TABLE 1.—*Averages, departures, and extremes of atmospheric pressure at sea level, North Pacific Ocean, March 1934, at selected stations*

Stations	Average pressure	Departure from normal	Highest	Date	Lowest	Date
	Inches	*Inch*	*Inches*		*Inches*	
Point Barrow	30.18	+0.03	30.70	21	29.16	2
Dutch Harbor	29.61	−.09	30.18	17	28.64	8
St. Paul	29.69	−.04	30.28	17	29.04	8
Kodiak	29.83	+.14	30.26	4, 22	28.74	1
Juneau	30.01	+.07	30.55	7	28.70	1
Tatoosh Island	30.10	+.14	30.57	7	29.68	5
San Francisco	30.09	+.03	30.33	1	29.80	23
Mazatlan	29.94	+.02	30.02	18	29.84	23, 24
Honolulu	30.02	−.02	30.17	1	29.87	25
Midway Island	30.07	.00	30.32	29	29.74	11
Guam	29.92	+.02	30.00	1, 17	29.84	30
Manila	29.86	−.09	29.96	6, 7, 17	29.76	25, 26
Naha	30.00	.00	30.24	5	29.72	26
Chichishima	30.00	.00	30.28	18	29.76	13-15, 27
Nemuro	29.82	----------	30.36	11	28.66	21

NOTE.—Data based on 1 daily observation only, except those for Juneau, Tatoosh Island, San Francisco, and Honolulu, which are based on 2 observations. Departures are computed from best available normals related to time of observation.

Cyclones and gales.—Notwithstanding the considerable prevalence of cyclonic activity in higher and middle latitudes of the ocean, storminess was far less extensive and severe in March than in February. The only gale of the month reported in excess of force 10 was one of hurricane velocity experienced by the American steamer *Grays Harbor* on the 1st, near 51° N., 139° W., in connection with a deep disturbance then covering northeastern waters. The lowest barometer reported was 28.70 inches, which is practically identical with the lowest reading of the month that day at Kodiak and Juneau. Similarly low barometers were reported by ships near the center of a cyclone 200 miles south of Dutch Harbor on the 6th, accompanied by whole northeasterly gales.

Two moderately-intense cyclonic developments occurred during March between the Hawaiian Islands and the California coast. These caused strong gales between about 30° and 40° N., 135° and 145° W., on the 12th and 19th, and less rough weather on adjacent dates.

Altogether, winds of fresh to strong gale force are indicated as being comparatively infrequent, as well as scattered, over the region east of the 180th meridian.

With westward approach to far eastern waters the percentage of high winds showed a moderate increase over those in west longitudes, but gales were well distributed through the month, due in great measure to the successive regularity of cyclones moving eastward after originating in Asia or neighboring Pacific waters. One of the deepest of these cyclones appeared over the Japan Sea on the 20th. On the 21st, with the storm centered over Yezo and the southern Kurils, Nemuro reported a barometer reading of 28.66 inches. On this day fresh to strong gales occurred over the seas surrounding northern and central Japan. The storm thence moved northward, then eastward, and died out in the Bering Sea. The deepest storm of March occurred at the end of the month, when winds of whole gale force were experienced on the 31st, with barometer reported as low as 28.10 inches, near 43° N., 160° E.

Tropical gales.—A press account from Shanghai on the 29th, reported a typhoon over the southernmost seacoast province of China on the 26th which caused the destruction of 300 fishing junks and cost the lives of some 800 fishermen. The weather maps indicate the presence of a shallow LOW in the neighborhood on that date.

In the Gulf of Tehuantepec northers were more active in March than during any other month of the winter. They include a moderate gale (force 7) on the 12th, fresh gales (force 8) on the 14th, 15th, 20th, and 28th, and strong gales (force 9) on the 11th and 13th.

Fog.—Fog occurred on about 15 days along the coast of the Peninsula of California; on about 20 days along the California coast; and thence northward to Vancouver Island on about 6 days. Farther at sea fog was infrequent and scattered over small areas, and was not observed over the great body of the ocean.

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 1934

[For description of tables and charts, see REVIEW, January, p. 31]

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	54.9	−0.8	3 stations	83	[1] 6	Madison	14	20	6.10	+0.20	Bridgeport	11.90	2 stations	2.86
Arizona	59.7	+5.5	Buckeye	101	30	Bright Angel	11	2	.25	−.70	Henry's Camp	1.45	6 stations	.00
Arkansas	49.6	−2.7	Conway	85	16	Dutton	4	19	6.53	+1.82	Pine Bluff	10.29	Bentonville	2.10
California	58.0	+6.4	Brawley	104	15	Soda Springs	8	1	.80	−2.78	Upper Mattole	6.35	36 stations	.00
Colorado	40.8	+6.4	Eads	89	31	2 stations	−15	8	.49	−.82	Silver Lake	2.65	3 stations	.00
Florida	64.5	−.9	Chapman Field Garden.	90	5	Glen St. Mary	25	12	3.39	+.24	Vernon	8.46	Fort Myers	.75
Georgia	54.8	−1.5	Fargo	88	26	Clayton	10	11	5.31	+.42	Clayton	10.75	Savannah	1.06
Idaho	44.5	+8.6	2 stations	82	[1] 15	Big Springs	−2	17	1.88	+.14	Pete King R.S.	7.94	4 stations	.00
Illinois	37.4	−2.5	Harrisburg	79	30	Lincoln	−14	10	2.34	−.70	Mount Vernon	4.03	Keithsburg	.56
Indiana	36.8	−3.6	4 stations	78	[1] 17	Goshen	−13	28	2.97	−.76	Greensburg	4.42	Hobart	1.25
Iowa	34.4	+.1	Carroll	81	20	Stockport (near)	−13	10	1.09	−.65	Algona	2.41	Riverton (near)	.22
Kansas	44.1	+1.1	Medicine Lodge	90	20	4 stations	4	[1] 8	.70	−.76	Fort Scott	1.87	Claflin	T
Kentucky	43.6	−2.5	Bowling Green	80	17	Farmers	5	11	4.83	+.20	Harlan	11.23	Anchorage	1.98
Louisiana	58.8	−1.6	2 stations	85	[1] 7	Amite	22	11	6.17	+1.40	De Ridder	11.42	Jonesville	2.06
Maryland-Delaware	38.9	−4.1	5 stations	78	18	Oakland, Md	−10	12	4.45	+1.02	Princess Anne, Md	7.17	Hancock (City), Md	2.06
Michigan	25.3	−4.3	Monroe	68	17	Garnet	−28	22	1.84	−.33	Benzonia	3.67	Fenville	.53
Minnesota	24.5	−1.8	Winnebago	75	20	Pine River Dam	−29	18	.71	−.47	Pigeon River Bridge	2.20	Argyle	.06
Mississippi	55.2	−1.5	Poplarville	87	23	2 stations	20	[1] 10	5.96	+.19	Waynesboro	8.60	Utica	4.14
Missouri	41.2	−2.4	2 stations	82	20	do	−3	10	2.36	−.78	Bragg City	7.78	Bethany	.05
Montana	35.7	+4.9	Ballantine	79	[1] 12	do	−15	9	1.27	+.32	Heron	4.88	Lima	.03
Nebraska	38.2	+2.0	North Loup	85	16	Newport	−15	23	.72	−.38	Harlington	2.58	3 stations	T
Nevada	50.6	+10.2	Las Vegas	94	30	Zorra Vista Ranch	8	8	.45	−.53	Arthur	1.74	do	.00
New England	30.4	−1.8	Waterbury, Conn	71	18	East Barnet, Vt	−21	1	2.99	−.32	Spot Pond, Mass	5.98	Eustis, Maine	1.18
New Jersey	36.5	−2.6	Long Branch	77	18	Layton	−7	1	3.31	−.47	Dover	4.81	Boonton	1.64
New Mexico	47.1	+3.4	Carlsbad	93	8	Horse Springs	2	17	.47	−.29	Magdalena	3.22	9 stations	.00
New York	30.0	−2.0	Scarsdale	72	18	2 stations	−20	[1] 1	2.83	−.21	New York (City)	4.40	Willsboro	.73
North Carolina	47.7	−2.0	Goldsboro	85	8	Mount Mitchell	−4	11	5.94	+1.73	Highlands	13.35	Charlotte	2.67
North Dakota	26.3	+2.2	Fort Yates	74	[1] 12	3 stations	−12	[1] 9	.49	−.21	New England	1.70	Cando	.02
Ohio	35.3	−3.3	Portsmouth	77	17	Montpelier	−5	28	2.81	−.56	Ironton	4.56	Charlestown	1.19
Oklahoma	49.5	−.9	Hollis	93	20	Boise City	5	18	1.78	−.38	Durant	5.70	Goodwell	.31
Oregon	48.9	+7.8	2 stations	88	9	2 stations	6	7	2.40	−.36	Government Camp	13.66	Harper	.05
Pennsylvania	34.9	−2.8	Lancaster	78	18	Franklin	−22	1	2.96	−.48	Coatesville	5.31	Lakeville	1.13
South Carolina	51.8	−2.8	Ferguson	85	8	2 stations	14	[1] 11	4.28	+.38	Landrum	10.22	Beaufort (near)	1.12
South Dakota	32.6	+1.8	Tyndall	81	20	Cottonwood	−13	6	.96	−.15	Arlington	1.82	Glenham	.30
Tennessee	47.0	−2.2	Carthage	83	17	Elkmont	7	11	8.13	+2.77	Rock Island	12.80	Kenton	3.47
Texas	56.5	−2.2	Fort Stockton	98	7	2 stations	9	18	3.35	+1.27	Orange	13.74	Grandfalls	.00
Utah	46.8	+8.4	St. George	87	[1] 15	Woodruff	7	24	.39	−1.00	Silver Lake	2.20	11 stations	.00
Virginia	42.5	−3.1	2 stations	80	[1] 18	Burkes Garden	−1	12	5.18	+1.48	Wallaceton	8.48	Berryville	2.37
Washington	47.0	+5.1	Wahluke	83	14	2 stations	12	[1] 5	3.99	+.69	Wynoochee Oxbow	16.58	White Swan	.05
West Virginia	38.9	−3.4	Charleston	90	17	Clarksburg	−18	1	4.26	+.38	Beckley	8.09	Upper Tract	1.42
Wisconsin	26.6	−2.6	River Falls	67	20	Long Lake	−30	18	1.50	−.28	Sturgeon Bay	3.89	Ashland	.20
Wyoming	36.2	+6.4	Shoshoni	78	20	Hunter's Station	−11	24	.90	−.27	Snake River	5.28	Wamsutter	T
Alaska (February)	18.3	+8.8	3 stations	58	[1] 15	Allakaket	−38	27	1.99	−.02	View Cove	16.72	2 stations	T
Hawaii	69.4	+.5	Honokaa	95	8	Kanalohuluhulu	37	12	3.83	−5.27	Korean Camp	17.84	Mahukona	.00
Puerto Rico	73.3	−.6	Juncos	92	11	Guineo Reservoir	46	28	4.11	+.63	Guineo Reservoir	9.75	Mona Island	.60

