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, May, 1929

Section	Temperature								Precipitation					
	Section average	Departure from the normal	Monthly extremes						Section average	Departure from the normal	Greatest monthly		Least monthly	
			Station	Highest	Date	Station	Lowest	Date			Station	Amount	Station	Amount
	° F.	° F.		° F.			° F.		In.	In.		In.		In.
Alabama	71.3	0.0	3 stations	96	[2] 12	2 stations	37	[2] 2	5.86	+1.89	Wetumpka	10.83	Robertsdale	2.28
Arizona	68.0	+0.7	Parker	106	10	Alpine	10	1	0.15	−0.17	Alpine	2.04	33 stations	0.00
Arkansas	67.6	−1.4	2 stations	97	31	2 stations	30	3	6.31	+1.29	Wynne	11.52	Princeton	1.98
California	61.6	+1.2	Greenland Ranch	110	25	Twin Lakes	7	12	0.09	−1.00	Ellery Lake	2.26	112 stations	0.00
Colorado	51.7	−0.9	Las Animas	94	19	Dillon	2	1	1.61	−0.19	Cuchara Camps	4.01	Rugh Ranch	0.15
Florida	76.6	+1.0	2 stations	99	[2] 8	Plant City	41	4	4.98	+1.00	Fort Pierce	11.09	Long Key	1.15
Georgia	71.6	0.0	2 stations	97	[2] 29	Clayton	34	4	5.48	+1.98	Resaca	10.21	Lumber City	0.66
Idaho	52.9	−0.6	Grand View	99	22	Big Springs	10	1	0.55	−0.99	Grangerville	2.52	6 stations	0.00
Illinois	60.1	−2.5	Mt. Carmel	95	30	Aurora	27	4	5.81	+1.81	Casey	11.89	La Salle	1.23
Indiana	59.6	−2.6	Edwardsport	96	30	Howe	28	20	7.13	+3.12	Salem	11.58	Whiting	2.41
Iowa	57.7	−2.4	2 stations	91	[2] 28	3 stations	24	[2] 2	2.47	−2.11	Riverton	5.79	Chariton	0.82
Kansas	61.2	−2.2	Oketo	94	29	Hays	27	2	4.76	+1.01	Chanute	12.34	Gove (near)	1.42
Kentucky	64.2	−1.1	Quicksand	98	29	Maysville	32	3	7.33	+3.33	2 stations	11.21	Munfordville	4.86
Louisiana	74.0	+0.4	Hammond	96	31	2 stations	38	3	6.08	+1.65	Crowley	13.35	Burwood	1.28
Maryland-Delaware	62.1	−0.5	Frederick, Md	96	31	Oakland, Md	26	17	3.08	−0.51	Maryland Line, Md	6.89	Millington, Md	1.31
Michigan	51.5	−2.4	Deer Park	96	29	Wolverine	14	20	3.69	+0.57	Lowell	7.69	Cheboygan	0.89
Minnesota	51.1	−3.3	Hallock	95	25	Meadowlands	12	16	2.01	−1.02	Worthington	4.71	Mahnomen	0.55
Mississippi	72.3	+1.0	Aberdeen	100	1	Port Gibson	37	3	4.76	+0.30	Merrill	9.32	Rosedale	1.03
Missouri	61.7	−2.9	3 stations	94	[2] 29	Goodland	28	3	7.52	+2.82	Lamonte	13.68	Grant City	1.45
Montana	49.7	−1.4	Glendive	97	24	Harlowton	7	12	1.71	−0.57	Baker	6.24	Eunis	0.26
Nebraska	57.4	−1.6	McCook	98	14	2 stations	22	2	2.73	−0.82	Pawnee City	7.98	Hull (near)	0.80
Nevada	56.9	+0.6	Logandale	103	24	Rye Patch	15	[2] 1	0.14	−0.66	Sharp	0.72	10 stations	0.00
New England	55.7	+0.8	Rockport, Mass	98	29	Pittsburg (a), N. H.	21	10	4.13	+0.72	Pittsburg (b), N. H.	6.80	Pittsfield, Mass	2.67
New Jersey	59.9	−0.2	2 stations	95	31	Layton	26	10	3.49	−0.26	South Orange	5.58	Cape May City	1.26
New Mexico	58.1	−1.0	2 stations	99	15	Selsor Ranch	8	2	2.60	+1.33	Gallinas Planting Station.	7.54	Hachita	0.02
New York	55.4	−0.4	Walden	98	30	2 stations	22	10	4.47	+0.93	North Lake	7.62	Brockport	1.94
North Carolina	66.4	0.0	Louisburg	92	31	Mount Mitchell	19	3	6.33	+2.30	Murphy	11.25	Settle	2.76
North Dakota	49.1	−3.5	McKinney	92	13	McKinney	8	5	2.99	+0.44	Marmarth	7.29	Melville	0.65
Ohio	58.5	−1.5	Fremont	96	30	Millport	26	10	5.33	+1.74	Mount Healthy	9.63	Madison	3.05
Oklahoma	65.8	−2.2	Miami	93	29	Boise City	27	2	7.67	+3.30	McAlester	16.25	Boise City	1.68
Oregon	54.2	+0.5	Huntington	98	24	Lake	10	7	0.98	−0.85	Cruzatte	5.23	5 stations	T.
