after entering the Continent. The approximate positions, day by day, are given as follows:

	Latitude N. °	′	Longitude E. °	′
July 15, 6 a. m.	8	20	135	40
July 16, 6 a. m.	10	30	130	50
July 17, 6 a. m.	14	20	126	
July 18, 6 a. m.	19		123	50
July 19, 6 a. m.	20	40	125	
July 20, 6 a. m.	21	50	125	
July 21, 6 a. m.	23	50	125	
July 22, 6 a. m.	25	50	123	30
July 23, 6 a. m.	27	30	119	

Typhoon, July 22 to 31.—After an irregular course over the Western Caroline Islands and the Ladrone Islands, this typhoon moved quite rapidly along a northwest course across the ocean. It changed to the west when approaching the Nansei (Loochoos) Islands, crossed Formosa and entered the continent. The daily positions are listed below:

	Latitude N. °	′	Longitude E. °	′
July 22, 6 a. m.	10		145	
July 23, 6 a. m.	10	40	142	
July 24, 6 a. m.	14	30	142	
July 25, 6 a. m.	17		143	
July 26, 6 a. m.	18		139	
July 27, 6 a. m.	20	40	133	
July 28, 6 a. m.	23	20	129	
July 29, 6 a. m.	23	30	124	
July 30, 6 a. m.	24		119	30
July 31, 6 a. m.	24		114	

There was considerable destruction over Formosa as this typhoon crossed the island, but details are not yet available. Over the Philippines, rains caused great damage along the western coast of Luzon and over the provinces between Manila and Baguio. Reports from the U. S. S. *Gold Star*, the steamship *Steel Seafarer*, the steamship *Penrith Castle*, showed that the southwest winds of this typhoon were strong and prevailed over a very wide area. Without a doubt, this was the most important typhoon of the month.

A few remarks are in order concerning the movement of this typhoon on July 24. On the two preceeding days, it had recurved from a west northwest course to a northeast course and was, on July 24, moving quite fast about 200 miles northwest of Guam. Late in the afternoon, however, it slowed down and was almost stationary, about 200 miles north of the island. During the night, it began to move northwest and the morning of the 25th found it started on its journey to Formosa. These details concerning the movement at these times have been obtained from the hourly observations sent to the observatory through the kindness of the officials of the Commercial Pacific Cable Co., and from the observations of the steamship *Nemea*. It seems that a high-pressure area developed northeast of Guam, but, as Guam is on the border of the region of observation, this explanation will have to be verified when weather maps of the whole north Pacific arrive.

Depression, July 25 and 26.—This depression, of little importance, formed east of Luzon, then moved north-northwest to combine with the typhoon just described above. The approximate positions during these 2 days are given below:

	Latitude N. °	′	Longitude E. °	′
July 25, 6 a. m.	16	10	129	
July 26, 6 a. m.	17	30	128	40

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, July 1935

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

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	81.3	+1.0	Tuscaloosa	103	31	2 stations	60	[1] 10	4.74	−0.68	Clayton	15.48	Florence	0.77
Arizona	80.6	−1.2	Quartzsite	118	16	Fort Valley	29	4	1.29	−.81	Jerome	4.87	San Simon	.00
Arkansas	82.2	+1.8	Hot Springs	107	31	Dutton	53	15	2.32	−1.46	Wilson	5.93	Marianna	.07
California	71.0	−2.6	Cow Creek	123	13	Twin Lakes	22	[1] 8	.07	.00	Bridgeport	1.47	102 stations	.00
Colorado	70.0	+3.0	2 stations	106	[1] 6	3 stations	25	[1] 1	1.52	−.70	Dillon	5.09	La Veta Pass	.04
Florida	80.7	−.6	De Funiak Springs	101	8	Davie	58	31	9.11	+1.88	Madison	20.68	Chapman Field Garden.	2.81
Georgia	80.0	−.1	4 stations	100	5	Blairsville	51	16	6.87	+1.15	Lumber City	16.91	La Fayette	1.46
Idaho	68.5	+.5	Lewiston	116	14	Obsidian	22	1	.31	−.30	Mullan	1.95	13 stations	.00
Illinois	79.0	+2.7	2 stations	104	31	2 stations	51	16	3.33	+.04	La Harpe	7.78	Jacksonville	.81
Indiana	78.0	+2.4	do	102	31	Wheatfield	48	16	3.57	+.22	Greenfield	8.70	Rochester	.94
Iowa	79.4	+5.0	Sac City	107	28	Maquoketa (near)	51	14	3.35	−.38	Boone	8.86	Lenox	.70
Kansas	84.3	+5.5	Phillipsburg	113	10	Burr Oak	53	14	.68	−2.56	Lindsborg	4.18	3 stations	.00
Kentucky	78.8	+1.5	Murray	103	31	3 stations	56	[1] 14	5.16	+1.02	Pine Mountain	11.21	Paducah	.80
Louisiana	82.7	+.9	Leesville	104	8	Pollock	57	15	5.24	−.92	Port Eads	13.33	Shreveport	1.02
Maryland-Delaware	76.9	+1.7	2 stations	101	20	Grantsville, Md	42	30	4.24	.00	Aberdeen, Md	8.85	Keedysville, Md	1.58
Michigan	73.0	+4.3	Centerville	101	19	Dukes	33	16	2.57	−.28	Ironwood	8.55	Croswell	.05
Minnesota	75.0	+5.2	New Ulm	108	27	Grand Marais	42	3	3.82	+.46	Leech Lake Dam	9.33	Faribault	.86
Mississippi	82.2	+1.1	Duck Hill	105	31	Batesville	59	15	3.20	−1.83	Pearlington	11.77	Scott	.25
Missouri	80.8	+3.0	4 stations	104	[1] 26	2 stations	53	[1] 14	3.12	−.65	Greenville	8.82	Nevada	T
Montana	69.1	+2.4	2 stations	111	28	do	25	[1] 1	1.63	+.15	Poplar	6.87	Lima	.03
Nebraska	81.0	+6.3	Newport	112	27	Merriman	44	16	1.34	−2.00	York	4.50	3 stations	T
Nevada	72.3	.0	Logandale	116	13	Sheldon	28	2	.18	−.18	Searchlight	1.38	9 stations	.00
New England	71.2	+2.1	Turner's Falls, Mass.	101	6	Somerset, Vt	35	[1] 2	3.76	+.04	May's Mills, Vt	8.78	Woodland, Maine	.88
New Jersey	76.0	+2.3	Charlotteburg	101	12	Runyon	40	3	4.66	−.13	Belvidere	10.94	Atlantic City	.70
New Mexico	72.8	+.5	Nara Visa (near)	109	12	Therma (near)	19	5	1.34	−1.22	Mimbres	4.29	Bell Ranch	T
New York	72.7	+3.0	Jamestown	99	6	Indian Lake	32	2	6.37	+2.42	Mount McGregor	19.37	Lewiston	.89
North Carolina	76.8	−.1	2 stations	102	1	Banners Elk	48	30	7.42	+1.60	Wilmington	15.97	Murphy	1.87
North Dakota	73.8	+5.4	Fort Yates	110	26	3 stations	45	[1] 28	4.62	+2.20	Dogden Butte	8.89	Hettinger	1.49
Ohio	76.7	+3.1	Montpelier	106	19	Millport	49	[1] 17	4.93	+1.13	Bangorville	11.59	Catawba Island	1.10
Oklahoma	83.7	+2.1	Okeene	112	11	Boise City	57	15	.94	−2.05	Wichita National Forest.	4.64	Pryor	.00
Oregon	65.5	−.9	Arlington	113	14	Crater Lake	18	8	.56	+.15	Kinzua	2.34	Danner	.00
Pennsylvania	75.0	+3.0	Wellsboro	104	5	Somerset	42	30	5.63	+1.34	Pottsville	15.50	McKeesport	1.47
South Carolina	79.4	−.4	Darlington	105	1	Long Creek	59	1	7.34	+1.54	Charleston	17.78	Kershaw	1.41
South Dakota	79.5	+6.7	Pukwana	113	27	Camp Crook	41	16	2.02	−.58	Harveys Ranch	7.42	Hopewell	.06
Tennessee	79.4	+1.8	2 stations	103	31	2 stations	52	15	3.73	−.68	Franklin	7.87	Loretto	.76
Texas	83.1	.0	Clarendon	111	11	do	52	[1] 16	2.31	−.29	LaPryor	9.66	Trinidad	.00
Utah	72.7	+1.0	St. George	112	13	3 stations	32	[1] 3	.43	−.45	Black's Fork (near)	3.03	11 stations	.00
Virginia	76.2	+.8	Lincoln	101	11	Burkes Garden	48	31	5.04	+.55	Holland	13.75	Manassas	.91
Washington	65.6	−.9	Wahluke (near)	115	14	Paradise Inn	29	8	.84	+.19	Mountain Lakes	2.89	Guler	.01
West Virginia	75.6	+2.5	Martinsburg	101	12	Reedsville	46	30	4.61	+.04	Dam No. 25 O. R	10.24	Morgantown	1.15
Wisconsin	74.5	+4.5	La Crosse	100	18	Long Lake	41	15	4.24	+.64	Stanley	11.02	Fond Du Lac	.77
Wyoming	68.7	+3.2	4 stations	106	[1] 16	Lake Yellowstone	22	11	.73	−.57	Sundance	3.26	2 stations	.00
Alaska (June)	52.2	+.1	Holy Cross	93	23	Barrow	16	13	3.52	−.20	Ketchikan	8.92	do	T
Hawaii	75.0	+.8	Mahukona	93	13	Kanalohuluhulu	47	16	5.04	−.61	Puhonua	28.70	4 stations	.00
Puerto Rico	78.4	.0	San German	97	5	Guineo Reservoir	54	4	5.01	−1.74	Coloso	13.00	Mona Island	.00