[1] Other dates also.

TABLE 1.—*Climatological data for Weather Bureau stations, March 1934*

[Compiled by Annie E. Small]

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with .01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	Pct.	In.	In.		Miles								0-10	In.	In.
New England							32.3	−0.4										76	3.29	−0.2										5.4		
Eastport	76	67	85	30.05	30.14	+0.21	29.0	+0.1	50	18	36	2	23	22	30	27	23	78	2.32	−1.5	13	8,019	sw.	32	ne.	11	6	14	11	5.6	5.7	1.0
Greenville, Maine	1,070	6	40	28.91	30.13	------	23.2	------	48	4	34	−7	10	12	45	----	----	----	1.92	------	8	4,751	se.	24	------	23	10	11	10	----	10.2	----
Portland, Maine	103	82	117	30.02	30.15	+.19	31.6	−.2	60	5	40	5	23	23	37	28	22	70	3.86	.0	14	7,006	n.	31	nw.	22	15	10	6	4.0	12.2	T
Concord	289	69	----	------	------	------	31.6	+.8	62	18	43	2	1	20	41	----	----	----	3.14	------	12	------	nw.	----	------	----	6	16	9	----	6.7	----
Burlington	403	11	48	29.70	30.16	+.16	27.2	−1.9	50	18	36	1	23	18	37	----	----	----	1.55	−.5	12	8,834	s.	42	s.	17	6	11	14	6.6	3.1	.1
Northfield	876	12	60	------	30.16	+.16	26.0	−.4	60	18	39	−7	1	13	46	----	----	84	1.39	−1.2	11	6,348	s.	27	sw.	18	8	9	14	6.0	5.0	3.2
Boston	124	336	360	30.01	30.15	+.18	35.1	−.5	68	18	44	6	23	26	42	31	25	70	4.04	+.5	13	11,273	w.	38	w.	6	9	13	9	5.3	10.5	.0
Nantucket	12	14	90	30.13	30.14	+.16	34.6	−.9	55	27	40	13	23	29	19	33	30	83	3.22	−.5	13	12,453	sw.	56	ne.	11	11	11	9	5.1	13.5	.0
Block Island	26	11	46	30.12	30.15	+.17	33.7	−1.7	53	27	39	11	23	28	18	32	30	85	4.17	+.3	11	12,220	sw.	43	ne.	10	8	12	11	5.6	14.4	.0
Providence	160	215	251	29.98	30.16	+.18	35.9	+.2	66	18	45	8	23	27	37	31	25	68	3.82	+.3	13	8,677	nw.	37	sw.	27	14	7	10	4.7	7.3	.0
Hartford	159	70	104	------	30.18	+.19	35.2	+.2	63	18	44	9	23	26	34	----	----	----	3.84	−.1	15	6,606	s.	----	------	----	9	11	11	----	9.9	.0
New Haven	106	74	153	30.06	30.18	+.19	35.4	−.4	62	5	44	10	23	27	31	31	26	72	4.68	+.6	14	7,282	n.	27	n.	18	8	11	12	6.1	6.6	.0
Middle Atlantic States							38.9	−1.9										73	4.21	+0.7										6.2		
Albany	97	107	115	30.06	30.17	+.16	32.4	−.3	58	27	42	3	1	23	32	28	22	70	3.13	+.5	13	6,177	s.	22	w.	22	9	6	16	6.2	5.2	.0
Binghamton	871	60	68	29.20	30.16	+.14	32.6	.0	63	17	43	1	12	22	39	----	----	----	3.60	+1.0	13	5,091	nw.	23	w.	6	6	5	20	7.1	5.3	.0
New York	314	415	454	29.81	30.16	+.16	37.2	−.5	69	18	46	11	23	29	42	32	26	66	4.40	+.8	14	10,796	sw.	46	n.	18	7	11	13	6.3	8.5	.0
Bellefonte	1,050	5	42	28.99	30.14	------	32.0	------	67	17	44	−13	1	20	49	28	23	74	2.50	------	12	------	sw.	38	sw.	6	9	7	15	6.3	5.9	.0
Harrisburg	374	94	104	29.75	30.17	+.14	36.2	−2.7	67	17	46	10	1	27	39	31	25	66	3.34	+.3	15	5,870	w.	34	sw.	6	8	11	12	6.0	6.5	.0
Philadelphia	114	123	367	30.06	30.19	+.17	39.9	−.9	71	18	48	17	23	31	40	34	28	67	2.92	−.5	14	10,351	sw.	40	sw.	6	7	11	13	6.3	10.2	.0
Reading	323	283	306	29.80	30.17	------	37.2	−2.8	71	18	47	12	1	28	44	32	26	67	4.27	+.8	16	8,483	n.	41	w.	6	9	10	12	5.8	10.0	.0
Scranton	805	72	104	29.26	30.16	+.14	34.6	−1.1	67	17	45	7	12	24	38	30	25	73	2.78	−.4	15	5,501	sw.	21	nw.	22	9	9	13	5.8	8.7	.0
Atlantic City	52	37	172	30.12	30.18	+.16	37.0	−1.6	59	14	43	13	12	31	23	34	31	82	4.68	+1.1	18	12,797	s.	39	n.	20	7	7	17	6.8	15.8	.0
Sandy Hook	22	10	57	30.14	30.16	------	35.7	------	68	18	43	11	1	29	37	32	29	79	3.05	−1.0	14	10,678	sw.	38	w.	6	10	8	13	5.8	8.5	.0
Trenton	190	88	106	29.97	30.18	------	37.0	−2.1	72	18	47	12	12	27	43	32	27	73	2.92	−.5	13	7,731	s.	35	sw.	6	7	13	11	6.0	8.0	.0
Baltimore	123	100	215	30.04	30.17	+.14	40.5	−1.8	78	18	50	16	23	32	42	35	29	70	4.47	+.8	16	7,731	sw.	38	w.	6	6	11	14	6.1	13.8	.0
Washington	112	62	85	30.05	30.18	+.14	41.2	−1.4	78	18	51	16	1	31	42	35	28	65	4.18	+.4	16	5,727	s.	31	nw.	6	11	5	15	6.0	9.1	.0
Cape Henry	18	8	54	30.14	30.16	------	45.0	−1.6	77	18	53	27	12	37	35	40	37	80	6.10	+2.2	16	10,851	n.	51	ne.	20	9	6	16	6.5	5.2	.0
Lynchburg	686	5	----	29.40	30.17	+.12	43.0	−4.3	80	18	56	8	1	30	45	----	----	----	5.75	+2.2	18	------	sw.	----	------	----	9	11	11	----	1.1	.0
Norfolk	91	170	205	30.08	30.18	+.15	46.0	−2.2	74	18	54	24	12	38	32	41	37	77	6.31	+2.5	16	10,552	ne.	40	nw.	5	6	8	17	6.5	10.8	.0
Richmond	144	11	62	30.02	30.19	+.15	43.4	−3.8	77	18	54	17	1	33	41	38	34	78	4.36	+.7	17	7,074	ne.	37	nw.	6	7	9	15	6.5	2.4	.0
Wytheville	2,304	49	55	27.70	30.15	+.10	39.4	−2.9	68	17	50	11	11	28	40	34	30	74	5.27	+1.8	15	5,319	w.	31	w.	6	10	8	13	6.0	4.2	.0
South Atlantic States							52.6	−1.5										75	3.47	−0.1										5.4		
Asheville	2,253	89	104	27.76	30.16	+.10	44.9	.0	76	7	57	14	11	33	43	39	33	72	5.07	+1.1	14	7,086	se.	30	nw.	8	9	8	14	5.9	.4	.0
Charlotte	779	244	267	29.31	30.17	+.12	47.7	−2.7	75	7	58	22	12	37	34	41	35	70	2.67	−1.5	17	9,952	sw.	35	nw.	8	14	3	14	5.4	.4	.0
Greensboro	886	6	56	29.19	30.17	------	44.1	------	77	18	56	15	12	32	43	38	34	76	4.90	------	17	7,347	ne.	27	ne.	19	11	7	13	5.9	.4	.0
Hatteras	11	5	50	30.14	30.15	+.11	50.0	−2.0	69	18	56	32	16	44	24	47	44	82	5.42	+1.2	12	10,723	ne.	43	nw.	20	12	7	12	5.5	.0	.0
