ern half of the upper steamship routes. Over the eastern half the increase was vastly greater, the percentage over some portions of the area between 45° and 55° N., 150° and 60° W., rising to 40 or higher where there was little or no fog reported on the preceding month. Scattered fog occurred along all the American coast north of the twentieth parallel and was as frequent off Cape San Lucas as at any point above it. In Bering Sea fog was reported at St. Paul Island on 13 days.

Storm at Valparaiso, Chile.—According to the New York Maritime Register of June 6, 1928, one of the severest storms of years at Valparaiso occurred there a few days previously. The Grace Line's new motorship *Santa Maria* arrived there on May 31 during a storm of such violence that she was unable to begin discharging cargo. The gale did not abate until June 2. Seven small craft were reported wrecked in the harbor, and a quantity of merchandise lost, during the three days' storm.—*W. E. Hurd.*

Southwest monsoon—Sand haze.—Several vessels in the western part of the Arabian Sea experienced an unusually strong southwest monsoon during June. The heaviest winds, which at times attained the force of a whole gale, were reported on the 13th and 14th between 10° and 15° north latitude, 55° and 60° east longitude.

On several days of the month very thick weather due to sand haze overhung the lower part of the Red Sea and the Gulf of Aden.—*W. E. Hurd.*

CLIMATOLOGICAL TABLES [1]

CONDENSED CLIMATOLOGICAL SUMMARY

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

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

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

Condensed climatological summary of temperature and precipitation by sections, June, 1928

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	76.0	−2.3	Eufaula	99	20	Valley Head	50	7	10.16	+5.90	Citronelle	17.89	Alaga	3.14
Arizona	75.9	−0.2	2 stations	117	[2] 6	Spring Valley ranger station.	21	13	0.03	−0.36	Cedar Glade	1.07	80 stations	0.00
Arkansas	73.5	−3.6	Amity	100	[2] 19	Dutton	40	6	9.44	+5.42	Pocahontas	17.16	Amity	4.01
California	67.8	+0.4	Greenland Ranch	120	7	Helm Creek	20	29	0.09	−0.22	Steele Swamp	1.67	135 stations	0.00
Colorado	57.6	−3.6	2 stations	100	[2] 16	Pearl	17	13	2.15	+0.62	Peetz	8.84	Ignacio	0.00
Florida	79.4	−0.5	Mount Pleasant	101	20	Hilliard	53	8	6.76	+0.17	St. Leo	12.61	Crescent City	2.23
Georgia	76.8	−1.2	Eastman	105	20	Blue Ridge	43	8	5.93	+1.52	Clayton	10.56	Dublin	2.82
Idaho	57.8	−2.4	Orofino	103	25	Smith Ferry	21	5	1.15	−0.20	Big Springs	3.41	Bogus Creek	T.
Illinois	66.9	−5.0	Jacksonville	93	12	Mount Carroll	35	10	7.25	+3.38	Anna	18.21	Pontiac	3.33
Indiana	65.8	−5.8	Collegeville	92	30	2 stations	35	3	7.05	+3.22	Evans Landing	13.18	Huntington	2.79
Iowa	64.5	−4.8	4 stations	88	20	Mason City	31	2	5.38	+0.89	Keosauqua	10.31	Cherokee	2.31
Kansas	67.3	−6.0	Richfield	97	7	Healy	37	5	7.35	+3.47	Oswego	16.49	Elkhart	2.03
Kentucky	69.5	−4.4	Williamsburg	93	[2] 19	2 stations	45	8	10.88	+6.79	Paducah	19.22	Sergent	3.50
Louisiana	78.9	−1.2	2 stations	97	[2] 1	4 stations	53	6	9.85	+5.04	Franklin	19.06	Shreveport	3.30
Maryland-Delaware	69.1	−1.8	Coleman, Md	94	14	Oakland, Md	34	1	5.78	+1.85	Chewsville, Md	11.57	Takoma, Md	2.45
Michigan	59.6	−4.4	Houghton Lake	89	22	Wolverine	20	3	4.53	+1.47	Yale	10.50	Whitefish Point	1.32
Minnesota	60.1	−4.1	Beardsley	93	26	Meadowlands	22	3	3.99	−0.27	Tower	7.35	Montevideo	1.44
Mississippi	77.4	−1.4	Aberdeen	100	20	Lake	52	6	9.34	+5.11	Fruitland Park	20.76	Holly Bluff	2.50
Missouri	67.7	−5.8	Nevada	91	21	Mountain Grove	40	6	11.17	+6.50	Jackson	22.00	Hannibal	5.08
Montana	56.1	−3.4	Heron	94	25	Conway's ranch	21	9	3.27	+0.67	Adel	11.37	Columbia Falls	1.06
Nebraska	63.0	−6.3	2 stations	96	30	Gordon	27	10	4.63	+0.83	Sidney	7.74	Wakefield	1.71
Nevada	64.7	−0.7	Logandale	112	6	2 stations	21	18	0.43	−0.07	Hylton	2.14	8 stations	0.00
New England	61.4	−2.2	North Grosvenor Dale, Conn.	91	15	Pittsburg "A," N. H.	28	15	4.79	+1.46	Chesterfield, Mass	9.22	Berlin, N. H	2.07
New Jersey	66.6	−1.7	2 stations	93	14	Charlotteburg	36	11	6.75	+2.96	Culvers Lake	10.34	Atlantic City	3.03
New Mexico	68.7	−0.1	Carlsbad	110	27	Luna ranger station	25	[2] 12	0.57	−0.82	Quay	5.16	41 stations	0.00
New York	62.4	−2.5	Dansville	92	13	2 stations	28	[2] 16	6.13	+2.45	Jamestown	11.00	Gabriels	1.83
North Carolina	73.0	−0.5	Goldsboro	106	20	Mount Mitchell	33	7	5.49	+0.76	Rock House	10.53	Hatteras	1.46
North Dakota	58.2	−4.6	Melville	92	30	Melville	24	8	5.07	+1.57	Stowers	10.61	Power	1.88
Ohio	65.0	−4.6	2 stations	92	[2] 12	Garfield	32	3	6.79	+3.04	Pleasant Hill	9.93	Danbury	3.81
Oklahoma	74.3	−2.9	3 stations	107	[2] 18	2 stations	40	4	6.26	+2.35	Wyandotte	15.43	Fort Reno	1.30
Oregon	59.9	−0.5	4 stations	105	24	Fremont	19	8	0.91	−0.35	Welches	4.46	Hermiston	T.
Pennsylvania	65.5	−2.7	Phoenixville	93	14	Wellsboro	30	12	7.96	+3.86	West Chester	13.14	Erie	3.96
South Carolina	76.0	−1.5	2 stations	102	21	3 stations	47	8	5.58	+0.75	Camden	13.94	Marion	2.71
South Dakota	61.3	−4.7	Vivian	95	5	Pollock	28	10	4.05	+0.42	Timber Lake	7.58	Pierre	2.18
Tennessee	71.8	−2.7	Etowah	96	[2] 19	Sewanee	39	7	10.18	+5.81	Dresden	18.67	Memphis	3.96
Texas	80.1	0.0	Spur	113	28	Romero	40	4	3.91	+0.64	Winfield (near)	14.52	4 stations	0.00
Utah	62.4	−2.1	2 stations	108	[2] 20	Park City	20	18	0.63	+0.02	Ibapah	2.84	9 stations	0.00
Virginia	70.2	−1.6	2 stations	98	[2] 20	Burkes Garden	36	[2] 1	5.09	+0.95	Lincoln	8.11	Roanoke	2.22
Washington	60.7	0.0	3 stations	105	[2] 24	Bumping Lake	26	7	1.10	−0.41	Tye	4.87	Mottinger	0.03
West Virginia	66.7	−2.6	White Sulphur Springs.	96	20	Bayard	33	1	7.37	+2.76	Pickens	11.69	Upper Tract	1.55
Wisconsin	60.2	−4.3	3 stations	88	[2] 22	Solon Springs	26	3	4.24	+0.25	Brodhead	7.45	Plum Island	2.47
Wyoming	53.9	−5.3	Wheatland	96	30	Hunter's Station	18	1	3.01	+1.42	Dome Lake	6.76	Green River	0.15
Alaska														
Hawaii														
Porto Rico	78.5	0.2	Arecibo	96	18	2 stations	59	14	2.91	−3.60	Maricao	6.00	Santa Rita	0.35

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

[2] Other dates also.

