	14	75	73	[2] 77	.87	−.7	13	9,504	n.	24	n.	7	5	20	6	5.5	.0	.0
Alaska																																
Fairbanks	454	11	87	-----	[3] 29.93	-----	4.4	-----	39	31	18	−30	1	−9	50	----	----	70	.49	-----	10	3,724	s.	38	s.	23	8	8	15	----	10.4	20.4
Juneau	80	96	116	[3] 29.81	[3] 29.90	-----	32.3	-----	44	5	36	20	22	29	15	30	22	68	7.74	-----	19	6,539	se.	27	ne.	27	6	4	21	7.2	30.7	2.0
Hawaiian Islands																																
Honolulu	38	86	100	[3] 30.00	[3] 30.04	-----	72.2	+.8	81	30	77	62	20	68	15	65	61	71	1.73	−1.5	17	7,739	e.	35	ne.	12	9	7	15	6.4	.0	.0

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

TABLE 2.—*Data furnished by the Canadian Meteorological Service, March 1936*

Station	Altitude above mean sea level, Jan. 1, 1919	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: Mean maximum	Temperature of the air: Mean minimum	Temperature of the air: Highest	Temperature of the air: Lowest	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Total snowfall
	Feet	*In.*	*In.*	*In.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	*In.*	*In.*	*In.*
Cape Race, Newfoundland	99				33.2		38.0	28.5	48	16	3.37		1.0
Sydney, Cape Breton Island	48	29.95	30.00	+0.12	35.9	+9.7	43.3	28.5	62	0	4.21	−0.72	9.2
Halifax, Nova Scotia	88	29.75	29.86	−.08	36.2	+7.2	42.2	30.3	57	10	6.03	+.57	.0
Yarmouth, Nova Scotia	65	29.85	29.92	−.03	39.8	+9.0	46.6	33.1	63	15	4.61	−.39	4.5
Charlottetown, Prince Edward Island	38	29.92	29.96	+.06	35.4	+10.0	41.7	29.1	60	4	4.03	+.82	5.6
Chatham, New Brunswick	28	29.86	29.89	−.02	33.0	+10.0	42.4	23.5	60	−17	2.94	−.53	11.4
Father Point, Quebec	20	29.87	29.89	−.01	30.7	+10.4	38.5	22.9	55	−9	.66	−2.07	1.2
Quebec, Quebec	296	29.58	29.92	−.04	31.6	+10.4	38.0	25.1	55	−8	2.72	−.54	2.7
Doucet, Quebec	1,236				21.9		32.4	11.4	47	−40	5.36		42.3
Ottawa, Ontario	236	29.60	29.88	−.13	29.0	+7.5	36.9	21.1	57	−20	4.81	+2.09	11.6
Kingston, Ontario	285	29.55	29.87	−.14	32.3	+6.7	38.9	25.6	57	−2	6.04	+3.40	9.3
Toronto, Ontario	379	29.46	29.89	−.13	34.5	+7.2	40.4	28.5	61	6	4.07	+1.43	20.8
Cochrane, Ontario	930				20.2		29.4	10.9	46	−26	3.93		19.8
White River, Ontario	1,244	28.45	29.80	−.23	19.1	+6.9	30.5	7.8	46	−40	2.85	+1.47	22.1
London, Ontario	808				33.9		41.2	26.6	60	−16	1.77		10.4
Southampton, Ontario	656	29.14	29.87	−.16	29.6	+4.9	36.7	22.6	55	−10	1.35	−1.30	8.7
Parry Sound, Ontario	688	29.14	29.84	−.18	28.0	+6.9	35.0	21.0	53	−12	2.98	+.75	18.9
Winnipeg, Manitoba	760	29.01	29.87	−.22	18.1	+5.8	27.0	9.2	40	−25	1.89	+.86	18.1
Minnedosa, Manitoba	1,690	27.99	29.87	−.19	18.4	+5.9	27.5	9.2	42	−28	1.39	+.74	13.6
Le Pas, Manitoba	860				16.4		26.6	6.3	48	−18	2.02		20.2
Qu'Appelle, Saskatchewan	2,115	27.53	29.84	−.20	20.7	+5.8	29.0	12.4	45	−12	3.05	+2.28	29.3
Moose Jaw, Saskatchewan	1,759				23.5		31.1	16.0	48	−9	1.29		12.9
Swift Current, Saskatchewan	2,392	27.28	29.89	−.13	23.8	+1.8	30.6	17.1	49	−6	.98	+.17	9.8
Medicine Hat, Alberta	2,365	27.38	29.92	−.08	28.9	+1.4	36.6	21.3	55	−5	.95	+.19	8.4
Calgary, Alberta	3,540	26.18	29.97	+.02	25.4	−.8	33.7	17.0	58	−5	.54	−.18	5.4
Prince Albert, Saskatchewan	1,450	28.30	29.93	−.15	20.6	+8.6	29.7	11.6	48	−3	.40	−.37	3.8
Battleford, Saskatchewan	1,592	28.13	29.93	−.13	20.3	+7.2	30.3	10.4	46	−5	.06	−.40	.6
Edmonton, Alberta	2,150	27.57	29.92	−.04	24.6	+.4	33.5	15.6	52	−10	.29	−.43	2.9
Kamloops, British Columbia	1,262	28.66	29.98	+.06	36.1	.0	44.6	27.6	56	12	.31	−.26	1.3
Victoria, British Columbia	230	29.80	30.06	+.09	42.0	+.1	46.7	37.4	56	27	2.32	−.80	.7
Estevan Point, British Columbia	20				40.4		45.8	35.0	50	25	12.76		.1
Prince Rupert, British Columbia	170				33.9		39.3	28.6	47	19	7.89		4.0
LATE REPORTS FOR FEBRUARY 1936													
Father Point, Quebec	20	29.87	29.90	−0.08	11.5	0.0	18.0	5.0	42	−8	1.37	−0.84	13.5
Doucet, Quebec	1,236				−3.6		10.3	−17.4	41	−48	2.06		19.6
Ottawa, Ontario	236	29.77	30.06	+.04	6.7	−5.0	17.1	−3.6	41	−20	2.06	−.63	19.6
London, Ontario	808				12.9		21.8	4.0	44	−11	2.65		18.3
Parry Sound, Ontario	688	29.28	30.02	+.01	7.8	−6.5	16.4	−.7	41	−23	3.71	+.79	36.8
Port Arthur, Ontario	644	29.32	30.08	+.03	−2.8	−9.2	7.2	−12.8	31	−27	.15	−.75	1.5
Winnipeg, Manitoba	760	29.29	30.20	+.10	−14.0	−12.4	−4.9	−23.1	18	−43	1.40	+.42	14.0
Minnedosa, Manitoba	1,690	28.22	30.20	+.13	−14.8	−12.1	−4.4	−25.2	20	−46	.52	−.09	5.2
Moose Jaw, Saskatchewan	1,759				−15.2		−6.6	−23.9	33	−48	.68		6.8
Medicine Hat, Alberta	2,365	27.57	30.28	+.23	−15.8	−27.0	−6.0	−25.6	45	−49	.83	+.16	8.3
Edmonton, Alberta	2,150	27.80	30.31	+.29	−17.0	−25.3	−7.5	−26.5	52	−51	.58	−.09	5.8
Kamloops, British Columbia	1,262	28.75	30.12	+.16	5.0	−23.3	13.1	−3.2	49	−24	1.58	+.79	15.8
Victoria, British Columbia	230	29.66	29.92	−.08	33.2	−6.3	37.5	28.8	49	9	4.76	+.66	8.1
Estevan Point, British Columbia	20				36.5		42.5	30.4	50	21	9.21		3.6
Prince Rupert, British Columbia	170				23.4		30.4	16.4	45	2	3.79		23.1