Raleigh	376	103	146	29.76	30.17	+.12	48.2	−2.0	79	7	59	20	12	37	34	42	37	72	5.03	+1.2	15	7,524	sw.	30	n.	20	11	5	15	5.9	10.5	.0
Wilmington	72	73	107	30.09	30.17	+.12	52.0	−1.3	77	8	62	26	12	42	31	47	43	79	4.46	+1.3	10	7,972	sw.	29	sw.	3	11	8	12	5.4	1.0	.0
Charleston	48	11	92	30.10	30.15	+.09	56.0	−1.4	77	8	64	32	12	48	27	51	48	82	1.18	−1.8	9	8,648	ne.	27	sw.	19	10	6	15	5.8	.0	.0
Columbia, S.C.	351	41	57	29.77	30.16	+.10	53.0	−2.2	80	8	63	26	12	42	34	46	40	70	3.16	−.2	11	6,518	ne.	27	sw.	8	15	3	13	4.7	T	.0
Augusta	182	62	77	29.95	30.14	+.08	54.3	−1.7	80	8	66	29	11	43	37	47	41	69	4.48	+.4	8	5,330	ne.	24	sw.	19	14	6	11	4.9	.0	.0
Savannah	65	73	152	30.08	30.15	+.09	58.3	−.7	81	18	68	29	11	48	31	51	48	78	1.06	−2.0	7	8,827	e.	31	sw.	19	15	3	13	5.2	.0	.0
Jacksonville	43	86	110	30.10	30.15	+.09	61.4	−1.2	84	8	71	31	11	52	30	54	51	78	2.18	−.7	6	6,597	ne.	32	w.	19	14	7	10	4.6	.0	.0
Florida Peninsula							70.2	+0.3										76	1.74	−0.2										4.8		
Key West	22	10	64	30.06	30.08	+.03	73.2	+.6	84	4	78	56	12	68	18	66	63	76	1.45	+.1	8	8,225	e.	30	w.	19	13	14	4	4.3	.0	.0
Miami	25	124	168	30.08	30.11	+.03	70.7	+.5	84	5	77	45	12	65	23	64	61	74	1.28	−.9	10	8,063	e.	25	w.	20	9	9	13	5.9	.0	.0
Tampa	35	88	197	30.08	30.12	+.05	66.6	−.2	85	7	76	40	12	57	28	59	56	78	2.40	+.1	8	8,395	n.	35	nw.	20	14	12	5	4.1	.0	.0
Titusville	44	5	25	30.09	30.14	------	63.9	------	86	4	73	35	12	54	33	----	----	----	4.83	------	8	------	nw.	----	------	----	10	8	13	----	.0	.0
East Gulf States							56.1	−1.5										74	5.42	+0.2										4.9		
Atlanta	1,173	190	198	28.89	30.15	+.09	50.4	−1.6	76	18	61	20	11	40	34	45	41	77	4.07	−1.2	8	8,179	e.	34	nw.	10	14	4	13	5.1	.5	.0
Macon	370	76	84	29.75	30.15	+.09	54.0	−2.7	79	8	66	24	11	42	38	47	42	69	6.39	+1.4	9	5,837	s.	22	nw.	8	13	7	11	5.2	.0	.0
Thomasville	273	49	58	29.85	30.15	+.09	59.5	−.7	83	25	71	28	11	48	35	53	49	77	3.85	−.2	9	------	sw.	----	------	----	10	11	10	----	.0	.0
Apalachicola	35	11	51	30.09	30.13	------	58.6	------	75	27	67	32	11	50	30	55	----	----	4.40	+.2	7	------	s.	----	------	----	18	4	9	----	.0	.0
Pensacola	56	149	185	30.08	30.14	+.08	58.5	−1.8	77	8	66	30	11	51	31	55	53	86	4.24	−.5	9	9,487	se.	44	sw.	3	16	8	7	3.8	.0	.0
Anniston	741	9	----	------	------	------	53.1	+.6	78	7	66	20	11	41	42	----	----	----	5.48	−.2	8	------	se.	----	------	----	11	7	13	----	T	.0
Birmingham	700	11	48	29.36	30.14	+.08	53.2	−2.2	77	31	64	21	11	42	36	46	40	69	8.19	+2.5	9	6,560	s.	25	e.	26	12	8	11	5.1	1.2	.0
Mobile	57	125	161	30.07	30.13	+.07	57.8	−1.9	78	8	67	30	11	49	31	52	49	79	5.93	.0	7	7,970	s.	36	se.	26	15	8	8	4.3	T	.0
Montgomery	218	92	105	29.90	30.15	+.09	57.0	−.8	79	18	68	26	11	46	35	49	43	67	5.09	−.9	9	5,920	se.	26	w.	26	12	7	12	5.4	T	.0
Meridian	375	67	92	29.72	30.13	+.08	55.2	−1.9	80	31	67	24	11	44	37	48	42	69	5.72	+.5	8	5,628	sw.	19	se.	26	12	7	12	5.1	T	.0
Vicksburg	247	65	73	29.86	30.12	+.08	56.4	−2.1	79	7	67	29	11	46	34	49	43	68	5.71	+.1	7	6,190	s.	21	w.	26	8	13	10	5.7	T	.0
New Orleans	53	76	84	30.07	30.13	+.09	61.6	−1.2	82	7	71	35	11	52	33	55	50	74	5.93	+1.2	7	5,812	se.	20	ne.	27	18	5	8	4.1	.0	.0
West Gulf States							56.6	−2.6										70	4.95	+2.1										4.1		
Shreveport	249	92	227	29.84	30.12	+.10	56.8	−1.5	82	7	67	31	19	46	32	49	43	67	9.30	+5.2	8	8,844	s.	35	w.	26	14	8	9	4.7	T	.0
Bentonville	1,303	11	44	28.70	30.10	+.09	44.7	−2.6	76	16	56	14	10	33	41	----	----	----	2.10	------	9	5,937	ne.	21	ne.	13	10	5	16	----	5.5	.0
Fort Smith	457	79	94	29.61	30.10	+.09	50.0	−2.6	80	16	62	20	10	38	42	42	35	63	2.83	−.2	9	6,967	e.	30	sw.	17	13	7	11	5.1	1.7	.0
Little Rock	357	94	102	29.75	30.13	+.10	49.7	−3.3	78	6	60	22	10	39	39	42	35	64	6.84	+2.2	9	7,106	sw.	25	nw.	17	14	3	14	5.2	2.0	.0
Austin	605	136	148	29.44	30.08	------	58.9	−1.8	84	22	72	30	18	46	50	50	43	65	3.82	+1.5	6	7,629	s.	30	s.	17	17	8	6	3.8	T	.0
Brownsville	57	88	96	30.00	30.06	------	64.0	−4.2	82	6	73	38	18	55	32	58	55	80	2.31	+1.0	6	8,931	se.	41	nw.	18	19	5	7	3.5	.0	.0
Corpus Christi	20	11	78	30.08	30.10	+.12	62.2	−2.8	77	22	71	37	19	54	32	56	53	80	1.67	+.1	7	8,677	s.	31	s.	17	16	9	6	3.9	.0	.0
Dallas	512	220	227	29.44	30.09	------	54.2	------	88	22	65	27	10	43	45	47	41	66	3.11	+.2	7	10,184	se.	36	nw.	18	15	8	8	4.1	.7	.0
Fort Worth	670	106	114	29.38	30.11	+.13	54.8	−2.9	93	22	67	26	18	42	50	----	----	----	4.26	+1.9	8	7,428	s.	29	s.	20	22	3	6	2.9	.0	.0
Galveston	54	106	114	30.04	30.10	+.09	60.6	−1.8	75	6	67	37	19	54	29	56	54	85	7.29	+4.6	8	7,977	s.	34	nw.	26	19	5	7	3.6	.0	.0
Houston	138	292	314	29.96	30.11	------	61.1	−2.2	81	6	71	31	18	51	34	----	----	----	4.46	+1.0	7	9,169	s.	36	se.	1	13	11	7	4.2	.0	.0
Palestine	510	64	72	29.57	30.10	+.10	56.0	−3.1	82	7	67	27	18	45	46	49	42	67	5.78	+2.3	8	7,021	s.	27	s.	17	16	7	8	4.3	1.2	.0
Port Arthur	34	58	66	30.06	30.10	------	60.6	------	76	24	69	35	19	52	30	----	----	----	10.66	+7.4	10	6,782	s.	27	nw.	26	13	11	7	4.5	.0	.0
San Antonio	693	242	301	29.34	30.06	+.08	61.0	−1.8	85	7	74	31	18	48	42	51	42	59	2.05	+.2	6	9,230	s.	36	n.	8	18	8	5	3.4	.0	.0