TABLE I.—*Climatological data for Weather Bureau stations, June, 1928*

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.	%	In.	In.		Miles								0-10	In.	In.
New England							61.6	−1.9										81	4.16	+1.2										6.5		
Eastport	76	67	85	29.82	29.89	−0.04	54.6	−0.5	75	13	62	44	3	47	29	51	47	80	3.52	+0.6	14	5,680	s.	25	se.	9	3	13	14	7.3	0.0	0.0
Greenville, Me.	1,070	6	----	28.74	29.89	------	57.6	------	80	13	68	38	5	48	34	----	----	----	3.58	------	15	------	se.	----	----	----	4	14	12	----	0.0	0.0
Portland, Me.	103	82	117	29.80	29.92	−.03	60.0	−2.5	81	13	67	47	11	53	27	55	50	74	3.32	0.0	15	5,409	s.	24	s.	9	12	6	12	5.6	0.0	0.0
Concord	289	70	79	29.58	29.89	−.07	61.0	−1.9	86	14	71	39	17	51	37	----	----	----	4.43	+1.2	12	3,603	se.	25	n.	14	9	9	12	6.2	0.0	0.0
Burlington	403	11	48	29.43	29.86	−.10	62.2	−3.5	82	13	71	43	16	54	29	----	----	----	3.14	−0.2	15	5,586	s.	31	s.	9	2	11	17	7.4	0.0	0.0
Northfield	876	12	60	28.96	29.90	−.06	58.4	−2.9	83	13	69	37	17	48	39	56	54	83	2.79	−0.4	13	4,321	s.	24	w.	2	0	17	13	7.4	0.0	0.0
Boston	125	115	188	29.76	29.90	−.06	65.0	−1.5	90	14	73	51	23	58	28	58	54	73	5.56	+2.7	14	5,860	sw.	21	s.	9	7	10	13	6.3	0.0	0.0
Nantucket	12	14	90	29.90	29.91	−.07	60.6	−0.4	77	15	67	49	23	54	21	57	56	90	4.34	+1.9	14	9,907	sw.	36	sw.	2	6	11	13	6.5	0.0	0.0
Block Island	26	11	46	29.86	29.89	−.08	61.2	−0.6	72	15	66	52	11	56	18	58	56	89	4.42	+1.8	13	9,775	sw.	34	n.	20	5	9	16	6.6	0.0	0.0
Providence	160	215	251	29.73	29.90	−.07	64.2	−4.1	84	27	72	49	11	56	26	58	54	76	3.70	+1.0	18	6,984	nw.	32	nw.	10	7	9	14	6.4	0.0	0.0
Hartford	159	122	----	29.74	29.91	−.06	65.2	−1.9	85	14	73	50	17	57	29	----	----	----	4.41	+1.3	14	------	s.	----	----	----	11	7	12	5.7	0.0	0.0
New Haven	106	74	153	29.79	29.90	−.07	65.6	−1.0	84	27	73	49	11	58	24	60	58	80	6.09	+3.0	13	5,521	s.	25	ne.	20	8	12	10	5.9	0.0	0.0
Middle Atlantic States							68.4	−1.8										76	6.15	+2.5										6.4		
Albany	97	102	115	29.78	29.88	−.09	65.7	−2.3	85	25	74	46	11	57	29	60	57	78	8.22	+4.8	15	4,254	s.	26	s.	9	10	8	12	5.5	0.0	0.0
Binghamton	871	10	84	28.96	29.87	−.10	63.8	−1.8	85	25	73	38	11	54	37	----	----	----	9.51	+5.9	18	3,361	e.	18	sw.	6	6	9	15	6.6	0.0	0.0
New York	314	414	454	29.57	29.90	−.08	66.6	−2.2	85	25	74	53	6	60	27	60	57	75	6.12	+2.8	17	9,108	s.	51	nw.	14	2	15	13	7.2	0.0	0.0
Harrisburg	374	94	104	29.50	29.90	−.08	67.2	−3.1	86	14	75	51	11	59	25	61	57	75	8.16	+4.6	16	4,009	s.	26	w.	29	4	9	17	7.2	0.0	0.0
Philadelphia	114	123	341	29.78	29.91	−.07	69.8	−1.6	88	14	77	57	23	62	23	63	60	76	6.77	+3.5	18	5,900	sw.	30	nw.	14	5	14	11	6.7	0.0	0.0
Reading	325	81	98	29.55	29.89	------	67.8	------	89	14	76	50	16	60	25	62	58	74	6.18	+2.5	16	4,109	se.	20	w.	6	6	8	16	6.6	0.0	0.0
Scranton	805	111	119	29.05	29.90	−.08	65.0	−2.8	87	14	74	42	11	56	35	59	55	73	6.76	+3.2	16	4,029	s.	24	nw.	14	4	10	16	5.9	0.0	0.0
Atlantic City	52	37	172	29.85	29.90	−.08	66.0	−0.6	84	2	72	56	16	61	25	62	59	83	3.03	0.0	14	10,398	s.	43	s.	29	6	16	8	5.5	0.0	0.0
Cape May	17	13	49	------	------	------	68.0	+0.3	84	19	76	53	16	60	22	----	----	----	3.95	------	14	------	s.	----	----	----	6	15	9	----	0.0	0.0
Sandy Hook	22	10	55	29.87	29.89	------	66.6	------	82	25	72	56	23	61	22	61	58	80	6.37	------	16	8,180	s.	46	nw.	14	6	12	12	6.3	0.0	0.0
Trenton	190	159	183	29.69	29.89	------	67.8	------	90	14	76	52	11	59	27	61	57	74	5.90	+2.4	15	6,012	sw.	31	nw.	14	4	9	17	7.1	0.0	0.0
Baltimore	123	100	215	29.76	29.89	−.10	71.0	−1.7	93	14	78	57	16	64	23	64	60	71	4.43	+0.6	17	6,570	sw.	28	sw.	9	4	14	12	6.7	0.0	0.0
Washington	112	62	85	29.77	29.89	−.11	71.0	−1.2	91	14	79	50	1	62	33	64	61	75	2.66	−1.5	18	3,613	s.	22	nw.	19	5	14	11	6.2	0.0	0.0
Cape Henry	18	8	54	29.89	29.91	------	73.0	------	92	14	80	55	18	66	26	67	65	80	7.05	+3.1	16	6,903	sw.	43	nw.	19	4	17	9	6.2	0.0	0.0
Lynchburg	681	153	188	29.18	29.90	−.11	71.8	−2.8	92	20	82	49	1	62	34	64	60	70	2.98	−0.8	16	4,825	w.	36	w.	21	4	17	9	5.8	0.0	0.0
Norfolk	91	170	205	29.84	29.94	−.06	73.8	−0.6	89	13	82	57	8	65	23	67	64	76	7.84	+3.6	17	8,346	sw.	46	nw.	19	2	17	11	6.6	0.0	0.0
Richmond	144	11	52	29.77	29.92	−.09	72.8	−1.3	91	14	82	51	1	64	34	66	63	76	7.19	+3.3	16	5,170	sw.	40	nw.	19	9	11	10	5.4	0.0	0.0
Wytheville	2,304	49	55	27.60	29.91	−.10	65.5	−3.2	84	19	74	42	1	57	28	60	58	82	5.65	+1.4	19	3,744	w.	25	w.	9	1	16	13	7.0	0.0	0.0
South Atlantic States							76.3	−0.2										77	3.63	−1.2										5.9		
Asheville	2,253	70	84	27.63	29.91	−.10	68.0	−0.7	89	21	77	45	8	59	30	62	60	80	4.45	+0.2	16	4,681	se.	24	nw.	9	5	13	12	6.2	0.0	0.0
Charlotte	779	55	62	29.12	29.94	−.07	75.4	−0.1	98	21	86	54	8	65	28	68	65	76	4.49	+0.3	17	2,580	sw.	17	w.	23	6	13	11	6.3	0.0	0.0
Hatteras	11	11	50	29.94	29.95	−.06	76.0	+0.4	89	21	82	60	1	70	18	71	69	81	1.46	−3.1	5	9,047	sw.	40	nw.	22	12	12	6	4.6	0.0	0.0
Raleigh	376	103	110	29.54	29.93	−.08	74.8	−0.9	95	20	84	54	8	66	27	68	65	76	6.06	+1.3	14	5,259	sw.	31	sw.	11	4	15	11	6.6	0.0	0.0
Wilmington	78	81	91	29.90	29.98	−.03	77.3	+0.5	98	21	86	56	8	69	27	71	68	78	3.07	−2.0	10	5,417	sw.	30	nw.	22	9	17	4	5.0	0.0	0.0
Charleston	48	11	92	29.94	29.99	−.02	79.6	+0.7	100	20	86	63	8	73	23	72	70	75	2.75	−1.8	11	6,886	sw.	24	nw.	23	8	11	11	5.5	0.0	0.0
Columbia, S. C.	351	41	57	29.59	29.96	−.05	77.6	−0.5	98	21	87	60	7	68	26	69	65	74	2.79	−1.4	11	4,404	s.	30	sw.	23	8	16	6	5.3	0.0	0.0