SEVERE LOCAL STORMS, MARCH 1936

[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 Annual Report of the Chief of Bureau]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Big Sioux Valley, S. Dak.	6–15				$6,500	Flood	Flood due to rapidly melting snow; damage to tangible property.
Harrisburg, Pa., and vicinity	7–8	P. m.			110,000	Ice and flood	Temporary gorging accompanying the ice movement on the night of the 7th–8th resulted in very high water stages between the northern limits of the city and Speeceville. Great damage to property occurred along both sides of the river along this stretch. The destruction was almost entirely done by huge cakes of ice which were thrown over the banks and across highways; destruction and damage to buildings, highway retaining walls and highways; water and ice filled the Dauphin subway and Narrows; all traffic northward tied up until evening of the 8th.
Miami, Fla.	9	6:50 p. m.		1	50,000	Squall	Wind had tornadic characteristics; 35 persons injured by flying debris; property damage $50,000, being confined to flimsily-constructed houses, carnival equipment and plate glass windows; all debris blown in one general direction.
Wilmington, N. C.	9–10					Rain	Considerable damage to truck by flooding.
Providence, R. I.	9–22				200,000	Rain and flood	In the Blackstone Valley the city of Woonsocket had heavy losses from the flood; about 50 families had to evacuate their homes; several factories closed.
Oklahoma Panhandle	10					Dust	Choking dust clouds swept over this region. At Woodward on the edge of the Oklahoma "dust bowl", as at some other points, visibility was reduced to 2 blocks, slowing highway traffic, and at Beaver to half a mile
New York, south-central and eastern portions.	12					Flood	Much flooding of lowlands and cellars; some local damage to highway bridges and railroads.