TABLE 1.—*Climatological data for Weather Bureau stations, March 1934*—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.	m	In.	In.		Miles								0–10	In.	In.
Ohio Valley and Tennessee							42.0	−2.6										69	4.70	−0.4											15.9	
Chattanooga	762	71	214	29.32	30.14	+0.08	50.4	−.8	78	7	61	20	11	40	36	44	37	65	11.01	+5.2	13	6,795	nc.	28	w.	19	12	9	10	5.5	0.8	.0
Knoxville	995	66	84	29.06	30.14	+.08	48.4	−.3	74	18	59	20	11	38	35	41	35	66	7.79	+2.7	14	5,256	sw.	28	sw.	5	11	7	13	5.6	1.2	.0
Memphis	399	78	86	29.70	30.13	+.09	49.2	−3.1	75	17	58	20	10	40	30	44	39	73	6.38	+1.1	9	7,014	sw.	28	n.	10	14	5	12	5.0	.5	.0
Nashville	546	168	191	29.56	30.16	+.11	47.2	−2.0	75	17	57	20	11	37	35	41	35	68	7.99	+2.9	14	7,669	s.	32	se.	26	8	9	14	6.2	.1	.0
Lexington	989	5					40.6	−3.1	76	17	51	11	11	30	38				3.86	−.5	16		ne.				12	6	13		4.5	.0
Louisville	525	188	234	29.58	30.17	+.12	42.4	−3.0	75	17	52	16	11	32	35	36	29	65	3.60	−.8	12	8,978	s.	37	s.	5	11	10	10	5.2	4.5	.0
Evansville	431	76	116	29.68	30.16	+.12	42.2	−3.7	72	17	51	12	10	33	32	37	30	66	2.95	−1.2	14	7,814	n.	32	sw.	17	9	6	16	6.2	4.1	.0
Indianapolis	822	194	230	29.25	30.16	+.12	35.3	−4.7	72	17	44	8	10	26	42	31	23	63	3.32	−.6	16	8,946	s.	43	w.	5	7	12	12	5.9	9.1	.0
Terre Haute	575	96	129	29.52	30.16		37.2		73	17	47	6	10	28	44	33	28	72	3.87	+.1	17	8,331	s.	39	w.	5	11	8	12	5.8	12.1	.0
Cincinnati	627	11	51	29.46	30.16	+.11	39.4	−1.5	76	17	50	10	11	29	43	33	28	70	2.83	−1.1	12	6,964	ne.	30	sw.	5	9	8	14	6.4	6.6	.0
Columbus	822	216	230	29.25	30.15	+.11	37.2	−1.9	72	17	47	10	11	28	41	32	26	69	2.20	−1.3	12	8,948	s.	40	w.	6	7	11	13	6.0	6.8	.0
Elkins	1,947	59	78	28.07	30.20	+.15	37.2	−2.8	69	17	49	−1	12	25	46	32	28	79	4.66	+.9	20	4,993	n.	32	w.	5	6	7	18	6.8	16.1	.0
Parkersburg	637	77	84	29.52	30.19	+.14	39.4	−3.4	73	17	51	7	12	27	42	33	28	72	3.19	−.3	13	5,300	se.	27	nw.	5	8	6	17	6.5	11.7	.0
Pittsburgh	842	353	410	29.23	30.16	+.12	36.5	−3.1	70	30	46	9	11	26	44	31	25	69	2.15	−.9	12	8,170	sw.	41	w.	5	10	7	14	6.2	7.6	.0
Lower Lake Region							30.7	−2.3										72	2.68	0.0											6.7	
Buffalo	768	243	280	29.27	30.13	+.11	28.6	−2.5	60	17	36	6	22	22	28	26	22	78	2.32	−.2	19	11,776	sw.	57	sw.	6	4	10	17	7.0	4.0	.0
Canton	448	10	61	29.62	30.12		26.1	−1.6	55	31	34	−2	22	18	38				3.28	+.8	14	7,420	sw.	31	w.	6	7	8	16	6.7	6.6	T
Ithaca	836	77	100	29.21	30.14		32.2	+.4	62	4	42	5	23	22	36	28	22	69	3.05	+.7	17	7,734	nw.	30	s.	27	5	7	19	7.2	7.4	.0
Oswego	335	71	85	29.76	30.15	+.14	30.0	−1.2	61	17	38	5	23	22	34	26	21	71	2.47	−.1	19	8,080	s.	30	w.	6	3	9	19	7.6	11.7	.0
Rochester	523	86	102	29.56	30.15	+.13	31.6	−.2	66	17	40	8	23	24	36	27	20	67	1.74	−1.0	17	5,949	w.	30	w.	6	6	10	15	6.7	5.8	.0
Syracuse	596	65	79	29.50	30.17	+.15	32.4	+1.0	62	17	41	4	23	23	44				3.18	+.2	17	6,235	s.	24	s.	27	4	9	18	7.3	9.0	.0
Erie	714	130	166	29.35	30.14	+.12	30.8	−2.7	69	17	38	9	23	23	33	28	24	75	2.36	−.3	15	10,233	n.	41	sw.	6	8	10	13	5.9	5.5	.0
Cleveland	762	267	337	29.29	30.14	+.11	32.2	−2.4	72	17	40	13	23	24	37	28	23	70	2.43	−.3	16	10,214	n.	38	s.	13	7	10	14	6.3	3.2	.0
Sandusky	629	5	67	29.46	30.17	+.14	32.6	−2.5	71	17	41	11	11	24	37				2.95	+.2	14	7,531	sw.	29	sw.	6	6	9	16	6.6	4.4	.0
Toledo	628	79	87	29.45	30.16	+.13	31.2	−4.1	67	17	39	11	28	24	35	27	22	70	2.76	+.2	14	7,917	sw.	32	w.	5	7	13	11	5.7	9.1	.0
Fort Wayne	857	69	84	29.20	30.16		31.8	−7.1	68	17	40	9	11	24	39	28	23	73	2.75	−.5	12	7,659	nw.	34	w.	5	6	9	16	6.6	10.1	.0
Detroit	626	5	78	29.44	30.15	+.12	29.2	−4.2	66	17	38	3	27	20	39	25	20	72	2.89	+.5	15	8,219	sw.	34	sw.	6	6	6	19	6.7	13.1	.6
Upper Lake Region							25.0	−3.2										76	1.83	−0.3											6.6	
Alpena	609	13	89	29.44	30.13	+.10	22.0	−3.5	47	4	30	−3	23	14	32	20	16	78	2.22	+.2	10	8,556	nw.	31	sw.	6	7	9	15	6.4	15.9	1.5
Escanaba	612	54	60	29.44	30.14	+.10	21.9	−2.3	48	4	30	−3	18	14	30	20	16	80	1.68	−.2	13	8,331	s.	32	n.	21	9	4	18	6.5	12.1	4.0
Grand Rapids	707	70	244	29.35	30.15	+.12	29.0	−4.4	50	17	36	9	22	22	34	25	19	67	1.63	−.8	10	9,282	s.	33	w.	6	8	8	15	6.5	1.7	.0
Lansing	878	6	88	29.16	30.14		27.1	−5.1	57	13	36	−4	28	18	36	25	22	85	1.88	−.5	9	7,919	s.	32	w.	6	5	10	16	6.8	12.6	T
Ludington	637	5	54																													
Marquette	734	77	111	29.28	30.11	+.07	22.0	−2.8	48	4	30	−2	11	14	32	19	17	83	2.30	.0	18	7,621	w.	36	s.	15	6	4	21	7.6	20.8	12.5
Sault Sainte Marie	614	11	52	29.41	30.14	+.11	17.4	−4.2	37	6	27	−14	23	8	35	17	14	86	2.06	+.2	19	6,786	nw.	32	nw.	7	7	6	18	7.1	22.2	12.0
Chicago	673	7	131	29.40	30.15	+.12	32.9	−2.4	64	13	39	10	10	26	35	29	23	69	1.21	−1.4	7	9,004	sw.	30	w.	5	6	10	15	6.5	7.3	.0
Green Bay	617	109	141	29.43	30.12	+.08	26.4	−2.2	50	15	35	4	18	18	33	23	17	69	2.37	+.3	11	9,641	s.	40	w.	5	6	8	17	6.8	12.3	6.5
Milwaukee	681	97	221	29.37	30.13	+.10	30.2	−1.9	55	15	38	8	10	23	31	27	20	65	1.97	−.4	9	10,567	w.	35	sw.	15	9	9	13	6.1	7.1	T
Duluth	1,133	5	47	28.84	30.11	+.05	20.6	−3.1	48	4	30	−9	18	11	30	18	14	78	.96	−.6	5	9,890	w.	50	nw.	5	9	11	11	5.7	9.4	T
North Dakota							26.0	+3.6										71	0.62	−0.2											5.8	