Due West	711	10	55	29.22	29.98	------	75.0	------	94	21	84	52	8	66	29	----	----	----	3.89	------	17	5,924	sw.	26	sw.	5	7	11	12	6.3	0.0	0.0
Greenville, S. C.	1,039	139	146	28.86	29.94	------	73.9	−0.2	93	21	83	55	8	65	25	66	63	76	4.36	------	18	5,939	sw.	28	sw.	6	6	10	14	6.7	0.0	0.0
Augusta	182	62	77	29.76	29.95	−.06	78.6	−0.1	98	20	88	58	8	69	29	70	67	73	2.97	−1.7	14	3,864	s.	30	nw.	23	6	10	14	6.1	0.0	0.0
Savannah	65	150	194	29.92	29.99	−.02	78.6	−0.4	96	20	88	63	8	70	26	71	68	78	4.15	−1.1	14	7,147	sw.	36	se.	22	7	10	13	6.0	0.0	0.0
Jacksonville	43	209	245	29.96	30.01	.00	79.0	−0.9	95	20	88	64	17	70	24	71	68	77	4.10	−1.2	12	6,480	sw.	38	sw.	2	7	13	10	5.7	0.0	0.0
Florida Peninsula							80.8	−0.1										76	6.63	+0.1										4.8		
Key West	22	10	64	29.96	29.98	−.01	82.6	+0.7	90	15	88	70	28	77	14	76	73	76	2.61	−1.6	11	5,343	se.	21	ne.	9	18	5	7	4.0	0.0	0.0
Miami	25	71	164	29.99	30.02	------	79.5	−0.9	88	16	85	68	16	74	20	74	72	76	6.14	−1.0	16	4,967	se.	35	w.	16	6	12	12	6.0	0.0	0.0
Tampa	35	79	87	29.98	30.01	.00	80.2	0.0	93	13	90	64	21	71	28	73	70	75	11.13	+2.8	15	3,392	e.	34	se.	21	4	23	3	5.1	0.0	0.0
Titusville	44	5	----	29.97	30.02	------	79.1	------	95	30	90	62	9	69	25	----	----	----	5.82	------	11	------	s.	----	----	----	15	8	7	4.2	0.0	0.0
East Gulf States							77.2	−1.3										78	8.40	+4.0										6.0		
Atlanta	1,173	190	216	28.75	29.96	−.05	74.1	−1.9	90	20	82	59	7	66	22	66	63	72	5.75	+2.0	15	6,276	w.	32	nw.	22	4	4	22	7.6	0.0	0.0
Macon	370	78	87	29.58	29.96	−.05	77.6	−1.3	96	20	87	55	8	68	32	70	68	78	4.41	+0.8	14	3,996	s.	21	w.	23	7	9	14	6.1	0.0	0.0
Thomasville	273	49	58	29.69	29.98	−.02	78.6	−0.9	95	20	88	61	8	69	27	71	69	78	4.94	+0.2	12	2,642	sw.	19	sw.	16	3	12	15	6.7	0.0	0.0
Apalachicola	36	42	49	29.95	29.99	------	78.8	------	90	21	85	36	7	73	18	74	72	79	5.42	------	9	4,153	sw.	25	ne.	24	13	8	9	4.5	0.0	0.0
Pensacola	56	149	185	29.91	29.97	−.02	78.6	−0.7	88	21	83	68	14	74	14	73	71	78	4.60	−0.1	12	8,602	s.	36	s.	3	7	11	12	6.0	0.0	0.0
Anniston	741	9	57	29.20	29.97	−.03	74.4	−0.6	92	20	84	54	8	65	32	----	----	----	8.70	+4.8	16	3,056	sw.	23	sw.	13	8	11	11	5.5	0.0	0.0
Birmingham	700	11	48	29.20	29.95	−.04	75.0	−2.9	91	19	83	59	6	67	22	69	66	79	8.84	+5.0	16	4,737	s.	25	nw.	13	4	16	10	6.3	0.0	0.0
Mobile	57	125	161	29.90	29.96	−.03	78.7	−1.6	92	22	85	64	7	72	21	73	71	81	7.13	+1.7	13	6,648	s.	33	w.	5	4	15	11	5.9	0.0	0.0
Montgomery	223	100	112	29.72	29.96	−.04	77.2	−2.4	92	20	85	63	7	69	23	71	68	77	15.59	+11.8	16	4,194	sw.	31	nw.	30	4	11	15	7.0	0.0	0.0
Corinth	469	6	----	------	------	------	75.8	------	91	19	84	56	7	67	26	----	----	----	7.68	------	15	------	s.	----	----	----	1	26	3	----	0.0	0.0
Meridian	375	87	95	29.54	29.92	−.06	77.6	−0.5	93	30	86	59	7	69	26	71	68	76	10.01	+5.4	11	4,219	sw.	31	sw.	1	5	15	10	6.1	0.0	0.0
Vicksburg	247	65	73	29.65	29.92	−.05	77.4	−1.6	91	30	85	62	6	70	24	71	69	79	9.76	+5.8	11	4,562	s.	22	sw.	1	8	11	11	5.7	0.0	0.0
New Orleans	53	76	84	29.89	29.94	−.04	80.3	−0.3	93	30	88	67	5	73	19	74	72	78	12.68	+6.8	11	3,947	sw.	20	sw.	3	9	14	7	5.1	0.0	0.0
West Gulf States							78.5	−1.3										77	5.31	+1.9										4.8		
Shreveport	249	77	93	29.60	29.86	−.10	78.2	−2.5	96	30	87	61	6	70	26	71	68	76	3.30	−0.2	8	4,624	s.	36	sw.	23	8	13	9	5.3	0.0	0.0
Bentonville	1,303	11	44	28.47	29.81	−.13	68.7	−5.4	87	18	77	48	6	61	27	----	----	----	13.81	------	19	------	s.	----	----	----	12	11	7	----	0.0	0.0
Fort Smith	457	79	94	29.34	29.82	−.12	74.1	−3.4	91	29	82	53	6	66	28	68	65	76	7.22	+3.5	14	5,600	e	32	sw.	20	4	13	13	6.6	0.0	0.0
Little Rock	357	136	153	29.49	29.85	−.11	74.8	−2.6	90	20	83	53	6	66	28	69	66	77	6.72	+2.6	15	6,023	s.	37	nw.	21	6	9	15	6.6	0.0	0.0
Austin	605	136	148	29.18	29.81	------	80.6	−0.6	97	29	90	57	6	71	33	73	70	74	3.02	+0.6	7	7,423	s.	35	s.	10	10	14	6	5.0	0.0	0.0
Brownsville	57	53	61	29.74	29.80	------	82.6	+0.2	94	25	89	69	2	76	19	76	75	83	2.68	−0.2	5	6,876	s.	23	s.	18	19	11	0	2.7	0.0	0.0
Corpus Christi	20	11	78	29.81	29.83	−.09	81.4	+0.4	90	29	87	69	4	76	18	77	75	85	6.99	+4.2	4	11,262	se.	30	se.	18	11	14	5	4.5	0.0	0.0
Dallas	512	220	227	29.28	29.81	------	77.6	------	95	22	87	54	5	68	26	----	----	----	3.74	------	11	9,692	s.	56	sw.	3	9	17	4	4.4	0.0	0.0
Fort Worth	670	106	114	29.09	29.78	−.13	78.7	−1.2	97	28	89	56	5	68	30	70	66	70	11.58	+8.5	11	8,384	s.	35	se.	2	7	18	5	5.3	0.0	0.0
Galveston	54	106	114	29.84	29.90	−.05	80.3	−0.4	88	25	84	66	26	77	20	75	74	82	4.23	−0.1	7	8,770	s.	35	se.	15	11	17	2	4.2	0.0	0.0
Groesbeck	461	11	56	29.35	29.82	------	78.6	------	94	22	88	56	5	70	27	----	----	----	7.71	------	11	8,953	s.	36	nw.	4	11	13	6	4.9	0.0	0.0
Houston	138	292	314	29.73	29.87	------	80.1	−1.3	93	30	88	65	6	72	25	----	----	----	4.71	+0.4	12	8,747	se.	35	n.	26	11	13	6	4.7	0.0	0.0
Palestine	510	64	72	29.32	29.84	−.10	78.2	−0.8	93	1	87	55	5	69	30	71	69	77	7.07	+3.4	12	6,014	s.	25	sw.	2	12	11	7	4.6	0.0	0.0
Port Arthur	34	58	66	29.85	29.89	------	80.0	------	89	21	86	63	14	74	24	75	73	80	5.90	------	11	7,266	s.	42	n.	14	16	10	4	4.1	0.0	0.0
San Antonio	693	119	132	29.09	29.80	−.10	81.8	+0.8	99	28	92	60	6	72	28	72	68	70	3.29	+0.8	4	5,815	se.	27	ne.	10	9	19	2	4.4	0.0	0.0
Taylor	583	55	63	29.25	29.86	−0.6	80.4	+0.4	97	29	90	57	5	71	28	----	----	----	2.88	−0.6	6	7,949	s.	28	s.	12	13	13	4	4.5	0.0	0.0