[1] Other dates also.

TABLE I.—*Climatological data for Weather Bureau stations, July 1935*

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

District and station	Elevation of instruments			Pressure			Temperature of the air												Precipitation			Wind											
	Barometer above sea level	Thermometer above ground	Anemometer above ground	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	Maximum	Date	Mean maximum	Minimum	Date	Mean minimum	Greatest daily range	Mean wet thermometer	Mean temperature of the dew point	Mean relative humidity	Total	Departure from normal	Days with 0.01, or more	Total movement	Prevailing direction	Maximum velocity: Miles per hour	Maximum velocity: Direction	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							70.8	+1.9										81	3.52	0.0										6.0		
Eastport	76	67	85	29.90	29.98	+0.05	61.7	+1.3	85	13	71	49	7	52	33	59	58	90	2.38	−0.7	12	6,205	sw.	24	e.	6	5	11	15	6.9	0.0	0.0
Greenville, Maine	1,070	6	40	28.84	29.98		67.7		86	12	79	42	2	56	35				2.87		12	3,135	se	16		12	10	12	9		.0	.0
Portland, Maine	103	82	117	29.86	29.98	+.03	70.8	+2.7	95	5	78	53	7	63	25	65	62	78	2.72	−.5	10	6,146	s.	21	sw.	28	17	5	9	4.4	.0	.0
Concord	289	60					71.6	+3.1	93	5	83	47	2	60	34				3.04	−.5	8		ne.				14	8	9		.0	.0
Burlington	403	11	48	29.54	29.96	+.02	71.2	+.9	90	5	81	47	2	62	30				4.01	+.5	18	6,305	s.	27	se.	15	6	16	9	5.5	.0	.0
Northfield	876	12	60	29.05	29.98	+.04	68.8	+2.9	90	5	81	39	2	56	39	64	62	79	3.49	−.1	16	4,850	s.	21	s.	15	4	18	9	6.4	.0	.0
Boston	124	336	360	29.85	29.98	+.02	72.6	+.9	92	12	80	58	4	65	23	66	62	74	1.10	−2.4	10	9,399	w.	45	nw.	19	9	9	13	6.0	.0	.0
Nantucket	12	14	90	29.99	30.00	+.02	68.4	+.6	80	13	75	55	28	62	18	65	64	89	5.73	+2.9	7	10,098	sw.	40	s.	15	7	11	13	6.4	.0	.0
Block Island	26	11	46	29.97	30.00	+.03	70.0	+1.6	83	11	76	57	2	65	16	67	66	91	3.51	+.4	10	9,297	sw.	29	e.	9	6	13	12	6.3	.0	.0
Providence	160	215	251	29.83	30.00	+.03	74.2	+.8	94	19	83	56	2	66	25	67	64	74	2.72	−.6	11	6,709	sw.	37	nw.	19	12	10	9	5.3	.0	.0
Hartford	159	70	104	29.82	29.98	+.01	74.8	+3.2	94	12	84	56	3	66	25				5.99	+1.6	11	5,331	s.				6	12	13	6.2	.0	.0
New Haven	106	74	153	29.89	30.00	+.03	75.2	+3.4	95	12	83	57	3	67	26	69	66	76	4.03	−.3	10	6,208	s.	32	n.	19	6	12	13	6.3	.0	.0