Moorhead, Minn	940	50	58	29.09	30.15	+.07	24.2	+1.5	61	12	35	−5	17	14	38	21	15	71	.83	−.2	6	7,980	s.	29	nw.	5	7	13	11	6.3	5.1	.0
Bismarck	1,674	8	57	28.30	30.15	+.09	28.2	+4.0	69	12	40	−3	9	16	49	23	17	69	.62	−.3	7	7,793	nw.	32	nw.	5	6	16	9	5.9	4.2	.0
Devils Lake	1,478	11	44	28.50	30.14	+.09	23.0	+3.2	55	12	34	−6	17	12	41	19	14	73	.43	−.4	9	8,649	nw.	35	nw.	5	5	16	10	6.1	1.8	.0
Grand Forks	833	12	67				21.6		53	12	32	−7	24	11	33	19			.29		4		nw.	35	nw.	5	9	13	9		2.8	T
Williston	1,878	41	48	28.10	30.15	+.11	28.8	+5.9	60	11	38	−6	9	19	41	25	19	70	.62	−.1	7	7,334	nw.	32	nw.	5	11	15	5	4.8	5.5	.0
Upper Mississippi Valley							34.5	−1.8										67	1.99	−0.4											5.7	
Minneapolis	918	102	208	29.10	30.12		29.0	−.6	65	20	39	2	9	19	35	24	16	61	.68	−.7	10	9,483	nw.	37	nw.	5	6	12	13	6.3	5.9	.5
La Crosse	714	11	48	29.32	30.12	+.08	30.5	−1.0	65	20	41	5	10	20	39	25	19	67	1.58	.0	8	5,518	s.	23	nw.	5	10	10	11	5.7	12.9	6.8
Madison	974	70	78	29.04	30.13	+.09	29.1	−1.5	57	12	38	7	10	21	31	26	20	72	1.65	−.4	9	7,601	nw.	28	nw.	5	10	8	13	5.8	4.6	1.2
Charles City	1,015	10	51	29.02	30.14	+.09	30.6	−.1	69	20	42	4	10	20	40	25	17	63	1.85	+.1	7	6,714	n.	27	nw.	5	12	11	8	4.9	6.5	3.5
Davenport	606	66	161	29.47	30.15	+.12	35.1	−1.0	64	30	44	8	10	26	33	30	23	64	1.50	−.8	11	8,173	sw.	35	nw.	5	9	9	13	6.0	2.5	.0
Des Moines	861	5	99	29.21	30.15	+.11	35.0	−.9	71	20	45	5	10	25	45	30	23	65	1.00	−.8	10	8,241	n.	32	w.	5	8	10	13	6.0	6.2	T
Dubuque	700	81	96	29.36	30.14	+.10	32.8	−1.2	62	12	42	10	10	24	33	28	21	65	1.72	−.3	9	5,963	nw.	30	nw.	5	10	9	12	5.8	1.8	.0
Keokuk	614	64	78	29.48	30.18	+.15	36.7	−2.2	69	20	47	9	10	27	37	31	25	67	1.77	−.6	12	7,061	n.	30	n.	5	8	6	17	6.1	9.5	.0
Cairo	358	87	93	29.75	30.14	+.10	44.4	−2.8	74	17	54	14	10	35	36	39	32	66	3.86	+.1	16	8,358	n.	31	n.	9	8	10	13	6.1	1.4	.0
Peoria	609	11	45	29.48	30.17	+.14	34.1	−2.9	68	30	44	−1	10	24	36	30	25	72	1.76	−1.0	10	6,484	s.	28	w.	5	13	9	9	4.9	14.7	.0
Springfield, Ill	636	5	191	29.45	30.15	+.12	36.4	−3.8	70	13	46	5	10	27	39	32	27	73	3.50	+.3	12	9,420	s.	37	nw.	5	9	10	12	5.9	15.7	.0
St. Louis	568	265	303	29.52	30.14	+.11	40.8	−3.0	73	13	50	13	10	31	41	34	28	65	2.96	−.4	13	9,463	ne.	35	sw.	12	12	8	11	5.3	4.5	.0
Missouri Valley							38.4	−0.2										62	1.31	−0.6											5.4	
Columbia, Mo	784	6	84	29.30	30.15	+.12	39.8	−2.8	76	20	50	13	10	30	39				2.91	.0	12	7,476	n.	27	n.	26	11	10	10	5.3	8.8	.0
Kansas City	750	32	45	29.31	30.14	+.12	41.8	−.9	79	20	54	14	10	30	45	35	27	63	.65	−1.9	8	8,946	sw.	32	n.	13	8	14	9	5.6	1.0	.0
St. Joseph	967	11	49	29.08	30.14		40.6		82	20	53	10	10	28	49	33	24	60	.43	−1.6	7	7,379	ne.	28	n.	13	11	11	9	5.2	2.3	.0
Springfield, Mo	1,324	98	104	28.69	30.12	+.10	42.2	−3.0	74	20	53	12	10	31	40	36	31	70	2.76	−.6	9	8,387	s.	25	nw.	9	16	5	10	4.6	5.2	.0
Iola	984	11	50	29.07	30.14	+.13	44.4	−.1	80	20	59	12	10	30	54				1.52	−1.1	5		n.				10	11	10		T	.0
Topeka	987	65	87				42.2	−.4	84	20	55	11	18	29	49				.76	−1.3	6	8,098	s.	30	n.	13	12	11	8	4.7	2.9	.0
Lincoln	1,189	11	81	28.84	30.14	+.12	38.0	+.5	79	20	50	8	18	26	49	31	23	61	.80	−.5	7	8,187	n.	29	n.	17	7	10	14	6.1	6.1	.0
Omaha	1,105	170	200	28.94	30.16	+.12	37.4	+.4	78	20	49	8	10	26	41	30	22	59	.77	−.6	8	9,399	n.	38	n.	17	10	8	13	5.8	7.0	.2
Valentine	2,598	47	54	27.37	30.16	+.13	33.0	+.7	71	19	46	−1	24	20	61	28	21	66	1.56	+.5	8	7,529	w.	31	n.	16	8	13	10	6.0	14.8	1.0
Sioux City	1,138	64	106	28.89	30.15	+.10	34.0	+1.3	74	20	45	2	10	23	48	28	20	62	1.36	+.2	10	8,107	nw.	34	nw.	16	8	10	13	6.1	9.4	1.3
Huron	1,306	60	74	28.71	30.16	+.10	30.8	+1.9	72	12	43	1	17	18	57	25	17	61	.84	−.1	8	8,323	n.	30	n.	16	14	11	6	4.6	8.9	2.3
Northern Slope							36.8	+5.4										65	1.11	+0.1											6.0	
Billings	3,140	4					38.6		72	12	54	8	8	24	45				1.50		10		nw.				7	9	15		11.0	.0
Havre	2,505	11	67	27.44	30.15	+.15	32.6	+5.5	65	18	43	−7	9	22	38	28	22	71	1.05	+.5	11	7,555	e.	38	w.	2	5	16	10	6.1	15.3	T
Helena	4,124	85	111	25.84	30.10	+.09	38.0	+5.6	64	12	49	13	17	27	37	32	25	61	.93	+.1	13	6,625	w.	36	sw.	6	4	13	14	6.7	9.7	T
Kalispell	2,973	48	56	27.00	30.09	+.10	39.9	+7.0	64	18	50	22	24	30	33	35	29	70	2.72	+1.8	12	4,958	nw.	26	nw.	2	6	11	14	6.4	17.4	4.1
Miles City	2,371	48	55	27.56	30.18	+.16	34.8	+6.2	69	19	46	3	9	24	40	29	22	65	1.05	+.2	7	5,957	s.	29	nw.	4	7	16	8	5.7	8.2	T
Rapid City	3,259	50	58	26.66	30.18	+.17	33.9	+1.3	74	11	46	3	17	21	49	29	23	70	.64	−.3	10	6,710	n.	32	nw.	4	9	12	10	5.7	6.6	.0
Cheyenne	6,094	50	71	24.01	30.08	+.12	37.8	+4.7	65	19	50	9	17	26	46	31	24	62	.86	−.2	16	9,982	w.	38	w.	2	5	11	15	6.4	6.7	.0
Lander	5,372	60	68	24.67	30.08	+.09	39.4	+7.0	66	12	53	3	17	26	43	33	25	62	.92	−.3	6	4,971	w.	45	sw.	2	9	16	6	4.8	10.5	.0
Sheridan	3,790	10	47	26.14	30.12		35.9		70	11	49	−5	24	23	50	30	23	66	1.61	+.4	12	5,102	nw.	30	nw.	4	8	11	12	5.8	11.0	.0
Yellowstone Park	6,241	11	48	23.91	30.12	+.10	35.8	+9.3	59	14	47	8	17	25	39	29	22	61	.96	−.7	12	6,295	sw.	25	sw.	2	5	11	15	6.9	3.9	.0
North Platte	2,821	11	51	27.14	30.12	+.12	38.9	+2.3	78	16	53	10	17	25	61	32	24	64	.36	−.5	6	7,054	w.	32	n.	16	6	16	9	5.8	1.5	.0