TABLE I.—*Climatological data for Weather Bureau stations, June, 1928*—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 .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							**68.5**	**−43**										**77**	**8.50**	**+4.5**										**7.2**		
Chattanooga	762	190	215	29.12	29.92	−0.08	72.9	−2.5	90	19	81	54	8	65	29	66	64	77	7.69	+3.5	21	5,286	sw.	36	nw.	20	1	15	14	6.9	0.0	0.0
Knoxville	995	102	111	28.89	29.92	−.08	71.9	−2.1	93	19	81	51	8	63	30	65	62	77	11.83	+7.7	19	4,813	sw.	36	sw.	29	0	10	20	7.9	0.0	0.0
Memphis	399	76	97	29.45	29.86	−.11	74.2	−3.4	89	18	82	56	6	67	19	69	66	78	3.96	+0.4	16	5,412	sw.	38	n.	9	1	12	17	7.2	0.0	0.0
Nashville	546	168	191	29.34	29.91	−.08	71.7	−3.9	90	19	79	54	7	64	24	66	62	75	11.64	+7.6	13	5,991	w.	35	nw.	22	2	11	17	7.0	0.0	0.0
Lexington	989	193	230	28.85	29.90	−.10	67.2	−5.0	85	19	75	50	6	59	25	----	----	----	10.62	+6.6	21	8,515	sw.	36	ne.	19	4	13	13	6.8	0.0	0.0
Louisville	525	188	234	29.31	29.89	−.09	69.1	−5.6	86	19	77	53	3	61	25	64	61	78	7.25	+3.4	17	6,826	s.	29	w.	13	1	17	12	7.0	0.0	0.0
Evansville	431	76	116	29.42	29.88	−.09	69.8	−5.3	87	19	77	54	10	62	24	64	61	76	9.78	+5.7	20	6,003	w.	30	sw.	18	1	11	18	7.7	0.0	0.0
Indianapolis	822	194	230	28.98	29.86	−.11	65.4	−6.2	86	12	73	49	4	57	31	59	56	75	8.77	+5.2	18	6,887	s.	44	w.	19	4	11	15	7.1	0.0	0.0
Royal Center	736	11	55	29.04	29.83	----	62.8	----	84	12	72	42	3	53	31	----	----	----	6.26	----	16	6,428	w.	38	w.	19	2	10	18	7.2	0.0	0.0
Terre Haute	575	96	129	29.24	29.85	----	66.8	----	86	19	75	50	4	59	26	62	59	80	6.88	----	20	5,760	s.	27	s.	8	2	14	14	7.2	0.0	0.0
Cincinnati	627	11	51	29.21	29.88	−.11	67.0	−4.2	86	19	76	46	3	58	31	62	58	78	9.07	+5.4	19	4,451	sw.	25	nw.	19	3	9	18	7.3	0.0	0.0
Columbus	822	179	222	29.02	29.88	−.11	65.7	−5.2	84	13	74	46	10	58	26	60	56	75	6.94	+3.6	18	5,700	s.	37	w.	19	6	11	13	6.7	0.0	0.0
Dayton	899	137	173	28.92	29.86	----	65.8	−5.6	85	19	74	45	3	57	31	60	56	75	7.13	+3.3	21	5,819	sw.	33	sw.	19	3	14	13	7.0	0.0	0.0
Elkins	1,947	59	67	27.90	29.91	−.09	64.1	−2.8	84	13	74	38	1	54	33	59	57	83	7.99	+3.0	25	3,188	w.	30	nw.	9	0	9	21	8.0	0.0	0.0
Parkersburg	637	77	82	29.26	29.91	−.09	68.2	−3.2	89	13	77	49	1	60	28	62	59	75	8.63	+4.0	21	3,674	se.	24	nw.	19	5	5	20	7.2	0.0	0.0
Pittsburgh	842	353	410	28.98	29.87	−.12	66.1	−4.6	86	13	74	46	3	58	28	60	56	73	7.73	+3.9	20	6,454	sw	36	nw.	19	3	5	22	7.6	0.0	0.0
Lower Lake Region							**62.9**	**−3.9**										**71**	**4.88**	**+1.5**										**6.4**		
Buffalo	767	247	280	29.03	29.85	−.12	61.6	−2.8	83	12	68	44	3	55	30	58	56	86	9.67	+6.8	18	8,632	sw.	36	sw.	2	6	12	12	6.3	0.0	0.0
Canton	448	10	61	29.38	29.85	----	61.4	−4.4	85	13	71	39	4	52	31	----	----	----	4.21	+0.8	13	5,418	sw.	27	sw.	2	13	7	10	5.2	0.0	0.0
Ithaca	836	5	100	28.96	29.85	----	62.5	----	84	25	72	41	11	53	37	58	54	76	5.86	+2.3	19	5,540	se.	25	s.	1	4	11	15	6.6	0.0	0.0
Oswego	335	76	91	29.50	29.86	−.11	60.7	−4.1	86	13	68	42	3	53	28	57	54	77	3.67	+0.5	18	4,819	se.	19	se.	20	5	6	19	6.9	0.0	0.0
Rochester	523	86	102	29.30	29.86	−.11	63.4	−2.7	91	13	72	42	3	55	28	57	53	72	4.63	+1.6	19	4,412	sw.	18	w.	10	7	9	14	6.4	0.0	0.0
Syracuse	597	97	113	29.24	29.88	−.09	63.1	−3.8	83	25	71	44	3	55	28	----	----	----	3.96	+0.1	17	6,043	s.	27	s.	13	4	11	15	6.9	0.0	0.0
Erie	714	130	166	29.10	29.86	−.12	63.2	−3.0	89	13	71	45	3	56	24	58	54	74	3.96	+0.6	18	7,357	w.	36	sw.	23	12	11	7	5.1	0.0	0.0
Cleveland	762	190	201	29.04	29.85	−.13	64.0	−3.1	85	13	71	45	3	57	25	58	54	72	4.69	+1.6	17	6,837	sw.	34	w.	29	7	8	15	6.6	0.0	0.0
Sandusky	629	5	67	29.18	29.85	−.13	64.6	−4.2	85	22	73	44	3	56	30	----	----	----	5.26	+1.8	15	5,435	sw.	22	nw.	29	5	10	15	6.7	0.0	0.0
Toledo	628	208	243	29.18	29.85	−.12	63.6	−5.1	84	22	71	44	10	56	26	58	55	75	3.89	+0.6	15	8,240	sw.	36	sw.	13	8	12	10	5.9	0.0	0.0
Fort Wayne	856	113	124	28.93	29.84	----	63.3	−5.2	84	22	72	43	10	55	29	58	55	76	3.85	----	12	5,652	sw.	26	sw.	13	7	8	15	7.0	0.0	0.0
Detroit	730	218	258	29.06	29.84	−.13	63.4	−4.0	84	21	72	44	10	55	29	58	55	77	3.83	+0.3	12	6,264	sw.	30	sw.	13	3	10	17	7.2	0.0	0.0
Upper Lake Region							**58.6**	**−4.0**										**74**	**5.05**	**+1.8**										**6.4**		
Alpena	609	13	92	29.18	29.84	−.12	57.5	−2.9	82	13	67	36	3	48	31	53	49	72	2.85	−0.4	12	6,890	se.	28	e.	18	9	12	9	5.7	0.0	0.0
Escanaba	612	54	60	29.16	29.82	−.12	57.1	−3.6	82	27	65	40	2	49	28	52	47	73	1.95	−1.3	11	6,641	s.	29	n.	9	5	11	14	6.4	0.0	0.0
Grand Haven	632	54	89	29.14	29.82	−.14	58.6	−5.1	82	12	67	38	3	50	29	54	50	76	5.15	+2.2	13	6,502	w.	28	s.	13	7	7	16	6.5	0.0	0.9
Grand Rapids	707	70	87	29.07	29.84	−.13	61.9	−5.9	82	17	71	43	3	53	27	56	51	71	8.03	+4.6	13	3,735	w.	16	w.	1	5	10	15	6.9	0.0	0.0
Houghton	668	64	99	29.10	29.82	−.12	55.3	−4.7	81	30	64	37	4	46	35	----	----	----	3.15	−0.3	13	6,375	e.	40	n.	24	5	10	15	6.8	0.0	0.0
Lansing	878	6	49	28.90	29.83	----	60.3	−6.1	81	13	70	36	3	51	30	57	54	79	3.12	−0.4	12	3,250	s.	15	nw.	9	10	7	13	6.0	0.0	0.0
Ludington	637	60	66	29.13	29.83	----	56.5	----	80	12	64	38	3	49	26	52	48	76	3.29	----	14	5,948	s.	25	s.	12	9	10	11	5.6	0.0	0.0
Marquette	734	77	111	29.04	29.84	−.10	55.2	−3.7	80	27	63	38	4	47	29	50	47	76	8.48	+5.3	16	5,107	w.	34	se.	12	3	10	17	7.2	0.0	0.0
Port Huron	638	70	120	29.15	29.84	−.13	61.0	−3.2	81	13	69	39	3	53	29	57	53	77	5.64	+2.9	11	6,518	sw.	32	nw.	29	4	16	10	5.8	0.0	0.0
Sault Ste. Marie	614	11	52	29.16	29.85	−.11	56.6	−2.0	79	28	67	33	4	46	34	51	46	72	2.12	−0.6	11	4,662	w.	26	nw.	21	8	11	11	5.9	0.0	0.0