TABLE 1.—*Climatological data for Weather Bureau stations, July 1935*—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 Atlantic States							76.6	+1.6										75	4.86	+0.5										6.0		
Albany	972	97	112	29.87	29.97	+0.01	75.6	+3.0	96	12	85	54	2	66	29	68	64	72	4.96	+1.5	12	5,135	s.	22	se.	7	8	12	11	5.7	0.0	0.0
Binghamton	871	60	68	29.09	30.00	+.03	73.6	+3.6	93	19	84	50	2	63	32	----	----	----	3.89	+.2	15	3,669	e.	32	ne.	19	6	10	15	6.9	.0	.0
New York	314	415	454	29.66	29.99	+.01	76.2	+2.4	91	12	83	63	3	69	23	69	66	76	3.55	-.7	13	8,981	sw.	46	n.	19	4	17	10	6.1	.0	.0
Harrisburg	374	94	104	29.59	29.98	.00	77.4	+2.6	95	20	86	61	17	68	27	69	65	70	3.46	-.4	12	4,628	s.	21	sw.	21	8	16	7	5.4	.0	.0
Philadelphia	114	168	367	29.89	30.01	+.03	78.2	+2.0	95	20	86	63	4	70	24	70	67	73	5.07	+.9	12	8,273	sw.	40	n.	20	7	10	14	6.1	.0	.0
Reading	323	283	306	29.65	29.99	----	76.7	+1.2	95	12	85	60	3	68	26	69	65	71	6.70	+2.4	16	6,549	s.	53	ne.	20	6	16	9	5.9	.0	.0
Scranton	805	72	104	29.15	30.00	+.02	74.8	+3.1	94	6	85	56	30	65	28	67	63	69	7.91	+3.9	9	4,145	sw.	31	se.	6	8	19	4	5.5	.0	.0
Atlantic City	52	37	172	29.95	30.00	+.02	75.2	+3.1	90	24	81	62	28	70	21	70	68	81	.70	-3.2	6	10,139	s.	36	ne.	19	2	17	12	6.7	.0	.0
Sandy Hook	22	10	57	29.97	29.99	----	75.6	----	93	12	82	63	3	70	22	70	68	80	3.33	-1.8	12	8,031	sw.	37	s.	22	10	12	9	4.7	.0	.0
Trenton	190	88	106	29.79	29.99	----	77.0	+2.5	95	12	86	56	3	68	25	70	67	75	4.07	+.1	12	6,140	s.	30	ne.	20	4	13	14	6.5	.0	.0
Baltimore	123	100	215	29.87	29.99	-.02	77.2	.0	95	12	88	65	28	71	22	71	67	69	4.55	-.1	10	7,117	sw.	38	sw.	21	7	18	6	5.3	.0	.0
Washington	112	62	85	29.88	29.99	-.01	79.4	+2.6	98	20	88	61	28	70	24	71	68	71	2.25	-2.5	12	4,479	s.	21	nw.	23	6	18	7	5.4	.0	.0
Cape Henry	18	8	54	29.99	30.01	----	77.5	.0	95	24	84	64	28	71	23	72	70	82	4.97	-.4	13	7,182	sw.	28	sw.	13	7	15	9	6.1	.0	.0
Lynchburg	686	5	----	29.30	30.03	+.02	78.3	+.8	94	20	89	61	4	67	28	----	----	----	6.76	+2.6	19	----	sw.	----	----	----	0	28	3	----	.0	.0
Norfolk	91	80	125	29.93	30.02	+.02	78.2	-.5	93	21	85	65	28	71	23	72	69	80	7.80	+2.0	15	6,587	sw.	22	sw.	9	5	7	19	7.3	.0	.0
Richmond	144	11	52	29.87	30.02	+.01	77.6	-.9	92	20	86	60	28	69	23	71	69	80	5.64	+.9	10	5,016	sw.	26	nw.	24	6	11	14	6.2	.0	.0
Wytheville	2,304	49	55	----	30.00	-.01	72.6	.0	87	11	83	55	31	62	28	----	----	82	7.04	+3.0	15	3,690	w.	21	sw.	24	7	14	10	----	.0	.0
South Atlantic States							78.9	-0.2										82	9.41	+3.6										6.9		
Asheville	2,253	89	104	27.75	30.03	+.01	74.4	+2.7	90	1	84	59	16	64	28	67	65	81	6.22	+1.9	17	4,655	s.	22	e.	2	2	19	10	6.6	.0	.0
Charlotte	799	63	86	29.21	30.02	.00	79.4	+1.0	97	1	88	67	28	70	26	71	69	78	8.27	+3.2	16	4,667	sw.	25	sw.	9	2	13	16	7.1	.0	.0
Greensboro	886	6	56	29.10	30.04	----	77.6	----	97	1	87	60	28	68	30	70	69	83	4.30	----	12	5,091	sw.	24	sw.	10	2	18	11	6.7	.0	.0
Hatteras	11	5	50	----	30.03	+.02	77.1	-1.1	85	20	82	66	31	72	17	----	----	90	11.68	+6.2	12	9,256	sw.	36	sw.	15	11	10	10	----	.0	.0
Raleigh	376	103	146	29.62	30.01	-.01	78.2	-.6	94	1	87	63	3	70	24	72	70	80	5.11	-.3	14	5,419	sw.	30	se.	17	4	17	10	6.3	.0	.0
Wilmington	72	73	107	29.96	30.03	+.02	77.8	-1.3	92	1	84	65	28	72	21	73	72	84	15.97	+8.8	15	6,727	sw.	30	s.	15	6	10	15	6.7	.0	.0
Charleston	48	11	92	29.99	30.04	+.01	79.3	-2.1	91	5	85	66	8	74	23	75	73	83	17.78	+10.9	16	6,917	sw.	35	nw.	8	3	8	20	7.8	.0	.0
Columbia, S.C.	347	67	73	29.66	30.03	+.01	80.4	-.5	96	1	89	66	16	72	25	72	70	79	7.89	+2.5	14	4,555	s.	27	n.	16	3	14	14	6.6	.0	.0
Greenville, S. C.	1,039	139	----	----	----	----	78.4	+1.5	94	31	87	66	20	70	24	----	----	----	6.83	+1.5	15	----	w.	----	----	----	9	8	14	----	.0	.0
Augusta	182	62	77	29.82	30.01	-.01	81.0	-.3	95	30	90	69	9	72	25	73	71	79	5.85	+.5	13	4,078	s.	27	se.	9	3	14	14	7.2	.0	.0
Savannah	65	73	152	29.96	30.03	.00	81.1	-.4	97	30	89	70	7	74	22	74	73	83	8.08	+1.4	19	7,036	sw.	27	se.	18	3	14	14	7.0	.0	.0
Jacksonville	43	86	110	29.99	30.04	+.01	80.8	-1.3	94	5	88	69	7	73	23	74	72	83	9.87	+3.2	22	5,462	s.	24	sw.	12	3	14	14	6.9	.0	.0
Florida Peninsula							81.9	0.0										78	8.05	+2.5										6.3		
Key West	22	10	64	29.99	30.01	-.02	82.8	-.7	91	15	88	71	4	78	15	76	74	76	10.08	+6.8	13	6,758	e.	25	se.	25	5	17	9	5.8	.0	.0
Miami	25	124	168	30.01	30.04	.00	81.6	+.6	89	31	86	72	8	77	16	76	73	75	4.05	-1.4	18	7,097	se.	36	sw.	8	3	13	15	7.0	.0	.0
Tampa	35	88	197	30.00	30.03	-.01	81.2	.0	93	5	88	71	15	74	20	74	73	83	10.02	+2.1	19	7,128	e.	32	se.	22	4	19	8	6.1	.0	.0
Titusville	43	5	36	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
East Gulf States							81.4	+0.8										78	5.84	+0.1										6.0		
Atlanta [1]	976	6	53	29.00	30.00	-.02	79.7	+1.6	96	11	90	66	16	70	27	72	70	79	4.00	-.6	14	4,833	e.	33	s.	6	3	14	14	7.0	.0	.0
Macon	370	79	87	29.62	30.01	-.01	80.8	-.4	98	8	90	69	14	72	25	73	71	78	6.77	+2.0	13	4,500	s.	24	n.	29	3	13	15	6.5	.0	.0
Thomasville	273	49	58	29.74	30.03	.00	79.8	-2.0	94	8	89	68	8	71	26	75	74	88	12.13	+5.4	23	----	sw.	----	----	----	0	13	18	----	.0	.0