Pennsylvania	58.5	−1.0	Lock Haven	97	30	3 stations	23	[2] 10	4.81	+0.82	Clearfield	8.43	Philadelphia Navy Yard.	1.96
South Carolina	69.1	−1.8	Garnett	94	16	Caesar's Head	32	3	6.46	+2.81	Rimini	4.03	Beaufort (near)	1.13
South Dakota	54.4	−1.4	2 stations	93	24	Camp Crook	15	6	2.66	−0.32	Marion	5.58	La Delle	0.97
Tennessee	66.5	−0.2	Newbern	96	31	4 stations	35	[2] 3	7.69	+3.49	Pheasant Field	14.99	Dover	4.05
Texas	72.1	−1.0	Eagle Pass	108	5	Muleshoe	26	2	7.70	+4.04	Rockland	22.55	Grand Falls	0.65
Utah	55.1	−0.1	St. George	98	24	Woodruff	17	11	0.47	−0.74	Elkhorn (Ashley)	1.91	7 stations	0.00
Virginia	63.7	+0.1	Lincoln	95	31	Burkes Garden	28	22	4.77	+0.92	Dante	9.80	Quantico	1.58
Washington	54.4	+0.3	Wahluke	97	22	4 stations	24	[2] 1	1.51	−0.62	Baker Lake	5.87	Wapato	0.07
West Virginia	60.8	−1.4	Charleston	98	31	Ryan	23	8	5.81	+1.88	Camden-on-Gauley	11.14	Romney	2.25
Wisconsin	52.1	−2.7	High Falls	94	30	2 stations	16	[2] 9	2.39	−1.50	Brule Island	6.33	Prairie du Sac	0.84
Wyoming	47.2	−2.0	Barnum	92	24	Dome Lake	−5	1	2.04	−0.10	Rocky Point	6.09	Sage	0.12
Alaska	28.5	−0.7	Akiak	74	25	Tanana	−29	3	1.57	−0.35	Kalsin Bay	9.99	Skagway	0.16
Hawaii	73.1	+1.2	Waialua Mill	92	26	Volcano Observatory.	48	10	4.16	−2.01	2 stations	17.20	Moaula	0.00
Porto Rico	76.2	−1.0	Comerio	92	3	Jayuya	55	2	8.75	+1.76	Canovanas	17.38	Ponce	2.03

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

[2] Other dates also.

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

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F		°F	°F.	°F	°F	°F	°F	°F	%	In.	In.		Miles								0–10	In.	In.
New England							**55.9**	**+1.3**										**72**	**3.81**	**+0.6**										**5.5**		
Eastport	76	67	85	29.92	30.00	+0.04	48.6	+0.9	82	29	57	34	20	41	34	44	39	73	3.28	+0.3	14	7,253	s.	34	nw.	16	6	5	20	7.0	T.	0.0
Greenville, Me.	1,070	6	----	28.83	29.99	----	51.3	----	89	29	63	28	14	39	40	----	----	----	5.40	----	14	5,788	nw.	36	----	16	9	6	16	----	T.	0.0
Portland, Me.	103	82	117	29.92	30.04	+.07	54.6	+1.3	90	30	64	38	9	45	29	48	43	69	3.54	+0.1	12	6,607	sw.	36	s.	3	14	6	11	4.8	0.0	0.0
Concord	289	70	79	29.71	30.02	+.04	56.7	+2.4	95	30	71	29	10	43	44	----	----	----	4.30	+1.3	12	4,458	nw.	30	w.	5	15	11	5	4.3	0.0	0.0
Burlington	403	11	48	29.56	30.00	+.03	54.2	−2.3	92	30	65	31	10	44	33	----	----	----	4.51	+1.7	13	7,140	s.	37	sw.	14	7	5	19	7.0	T.	0.0
Northfield	876	12	60	29.07	30.02	+.05	52.2	−0.6	91	30	66	25	10	38	44	48	42	68	2.72	0.0	12	4,881	s.	40	s.	3	5	14	12	6.5	T.	0.0
Boston	125	115	188	29.90	30.03	+.05	61.0	+3.9	96	30	72	42	10	50	38	53	47	64	2.82	−0.4	10	6,948	sw.	34	se.	3	8	17	6	5.2	0.0	0.0
Nantucket	12	14	90	30.05	30.06	+.07	54.5	+2.2	84	31	61	42	9	48	26	50	47	82	4.10	+1.2	12	12,129	sw.	44	s.	3	9	13	9	5.4	0.0	0.0
Block Island	26	11	46	30.02	30.05	+.06	54.3	+1.5	81	31	60	42	10	48	24	50	48	82	4.81	+1.3	13	11,823	sw.	48	w.	16	7	16	8	5.3	0.0	0.0
Providence	160	215	251	29.88	30.05	+.07	59.6	+1.1	94	30	70	41	10	49	36	52	45	63	3.45	+0.5	11	8,368	n.	52	n.	16	12	13	6	4.9	0.0	0.0
Hartford	159	122	----	29.88	30.06	+.08	59.7	+2.2	92	30	71	39	10	49	37	----	----	----	4.41	+0.8	13	----	sw.	----	----	----	12	10	9	4.9	0.0	0.0
New Haven	106	74	153	29.95	30.06	+.07	59.2	+1.3	93	31	69	41	8	49	38	53	49	75	3.94	+0.2	13	6,614	s.	35	sw.	16	8	15	8	5.7	0.0	0.0
Middle Atlantic States							**61.4**	**−0.5**										**72**	**3.81**	**+0.3**										**5.7**		
Albany	97	107	115	29.93	30.03	+.05	58.4	−0.9	92	30	69	37	10	48	34	53	50	75	2.34	−0.6	13	5,115	sw.	26	sw.	1	15	10	6	4.5	0.0	0.0
Binghamton	871	10	84	29.11	30.04	+.06	56.2	−1.2	91	30	68	31	10	44	39	----	----	----	5.55	+2.2	15	4,210	nw.	31	sw.	2	4	15	12	6.4	0.0	0.0
New York	314	414	454	29.73	30.07	+.08	60.6	0.0	90	31	70	42	8	52	34	53	47	68	3.64	+0.4	15	11,098	sw.	62	w.	16	6	10	15	6.6	0.0	0.0
Bellefonte	1,050	5	36	28.95	30.06	----	55.8	----	94	30	69	28	10	43	42	52	48	75	4.41	----	16	----	w.	----	----	----	7	11	13	6.2	0.0	0.0