Chicago	673	7	131	29.11	29.83	−.13	63.0	−4.3	86	12	71	46	10	55	25	57	53	75	6.97	+3.7	14	6,568	ne.	30	sw.	13	5	9	16	6.9	0.0	0.0
Green Bay	617	109	141	29.16	29.81	−.14	60.6	−4.3	84	30	70	42	10	51	28	54	49	68	5.50	+2.0	13	7,097	s.	35	s.	13	4	12	14	6.7	0.0	0.0
Milwaukee	681	125	221	29.10	29.83	−.12	60.0	−3.9	85	30	68	45	5	52	30	54	50	74	6.95	+3.6	14	8,081	se.	38	sw.	13	6	7	17	6.7	0.0	0.0
Duluth	1,133	5	47	28.63	29.84	−.08	55.2	−2.0	84	29	65	35	3	45	34	50	46	76	5.72	+1.8	17	7,214	ne.	38	ne.	18	7	9	14	6.7	0.0	0.0
North Dakota							**58.9**	**−4.4**										**67**	**4.42**	**+0.8**										**5.9**		
Moorhead	940	50	58	28.81	29.81	−.09	60.2	−4.2	85	29	72	35	2	49	35	53	47	64	3.13	−0.9	11	4,969	n.	22	nw.	13	8	6	16	6.3	0.0	0.0
Bismarck	1,674	8	57	28.06	29.82	−.05	59.4	−4.3	84	30	70	38	9	48	33	53	47	68	4.81	+1.5	16	5,214	e.	40	ne.	12	10	10	10	5.9	0.0	0.0
Devils Lake	1,478	11	44	28.27	29.82	−.01	57.6	−5.0	83	29	68	35	3	47	33	52	47	71	5.17	+1.6	14	5,105	n.	27	n.	12	10	9	11	5.2	0.0	0.0
Ellendale	1,457	10	56	28.27	29.82	----	59.2	----	83	16	71	34	3	48	38	----	----	----	5.63	----	12	7,762	nw.	40	ne.	12	3	17	10	6.5	0.0	0.0
Grand Forks	833	12	67	----	----	----	59.2	----	84	29	70	31	2	48	40	54	----	----	5.08	----	14	----	nw.	----	----	----	9	13	8	----	0.0	0.0
Williston	1,878	41	48	27.87	29.82	−.04	58.4	−4.3	80	29	69	36	9	48	33	51	45	65	4.56	+1.1	16	4,113	se.	24	n.	12	8	13	9	5.6	0.0	0.0
Upper Mississippi Valley							**65.5**	**−5.0**										**70**	**5.54**	**+1.4**										**6.8**		
Minneapolis	918	102	208	28.84	29.80	----	62.6	−4.9	82	29	71	45	2	54	28	----	----	----	2.59	−1.6	13	7,182	nw.	34	nw.	1	6	7	17	7.0	0.0	0.0
St. Paul	837	236	261	28.91	29.80	−.12	61.8	−5.3	82	29	71	43	10	53	29	----	----	----	2.60	−1.5	14	7,442	se.	37	sw.	1	7	7	16	6.6	0.0	0.0
La Crosse	714	11	48	29.05	29.81	−.12	63.0	−5.3	85	30	73	39	10	53	35	56	51	68	3.25	−0.8	8	2,562	nw.	15	nw.	1	5	8	17	7.0	0.0	0.0
Madison	974	70	78	28.80	29.82	−.12	62.5	−4.7	83	12	70	45	2	54	25	56	51	69	6.33	+2.6	11	5,101	n.	25	ne.	19	4	13	13	7.1	0.0	0.0
Wausau	1,247	4	----	28.50	29.82	----	59.3	----	86	30	69	37	2	49	37	----	----	----	3.28	----	13	----	nw.	----	----	----	7	7	16	6.7	0.0	0.0
Charles City	1,015	10	51	28.77	29.83	−.08	62.8	−3.7	84	20	73	41	10	53	33	56	50	65	2.85	−2.2	10	4,039	nw.	22	sw.	12	6	13	11	5.7	0.0	0.0
Davenport	606	71	79	29.17	29.82	−.12	66.7	−3.8	84	18	76	49	5	58	27	59	55	69	4.55	+0.4	14	4,495	nw.	34	se.	7	3	13	14	7.2	0.0	0.0
Des Moines	861	84	97	28.92	29.81	−.11	66.2	−4.4	86	20	75	48	2	57	30	59	53	68	6.62	+1.9	15	4,314	n.	35	sw.	12	4	10	16	7.0	0.0	0.0
Dubuque	700	81	96	29.07	29.81	−.12	64.5	−4.9	83	12	74	46	10	56	27	57	52	66	3.87	−0.4	13	4,226	nw.	26	sw.	12	4	8	18	7.3	0.0	0.0
Keokuk	614	64	78	29.17	29.83	−.11	66.8	−5.7	85	21	76	50	6	58	26	60	55	69	5.15	+1.0	12	4,477	nw.	26	s.	12	4	7	19	7.4	0.0	0.0
Cairo	358	87	93	29.49	29.86	−.11	70.8	−5.5	87	19	78	55	7	63	23	65	63	79	15.70	+11.9	19	5,451	s.	28	s.	8	1	12	17	7.7	0.0	0.0
Peoria	609	11	45	29.19	29.85	−.10	66.0	−4.9	85	12	76	44	10	56	31	60	56	73	6.60	+2.8	14	3,851	nw.	27	se.	8	7	15	8	5.7	0.0	0.0
Springfield, Ill	636	10	91	29.16	29.82	−.13	67.4	−4.8	86	19	76	51	6	59	28	61	57	71	5.06	+1.0	17	5,273	w.	28	nw.	19	5	14	11	6.3	0.0	0.0
Hannibal	534	74	109	29.25	29.82	−.13	67.0	−5.5	85	18	76	50	2	58	27	----	----	----	5.08	+1.6	14	5,357	sw.	29	w.	19	2	12	16	7.1	0.0	0.0
St. Louis	568	265	303	29.24	29.84	−.11	68.6	−6.2	88	19	77	51	6	60	24	62	59	73	7.25	+3.4	12	7,748	s.	43	w.	17	4	13	13	6.5	0.0	0.0
Missouri Valley							**66.0**	**−4.8**										**69**	**6.34**	**+20**										**6.0**		
Columbia, Mo	784	6	84	29.00	29.82	−.13	66.6	−6.2	85	18	75	47	6	58	27	----	----	----	14.86	+10.5	19	4,466	nw.	19	e.	30	5	9	16	6.7	0.0	0.0
Kansas City	963	161	181	28.80	29.82	−.10	68.3	−5.3	88	21	77	50	3	60	25	61	57	72	5.43	+0.4	17	5,930	se.	38	sw.	12	5	14	11	6.1	0.0	0.0
St. Joseph	967	11	49	28.79	29.81	----	68.2	----	88	21	77	52	2	59	27	60	56	70	10.77	----	16	4,698	se.	36	nw.	17	6	13	11	5.8	0.0	0.0
Springfield, Mo	1,324	98	104	28.47	29.85	−.10	66.8	−5.7	87	18	74	49	6	60	23	63	60	79	12.27	+7.1	17	6,544	s.	34	se.	28	11	12	7	5.0	0.0	0.0
Iola	984	11	50	28.78	29.80	−.13	69.6	−4.5	90	21	79	50	4	60	28	----	----	----	10.58	+5.1	16	3,803	se.	26	nw.	22	8	11	11	5.8	0.0	0.0
Topeka	987	92	107	----	----	----	68.8	−4.6	91	21	78	51	4	60	30	----	----	----	5.11	+0.3	15	5,489	n.	34	s.	16	8	16	6	5.5	0.0	0.0
Lincoln	1,189	11	81	28.57	29.80	−.10	66.8	−4.6	88	20	76	48	2	57	27	59	53	67	3.97	−0.4	17	5,500	s.	33	nw.	22	2	16	12	6.6	0.0	0.0
Omaha	1,105	115	122	28.66	29.82	−.09	67.1	−4.5	87	20	75	51	10	59	25	59	53	66	5.20	+0.6	12	4,593	n.	26	n.	24	11	9	10	5.5	0.0	0.0
Valentine	2,598	47	54	27.17	29.85	−.01	61.4	−5.5	91	30	72	40	10	51	35	53	48	69	3.35	−0.5	15	5,587	w.	38	nw.	12	5	12	13	6.2	0.0	0.0
Sioux City	1,135	94	164	28.64	29.83	−.07	65.0	−4.5	82	16	74	45	10	56	31	57	52	66	3.07	−0.8	13	6,945	nw.	40	sw.	12	3	13	14	6.6	0.0	0.0
Huron	1,306	59	74	28.44	29.82	−.06	63.0	−3.2	87	7	75	40	10	52	37	55	48	65	6.50	+2.7	13	5,590	nw.	32	se.	15	4	21	5	5.7	0.0	0.0
Pierre	1,572	70	75	----	29.81	−.06	63.8	−4.7	93	30	76	46	10	52	33	----	----	64	2.18	−0.9	9	5,365	nw.	46	nw.	12	5	19	6	----	0.0	0.0
Yankton	1,233	49	57	28.53	29.82	−.07	64.7	−4.2	85	30	75	44	10	54	32	----	----	----	3.50	−0.3	12	4,443	nw.	30	w.	12	6	13	11	6.1	0.0	0.0