Apalachicola	35	11	51	29.97	30.01	----	81.2	----	93	30	87	72	1	76	17	76	----	----	9.44	+1.7	18	----	sw.	----	----	----	0	19	12	----	.0	.0
Pensacola	56	149	185	29.94	30.00	-.01	80.6	-.4	95	7	86	69	17	75	22	75	73	80	5.28	-1.5	17	7,732	sw.	38	s.	31	6	18	7	5.5	.0	.0
Anniston	741	9	----	----	----	----	80.1	+2.2	96	31	90	63	16	70	31	----	----	----	5.46	+.3	10	----	----	----	----	----	13	14	4	----	.0	.0
Birmingham	700	11	48	29.25	30.00	-.01	82.0	+1.8	99	31	92	66	15	71	28	72	69	74	1.77	-3.4	8	4,365	se.	18	e.	27	7	17	7	5.3	.0	.0
Mobile	57	125	161	29.92	29.98	-.03	82.0	+.6	97	8	90	69	1	74	23	75	73	80	6.16	-.7	16	5,848	s.	33	e.	17	3	12	16	6.8	.0	.0
Montgomery	218	92	105	29.76	30.00	-.02	82.1	+.4	97	8	91	69	1	73	23	74	71	78	5.63	+.8	16	4,577	e.	25	ne.	13	6	11	14	6.5	.0	.0
Meridian	375	67	92	29.60	29.98	-.04	82.0	+1.6	98	31	92	66	16	72	29	73	70	72	3.06	-1.8	11	3,716	e.	21	ne.	6	9	20	2	4.7	.0	.0
Vicksburg	247	65	73	29.74	30.00	.00	83.0	+1.7	97	17	92	69	2	74	22	74	71	74	1.90	-2.6	7	4,354	se.	28	e.	26	8	15	8	5.3	.0	.0
New Orleans	53	76	84	29.93	29.98	-.02	83.6	+1.2	98	9	90	70	1	77	21	76	73	77	8.43	+2.1	15	4,068	se.	17	e.	1	3	18	10	6.2	.0	.0
West Gulf States							83.7	+1.1										72	2.20	-1.0										4.6		
Shreveport	249	92	227	29.73	29.99	+.01	84.8	+1.6	101	8	94	70	3	75	24	75	71	71	1.02	-2.5	3	5,771	se.	34	ne.	2	13	17	1	4.0	.0	.0
Bentonville	1,303	11	44	28.66	29.99	+.02	81.0	+2.5	97	31	92	63	14	70	27	----	----	----	1.72	-2.0	4	4,034	sw.	17	se.	2	8	20	3	----	.0	.0
Fort Smith	457	79	94	29.51	29.97	.00	85.0	+3.5	101	31	96	68	14	74	24	74	70	67	.85	-2.5	3	3,906	e.	21	e.	12	11	19	1	4.1	.0	.0
Little Rock	357	94	102	29.63	30.00	+.01	82.3	+1.4	98	31	91	68	3	73	26	74	71	72	2.24	-1.2	13	4,575	e.	27	ne.	22	10	16	5	4.7	.0	.0
Austin	605	136	148	29.34	29.97	----	84.4	+.4	103	9	94	69	15	74	26	73	69	69	1.44	-.9	6	4,754	se.	29	se.	18	12	14	5	4.2	.0	.0
Brownsville	57	88	96	29.87	29.93	----	83.8	+.2	94	9	91	72	17	76	22	76	74	79	.85	-1.1	7	6,759	se.	26	e.	25	9	19	3	4.8	.0	.0
Corpus Christi	20	11	78	29.93	29.95	-.01	84.0	+1.3	93	21	90	74	16	78	17	77	74	76	1.37	-.2	8	7,228	se.	27	e.	17	15	13	3	4.0	.0	.0
Dallas	512	220	227	29.42	29.96	----	84.6	----	104	9	94	70	22	75	26	74	71	69	.53	-2.3	6	6,641	se.	52	ne.	12	16	10	5	4.1	.0	.0
Fort Worth	679	92	110	29.28	29.98	+.02	85.1	+1.5	104	9	96	70	16	75	31	----	----	----	.89	-1.7	5	5,686	s.	25	e.	12	25	6	0	----	.0	.0
Galveston	54	106	114	29.92	29.98	.00	83.2	-.2	97	8	88	72	13	78	17	77	74	76	5.36	+1.6	14	6,323	s.	37	nw.	13	16	8	7	4.1	.0	.0
Houston	138	292	314	29.84	29.98	----	83.2	-.5	98	9	91	72	13	75	25	----	----	----	4.84	+.8	14	6,428	s.	34	n.	9	5	21	5	5.5	.0	.0
Palestine	510	64	72	29.47	29.99	+.02	83.4	+1.2	101	9	94	70	4	73	24	74	70	72	.95	-1.7	6	4,215	s.	25	s.	3	8	20	3	4.8	.0	.0
Port Arthur	34	58	66	29.94	29.98	----	83.4	----	101	9	91	73	15	76	23	76	74	76	7.08	+.1	16	4,312	s.	20	nw.	9	4	20	7	5.8	.0	.0
San Antonio	693	242	301	29.24	29.94	-.01	83.7	-.1	101	9	94	70	24	74	24	73	69	68	1.61	-.6	4	7,466	e.	32	s.	24	10	17	4	4.9	.0	.0
Ohio Valley and Tennessee							79.0	+2.6										72	4.09	+0.3										5.1		
Chattanooga	762	71	214	29.22	30.00	-.02	81.7	+3.3	98	31	92	67	16	72	29	72	68	69	1.65	-2.6	11	4,962	se.	29	s.	3	10	17	4	4.8	.0	.0
Knoxville	995	66	84	28.98	30.01	-.01	79.7	+2.6	95	12	90	65	4	70	27	71	67	73	4.91	+.6	12	3,535	w.	28	sw.	4	12	17	2	4.2	.0	.0
Memphis	399	78	86	29.57	29.99	-.01	82.6	+1.9	97	17	91	69	14	74	25	74	70	70	3.46	+.3	8	4,463	n.	24	n.	12	9	20	2	4.6	.0	.0
Nashville	546	168	191	29.45	30.01	.00	80.1	+1.0	95	31	90	65	15	71	29	72	68	72	4.50	+.6	9	5,300	nw.	30	se.	19	8	13	10	5.7	.0	.0
Lexington	989	6	----	28.98	30.01	.00	79.7	+3.8	95	12	90	65	4	70	27	71	67	73	4.91	+.6	12	3,535	w.	28	sw.	4	12	17	2	4.2	.0	.0
Louisville	525	188	234	29.44	30.01	+.01	80.2	+1.6	96	31	89	63	8	72	23	71	68	72	4.21	+.5	11	6,107	n.	37	w.	6	11	12	8	5.0	.0	.0
Evansville	431	76	116	29.54	30.00	.00	81.8	+2.9	102	31	91	65	9	73	27	72	68	69	2.53	-.9	6	4,818	n.	21	ne.	20	8	18	5	5.0	.0	.0
Indianapolis	822	194	230	29.14	30.00	+.01	78.6	+2.9	97	31	88	60	16	69	25	69	66	70	3.16	-.2	12	6,029	sw.	33	nw.	4	9	15	7	5.4	.0	.0
Terre Haute	575	96	129	29.37	29.98	----	81.0	----	100	31	91	60	16	71	28	73	69	72	3.89	+.7	9	5,199	sw.	23	sw.	5	15	9	7	4.2	.0	.0
Cincinnati	627	11	51	29.34	30.00	.00	78.8	+3.7	99	31	89	63	16	68	29	70	68	76	1.48	-1.8	12	4,206	sw.	21	sw.	3	10	10	11	5.4	.0	.0
Columbus	822	90	210	29.14	29.99	-.01	78.2	+3.3	93	20	88	60	30	68	28	69	65	70	4.83	+1.3	12	5,629	s.	30	s.	3	11	11	9	5.1	.0	.0
Dayton	900	58	153	29.06	29.99	----	78.4	+3.0	95	31	88	62	16	69	27	----	----	----	4.24	+1.0	11	4,969	sw.	26	nw.	4	9	12	10	----	.0	.0
Elkins	1,947	59	78	28.05	30.02	+.01	72.6	+2.3	88	12	83	55	30	62	28	66	64	82	8.76	+3.4	14	3,450	se.	19	n.	7	4	12	15	6.9	.0	.0
Parkersburg	637	77	84	29.38	30.04	+.03	77.6	+2.2	94	20	87	60	30	68	27	70	68	75	6.44	+2.2	11	3,769	se.	32	nw.	31	9	13	9	5.5	.0	.0
Pittsburgh	842	164	410	28.67	30.00	.00	76.0	+1.4	94	20	86	59	16	66	28	67	64	72	2.38	-1.7	13	6,117	sw.	31	w.	28	7	13	11	5.9	.0	.0