Harrisburg	374	94	104	29.68	30.08	+.10	60.8	−1.0	91	31	71	38	10	51	32	54	48	66	4.14	+0.7	13	4,628	s.	30	nw.	16	10	9	12	5.8	0.0	0.0
Philadelphia	114	123	367	29.96	30.09	+.10	62.8	−0.1	92	31	72	44	8	53	31	57	54	76	2.28	−1.0	15	9,770	sw.	45	s.	3	8	8	15	6.1	0.0	0.0
Reading	325	81	98	29.72	30.07	----	61.4	----	93	31	72	39	4	51	34	54	48	66	3.48	−0.2	14	4,487	sw.	25	w.	16	9	11	11	5.7	0.0	0.0
Scranton	805	111	119	29.21	30.07	+.09	58.2	−1.2	92	30	69	33	10	47	35	52	46	68	3.70	+0.4	14	5,031	sw.	33	nw.	16	6	10	15	6.5	0.0	0.0
Atlantic City	52	37	172	30.03	30.09	+.11	58.0	−0.1	85	16	64	43	10	52	37	54	50	78	1.90	−1.2	12	12,153	s.	50	s.	2	8	15	8	5.0	0.0	0.0
Cape May	17	13	49	----	----	----	58.8	+0.2	81	31	67	41	10	51	30	55	52	80	1.26	----	10	----	s.	----	----	----	11	9	11	----	0.0	0.0
Sandy Hook	22	10	55	30.01	30.06	----	59.6	----	91	31	67	43	4	52	31	54	50	76	4.86	+1.1	15	9,521	sw.	44	w.	16	8	9	14	5.9	0.0	0.0
Trenton	190	159	183	29.86	30.06	----	61.6	----	91	31	72	41	4	51	35	55	50	70	3.53	+0.4	15	7,355	sw.	39	nw.	16	8	9	14	6.1	0.0	0.0
Baltimore	123	100	215	29.94	30.07	+.08	64.3	−0.1	95	31	74	43	4	55	33	57	52	67	1.78	−1.8	14	7,022	sw.	42	sw.	3	11	9	11	5.7	0.0	0.0
Washington	112	62	85	29.95	30.07	+.07	64.5	+0.8	92	31	75	42	17	54	31	57	52	68	2.29	−1.4	15	3,968	s.	28	w.	3	10	8	13	5.5	0.0	0.0
Cape Henry	18	8	54	30.07	30.09	----	65.8	----	90	16	74	47	11	58	30	60	56	75	6.73	+3.2	11	8,341	sw.	37	e.	9	14	8	9	5.2	0.0	0.0
Lynchburg	681	153	188	29.35	30.09	+.09	65.3	−2.0	91	31	77	42	17	54	32	58	54	71	3.06	−0.6	15	5,374	sw.	36	s.	2	5	19	7	5.7	0.0	0.0
Norfolk	91	170	205	30.01	30.11	+.11	66.6	+0.4	86	28	75	49	4	58	27	60	56	73	7.90	+4.1	14	9,219	sw.	57	w.	19	12	7	12	5.5	0.0	0.0
Richmond	144	11	52	29.94	30.09	+.10	65.8	−0.7	88	31	76	45	17	56	31	59	55	74	4.00	+0.2	14	5,718	sw.	39	w.	3	12	14	5	4.7	0.0	0.0
Wytheville	2,304	49	55	27.73	30.08	+.09	59.8	−1.6	86	31	71	36	3	48	36	54	51	75	3.64	0.0	19	3,984	w.	32	w.	2	6	16	9	5.9	T.	0.0
South Atlantic States							**69.7**	**−0.4**										**76**	**5.20**	**+1.7**										**5.6**		
Asheville	2,253	70	84	27.77	30.10	+.11	62.2	−0.4	83	31	72	38	3	53	33	56	53	78	5.16	+1.7	16	5,702	se.	35	s.	2	6	17	8	5.7	T.	0.0
Charlotte	779	55	62	29.27	30.10	+.11	68.7	−0.2	89	31	79	43	3	58	30	60	56	71	5.90	+2.3	12	2,979	sw.	24	w.	16	7	11	13	6.1	0.0	0.0
Greensboro	886	5	56	29.16	30.11	----	65.5	----	88	31	77	42	23	54	33	59	56	77	3.88	----	13	6,010	sw.	35	w.	2	8	6	17	6.6	0.0	0.0
Hatteras	11	11	50	30.10	30.11	+.10	69.6	+0.9	82	27	75	55	3	64	17	65	62	76	4.86	+1.2	11	8,661	sw.	46	w.	3	13	12	6	4.2	0.0	0.0
Raleigh	376	103	110	29.70	30.10	+.11	67.6	−0.9	88	13	78	45	3	58	28	61	58	76	6.05	+2.2	13	5,098	sw.	36	se.	29	7	9	15	6.0	0.0	0.0
Wilmington	78	81	91	30.05	30.13	+.12	69.6	−1.2	85	25	78	48	10	61	23	65	63	81	5.25	+1.8	11	5,009	sw.	35	sw.	2	12	11	8	5.0	0.0	0.0
Charleston	48	11	92	30.07	30.12	+.11	72.0	−0.7	89	7	78	50	3	66	23	67	64	76	4.30	+1.3	9	7,146	s.	36	s.	2	10	13	8	4.9	0.0	0.0
Columbia, S. C.	351	41	57	29.74	30.12	+.12	70.6	−1.3	88	15	80	47	3	61	32	64	61	78	5.49	+2.4	13	4,739	s.	37	s.	2	9	14	8	5.3	0.0	0.0
Due West	711	10	55	29.37	30.14	----	68.2	----	85	16	78	42	3	59	30	----	----	----	4.99	----	12	5,730	sw.	40	w.	2	6	11	14	6.4	0.0	0.0
Greenville, S. C.	1,039	139	146	29.01	30.10	----	67.4	+0.2	87	31	76	42	3	58	29	66	56	73	3.66	−0.4	16	5,562	s.	42	w.	2	8	11	12	6.0	0.0	0.0
Augusta	182	62	77	29.90	30.09	+.10	72.2	−0.2	91	18	83	48	3	62	33	64	60	72	6.85	+3.8	13	3,494	s.	30	sw.	2	7	16	8	5.6	0.0	0.0
Savannah	65	150	194	30.05	30.12	+.12	72.7	−0.7	89	7	80	50	3	65	24	67	64	78	3.65	+0.6	8	7,534	se.	42	w.	2	10	11	10	5.5	0.0	0.0
Jacksonville	43	209	245	30.05	30.10	+.10	74.6	−0.4	89	17	82	51	3	68	23	68	65	76	6.09	+2.1	10	7,614	e.	46	sw.	2	10	12	9	5.2	0.0	0.0
Florida Peninsula							**78.9**	**+1.6**										**74**	**5.73**	**+1.5**										**4.6**		
Key West	22	10	64	30.02	30.04	+.07	80.4	+1.3	89	20	86	69	10	75	17	73	71	74	5.95	+2.4	17	7,743	e.	22	nw.	3	16	13	2	3.7	0.0	0.0