TABLE I.—*Climatological data for Weather Bureau stations, June, 1928*—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 .01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0–10	In.	In.
Northern Slope							56.9	−4.5										66	3.58	+1.3										6.2		
Billings	3,140	5					59.2		85	28	74	31	1	45	47				1.67		16		nw.				3	10	17		0.0	0.0
Havre	2,505	11	44	27.22	29.83	−0.02	58.8	−3.2	84	28	70	34	9	48	36	51	44	66	4.32	+1.5	13	4,455	sw.	33	sw.	14	4	13	13	6.7	0.0	0.0
Helena	4,110	87	112	25.72	29.86	−.02	56.4	−2.8	80	28	66	39	1	46	33	47	39	58	2.98	+0.9	17	5,696	sw.	33	sw.	28	3	14	13	6.9	0.0	0.0
Kalispell	2,973	48	56	26.83	29.85	−.04	56.6	−1.1	82	26	66	38	9	47	30	49	43	67	2.51	+0.8	15	3,720	nw.	38	sw.	6	6	16	8	5.9	0.0	0.0
Miles City	2,371	48	55	27.33	29.85	.00	60.7	−5.3	83	30	72	39	1	50	34	51	44	61	2.83	+0.1	13	3,889	s.	37	w.	6	7	15	8	5.7	0.0	0.0
Rapid City	3,259	50	58	26.50	29.87	+.02	58.0	−6.2	82	30	68	41	13	48	34	51	46	69	6.15	+2.6	19	4,676	n.	30	nw.	12	4	13	13	6.7	0.0	0.0
Cheyenne	6,088	84	101	23.93	29.81	−.03	54.4	−6.0	79	30	65	38	13	44	32	47	42	69	2.85	+1.2	20	6,696	s.	33	nw.	12	5	14	11	6.3	0.0	0.0
Lander	5,372	60	68	24.55	29.82	−.03	55.6	−4.9	85	30	68	36	19	43	43	48	42	63	2.96	+1.8	13	3,541	w.	31	sw.	29	10	15	5	4.6	0.0	0.0
Sheridan	3,790	10	47	25.99	29.84		56.5		82	6	69	32	1	44	43	50	43	66	3.23		17	2,796	nw.	21	nw.	6	8	16	6	5.8	0.0	0.0
Yellowstone Park	6,241	11	48	23.82	29.86	.00	49.6	−6.4	73	28	61	31	1	38	35	41	35	65	2.99	+1.4	18	4,585	n.	34	sw.	6	0	14	16	7.4	7.1	0.0
North Platte	2,821	11	51	26.95	29.83	−.03	62.2	−4.7	85	30	72	44	13	52	34	55	51	72	4.64	+1.4	19	4,034	se.	26	w.	12	7	11	12	6.1	0.0	0.0
Middle Slope							67.4	−4.5										69	5.05	+2.0										5.7		
Denver	5,292	106	113	24.64	29.80	−.04	61.0	−5.3	89	27	72	42	3	50	37	51	43	59	2.42	+1.0	11	4,802	n.	27	w.	11	9	12	9	5.5	0.0	0.0
Pueblo	4,685	80	86	25.18	29.75	−.08	65.6	−3.4	92	7	78	44	4	53	39	54	45	58	1.47	0.0	9	4,729	e.	32	w.	11	14	13	3	4.1	0.0	0.0
Concordia	1,392	50	58	28.40	29.84	−.06	67.0	−6.0	87	21	76	50	4	58	27	61	58	75	4.79	+0.4	18	4,511	s.	30	w.	23	4	12	14	6.5	0.0	0.0
Dodge City	2,509	11	51	27.27	29.83	−.04	66.5	−6.0	90	16	77	40	5	56	32	60	56	75	5.30	+2.0	21	5,893	se.	44	n.	8	13	9	8	4.6	0.0	0.0
Wichita	1,358	139	158	28.39	29.79	−.12	69.3	−5.1	89	18	79	49	4	60	28	63	59	74	12.10	+7.4	18	7,076	s.	44	ne.	8	6	16	8	5.8	0.0	0.0
Broken Arrow	765	11	56	29.00	29.81		72.2		87	18	80	54	6	65	26				5.77		15	8,628	s.	52	nw.	9	3	8	19	7.5	0.0	0.0
Oklahoma City	1,214	10	47	28.53	29.77	−.14	74.8	−1.2	96	17	84	52	5	66	27	67	64	74	4.21	+1.1	12	6,759	s.	26	se.	12	7	15	8	5.6	0.0	0.0
Southern Slope							79.0	+1.0										52	2.05	−0.5										2.9		
Abilene	1,738	10	52	27.98	29.73	−.15	81.3	+2.1	105	28	93	51	5	70	30	68	61	58	2.52	−0.5	9	8,474	s.	33	s.	17	18	10	2	3.2	0.0	0.0
Amarillo	3,676	10	49	26.12	29.74	−.11	72.1	−0.7	99	16	85	46	4	59	36	60	52	58	3.45	+0.5	5	6,614	e.	24	s.	7	17	7	6	3.5	0.0	0.0
Del Rio	944	64	71	28.76	29.71	−.14	85.0	+1.6	105	23	95	64	5	75	28	71	64	57	0.71	−1.7	3	7,958	se.	27	se.	8	16	13	1	3.4	0.0	0.0
Roswell	3,566	75	85	26.19	29.69	−.11	77.5	+1.2	104	27	92	48	5	62	39	57	39	34	1.53	−0.2	2	6,055	s.	29	s.	11	23	7	0	1.5	0.0	0.0
Southern Plateau							74.8	+0.6										29	0.03	−0.4										1.0		
El Paso	3,778	152	175	26.03	29.68	−.07	82.6	+3.0	103	23	95	58	13	70	38	56	31	19	T.	−0.6		8,816	w.	44	w.	11	26	4	0	1.4	0.0	0.0
Santa Fe	7,013	38	53	23.19	29.66	−.15	64.6	−0.2	88	27	79	39	13	50	37	47	28	29	0.11	−1.0	1	4,610	sw.	32	sw.	11	23	6	1	2.1	0.0	0.0
Flagstaff	6,907	10	59	23.32	29.72	−.06	58.9	−0.4	89	24	75	32	13	43	45	43	27	38	0.05		1		sw.		sw.		26	4	0		0.0	0.0
Phoenix	1,108	10	82	28.55	29.67	−.07	85.6	+1.1	110	24	101	61	12	70	39	60	38	23	0.00	−0.1	0	3,697	w.	21	n.	3	29	1	0	0.3	0.0	0.0
Yuma	141	9	54	29.53	29.67	−.07	85.3	+0.6	114	6	102	61	12	68	43	64	47	35	0.00	0.0	0	3,407	sw.	22	w.	10	30	0	0	0.1	0.0	0.0
Independence	3,957	5	25	25.80	29.74	−.04	71.8	−0.5	98	24	88	45	11	56	37	51			T.		0		nw.				27	1	2	1.2	0.0	0.0
Middle Plateau							64.8	−0.4										34	0.41	−0.1										2.3		
Reno	4,532	74	81	25.39	29.80	−.06	63.3	+2.3	94	23	79	40	10	48	40	48	36	41	0.11	−0.2	2	5,604	w.	34	w.	27	26	2	2	1.7	0.0	0.0
Tonopah	6,090	12	20				65.4		91	24	78	32	11	53	34	46	25	25	0.08		1		nw.									
Winnemucca	4,344	18	56	25.53	29.85	−.03	62.5	−0.3	97	24	79	34	18	46	43	47	33	43	0.43	−0.3	4	4,234	sw.	24	nw.	2	24	6	0	2.3	0.0	0.0