TABLE 1.—*Climatological data for Weather Bureau stations, July 1935*—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.
Lower Lake Region							75.4	+3.9										71	4.64	+1.4										5.1		
Buffalo	768	243	280	29.16	29.96	−0.01	73.7	+3.9	90	6	80	57	27	68	28	67	63	71	1.34	−1.7	6	8,871	sw.	34	w.	19	15	10	6	4.5	0.0	0.0
Canton	448	10	61	29.47	29.93	------	71.9	+1.4	90	5	82	48	2	62	31	----	----	----	5.20	+1.7	12	5,478	sw.	24	se.	7	8	17	6	5.4	.0	.0
Ithaca	836	77	100	29.09	29.98	------	74.0	+3.5	96	6	85	48	2	63	36	67	64	75	12.59	+9.0	15	4,976	s.	27	nw.	12	5	17	9	6.1	.0	.0
Oswego	335	71	85	29.60	29.96	.00	73.4	+3.0	89	18	81	57	27	66	25	67	64	74	4.04	+1.1	12	5,781	s.	24	w.	6	7	14	10	5.6	.0	.0
Rochester	523	86	102	29.42	29.97	.00	75.6	+4.9	94	6	84	56	27	67	26	68	64	70	3.51	+.6	13	5,440	sw.	20	nw.	31	13	12	6	4.6	.0	.0
Syracuse	596	65	79	29.35	29.99	+.02	75.4	+4.6	94	6	85	55	2	66	29	----	----	----	6.14	+2.5	14	4,728	s.	26	sw.	19	5	17	9	5.9	.0	.0
Erie	714	130	166	29.23	29.98	.00	75.6	+4.6	92	18	83	59	17	68	24	68	64	70	7.54	+4.5	9	7,369	nw.	32	nw.	12	17	12	2	3.8	.0	.0
Cleveland	762	267	318	29.18	29.98	−.01	76.2	+4.8	92	18	83	63	2	69	23	68	64	70	2.61	−.8	11	7,713	n.	41	w.	12	11	13	7	4.6	.0	.0
Sandusky	629	5	67	29.32	30.00	+.01	77.4	+4.0	96	6	86	60	30	68	30	----	----	----	5.43	+2.0	12	5,315	sw.	18	sw.	23	8	12	11	5.4	.0	.0
Toledo	628	79	87	29.33	30.00	+.01	77.6	+4.4	97	19	86	62	16	69	26	68	64	68	1.17	−1.8	8	5,834	w.	21	nw.	19	15	9	7	4.3	.0	.0
Fort Wayne	857	69	84	29.08	29.99	------	77.2	+3.7	97	19	87	59	16	68	28	69	65	69	2.52	−1.1	8	5,318	nw.	34	s.	3	7	17	7	5.2	.0	.0
Detroit [1]	626	5	78	29.31	29.98	.00	76.2	+4.1	94	19	86	59	16	67	31	68	64	69	3.57	+.2	4	5,623	sw.	32	nw.	19	10	10	11	5.8	.0	.0
Upper Lake Region							72.7	+4.7										74	3.13	0.0										5.3		
Alpena	609	13	89	29.32	29.98	+.01	71.7	+5.8	93	11	81	51	16	63	26	65	62	72	1.54	−1.2	10	6,330	nw.	25	n.	20	12	15	4	4.6	.0	.0
Escanaba	612	54	60	29.31	29.96	−.01	70.4	+4.4	88	30	78	52	15	63	25	65	62	76	4.43	+1.1	12	6,662	s.	29	ne.	13	10	13	8	5.1	.0	.0
Grand Rapids	707	70	244	29.22	29.97	−.01	76.5	+4.2	96	19	86	57	16	67	28	68	64	69	5.17	+2.2	8	6,380	sw.	32	sw.	30	12	12	7	4.9	.0	.0
Lansing	878	6	88	29.06	29.97	------	73.8	+2.9	92	19	83	58	14	65	28	69	67	81	2.60	−.5	7	4,841	sw.	28	se.	19	11	9	11	5.6	.0	.0
Ludington	637	5	54	------	------	------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Marquette	734	77	111	29.16	29.95	−.01	69.8	+4.9	93	20	79	51	15	61	31	64	61	74	3.47	+.4	12	6,008	s.	39	sw.	30	8	14	9	5.7	.0	.0
Sault Sainte Marie	614	11	52	29.28	29.96	−.01	69.0	+5.2	93	5	80	51	16	58	40	62	58	72	.82	−2.1	8	4,857	w.	21	nw.	13	12	8	11	5.2	.0	.0
Chicago	673	7	131	29.28	30.00	+.02	76.8	+4.3	95	19	84	60	16	70	26	69	66	74	3.05	−.3	10	5,932	sw.	26	w.	5	11	7	13	5.3	.0	.0
Green Bay	617	109	141	29.31	29.95	−.02	75.4	+5.4	94	19	85	57	15	66	26	68	65	71	1.70	−1.8	9	6,533	s.	37	w.	11	9	8	14	5.7	.0	.0
Milwaukee	681	97	221	29.26	29.98	+.01	75.6	+5.5	97	19	83	61	3	68	27	68	64	69	3.59	+.8	8	7,357	sw.	40	n.	5	9	13	9	5.5	.0	.0
Duluth	1,133	5	47	28.74	29.93	−.02	68.1	+4.2	88	20	78	46	2	58	33	63	61	81	4.96	+1.2	16	6,771	ne.	37	nw.	27	9	14	8	5.3	.0	.0
North Dakota							74.6	+6.0										68	4.42	+1.9										3.8		
Moorhead, Minn	940	50	58	28.91	29.88	−.06	75.6	+7.5	96	29	87	55	7	64	37	68	64	68	2.13	−1.3	7	5,985	s.	28	nw.	3	9	13	9	4.8	.0	.0
Bismarck	1,674	8	57	28.14	29.87	−.06	75.8	+6.0	100	2	88	52	30	64	39	67	62	67	5.46	+3.2	7	6,458	e.	40	nw.	10	16	14	1	3.2	.0	.0
Devils Lake	1,478	11	44	28.37	29.91	−.02	73.4	+6.0	94	16	84	56	7	62	33	66	63	74	5.23	+2.7	12	5,599	se.	25	e.	8	13	13	5	4.3	.0	.0
Grand Forks	833	12	67	------	------	------	74.4	------	94	16	86	53	7	63	35	68	----	----	6.14	------	10	------	se.	35	sw.	20	8	21	2	----	.0	.0
Williston	1,878	41	48	27.95	29.88	−.04	73.6	+4.7	103	28	86	50	1	61	40	64	59	65	4.88	+3.0	13	5,637	se.	40	nw.	18	16	15	0	3.1	.0	.0
Upper Mississippi Valley							79.8	+4.7										71	3.04	−0.4										4.4		
Minneapolis	918	102	208	28.97	29.93	−.02	79.8	+7.5	98	27	90	60	7	70	27	70	65	64	2.59	−1.1	8	7,051	s.	35	nw.	5	10	12	9	4.5	.0	.0
La Crosse	714	11	48	29.19	29.93	−.03	77.9	+5.1	100	18	88	59	8	68	28	70	68	76	3.24	−.7	10	3,441	s.	18	nw.	10	8	16	7	5.3	.0	.0
Madison	974	70	78	28.95	29.97	.00	76.3	+4.2	94	18	85	60	16	68	26	70	67	75	2.49	−1.4	11	5,064	sw.	19	nw.	11	9	14	8	5.2	.0	.0
Charles City	1,015	10	51	28.91	29.96	.00	77.8	+5.5	96	18	88	58	13	68	27	70	67	72	1.10	−2.7	7	4,702	se.	18	se.	20	16	12	3	3.4	.0	.0
Davenport	606	66	161	29.34	29.99	+.02	81.0	+5.7	99	30	90	64	8	72	23	71	68	68	2.25	−1.1	11	5,758	sw.	27	ne.	14	11	9	11	5.0	.0	.0