Miami	25	71	164	30.06	30.08	+.08	78.2	+1.8	87	2	82	67	3	74	16	72	70	74	6.96	+0.7	17	7,841	e.	31	s.	2	6	18	7	5.8	0.0	0.0
Tampa	35	79	87	30.04	30.08	+.09	78.0	+1.7	92	10	87	54	4	69	25	70	67	75	4.27	+1.3	11	4,569	e.	24	sw.	2	8	18	5	5.1	0.0	0.0
Titusville	44	5	----	30.05	30.10	----	77.0	----	94	2	85	50	4	69	29	----	----	----	7.20	----	9	----	s.	----	----	----	19	9	3	3.9	0.0	0.0
East Gulf States							**72.5**	**0.0**										**78**	**5.18**	**+1.3**										**5.7**		
Atlanta	1,173	190	216	28.87	30.10	+.11	68.8	−1.1	89	30	77	42	3	60	24	63	60	77	6.10	+2.6	11	6,704	s.	42	w.	2	7	10	14	6.2	0.0	0.0
Macon	370	78	87	29.70	30.10	+.11	72.2	−0.1	90	15	82	45	4	62	28	64	60	69	2.52	−0.4	10	4,188	s.	31	sw.	2	11	6	14	5.5	0.0	0.0
Thomasville	273	49	58	29.80	30.09	+.10	74.0	0.0	92	30	84	49	3	64	27	67	63	74	3.92	+0.3	8	3,032	e.	19	sw.	2	4	18	9	6.3	0.0	0.0
Apalachicola	36	42	49	30.04	30.08	----	74.4	----	88	30	80	54	3	69	21	70	68	79	2.15	−1.2	7	5,470	se.	24	w.	2	16	12	3	3.8	0.0	0.0
Pensacola	56	149	185	30.01	30.07	+.08	74.6	+0.7	86	31	78	56	3	71	20	70	68	82	2.06	−1.3	5	9,678	s.	56	sw.	2	5	11	15	6.4	0.0	0.0
Anniston	741	9	57	29.32	30.10	+.11	68.8	+0.4	92	30	79	39	3	58	30	----	----	----	6.25	+2.3	15	3,089	se.	21	sw.	2	14	8	9	4.8	0.0	0.0
Birmingham	700	11	48	29.32	30.08	+.10	70.0	−1.1	92	31	79	42	3	61	29	64	61	79	10.20	+6.2	15	4,694	se.	24	w.	2	9	6	16	6.2	0.0	0.0
Mobile	57	125	161	30.00	30.06	+.07	74.8	+0.4	94	31	82	51	3	68	27	69	67	82	5.21	+0.9	9	7,189	s.	27	se.	31	7	15	9	5.5	0.0	0.0
Montgomery	223	100	112	29.83	30.08	+.09	72.8	−0.6	93	30	82	49	3	64	26	66	63	76	7.27	+3.4	11	4,612	se.	27	sw.	2	9	12	10	5.8	0.0	0.0
Corinth	469	6	----	----	----	----	70.0	----	95	31	80	42	3	60	31	----	----	----	8.46	----	15	----	s.	----	----	----	3	24	4	----	0.0	0.0
Meridian	375	87	95	29.65	30.04	+.06	72.6	+1.3	92	31	81	44	3	64	26	66	63	77	5.55	+1.2	11	4,037	s.	25	w.	2	6	9	16	6.4	0.0	0.0
Vicksburg	247	65	73	29.78	30.06	+.09	72.5	−0.4	90	31	81	47	3	64	28	66	62	78	3.32	−1.0	12	4,646	se.	30	s.	1	8	14	9	5.5	0.0	0.0
New Orleans	53	76	84	29.99	30.04	+.07	76.2	+0.8	94	31	84	57	2	69	22	70	68	82	7.62	+3.0	15	4,255	se.	22	sw.	18	5	13	13	6.5	0.0	0.0
West Gulf States							**72.2**	**−1.2**										**77**	**8.96**	**+4.9**										**6.0**		
Shreveport	249	77	93	29.74	30.01	+.06	72.5	−1.1	91	31	82	51	2	64	32	66	63	80	3.48	−0.7	13	4,432	se.	28	nw.	1	7	16	8	5.7	0.0	0.0
Bentonville	1,303	11	44	28.64	29.99	+.06	62.9	−3.5	86	31	72	39	2	53	32	----	----	----	9.23	----	16	3,981	s.	27	se.	9	18	9	4	----	0.0	0.0
Fort Smith	457	79	94	29.51	29.99	+.06	67.2	−2.4	88	31	76	41	3	58	37	61	58	76	7.10	+2.3	11	5,465	e.	62	nw.	1	6	9	16	6.8	0.0	0.0
Little Rock	357	136	153	29.64	30.01	+.06	67.7	−2.6	91	31	77	41	3	59	32	61	58	76	6.20	+1.4	14	6,233	s.	34	w.	1	3	12	16	7.0	0.0	0.0
Austin	605	136	148	29.31	29.94	----	74.0	−0.6	98	1	84	45	3	64	43	66	62	74	12.75	+8.1	14	6,295	se.	45	nw.	1	5	12	14	6.2	0.0	0.0
Brownsville	57	83	100	29.86	29.92	----	78.7	+0.1	90	24	85	60	3	72	20	71	69	80	8.60	+6.3	8	8,884	se.	32	n.	2	9	17	5	4.9	0.0	0.0
Corpus Christi	20	11	78	29.92	29.94	+.04	77.4	+1.2	89	1	82	57	2	72	22	72	70	82	5.34	+2.1	9	9,652	se.	33	nw.	2	6	6	19	7.3	0.0	0.0
Dallas	512	220	227	29.42	29.96	----	70.4	----	90	8	79	48	2	62	39	----	----	----	10.38	+5.9	14	9,377	se.	68	w.	1	10	12	9	5.2	0.0	0.0
Fort Worth	670	106	114	29.24	29.94	+.03	70.8	−1.5	90	5	80	48	2	62	39	63	59	73	5.83	+1.2	15	6,956	se.	36	nw.	1	5	7	19	6.7	0.0	0.0
Galveston	54	106	114	29.94	30.00	+.06	74.6	−0.2	82	17	79	53	2	70	19	70	68	83	10.50	+7.1	11	9,405	se.	37	nw.	2	8	15	8	5.4	0.0	0.0
Groesbeck	461	11	56	29.48	29.95	----	71.7	----	93	1	80	44	3	63	42	----	----	----	16.59	+12.5	14	8,117	se.	36	nw.	1	5	16	10	6.0	0.0	0.0
Houston	138	292	314	29.85	29.99	----	74.0	−1.5	89	8	82	51	2	66	21	----	----	----	12.03	+7.5	13	9,451	se.	39	nw.	1	7	12	12	5.9	0.0	0.0
Palestine	510	64	72	29.46	29.99	+.06	71.1	−1.6	89	8	80	47	3	62	40	65	62	77	8.55	+4.0	14	5,624	s.	32	nw.	1	6	9	16	6.6	0.0	0.0