Modena	5,473	10	43	24.50	29.72	−.10	63.4	+0.1	93	24	80	35	19	46	45	45	27	31	0.26	−0.1	2	8,166	sw.	48	sw.	10	24	3	3	1.8	0.0	0.0
Salt Lake City	4,360	163	203	25.48	29.77	−.08	65.4	−2.0	94	25	77	40	18	54	33	49	34	35	0.41	−0.4	4	4,941	nw.	30	se.	10	15	11	4	3.4	0.0	0.0
Grand Junction	4,602	60	68	25.22	29.72	−.11	69.2	−2.2	97	26	84	43	12	55	34	49	30	31	0.84	+0.4	5	4,631	se.	30	s.	11	19	9	2	2.5	0.0	0.0
Northern Plateau							63.0	−0.7										51	0.82	−0.3										5.3		
Baker	3,471	48	53	26.38	29.93	−.02	56.4	−2.2	91	24	70	32	7	43	39	46	38	58	1.46	+0.2	9	3,838	se.	26	n.	20	11	7	12	5.6	0.0	0.0
Boise	2,739	78	86	27.04	29.86	−.05	63.6	−1.7	98	24	77	39	7	51	39	52	42	52	0.44	−0.5	7	4,036	w.	24	n.	11	12	11	7	4.4	0.0	0.0
Lewiston	757	40	48	29.07	29.87	−.07	67.0	+0.4	102	24	80	43	7	54	40				1.03	0.0	11	2,603	e.	28	nw.	6	5	14	11	6.0	0.0	0.0
Pocatello	4,477	60	68	25.36	29.80	−.07	60.0	−2.2	89	25	73	40	18	47	37	47	36	49	1.00	0.0	10	5,078	sw.	28	sw.	14	9	13	8	5.4	0.0	0.0
Spokane	1,929	101	110	27.85	29.87	−.07	63.6	+0.8	94	24	75	42	7	52	34	51	40	48	0.43	−0.8	8	4,611	s.	28	sw.	6	5	18	7	5.9	0.0	0.0
Walla Walla	991	57	65	28.82	29.88	−.08	67.2	+0.7	99	24	78	47	7	56	35	54	43	46	0.58	−0.5	6	3,400	s.	19	sw.	6	14	9	7	4.6	0.0	0.0
North Pacific Coast Region							58.9	+0.5										71	0.81	−1.1										6.8		
North Head	211	11	56	29.78	30.00	+.01	56.0	+1.2	63	29	59	49	7	53	10	53	51	85	1.42	−0.5	15	7,796	n.	32	n.	6	0	3	27	9.2	0.0	0.0
Port Angeles	29	8	53		30.03		56.2		78	20	63	40	7	49	26				0.50	−0.8	5	4,701	nw.	27	w.	6	6	7	17		0.0	0.0
Seattle	125	215	250	29.86	29.99	−.01	59.5	+0.5	81	23	67	48	7	52	30	53	49	71	1.32	−0.1	9	4,156	nw.	22	sw.	1	3	8	19	7.6	0.0	0.0
Tacoma	194	172	201	29.81	30.01	−.02	59.9	+1.2	83	20	68	44	7	52	27				0.48	−1.2	8	4,885	sw.	29	sw.	6	2	13	15	7.0	0.0	0.0
Tatoosh Island	86	9	53	29.92	30.02	.00	54.2	+1.2	62	29	57	49	6	51	9	52	51	91	0.84	−3.3	12	6,055	w.	31	s.	20	0	11	19	8.0	0.0	0.0
Yakima	1,071	5					66.4		100	24	81	36	7	52	38	54		55	0.20		4		nw.				9	14	7	5.1	0.0	0.0
Medford	1,425	4	80	28.45	29.93		63.4		92	23	78	42	18	48	43	53	47	62	0.82		3		nw.	18	nw.	2	13	8	9	4.4	0.0	0.0
Portland, Oreg.	153	68	106	29.85	30.01	−.03	62.2	−0.2	86	23	70	48	8	55	27	55	50	67	0.44	−1.1	9	3,289	nw.	16	nw.	6	4	5	21	7.9	0.0	0.0
Roseburg	510	75	99	29.46	30.00	−.03	61.6	−0.9	86	22	72	44	18	52	36	53	47	64	0.70	−0.4	3	3,027	n.	17	n.	17	11	7	12	5.6	0.0	0.0
Middle Pacific Coast Region							65.7	+1.3										63	0.10	−0.2										2.3		
Eureka	62	73	89	29.98	30.05	.00	55.3	+1.0	64	29	60	46	7	51	14	52	50	84	0.32	−0.4	3	4,895	n.	27	nw.	18	7	8	15	6.5	0.0	0.0
Red Bluff	330	54	58	29.47	29.82	−.06	76.0	+1.2	105	5	90	49	11	62	38	58	43	36	0.13	−0.3	2	4,622	nw.	22	nw.	17	26	4	0	1.2	0.0	0.0
Sacramento	69	106	117	29.75	29.82	−.07	71.7	+2.3	103	5	87	50	11	57	38	59	51	57	0.04	−0.1	1	5,944	s.	23	nw.	3	29	1	0	0.6	0.0	0.0
San Francisco	155	208	243	29.73	29.90	−.06	60.6	+2.1	85	6	68	50	16	53	34	54	50	75	T.	−0.2	0	6,863	w.	33	w.	9	26	4	0	1.7	0.0	0.0
San Jose	141	12	110	29.76	29.91		64.7	−0.3	97	6	78	46	15	51	44				0.01	−0.1	1	4,416	nw.	25	sw.	19	26	4	0	1.4	0.0	0.0
South Pacific Coast Region							68.3	−0.4										65	0.03	−0.1										3.3		
Fresno	327	89	98	29.47	29.81	−.04	75.6	−0.2	105	6	91	50	11	60	40	57	41	37	0.00	−0.1	0	6,559	nw.	27	nw.	10	30	0	0	0.4	0.0	0.0
Los Angeles	338	159	191	29.51	29.87	−.03	65.4	−1.0	80	16	73	54	11	58	21	59	55	75	0.01	−0.1	1	3,436	sw.	15	w.	10	15	9	6	4.2	0.0	0.0
San Diego	87	62	70	29.78	29.87	−.05	64.0	+0.1	74	16	68	56	12	60	13	60	58	83	0.09	0.0	2	4,449	w.	17	w.	21	12	8	10	5.4	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.91	29.99		79.8	+0.1	91	9	85	72	28	75	17				2.58	−3.3	12	9,066	e.	30	e.	23	5	18	7	5.7	0.0	0.0
Panama Canal																																
Balboa Heights	118	7	97	[1] 29.71	[1] 29.81	−0.1	79.4	−0.7	90	18	85	72	26	74	14				8.78	+0.7	24		nw.		nw.	19	0	4	26	8.7	0.0	0.0
Colon	38	7	97	[1] 29.79	[1] 29.81	−0.2	80.2	−0.2	90	20	86	73	16	75	15				16.22	+2.5	23		se.		nw.	16	0	2	28	9.1	0.0	0.0
Alaska																																
Juneau	80	11	54	[2] 29.94	[2] 30.03		55.7		78	10	65	40	1	46	33	50	44	68	0.93		9	4,347	nw.	23	nw.	24	11	10	9	5.4	0.0	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[2] 29.97	[2] 30.01		76.5		84	2	81	68	1	72	15	68	64	67	0.29	−0.6	9	5,958	e.	22	e.	18	7	22	1	4.9	0.0	0.0