Des Moines	861	5	99	29.08	29.96	.00	80.9	+5.5	99	28	91	65	14	71	26	72	69	70	3.06	−.4	9	6,052	se.	27	nw.	21	12	18	1	4.0	.0	.0
Dubuque	700	60	79	29.24	29.97	.00	79.2	+5.1	98	18	89	61	16	70	26	70	67	70	3.82	−.1	7	3,841	s.	18	n.	21	11	13	7	5.0	.0	.0
Keokuk	614	64	78	29.34	30.00	+.02	81.0	+4.1	97	28	90	65	16	72	25	72	69	69	4.85	+1.4	9	4,640	sw.	26	nw.	23	13	9	9	4.4	.0	.0
Cairo	358	87	93	29.61	29.99	−.01	81.2	+1.6	100	31	90	67	14	73	23	74	71	77	1.86	−1.2	7	4,606	n.	30	nw.	6	4	17	10	6.0	.0	.0
Peoria	609	11	45	29.35	30.01	+.03	79.2	+3.8	97	30	90	60	17	69	31	72	69	76	2.64	−.9	11	3,738	sw.	20	nw.	25	22	8	1	2.5	.0	.0
Springfield, Ill	636	5	191	29.32	29.99	+.01	81.4	+4.9	100	30	91	64	16	71	26	71	67	68	5.43	+2.6	7	6,464	s.	26	s.	3	16	10	5	3.9	.0	.0
St. Louis	568	265	303	29.40	29.99	.00	82.2	+3.6	100	30	91	68	8	74	22	73	69	70	3.13	+.2	6	6,469	sw.	33	nw.	6	15	11	5	3.8	.0	.0
Missouri Valley							83.1	+7.1										62	1.48	−2.2										2.7		
Columbia, Mo	784	6	84	29.17	29.98	.00	80.6	+3.7	97	30	91	63	14	71	26	----	----	----	3.89	+.4	7	4,603	se.	32	nw.	12	18	9	4	3.5	.0	.0
Kansas City [1]	750	32	45	29.17	29.95	−.02	86.8	+8.7	104	27	98	67	14	76	27	74	69	61	.51	−3.6	4	6,358	sw.	37	nw.	12	20	9	2	2.9	.0	.0
St. Joseph	967	11	49	28.95	29.94	------	85.1	------	102	28	96	64	13	74	28	73	69	63	.11	−3.6	1	5,404	se.	27	nw.	12	27	4	0	1.5	.0	.0
Springfield, Mo	1,324	98	104	28.63	30.00	+.02	80.6	+3.8	96	30	90	65	13	72	22	72	68	71	1.62	−2.6	5	5,520	se.	26	se.	18	25	6	0	2.1	.0	.0
Iola	984	11	50	28.96	29.97	.00	83.9	+5.7	100	31	96	64	13	72	32	----	----	----	.63	−3.1	2	------	s.	----	----	----	20	9	2	----	.0	.0
Topeka	987	65	87	------	------	------	87.0	+9.2	106	31	100	66	13	74	30	----	----	----	.03	−4.2	3	6,205	s.	21	ne.	12	24	7	0	1.8	.0	.0
Lincoln	1,189	11	81	28.69	29.91	−.04	85.0	+8.5	105	31	97	61	14	73	34	72	67	61	3.83	.0	5	7,016	s.	37	ne.	23	19	12	0	3.1	.0	.0
Omaha [1]	1,105	170	200	28.91	29.92	−.03	83.7	+7.0	103	28	95	64	13	72	31	73	69	68	1.11	−2.4	5	7,116	se.	34	nw.	8	18	12	1	2.7	.0	.0
Valentine	2,598	47	54	27.28	29.92	−.01	80.4	+6.7	106	27	93	58	5	67	33	66	59	53	1.30	−1.7	9	6,654	s.	34	sw.	3	17	13	1	3.1	.0	.0
Sioux City	1,138	64	106	28.73	29.90	−.05	82.8	+8.5	104	27	94	62	13	72	33	71	66	62	2.02	−1.5	8	6,574	se.	26	ne.	23	16	9	6	3.9	.0	.0
Huron	1,306	60	74	28.54	29.89	−.05	80.6	+8.8	105	26	94	57	13	68	39	68	62	58	1.19	−2.0	10	6,892	se.	29	ne.	26	19	11	1	2.4	.0	.0
Northern Slope							72.2	+4.3										48	1.05	−0.6										3.4		
Billings	3,570	17	31	------	------	------	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----
Havre	2,505	11	67	27.32	29.90	−.01	73.2	+4.9	101	15	89	46	2	58	43	57	46	49	1.64	−.2	13	5,942	sw.	35	sw.	6	17	13	1	2.7	.0	.0
Helena	4,124	85	111	25.82	29.92	−.01	68.8	+3.1	99	27	82	37	1	55	41	53	42	44	1.03	−.1	11	6,272	sw.	29	w.	2	13	11	7	4.3	.0	.0
Kalispell	2,973	48	56	26.94	29.94	+.01	65.2	+1.1	96	27	80	40	2	51	41	53	43	53	1.11	.0	9	4,905	w.	25	se.	25	16	13	2	8.5	.0	.0
Miles City	2,371	48	55	27.41	29.89	−.03	78.5	+5.6	108	28	92	55	1	64	36	63	53	49	1.83	+.3	6	4,908	ne.	39	nw.	8	23	8	0	2.4	.0	.0
Rapid City	3,259	50	58	26.61	29.92	−.01	77.2	+6.2	104	26	90	56	5	64	38	62	53	46	.90	−1.5	7	5,670	w.	28	sw.	28	19	10	2	3.4	.0	.0
Cheyenne	6,094	50	71	24.13	29.95	+.03	69.8	+3.1	93	26	84	47	5	56	38	55	48	55	1.94	−.2	12	5,814	w.	28	w.	1	16	14	7	4.9	.0	.0
Lander	5,372	60	68	24.70	29.90	−.02	71.8	+4.4	102	27	89	44	1	55	48	53	39	38	.29	−.4	6	4,420	sw.	26	sw.	4	15	13	3	4.1	.0	.0
Sheridan	3,790	10	47	26.09	29.90	------	73.8	------	105	28	92	45	1	56	47	58	47	49	.09	−1.1	3	4,001	se.	27	nw.	10	23	6	2	2.6	.0	.0
Yellowstone Park	6,241	11	48	23.98	29.95	+.03	64.2	+2.7	90	27	81	36	1	48	44	49	38	46	.52	−.8	5	5,919	sw.	30	sw.	16	17	12	2	3.3	.0	.0
North Platte	2,821	11	51	27.05	29.89	−.04	80.9	+8.0	102	29	94	56	15	68	37	67	61	56	1.17	−1.6	7	5,221	s.	24	ne.	22	21	9	1	2.8	.0	.0
Middle Slope							81.8	+4.6										52	0.91	−1.9										2.9		
Denver	5,292	106	113	24.82	29.94	+.03	74.8	+2.6	97	26	87	57	15	62	33	57	48	46	1.32	−0.4	11	5,706	s.	27	nw.	3	10	18	3	4.3	.0	.0
Pueblo	4,685	80	86	25.34	29.89	−.02	78.2	+4.0	98	27	92	59	16	64	36	58	46	40	.30	−1.6	3	5,183	nw.	28	w.	22	20	11	0	3.3	.0	.0
Concordia	1,392	50	58	28.51	29.94	−.01	84.8	+6.8	107	11	97	64	13	73	31	71	65	56	1.23	−2.6	7	6,312	s.	26	sw.	4	27	4	0	1.9	.0	.0
Dodge City	2,509	10	86	27.41	29.93	.00	83.6	+5.2	106	11	96	62	13	71	36	66	57	48	1.09	−2.0	5	9,354	s.	38	e.	8	24	7	0	1.7	.0	.0
Wichita	1,358	85	93	28.55	29.93	−.03	84.6	+5.2	102	11	95	64	13	74	28	71	64	56	.39	−3.0	3	7,841	sw.	31	sw.	23	23	7	1	2.2	.0	.0
Oklahoma City	1,214	10	47	28.72	29.97	+.01	84.6	+4.0	103	12	95	68	13	74	32	72	67	63	1.11	−1.8	3	5,998	s.	16	s.	1	16	11	4	4.0	.0	.0