TABLE 1.—*Climatological data for Weather Bureau stations, March 1934*—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: Departure from normal	Temperature: Maximum	Temperature: Date	Temperature: Mean maximum	Temperature: Minimum	Temperature: Date	Temperature: Mean minimum	Temperature: 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.	m	In.	In.		Miles								0–10	In.	In.
Middle Slope							44.6	+1.4										57	0.72	−0.5										5.6		
Denver	5,292	106	113	24.75	30.06	+0.11	43.8	+4.5	68	6	57	13	17	31	48	34	23	51	1.00	0.0	10	6,758	s.	35	n.	16	5	16	10	6.3	8.7	0.0
Pueblo	4,685	80	86	25.33	30.06	+.14	45.4	+3.8	76	19	61	13	8	30	48	35	23	51	.38	−.2	5	5,724	n.	40	n.	31	7	19	5	5.4	3.5	.0
Concordia	1,392	50	58	28.65	30.16	+.15	41.0	.0	83	20	53	11	18	29	47	34	26	63	.29	−.9	4	7,233	ne.	31	ne.	13	11	9	11	5.2	1.2	.0
Dodge City	2,509	10	86	27.48	30.13	+.16	43.9	+1.1	79	20	58	10	18	30	47	35	26	59	.52	−.4	4	9,555	ne.	39	n.	17	12	9	10	5.0	2.7	.0
Wichita	1,358	85	93	28.65	30.12	+.13	45.0	−.1	85	20	58	13	18	32	47	36	26	56	1.16	−.6	5	9,547	sw.	31	sw.	16	11	7	13	5.7	.2	.0
Oklahoma City	1,214	10	47	28.80	30.11	+.13	48.8	−1.2	86	20	62	19	10	36	47	40	32	61	.95	−1.0	6	8,549	s.	33	n.	17	12	6	13	6.1	.1	.0
Southern Slope							54.3	−0.2										52	1.94	+1.1										3.8		
Abilene	1,738	10	52	28.26	30.08	+.12	54.4	−2.1	92	22	68	25	18	41	46	43	32	55	3.23	+1.9	6	8,349	s.	31	s.	17	17	6	8	4.1	.2	.0
Amarillo	3,676	10	49	26.32	30.08	+.13	49.1	+2.2	84	6	64	18	18	34	47	37	25	50	2.83	+2.1	6	7,338	ne.	26	n.	17	13	11	7	4.3	21.5	.0
Big Spring	2,537	5	62	27.44	30.08	------	53.4	------	89	22	69	24	18	38	50	42	31	55	1.82	------	3	------	s.	----	----	----	18	7	6	3.5	T	.0
Del Rio	944	64	71	29.04	30.03	+.08	62.0	−1.5	90	22	76	34	19	47	45	50	39	52	.59	−.1	3	7,815	se.	38	n.	17	22	4	5	3.0	.0	.0
Roswell	3,566	75	85	26.42	30.05	+.15	51.7	+.4	84	6	68	21	18	35	52	40	25	47	1.12	+.4	4	6,497	s.	40	ne.	3	16	8	7	4.2	2.2	.0
Southern Plateau							58.3	+7.5										40	0.17	−0.4										3.1		
El Paso	3,778	152	175	26.23	30.01	+.13	58.0	+2.2	83	31	73	29	18	43	42	43	24	35	.24	−.1	3	7,611	w.	39	ne.	17	26	1	4	2.0	T	.0
Albuquerque	4,972	5	39	25.08	29.98	------	49.3	------	79	29	67	19	18	32	48	37	24	42	.01	------	1	7,185	n.	42	nw.	4	16	11	4	3.7	T	.0
Santa Fe	7,013	38	53	23.28	30.01	+.12	44.4	+4.7	70	29	58	15	18	30	39	34	21	44	T	−.8	0	5,060	e.	25	sw.	31	15	14	2	3.6	T	.0
Flagstaff	6,907	10	59	23.40	29.98	+.07	44.8	+8.9	70	29	62	17	9	28	47	35	----	53	.40	------	3	6,398	sw.	31	ne.	1	6	19	6	----	.0	.0
Phoenix	1,108	10	107	28.80	29.94	+.03	70.0	+9.3	95	30	86	47	2	54	38	51	31	30	.10	−.6	1	4,534	e.	21	ne.	17	15	13	3	3.8	.0	.0
Yuma	141	9	54	29.78	29.98	+.04	73.0	+8.9	99	30	90	50	2	56	45	55	37	34	.18	−.2	1	3,930	n.	22	n.	8	25	6	0	2.2	.0	.0
Independence	3,957	5	26	26.05	30.08	+.14	59.7	+11.2	83	30	76	34	8	44	41	44	----	----	.30	−.2	1	------	nw.	----	----	----	22	5	4	----	.0	.0
Middle Plateau							49.7	+8.8										42	0.37	−0.7										4.5		
Reno	4,532	74	81	25.56	30.07	+.09	52.4	+11.4	76	15	68	28	8	37	44	42	31	50	.09	−.7	2	4,719	w.	25	w.	26	15	9	7	4.5	.0	.0
Tonopah	6,090	12	20	------	------	------	52.0	------	70	30	62	33	7	42	26	39	23	35	.01	------	1	------	w.	----	----	----	----	----	----	----	.0	.0
Winnemucca	4,344	18	56	25.72	30.13	+.12	48.6	+8.6	76	14	66	23	18	32	50	38	26	49	.66	−.3	6	6,046	sw.	30	nw.	28	12	12	7	4.4	.0	.0
Modena	5,473	10	46	24.68	30.04	+.08	46.8	+8.6	73	14	65	13	8	28	52	35	18	39	.06	−1.0	2	7,055	w.	30	nw.	2	12	9	10	5.0	.0	.0
Salt Lake City	4,360	86	210	25.71	30.09	+.11	50.6	+8.9	71	19	61	30	8	41	36	40	28	44	.96	−1.0	5	5,223	nw.	38	nw.	29	13	12	6	4.3	T	.0
Grand Junction	4,602	60	68	25.42	30.01	+.07	50.2	+6.6	73	28	65	25	9	36	37	38	23	38	.09	−.7	2	4,789	se.	30	n.	7	13	13	5	4.3	.0	.0