[1] Observations taken bihourly.

[2] Pressure not corrected to mean of 24 hours.

TABLE 2.—*Data furnished by the Canadian Meterological Service, June, 1928*

Station	Altitude above mean sea level Jan. 1, 1919	Pressure			Temperature of the air						Precipitation		
		Station reduced to mean of 24 hours	Sea level reduced to mean of 24 hours	Departure from normal	Mean max. + mean min. ÷ 2	Departure from normal	Mean maximum	Mean minimum	Highest	Lowest	Total	Departure from normal	Total snowfall
	Feet	*Inches*	*Inches*	*Inches*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	*Inches*	*Inches*	*Inches*
Cape Race, N. F	99												
Sydney, C. B. I	48	29.87	29.92	−0.06	56.7	+1.3	66.0	47.3	81	40	2.50	−0.73	0.0
Halifax, N. S	88	29.84	29.94	.00	56.9	−0.8	66.0	47.8	78	42	2.75	−1.01	0.0
Yarmouth, N. S	65	29.79	29.86	−.09	54.2	−0.8	59.9	48.6	67	41	3.12	+0.19	0.0
Charlottetown, P. E. I	38	29.80	29.84	−.08	58.4	+1.0	65.2	51.5	79	44	2.46	−0.21	0.0
Chatham, N. B	28	29.77	29.80	−.09	57.1	−2.9	67.9	46.4	82	34	3.29	−0.17	0.0
Father Point, Que	20												
Quebec, Que	296	29.55	29.86	−.06	60.5	−0.7	69.1	51.9	78	44	5.22	+1.57	0.0
Doucet, Que	1,236				55.4		70.4	40.5	83	21	3.48		0.0
Montreal, Que	187	29.63	29.83	−.11	63.9	−1.0	72.5	55.3	85	48	3.15	−0.38	0.0
Ottawa, Ont	236	29.58	29.84	−.10	62.4	−2.9	72.4	52.3	84	41	5.17	+2.25	0.0
Kingston, Ont	285												
Toronto, Ont	379	29.45	29.85	−.12	61.5	−1.9	70.5	52.5	81	38	3.97	+1.17	0.0
Cochrane, Ont	930				54.0		65.1	42.9	81	31	2.86		0.0
White River, Ont	1,244	28.52	29.82	−.12	52.9	−5.8	65.8	40.0	81	29	6.67	+4.45	0.0
London, Ont	808												
Southampton, Ont	656												
Parry Sound, Ont	688	29.15	29.82	−.14	60.7	−1.0	71.1	50.4	83	37	3.80	+1.38	0.0
Port Arthur, Ont	644	29.15	29.86	−.08	54.4	−2.0	62.0	46.8	81	35	4.91	+2.18	0.0
Winnipeg, Man	760												
Minnedosa, Man	1,690	28.06	29.85	−.04	56.8	−2.8	67.0	46.5	81	30	4.24	+4.24	0.0
Le Pas, Man	860				56.3		68.8	43.9	82	32	1.51		0.0
Qu'Appelle, Sask	2,115	27.63	29.85	−.02	56.6	−3.3	66.8	46.4	78	37	4.68	+1.26	0.0
Moose Jaw, Sask	1,759				57.4		68.2	46.7	82	37	6.07		0.0
Swift Current, Sask	2,392	27.29	29.78	−.09	57.7	−2.3	69.7	45.8	83	32	4.80	+2.13	0.0
Medicine Hat, Alb	2,144												
Calgary, Alb	3,428												
Banff, Alb	4,521												
Prince Albert, Sask	1,450	28.34	29.90	+.03	57.9	+0.2	68.9	46.9	86	35	1.65	−0.86	0.0
Battleford, Sask	1,592	28.14	29.86	.00	57.3	−2.2	69.2	45.5	86	36	4.09	+0.78	0.0
Edmonton, Alb	2,150												
Kamloops, B. C	1,262												
Victoria, B. C	230	29.73	29.98	−.03	56.6	+0.3	63.0	50.3	77	48	0.51	−1.69	0.0
Barkerville, B. C	4,180												
Estevan Point, B. C	20												
Prince Rupert, B. C	170												
Hamilton, Ber	151												

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Father Point, Que	20	29.89	29.91	−0.02	45.0	+1.0	52.0	38.1	67	32	2.82	+0.24	0.0
Medicine Hat, Alb	2,144	27.63	29.86	−.03	61.4	+7.3	78.0	44.8	98	30	0.04	−1.27	0.0
Banff, Alb	4,521	25.41	29.95	+.11	49.5	+2.5	64.7	34.3	83	24	0.66	−1.38	0.0
Edmonton, Alb	2,150	27.60	29.86	−.01	55.8	+5.0	69.9	41.7	89	25	2.14	+0.59	7.2
Kamloops, B. C	1,262	28.68	29.96	+.07	61.1	+2.0	73.2	49.0	89	35	0.29	−0.95	0.0
Barkerville, B. C	4,180	25.68	29.98	+.14	45.4	−0.1	57.5	33.3	76	16	3.25	+0.73	9.0
Estevan Point, B. C	20				50.9		56.6	45.1	65	38	10.69		0.0
Prince Rupert, B. C	170				49.7		56.4	43.0	68	35	8.62		0.0

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