Port Arthur	34	58	66	29.96	30.00	----	75.0	----	87	31	81	51	2	69	20	----	----	----	6.47	----	10	5,607	se.	28	s.	26	10	11	10	5.3	0.0	0.0
San Antonio	693	119	132	29.21	29.93	+.03	74.7	−0.4	99	1	85	48	3	64	44	66	62	73	7.73	+4.5	14	5,665	se.	38	nw.	1	6	15	10	5.5	0.0	0.0
Taylor	583	55	63	29.38	29.99	+.08	72.8	−1.5	98	1	83	47	3	63	46	----	----	----	10.34	+6.3	12	6,698	se.	34	nw.	1	5	17	9	5.8	0.0	0.0

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

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.	°F	°F	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee							62.7	−2.2										72	6.90	+3.1										6.4		
Chattanooga	762	190	215	29.27	30.08	+.09	67.8	−1.0	90	31	77	40	2	59	35	60	56	72	12.00	+8.2	15	5,114	se.	34	sw.	2	4	14	13	6.2	0.0	0.0
Knoxville	995	102	111	29.03	30.08	+.09	66.2	−1.0	88	28	76	40	2	57	32	60	56	74	7.66	+3.9	14	4,523	sw.	37	sw.	2	3	14	14	6.9	0.0	0.0
Memphis	399	76	97	29.61	30.03	+.07	68.8	−1.8	92	30	77	44	2	60	30	62	59	74	4.88	+0.7	14	5,170	sw.	37	w.	2	5	9	17	6.7	0.0	0.0
Nashville	546	168	191	29.50	30.08	+.10	66.6	−1.6	91	31	76	41	3	57	33	60	55	71	6.46	+2.6	12	6,251	s.	38	nw.	2	7	11	13	6.2	0.0	0.0
Lexington	989	193	230	29.02	30.09	+.10	62.2	−2.1	88	30	72	33	2	53	35	----	----	----	5.59	+1.8	13	8,685	sw.	46	sw.	2	9	11	11	5.4	T.	0.0
Louisville	525	188	234	29.50	30.08	+.10	63.6	−3.0	91	30	73	36	2	55	30	57	54	75	7.16	+3.4	15	6,982	n.	39	w.	2	8	8	15	6.2	0.0	0.0
Evansville	431	76	116	29.62	30.08	+.11	63.8	−2.9	92	30	72	35	2	55	29	58	54	75	6.27	+2.4	14	5,937	s.	35	sw.	2	8	10	13	6.2	T.	0.0
Indianapolis	822	194	230	29.18	30.06	+.09	59.4	−3.5	89	30	68	34	2	51	27	53	48	70	8.46	+4.6	16	7,515	s.	42	nw.	2	6	11	14	6.4	0.2	0.0
Royal Center	736	11	55	29.26	30.07	------	56.0	------	87	29	66	32	2	46	30	----	----	----	4.82	+0.8	12	7,055	s.	46	w.	11	4	15	12	6.5	0.2	0.0
Terre Haute	575	96	129	29.44	30.06	------	60.1	------	88	30	69	34	2	51	34	54	50	73	8.95	+5.1	11	6,342	s.	31	w.	15	6	13	12	6.5	T.	0.0
Cincinnati	627	11	51	29.40	30.08	+.09	60.6	−2.5	90	30	70	35	2	51	33	55	51	75	7.74	+4.0	16	4,471	sw.	27	sw.	2	8	8	15	6.4	T.	0.0
Columbus	822	179	222	29.20	30.08	+.10	59.7	−2.6	89	30	69	33	2	51	33	54	49	71	4.55	+1.0	16	6,736	nw.	42	w.	3	9	11	11	5.6	T.	0.0
Dayton	899	137	173	29.11	30.06	------	60.0	−2.6	92	30	69	33	2	51	30	54	49	72	7.41	+3.8	16	5,799	sw.	36	sw.	2	7	12	12	6.4	T.	0.0
Elkins	1,947	59	67	28.05	30.08	+.08	57.6	−1.6	84	26	69	30	17	46	43	53	49	77	8.09	+4.0	23	3,819	w.	30	w.	2	3	7	21	7.9	T.	0.0
Parkersburg	637	77	82	29.43	30.09	+.10	61.6	−2.2	89	27	72	38	3	51	35	54	49	69	5.02	+1.6	19	3,678	nw.	27	w.	3	8	7	16	6.6	T.	0.0
Pittsburgh	842	353	410	29.16	30.06	+.07	59.5	−2.9	93	30	69	33	3	50	34	53	47	67	5.38	+2.2	16	6,811	sw.	40	w.	3	6	12	13	6.3	T.	0.0
Lower Lake Region							55.5	−1.9										71	3.81	+0.6										5.8		
Buffalo	767	247	280	29.20	30.03	+.06	52.8	−1.8	86	27	61	34	4	45	30	48	44	75	2.79	−0.3	14	11,016	sw.	58	w.	3	7	15	9	5.5	T.	0.0
Canton	448	10	61	29.51	29.99	------	53.6	−2.6	88	28	64	33	20	43	31	----	----	----	4.04	+1.0	12	7,482	w.	46	sw.	3	11	8	12	5.5	T.	0.0
Ithaca	836	5	100	29.14	30.05	------	53.8	------	89	30	62	30	10	42	40	49	45	72	5.47	+2.1	16	6,016	nw.	40	se.	2	5	7	19	6.5	T.	0.0
Oswego	335	76	91	29.66	30.03	+.06	52.6	−2.6	82	30	62	33	20	44	33	48	42	69	4.03	+1.0	13	5,996	w.	34	w.	16	7	11	13	6.0	T.	0.0
Rochester	523	86	102	29.47	30.05	+.08	55.6	−1.5	92	30	66	34	4	45	31	48	42	64	2.20	−0.7	15	5,764	w.	36	w.	16	7	13	11	6.2	T.	0.0
Syracuse	596	65	79	29.40	30.04	+.06	56.4	−0.9	90	30	66	35	10	47	33	----	----	----	3.61	+0.6	15	5,015	s.	26	sw.	16	5	12	14	6.4	T.	0.0
Erie	714	130	166	29.28	30.06	+.08	55.9	−0.9	87	30	64	35	20	47	32	50	45	71	3.89	+0.5	12	8,150	w.	43	sw.	3	9	15	7	4.9	T.	0.0
Cleveland	762	190	201	29.24	30.06	+.08	56.4	−1.5	87	30	64	34	3	48	32	50	45	67	3.41	+0.3	14	7,510	sw.	40	w.	16	7	16	8	5.7	T.	0.0