Northern Plateau							49.2	+8.0										56	1.04	−0.1										5.2		
Baker	3,471	48	53	26.55	30.16	+.13	45.6	+8.0	73	13	59	22	24	32	40	39	32	62	.55	−.6	7	5,473	se.	25	w.	2	10	12	9	4.9	T	.0
Boise	2,739	79	87	27.27	30.15	+.12	50.6	+7.9	73	15	63	29	17	39	37	42	31	52	.88	−.5	8	3,969	se.	22	nw.	16	12	9	10	5.0	.0	.0
Pocatello	4,477	60	68	25.54	30.08	+.07	47.4	+10.0	71	19	59	19	24	36	43	38	26	47	.37	−.9	7	7,936	sw.	30	sw.	4	13	9	9	4.8	.6	.0
Spokane	1,929	101	110	28.03	30.10	+.09	47.2	+7.5	67	14	58	25	24	36	33	40	32	61	1.53	+.3	5	5,071	s.	26	sw.	2	10	11	10	5.6	.0	.0
Walla Walla	991	57	65	29.04	30.12	+.10	53.4	+7.3	74	14	63	32	23	43	32	46	37	57	2.29	+.7	10	4,384	s.	29	w.	2	12	9	10	5.1	.0	.0
Yakima	1,076	58	67	28.96	30.12	------	51.2	+7.1	77	14	64	28	24	38	35	43	34	56	.60	+.2	6	3,907	nw.	26	w.	3	12	9	10	5.6	.0	.0
North Pacific Coast Region							52.6	+7.2										74	4.18	0.0										6.7		
North Head	211	11	56	29.89	30.12	+.11	50.3	+5.1	73	10	55	40	17	46	23	48	45	86	6.22	+.7	14	9,509	n.	49	s.	1	8	6	17	6.7	.0	.0
Seattle	125	90	321	29.98	30.11	+.12	52.0	+7.1	69	13	60	39	25	44	27	46	41	70	2.65	−.4	13	6,865	n.	45	sw.	5	6	12	13	6.4	.0	.0
Tatoosh Island	86	10	54	30.00	30.10	+.14	48.8	+5.9	67	9	52	40	5	45	20	46	43	83	8.22	+.4	13	11,559	e.	50	s.	1	6	4	21	7.4	.0	.0
Medford	1,329	29	58	28.69	30.10	------	55.0	------	80	10	70	28	7	40	48	48	41	64	1.15	−.6	7	3,536	nw.	21	nw.	24	9	4	18	6.5	.0	.0
Portland, Oreg	153	68	106	29.96	30.12	+.10	55.2	+8.3	76	12	64	38	17	46	30	49	43	68	5.18	+1.3	14	4,691	nw.	21	e.	23	8	9	14	6.3	.0	.0
Roseburg	510	45	76	29.57	30.12	+.08	56.5	+9.4	80	12	68	33	17	44	39	51	46	73	1.65	−1.6	11	2,799	n.	20	sw.	21	3	16	12	6.8	.0	.0
Middle Pacific Coast Region							59.9	+7.3										74	1.24	−2.3										5.5		
Eureka	62	73	89	30.08	30.15	+.09	54.2	+5.9	72	8	59	41	7	49	28	52	51	90	3.61	−1.6	10	4,098	n.	23	n.	6	3	9	19	7.3	.0	.0
Red Bluff	330	5	58	29.72	30.08	+.04	63.2	+9.6	87	9	76	42	1	51	38	54	46	61	1.13	−2.1	6	4,058	nw.	20	nw.	6	10	8	13	5.7	.0	.0
Sacramento	66	87	115	30.00	30.08	+.05	61.5	+7.2	81	11	73	45	1	50	33	55	50	70	.13	−2.4	3	4,770	s.	18	nw.	31	16	14	1	3.6	.0	.0
San Francisco	155	208	243	29.92	30.09	+.03	60.6	+6.4	81	11	68	49	1	53	27	60	51	77	.07	−3.1	2	4,403	w.	22	w.	23	8	16	7	5.4	.0	.0
South Pacific Coast Region							63.7	+7.3										69	0.08	−2.0										4.9		
Fresno	327	97	105	29.71	30.07	+.06	63.8	+8.8	85	18	77	45	1	51	33	56	49	64	T	−1.6	0	3,860	nw.	17	nw.	28	12	12	7	4.6	.0	.0
Los Angeles	338	159	191	29.66	30.03	+.01	65.5	+8.0	92	10	76	51	8	55	37	55	48	64	.01	−2.8	1	3,884	se.	14	e.	8	13	14	4	4.1	.0	.0
San Diego	87	62	70	29.92	30.01	−.01	61.8	+5.1	85	9	69	48	13	54	28	56	53	79	.24	−1.5	3	4,468	nw.	18	nw.	27	9	6	16	5.9	.0	.0
West Indies																																
San Juan, P.R	82	9	54	29.93	30.02	------	75.2	−.2	85	19	81	67	12	70	17	----	----	----	2.42	−.7	23	8,476	e.	31	e.	11	6	23	2	5.3	.0	.0
Panama Canal																																
Balboa Heights	118	6	97	------	[1]29.86	+.01	80.3	−.9	92	22	90	68	5	71	23	----	----	[1]72	.20	−.5	1	7,277	nw.	24	n.	19	18	13	0	3.6	.0	.0
Cristobal	36	6	97	------	[1]29.89	+.01	81.1	−.4	86	31	85	74	25	77	11	73	71	[1]73	1.10	−.5	13	10,980	n.	25	nw.	16	18	13	0	3.5	.0	.0
Alaska																																
Fairbanks	454	11	87	[2]29.50	[2]30.05	------	9.2	------	50	30	24	−39	4	−6	49	10	2	66	.43	------	8	3,296	s.	19	w.	13	11	6	14	5.8	9.1	17.5
Juneau	80	96	116	[2]29.91	[2]30.00	------	36.2	------	57	10	42	18	7	31	20	33	25	65	4.65	------	18	5,963	w.	27	ne.	28	10	4	17	6.3	7.8	.0
Hawaiian Islands																																
Honolulu	38	86	100	[2]29.98	[2]30.02	------	71.8	+.4	81	1	77	63	25	67	14	66	62	74	.65	−2.6	10	6,166	ne.	24	ne.	29	13	13	5	4.5	.0	.0