[1] Observations taken at airport.

TABLE 1.—*Climatological data for Weather Bureau stations, July 1935*—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.
Southern Slope							81.1	−0.1										58	1.43	−1.0										3.5		
Abilene	1,738	10	52	28.19	29.95	+0.02	83.4	+0.6	103	10	95	64	14	72	29	70	64	61	1.73	−0.4	8	6,056	s.	27	w.	20	18	9	4	3.7	0.0	0.0
Amarillo	3,676	10	49	26.33	29.96	+.04	80.1	+3.3	101	11	92	62	16	68	29	64	57	53	.81	−2.0	4	6,844	s.	23	se.	22	18	11	2	3.1	.0	.0
Del Rio	944	64	71	28.93	29.89	−.01	82.6	−3.7	98	9	92	69	13	74	26	72	68	67	2.77	+.4	7	6,656	se.	24	n.	13	12	8	11	5.1	.0	.0
Roswell	3,566	75	85	26.40	29.92	+.04	78.2	−.7	99	31	91	58	16	65	33	63	54	49	.41	−1.8	3	5,918	s.	28	n.	21	23	7	1	2.2	.0	.0
Southern Plateau							79.9	+0.9										42	0.54	−0.6										3.5		
El Paso	3,778	152	175	26.18	29.84	.00	84.0	+2.9	100	22	95	66	16	73	28	64	53	40	.16	−1.8	5	6,401	e.	30	nw.	31	26	4	1	2.3	.0	.0
Albuquerque	4,972	5	39	25.10	29.83	------	77.2	------	98	11	92	56	1	62	37	58	48	44	.19	−1.2	7	6,029	se.	34	w.	2	16	10	5	4.2	.0	.0
Santa Fe	7,013	38	53	23.39	29.89	+.01	70.6	+1.6	89	10	83	52	3	58	31	55	46	48	1.89	−.5	11	4,532	e.	22	n.	17	5	22	4	5.2	.0	.0
Flagstaff	6,907	10	59	23.46	29.87	+.04	65.8	+.8	92	26	81	35	4	50	45	51	----	51	.99	------	6	------	nw.	30	s.	3	8	11	12	----	0	.0
Phoenix	1,108	10	107	28.66	29.77	−.01	92.0	+2.2	112	26	106	68	4	78	37	67	51	30	.93	−.1	3	4,736	w.	30	n.	16	13	14	4	3.9	.0	.0
Yuma	141	9	54	29.62	29.76	.00	91.3	+.5	111	17	105	65	4	77	37	70	58	39	T	−.2	0	4,701	s.	21	s.	18	23	8	0	2.0	.0	.0
Independence	3,957	5	26	25.93	29.88	+0.5	75.7	−2.4	101	13	93	50	8	58	41	54	----	----	.05	−.1	2	------	s.	----	------	---	24	5	2	----	.0	.0
Middle Plateau							73.9	+1.5										33	0.34	−0.2										2.7		
Reno	4,527	61	76	25.47	29.88	+.01	69.4	+1.9	99	14	86	42	7	53	41	51	37	38	.02	−.2	1	5,376	w.	27	s.	13	23	7	1	1.6	.0	.0
Tonopah	6,090	12	20	------	------	------	71.9	------	94	13	84	44	2	60	30	50	32	28	.89	------	5	------	se.	----	------	---	---	---	---	----	---	---
Winnemucca	4,344	18	56	25.60	29.89	−.01	72.0	+1.4	105	14	90	42	9	54	48	50	33	30	.01	−.2	1	5,704	sw.	21	nw.	4	21	8	2	2.3	.0	.0
Modena	5,473	10	46	24.65	29.87	+.01	69.8	−.8	94	13	88	41	3	52	45	51	37	39	1.51	+.4	6	8,367	sw.	36	nw.	15	19	8	4	2.8	.0	.0
Salt Lake City [1]	4,357	86	210	25.69	29.83	−.07	78.4	+2.7	101	13	94	48	1	63	46	56	39	30	.04	−.5	2	7,977	se.	40	w.	28	21	9	1	2.4	.0	.0
Grand Junction	4,602	60	68	25.39	29.88	−.01	80.1	+2.4	99	26	93	59	4	67	37	59	45	35	.10	−.5	3	5,538	se.	24	s.	18	10	19	2	4.2	.0	.0
Northern Plateau							72.3	+1.7										38	0.2	3−0.3										2.6		
Baker	3,471	48	53	26.45	29.97	+.02	66.8	+1.2	101	14	83	37	1	51	46	52	39	45	.26	−.3	3	4,463	n.	32	w.	15	21	7	3	2.7	.0	.0
Boise	2,739	79	87	27.10	29.89	−.04	74.2	+1.3	105	14	89	40	1	59	39	56	41	37	.03	−.2	1	4,194	nw.	21	se.	5	26	4	1	1.9	.0	.0
Pocatello	4,477	60	68	25.46	29.86	−.06	73.8	+3.0	101	15	90	44	1	58	42	52	33	28	.08	−.7	4	6,383	se.	28	sw.	4	26	4	1	1.5	.0	.0
Spokane	1,929	101	110	27.93	29.94	−.02	70.2	+1.2	99	14	84	44	9	56	39	55	43	45	.68	.0	7	4,774	s.	22	sw.	28	13	11	7	4.1	.0	.0
Walla Walla	991	57	65	28.87	29.92	−.05	75.0	+1.0	109	14	88	51	2	62	38	56	41	35	.20	−.2	3	4,755	w.	24	w.	31	22	7	2	2.6	.0	.0
Yakima	1,076	58	67	28.81	29.94	------	73.7	+2.3	106	14	87	48	2	60	38	57	44	40	.12	−.2	5	5,771	nw.	22	nw.	24	17	12	2	3.0	.0	.0
North Pacific Coast Region							62.7	+0.8										68	0.52	−0.2										4.8		
North Head	211	11	56	29.86	30.08	.00	57.4	+.2	72	13	61	50	6	54	19	54	53	86	.46	−.5	8	8,812	n.	33	n.	2	6	8	17	6.3	.0	.0
Seattle	125	90	321	29.90	30.03	−.01	64.9	+1.8	94	14	74	51	3	55	32	57	51	65	.79	+.2	9	5,941	n.	22	s.	8	12	8	11	4.9	.0	.0
Tatoosh Island	86	10	54	29.98	30.07	+.02	55.0	−.1	67	13	58	48	19	52	14	53	51	89	1.13	−.4	9	7,152	s.	29	s.	15	6	7	18	7.0	.0	.0
Medford	1,329	29	58	28.58	29.96	------	69.9	------	102	14	86	43	6	54	44	56	46	50	.32	.0	2	5,154	nw.	25	nw.	27	21	5	5	2.9	.0	.0
Portland, Oreg.	153	68	106	29.87	30.03	−.02	67.8	+1.1	105	13	79	49	6	57	35	58	52	62	.28	−.3	4	4,951	nw.	16	nw.	12	12	10	9	5.0	.0	.0
Roseburg	510	45	76	29.48	30.02	−.01	68.3	+.9	104	13	82	42	8	54	43	57	49	58	.11	−.2	2	4,222	n.	19	ne.	16	16	13	2	3.0	.0	.0
Middle Pacific Coast Region							63.3	+0.9										61	0.03	0.0										2.8		
Eureka	62	73	89	29.98	30.05	.00	55.3	−.2	65	27	60	46	7	51	16	53	51	89	.09	.0	5	5,103	n.	30	n.	1	13	7	11	5.1	.0	.0
Redding	722	20	34	------	------	------	79.8	------	109	17	92	55	7	67	36	58	41	30	T	------	0	6,238	nw.	25	nw.	14	24	5	2	1.7	.0	.0
Sacramento	66	92	115	29.80	29.87	−.01	74.4	+1.2	108	16	90	52	7	58	42	59	47	47	T	.0	0	6,111	s.	21	s.	19	29	2	0	.9	.0	.0
San Francisco	155	208	243	29.77	29.94	−.01	60.2	+1.7	82	16	68	51	7	52	29	54	50	78	T	.0	0	6,190	sw.	26	sw.	5	18	8	5	3.4	.0	.0
South Pacific Coast Region							72.9	−0.2										61	T	0.0										2.5		
Fresno	327	97	105	29.51	29.86	+.03	80.2	−1.9	110	18	96	54	7	64	38	60	45	35	T	.0	0	5,318	nw.	17	nw.	5	28	3	0	.9	.0	.0
Los Angeles	338	159	191	29.56	29.91	+.01	70.8	+.6	96	15	80	56	3	61	29	61	56	67	T	.0	0	3,984	s.	15	w.	13	24	5	2	2.3	.0	.0
San Diego	87	62	70	29.82	29.91	−.01	67.8	+.6	80	28	73	58	3	63	17	63	61	82	T	.0	0	4,961	w.	18	s.	1	18	12	1	4.2	.0	.0
West Indies																																
San Juan, P. R.	82	9	54	29.94	30.02	------	80.0	−.1	89	6	84	75	13	76	13	----	----	----	4.66	−1.3	18	10,659	e.	29	e.	13	2	26	3	5.7	.0	.0
Panama Canal																																
Balboa Heights	118	6	97	------	[2] 29.81	−.02	80.1	−.2	92	13	86	72	21	74	17	----	----	[2] 88	13.16	+5.8	19	3,934	nw.	26	sw.	7	0	7	24	8.1	.0	.0
Cristobal	36	6	97	------	[2] 29.83	−.01	80.8	+.4	90	11	86	73	3	76	16	77	76	[2] 86	26.23	+10.6	28	4,900	w.	26	n.	4	1	6	24	8.7	.0	.0
Alaska																																
Fairbanks	454	11	87	[3] 29.39	[3] 29.89	------	61.1	------	84	8	72	41	28	50	37	54	48	68	1.97	------	15	4,648	sw.	24	sw.	21	7	10	14	6.3	.0	.0
Juneau	80	96	116	[3] 29.98	[3] 30.07	------	55.2	------	73	26	60	46	3	51	25	52	49	83	7.18	------	23	3,820	s.	20	se.	13	4	2	25	8.5	.0	.0
Hawaiian Islands																																
Honolulu	38	86	100	[3] 29.96	[3] 30.00	------	78.0	+.3	84	16	83	71	11	74	13	70	67	71	1.18	.0	16	7,290	e.	29	ne.	24	5	14	12	6.3	.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, July 1935*