Sandusky	629	5	67	29.39	30.07	+.09	57.0	−2.2	89	30	66	35	8	48	36	----	----	----	4.43	+1.3	16	5,960	sw.	33	nw.	3	4	15	12	6.0	T.	0.0
Toledo	628	208	243	29.38	30.07	+.10	57.0	−2.4	91	30	66	34	2	48	32	51	46	69	3.62	+0.1	15	9,012	sw.	40	sw.	11	13	10	8	4.7	0.0	0.0
Fort Wayne	856	113	124	29.13	30.06	------	57.4	−2.8	89	29	67	34	3	48	29	52	47	72	4.69	+0.8	13	6,187	sw.	32	ne.	2	5	15	11	6.1	T.	0.0
Detroit	730	218	258	29.27	30.06	+.09	56.2	−1.8	92	29	66	35	3	47	29	51	49	80	3.59	+0.4	12	7,031	sw.	38	nw.	16	10	8	13	5.8	T.	0.0
Upper Lake Region							50.6	−2.1										69	2.92	−0.3										5.4		
Alpena	609	13	92	29.37	30.04	+.07	47.8	−2.7	89	30	57	31	9	39	36	43	37	67	3.84	+0.8	9	7,870	nw.	44	nw.	16	11	14	6	4.8	9.7	0.0
Escanaba	612	54	60	29.37	30.04	+.07	46.9	−2.7	83	30	55	30	16	39	32	42	37	70	2.25	−0.7	8	7,276	s.	35	n.	16	12	8	11	4.8	0.3	0.0
Grand Haven	632	54	89	29.36	30.05	+.09	51.4	−3.1	83	29	60	33	3	43	29	47	42	71	3.88	+0.7	8	7,694	s.	37	w.	15	7	17	7	5.5	T.	0.0
Grand Rapids	707	70	87	29.29	30.06	+.09	54.8	−3.2	88	29	65	32	2	45	34	48	42	63	6.31	+2.9	10	4,276	w.	27	w.	16	8	8	15	6.2	3.0	0.0
Houghton	668	64	99	29.28	30.01	+.04	48.0	−1.5	85	28	58	27	15	38	34	----	----	----	1.96	−1.1	10	7,708	w.	35	w.	4	8	12	11	5.9	5.1	0.0
Lansing	878	6	49	29.11	30.06	------	53.7	−3.2	86	29	64	30	8	43	34	49	45	75	3.98	+0.6	11	4,235	w.	29	w.	11	9	13	9	5.4	2.6	0.0
Ludington	637	60	66	29.34	30.04	------	48.6	------	79	29	56	32	16	41	31	46	43	80	2.46	−0.6	7	6,977	s.	29	sw.	11	11	13	7	4.6	T.	0.0
Marquette	734	77	111	29.22	30.03	+.06	48.7	−0.3	91	29	58	27	16	40	33	43	36	63	2.59	−0.4	10	7,967	nw.	37	sw.	22	9	8	14	6.1	8.0	0.0
Port Huron	638	70	120	29.35	30.05	+.08	52.8	−2.4	89	29	62	33	8	44	32	47	42	69	2.56	−0.4	9	8,066	ne.	40	n.	2	8	18	5	4.5	T.	0.0
Sault Sainte Marie	614	11	52	29.33	30.03	+.08	56.5	−2.5	86	29	56	26	16	37	34	41	36	72	3.15	+0.1	12	6,415	nw.	32	nw.	3	10	13	8	5.0	7.9	0.0
Chicago	673	7	131	29.34	30.06	+.10	56.8	−0.7	90	29	65	35	3	48	36	51	45	69	2.29	−1.2	8	7,393	sw.	35	sw.	15	7	9	15	6.4	T.	0.0
Green Bay	617	109	141	29.36	30.03	+.08	51.8	−3.1	86	29	62	28	15	42	49	47	42	70	1.70	−1.8	9	7,852	s.	33	sw.	15	8	11	12	5.8	0.1	0.0
Milwaukee	681	125	221	29.32	30.05	+.09	53.0	−1.1	87	28	63	33	3	43	39	46	40	65	2.01	−1.3	7	8,465	w.	38	sw.	15	11	8	12	5.2	T.	0.0
Duluth	1,122	5	47	28.80	30.04	+.08	46.2	−1.1	81	28	56	20	16	36	38	40	34	66	1.97	−1.3	8	8,371	nw.	30	nw.	15	12	10	9	4.9	1.1	0.0
North Dakota							49.4	−4.6										58	2.15	−0.4										4.1		
Moorhead	940	50	58	29.00	30.02	+.08	50.6	−4.5	87	25	63	23	5	38	42	43	34	57	1.13	−1.8	6	6,920	n.	25	sw.	29	14	12	5	4.0	T.	0.0
Bismarck	1,674	8	57	28.20	30.00	+.08	51.2	−3.3	81	13	64	23	5	38	44	43	34	59	2.37	0.0	9	6,941	n.	32	n.	29	12	14	5	4.1	1.0	0.0
Devils Lake	1,478	11	44	28.43	30.02	+.08	47.2	−5.4	87	25	60	17	5	34	41	40	32	60	2.17	+0.1	8	7,407	nw.	28	n.	15	16	10	5	4.1	T.	0.0
Ellendale	1,457	10	56	28.46	30.02	------	50.8	------	85	25	64	22	6	38	42	----	----	----	1.42	−1.7	11	10,384	nw.	49	sw.	29	12	12	7	4.4	0.5	0.0
Grand Forks	833	12	67	------	------	------	49.2	------	89	25	62	20	5	36	41	43	----	----	2.31	------	5	------	nw.	----	s.	13	19	7	5	----	T.	0.0
Williston	1,878	41	48	28.02	30.01	+.08	48.8	−5.2	86	24	62	20	6	36	41	41	31	57	3.64	+1.6	9	5,831	n.	27	se.	9	17	8	6	3.9	0.7	0.0
Upper Mississippi Valley							58.3	−3.1										67	3.61	−0.4										5.9		
Minneapolis	918	102	208	29.02	30.01	------	54.8	−2.9	89	28	65	29	3	45	32	----	----	----	1.91	−1.8	9	8,186	s.	27	se.	10	13	11	7	4.7	0.2	0.0
St. Paul	837	236	261	29.13	30.04	+.10	54.2	−3.7	86	28	64	28	3	44	31	----	----	----	1.97	−1.3	9	8,588	se.	34	sw.	22	12	10	9	4.9	T.	0.0
La Crosse	714	11	48	29.26	30.03	+.09	55.5	−3.8	87	28	66	32	4	45	33	49	41	62	3.39	−0.4	10	3,358	nw.	15	n.	2	12	7	12	5.2	0.0	0.0
Madison	974	70	78	29.01	30.06	+.10	54.6	−3.0	85	29	64	32	3	45	42	48	41	64	1.31	−2.5	10	5,679	nw.	26	s.	15	11	8	12	5.3	0.0	0.0
Wausau	1,247	4	64	28.70	30.02	------	52.0	------	86	28	63	28	19	40	40	----	----	----	3.04	−0.6	8	4,844	w.	22	sw.	22	13	8	10	4.8	0.3	0.0