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

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

MARCH 1934

Stations	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												
Sydney, Cape Breton Island	48	30.06	30.11	+0.23	25.9	−0.3	35.6	16.3	48	−3	2.85	−2.08	16.5
Halifax, Nova Scotia	88	29.85	29.96	+.02	29.3	+.3	36.2	22.4	48	4	4.10	−1.36	17.5
Yarmouth, Nova Scotia	65	30.01	30.08	+.13	32.1	+1.3	38.8	25.4	49	10	3.65	−1.35	16.6
Charlottetown, Prince Edward Island	38	30.03	30.07	+.17	26.0	+.6	33.4	18.7	47	2	3.66	+.45	24.1
Chatham, New Brunswick	28	29.96	30.00	+.10	21.4	−1.6	32.4	10.4	46	−12	2.91	−.56	10.3
Father Point, Quebec	20	30.04	30.07	+.17	21.5	+1.2	28.2	14.8	40	15	3.05	+.32	30.1
Quebec, Quebec	296	29.79	30.14	+.18	20.9	−.3	27.7	14.1	41	−5	3.80	+.54	28.4
Doucet, Quebec	1,236				9.6		24.6	−5.5	45	−46	2.49		24.5
Montreal, Quebec	187												
Ottawa, Ontario	236	29.86	30.14	+.13	23.5	+2.0	32.5	14.5	47	−8	4.99	+2.27	16.4
Kingston, Ontario	285	29.80	30.13	+.12	26.2	+.6	32.7	19.8	50	−1	2.52	−.12	4.0
Toronto, Ontario	379	29.72	30.15	+.13	28.0	+.7	34.7	21.3	53	1	2.67	+.03	10.8
Cochrane, Ontario	930				12.5		22.9	2.1	44	−26	1.40		13.4
White River, Ontario	1,244	28.69	30.07	+.04	10.2	−2.0	24.3	−4.0	42	−46	2.60	+1.22	26.0
London, Ontario	808				25.2		33.0	17.5	57	−2	2.79		6.3
Southampton, Ontario	656	29.38	30.13	+.10	22.0	−2.7	29.5	14.6	46	−7	2.64	−.01	11.8
Parry Sound, Ontario	688	29.39	30.13	+.11	21.4	+.3	29.5	13.4	44	−14	3.41	+1.18	22.4
Port Arthur, Ontario	644	29.35	30.08	+.03	18.0	+1.2	26.4	9.7	49	−12	.68	−.29	6.3
Winnipeg, Manitoba	760	29.27	30.15	+.06	14.4	+2.1	24.5	4.3	44	−19	1.18	+.15	9.1
Minnedosa, Manitoba	1,690	28.24	30.14	+.08	16.8	+4.3	26.8	6.8	44	−12	.17	−.48	1.7
Le Pas, Manitoba	860				9.4		21.9	−3.0	44	−22	.23		2.3
Qu'Appelle, Saskatchewan	2,115	27.74	30.06	+.02	23.2	+8.3	32.7	13.6	56	−7	.37	−.40	2.2
Moose Jaw, Saskatchewan	1,759				26.2		35.8	16.7	61	−6	.37		2.4
Swift Current, Saskatchewan	2,392	27.48	30.09	+.07	27.1	+5.1	36.4	17.9	57	−13	.51	−.30	4.9
Medicine Hat, Alberta	2,365	27.52	30.06	+.06	29.9	+2.4	39.1	20.7	66	−7	1.29	+.53	11.2
Calgary, Alberta	3,540	26.33	30.12	+.17	27.6	+1.4	36.7	18.6	66	1	1.42	+.70	14.2
Banff, Alberta	4,521	25.38	30.07	+.13	29.3	+9.1	38.6	20.0	53	3	1.04	−.37	9.7
Prince Albert, Saskatchewan	1,450	28.52	30.17	+.09	16.4	+4.4	27.3	5.6	53	−23	.81	+.04	7.9
Battleford, Saskatchewan	1,592	28.34	30.15	+.09	22.6	+9.5	31.8	13.4	54	−12	.32	−.14	2.9
Edmonton, Alberta	2,150	27.77	30.13	+.17	26.2	+2.0	34.4	17.9	64	−3	.88	+.16	4.1
Kamloops, British Columbia	1,262	28.80	30.12	+.20	41.2	+5.1	50.9	31.5	64	23	1.06	+.49	5.0
Victoria, British Columbia	230	29.85	30.11	+.14	48.7	+6.8	54.6	42.8	63	37	4.12	+1.00	.0
Barkerville, British Columbia	4,180												
Estevan Point, British Columbia	20				46.0		5.13	40.8	56	33	8.31		.0
Prince Rupert, British Columbia	170				41.3		47.9	34.6	63	26	8.10		3.0
Hamilton, Bermuda	151												

LATE REPORTS FOR FEBRUARY 1934

Cochrane, Ontario	930				−7.4		4.7	−19.5	28	−36	1.18		11.8
Port Arthur, Ontario	644	29.46	30.22	+.17	5.0	−1.4	15.5	−5.5	38	−29	.34	−.56	3.4
Banff, Alberta	4,521	25.43	30.19	+.21	22.6	+3.4	32.7	12.4	44	−25	.22	−.70	1.4
Edmonton, Alberta	2,150	27.76	30.13	+.11	21.9	+13.6	31.4	12.5	52	−25	.56	−.11	5.6
Kamloops, British Columbia	1,262	28.86	30.19	+.23	31.7	+3.4	38.4	25.1	57	11	.09	−.70	.0
Estevan Point, British Columbia	20				44.8		50.7	38.9	54	30	6.98		.0

SEVERE LOCAL STORMS, MARCH 1934

[Compiled by Mary O. Souder]

[This 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	Authority
Gordo, Ala., southwest to northeast of.	2		100		$2,000	Tornadic winds	3 persons injured; property damaged; path 2 miles long.	Official, U.S. Weather Bureau.
Hill County, Mont	2					Gale	Damage to plowed fields by soil blowing	Do.
Chattanooga, Tenn., and vicinity.	3					Flood	Previous heavy rains caused flooding conditions; families in lowlands forced to move out.	Do.
Albany (near), Ga	4				5,000	Wind	Several buildings demolished; considerable amount of lumber destroyed.	Do.
South Dakota, entire State	4	P.m.				Wind and dust	Due to long-continued drought and barren fields, wind caused much blowing of soil.	Do.
Golden, Colo., and vicinity	5	A.m.				Wind	Property damage amounting to thousands of dollars.	Do.
Roswell, N.Mex	5					do	House unroofed; windmill blown down; roof taken off instrument shelter.	Do.
South Dakota, eastern portion of State.	5	8 a.m.-8 p.m.				Wind and dust	Severe duststorm; much blowing of soil	Do.
Superior, Ariz	8				5,000	Wind	Buildings and trees damaged; wind velocity of 84 miles per hour recorded.	Do.
La Villa-Mercedes, Tex	14	3-5 p.m.	[1] 5			Hail	Severe damage to tomato crop, other crops also damaged; some property damage; no estimate of loss given; path 28 miles long.	Do.
South Dakota, entire State	16	7 a.m.-7 p.m.				Dust and gale	Unusually severe duststorm; lights required in early afternoon; visibility at times less than 50 yards; motorists and traffic moved slowly.	Do.

[1] Miles instead of yards.