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												
Halifax, Nova Scotia	88												
Yarmouth, Nova Scotia	65												
Charlottetown, Prince Edward Island	38												
Chatham, New Brunswick	28												
Father Point, Quebec	20	29.80	29.82	−0.03	59.4	+1.8	68.1	50.8	80	40	2.51	−0.53	0.0
Quebec, Quebec	296	29.63	29.95	+.04	68.2	+2.7	76.5	59.9	84	49	10.11	+5.85	.0
Doucet, Quebec	1,236				63.6		76.3	51.0	89	30	4.05		.0
Montreal, Quebec	187												
Ottawa, Ontario	236												
Kingston, Ontario	285												
Toronto, Ontario	379	29.56	29.95	−.02	73.9	+5.9	82.9	64.9	93	57	3.59	+.67	.0
Cochrane, Ontario	930												
White River, Ontario	1,244	28.64	29.92	−.02	65.4	+5.9	78.2	52.5	92	40	6.02	+3.22	
London, Ontario	808												
Southampton, Ontario	656	29.27	29.98	+.01	70.9	+6.2	79.9	61.9	89	54	1.57	−.41	.0
Parry Sound, Ontario	688	29.27	29.95	−.01	71.9	+5.9	81.0	62.9	88	52	2.24	−.38	.0
Port Arthur, Ontario	644	29.26	29.95	+.01	66.6	+4.6	75.2	58.0	90	48	4.82	+1.34	.0
Winnipeg, Manitoba	760	29.08	29.89	−.04	72.3	+6.3	82.4	62.3	90	53	1.92	−1.16	.0
Minnedosa, Manitoba	**1,690**	**28.14**	**29.91**	**−.02**	**69.0**	**+6.8**	**79.0**	**59.1**	**85**	**50**	**5.92**	**+3.32**	**.0**
Le Pas, Manitoba	860		29.86		68.9		79.3	58.6	89	51	1.91		.0
Qu'Appelle, Saskatchewan	2,115												
Moose Jaw, Saskatchewan	1,759												
Swift Current, Saskatchewan	2,392												
Medicine Hat, Alberta	2,365	27.45	29.88	−.02	70.5	+2.7	84.3	56.7	101	44	1.47	−.62	.0
Calgary, Alberta	3,540												
Banff, Alberta	4,521												
Prince Albert, Saskatchewan	1,450												
Battleford, Saskatchewan	1,592												
Edmonton, Alberta	2,150												
Kamloops, British Columbia	1,262												
Victoria, British Columbia	230												
Barkerville, British Columbia	4,180												
Estevan Point, British Columbia	20												
Prince Rupert, British Columbia	170												
Hamilton, Bermuda	151												
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Cape Race, Newfoundland	99				48.2		52.9	43.5	63	38	6.40		0.0
Halifax, Nova Scotia	88	29.74	29.84	−0.11	57.2	−0.5	64.4	50.0	75	41	3.48	−0.28	.0
Yarmouth, Nova Scotia	65	29.85	29.92	−.03	56.9	+1.9	64.8	49.0	73	38	4.02	+1.09	.0
Charlottetown, Prince Edward Island	38	29.87	29.91	−.01	60.6	+3.2	69.5	51.8	79	39	3.00	+.33	.0
Chatham, New Brunswick	28	29.82	29.85	−.04	60.8	+.8	70.7	50.9	82	35	3.16	−.30	.0
Father Point, Quebec	20	29.85	29.87	.00	54.2	+1.2	62.3	46.1	78	40	4.20	+1.22	.0
Ottawa, Ontario	236	29.63	29.89	−.05	62.3	−3.0	72.5	52.2	83	41	6.00	+3.08	.0
London, Ontario	808				61.2		71.2	51.2	82	36	4.60		.0
Southampton, Ontario	656	29.19	29.90	−.07	59.0	−1.4	68.7	49.3	83	40	2.98	+.63	.0
Parry Sound, Ontario	688	29.21	29.89	−.07	60.8	−.9	70.2	51.5	81	43	5.38	+2.96	.0
Port Arthur, Ontario	644	29.16	29.87	−.07	56.1	−.3	64.6	47.6	79	37	2.54	−.19	.0
Winnipeg, Manitoba	760	29.00	29.82	−.07	57.7	−4.5	67.5	48.0	84	29	4.15	+.86	.0
Qu'Appelle, Saskatchewan	2,115	27.58	29.80	−.07	55.3	−4.6	64.5	46.2	83	33	5.54	+2.12	.0
Moose Jaw, Saskatchewan	1,759				58.2		69.0	47.3	86	32	2.04		.0
Swift Current, Saskatchewan	2,392	27.31	29.79	−.08	58.4	−1.6	69.3	47.6	88	48	3.64	+.97	.0
Banff, Alberta	4,521	25.33	29.85	+.01	50.7	−.8	62.4	39.0	74	29	2.97	−.36	.0
Battleford, Saskatchewan	1,592	28.13	29.85	−.01	57.6	−1.9	68.4	46.7	89	32	2.61	−.70	.0
Edmonton, Alberta	2,150	27.59	29.83	−.01	58.3	+1.4	67.4	49.1	83	38	3.80	+.94	.0
Kamloops, British Columbia	1,262	28.61	29.88	+.01	64.3	+.5	77.3	51.4	89	43	1.32	−.10	.0
Estevan Point, British Columbia	20				54.5		59.5	49.5	70	45	6.11		.0
Prince Rupert, British Colombia	170				51.6		57.3	46.0	70	40	2.93		.0