Charles City	1,015	10	51	28.97	30.04	+.11	54.8	−3.0	87	28	66	30	3	44	33	49	43	64	3.24	−1.1	11	4,562	se.	20	n.	1	13	9	9	4.6	0.0	0.0
Davenport	606	71	79	29.39	30.05	+.10	59.6	−1.7	89	28	69	34	3	50	42	53	48	70	1.23	−2.7	8	6,892	nw.	33	nw.	15	7	11	13	6.2	0.0	0.0
Des Moines	861	84	97	29.12	30.03	+.10	59.2	−2.1	87	28	69	33	5	50	31	52	46	64	2.18	−2.4	11	5,055	n.	20	sw.	22	4	11	16	6.8	0.0	0.0
Dubuque	700	81	96	29.30	30.05	+.10	56.8	−3.5	87	29	67	33	3	47	40	50	42	61	1.39	−2.8	8	4,308	nw.	23	ne.	2	8	8	15	6.6	T.	0.0
Keokuk	614	64	78	29.39	30.06	+.12	60.4	−3.4	87	28	70	37	16	51	42	53	48	66	2.97	−1.0	15	4,643	s.	25	sw.	11	3	12	16	7.1	0.0	0.0
Cairo	358	87	93	29.67	30.05	+.09	65.5	−2.9	90	30	74	39	2	57	25	59	56	75	5.19	+1.5	13	6,234	s.	37	nw.	2	4	8	19	7.3	0.0	0.0
Peoria	609	11	45	29.41	30.07	+.11	59.4	−2.3	90	29	69	34	5	50	43	53	47	68	5.03	+1.0	14	4,337	s.	28	sw.	11	5	16	10	5.9	T.	0.0
Springfield, Ill	636	154	191	29.38	30.06	+.11	59.0	−4.2	88	29	68	32	2	50	38	54	50	73	6.32	+1.9	14	8,291	s.	39	w.	15	3	16	12	6.7	0.6	0.0
Hannibal	534	74	109	29.46	30.04	+.10	60.8	−2.8	88	29	70	38	16	52	42	----	----	----	4.92	+0.6	16	5,920	sw.	35	w.	15	4	12	15	6.9	0.0	0.0
St. Louis	568	265	303	29.44	30.05	+.10	62.2	−4.7	90	30	71	32	2	54	32	56	52	73	10.09	+5.8	15	7,988	s.	38	n.	2	9	10	12	5.9	4.0	0.0
Missouri Valley							59.2	−2.2										66	4.94	+1.0										5.8		
Columbia, Mo	784	6	84	29.20	30.03	+.09	61.0	−3.3	88	15	70	36	5	52	40	----	----	----	11.98	+7.5	18	5,055	e.	26	n.	2	6	8	17	6.7	0.0	0.0
Kansas City	963	161	181	28.99	30.02	+.10	61.2	−3.6	84	28	69	36	2	53	37	55	50	71	6.91	+2.3	14	6,628	e.	37	n.	1	4	14	13	6.4	0.0	0.0
St. Joseph	967	11	49	28.99	30.02	------	61.4	------	86	28	71	36	2	52	34	54	49	70	3.72	−0.5	12	5,470	se.	34	nw.	15	5	12	14	6.3	0.0	0.0
Springfield, Mo	1,324	98	104	28.63	30.03	+.10	61.1	−3.4	85	31	70	32	2	52	32	56	52	76	9.77	+4.6	15	7,060	se.	30	nw.	2	13	9	9	5.0	6.1	0.0
Joplin	984	11	50	28.96	30.00	+.08	61.6	−3.6	84	29	71	37	2	52	34	----	----	----	8.05	+3.4	16	4,380	s.	25	n.	1	6	10	15	6.6	0.0	0.0
Topeka	987	92	107	------	------	------	61.2	−3.1	83	24	70	35	2	52	34	----	----	----	5.96	+1.5	13	6,502	ne.	31	n.	2	7	7	17	6.4	0.0	0.0
Lincoln	1,189	11	81	28.75	30.01	+.10	60.0	−1.7	85	30	70	33	2	50	33	53	47	66	3.28	−0.8	9	6,564	s.	34	nw.	15	6	9	16	6.4	0.0	0.0
Omaha	1,105	115	122	28.85	30.02	+.10	60.8	−1.0	86	28	70	33	2	52	26	52	46	63	2.02	−1.8	11	5,306	se.	30	nw.	15	6	14	11	6.0	0.0	0.0
Valentine	2,598	47	54	27.29	30.00	+.10	55.5	−0.7	85	14	67	29	16	44	47	47	39	60	3.08	+0.3	16	6,976	n.	36	sw.	29	14	7	10	4.8	7.0	0.0
Sioux City	1,135	94	164	28.82	30.03	+.11	58.6	−1.8	88	30	69	29	2	48	34	50	43	62	1.73	−2.3	7	8,030	s.	37	nw.	15	7	16	8	5.7	0.0	0.0
Huron	1,306	59	74	28.63	30.04	+.12	55.2	−1.2	86	22	68	29	2	43	41	47	39	60	1.17	−1.8	7	7,020	s.	33	n.	15	16	9	6	4.0	T.	0.0
Pierre	1,572	70	75	------	30.00	+.09	56.6	−1.4	87	22	69	30	5	44	51	----	----	62	1.66	−0.5	10	6,944	se.	40	ne.	28	16	9	6	----	T.	0.0
Yankton	1,233	49	57	28.71	30.03	+.11	57.7	−1.7	88	14	70	28	2	46	37	----	----	----	4.94	+1.1	6	5,272	se.	26	nw.	15	5	17	9	5.9	0.0	0.0

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

District and station	Elevation of instruments: Barometer above sea level	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station, reduced to mean of 24 hours	Pressure: Sea level, reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max. + mean min. ÷ 2	Temperature of the air: Departure from normal	Temperature of the air: Maximum	Temperature of the air: Date	Temperature of the air: Mean maximum	Temperature of the air: Minimum	Temperature of the air: Date	Temperature of the air: Mean minimum	Temperature of the air: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with 0.01, or more	Wind: Total movement	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F.		° F.	° F.	° F	° F	° F.	° F.	° F.	%	In.	In.		Miles								0–10	In.	In.
Northern Slope							51.0	−1.8										59	1.94	−0.5										5.3		
Billings	3,140	5					52.8		91	23	70	16	8	35	55				1.25		7		nw.				12	10	9			0.0
Havre	2,505	11	44	27.35	29.99	+0.09	52.0	−1.4	86	23	66	24	6	38	40	43	34	61	1.90	−0.1	11	4,646	e.	40	sw.	24	12	10	9	5.1	T.	0.0
Helena	4,110	87	112	25.79	29.98	+.05	50.6	−1.0	84	22	63	26	15	38	36	43	37	66	0.88	−1.4	11	5,695	sw.	28	sw.	24	6	12	13	6.4	2.1	0.0
Kalispell	2,973	48	56	26.90	29.95	+.07	50.9	−0.5	83	31	63	29	6	39	37	42	32	55	0.69	−0.8	9	4,113	nw.	22	ne.	14	9	13	9	5.3	0.0	0.0
Miles City	2,371	48	55	27.47	30.02	+.11	53.3	−3.4	92	24	66	26	6	41	39	44	33	54	2.24	0.0	9	3,646	ne.	29	nw.	14	12	12	7	4.5	T.	0.0
Rapid City	3,259	50	58	26.60	30.01	+.11	52.0	−2.0	86	24	64	31	8	41	49	44	35	55	4.21	+0.6	13	5,623	n.	31	s.	20	11	12	8	4.9	3.8	0.0
Cheyenne	6,088	84	101	24.00	29.95	+.10	48.0	−2.3	75	14	60	24	1	36	37	40	34	64	1.46	−1.0	10	8,232	s.	39	w.	26	7	8	16	6.4	0.5	0.0
Lander	5,372	60	68	24.63	29.96	+.08	50.6	−0.6	83	23	64	25	6	37	41	41	32	57	1.84	−0.4	5	3,967	w.	52	sw.	14	14	12	5	4.0	3.8	0.0
Sheridan	3,790	10	47	26.10	29.99		50.4		89	24	65	22	8	36	46	42	33	60	2.55	−0.1	11	3,814	nw.	35	nw.	14	12	15	4	4.8	3.4	0.0
Yellowstone Park	6,241	11	48	23.88	29.99	+.08	43.7	−3.7	76	23	56	22	8	31	39	35	27	57	1.04	−1.2	11	4,987	sw.	32	sw.	24	5	13	13	6.2	9.4	0.0
North Platte	2,821	11	51	27.07	29.98	+.10	57.5	−1.2	90	14	69	30	2	46	41	49	43	65	2.58	−0.2	10	5,590	s.	27	nw.	15	11	11	9	5.3	0.0	0.0
Middle Slope							60.2	−2.3										68	4.06	+0.5										6.5		
Denver	5,292	106	113	24.72	29.95	+.11	54.4	−1.8	82	14	66	29	1	43	35	44	35	55	1.65	−0.6	12	5,224	s.	32	n.	5	8	10	13	5.7	0.4	0.0
Pueblo	4,685	80	86	25.27	29.91	+.08	59.0	−0.2	85	14	72	30	2	46	44	46	36	52	1.11	−0.5	8	4,819	e.	26	s.	26	8	14	9	5.3	0.0	0.0
Concordia	1,392	50	58	28.56	30.03	+.12	60.0	−3.2	83	27	69	34	2	51	30	55	51	74	3.56	−0.6	13	5,752	s.	23	nw.	15	2	12	17	7.3	0.0	0.0
Dodge City	2,509	11	51	27.41	29.99	+.12	61.1	−2.4	87	27	71	32	2	51	34	54	49	74	2.61	−0.3	10	7,296	se.	30	se.	26	7	12	12	5.9	0.0	0.0
Wichita	1,358	139	158	28.56	29.99	+.09	61.8	−3.3	82	29	70	36	2	54	26	56	53	77	5.84	+1.4	15	8,469	s.	34	s.	11	7	11	13	6.4	0.0	0.0
Broken Arrow	765	11	56	29.17	30.00		64.0		83	15	72	41	2	56	32				7.02	+2.3	14	8,765	s.	42	n.	1	3	9	19	7.7	T.	0.0
Oklahoma City	1,214	10	47	28.70	29.97	+.08	64.7	−3.0	85	15	73	40	1	56	33	59	55	78	6.67	+1.8	12	6,595	s.	40	nw.	17	4	11	16	7.1	0.0	0.0
Southern Slope							68.3	−2.3										62	3.53	+0.8										5.7		
Abilene	1,738	10	52	28.14	29.92	+.05	70.4	−1.6	98	5	81	44	2	60	38	60	53	64	4.22	+0.3	11	7,461	se.	32	nw.	1	7	10	14	6.4	0.0	0.0
Amarillo	3,676	10	49	26.26	29.95	+.11	61.8	−2.3	87	27	72	34	2	51	38	54	50	71	3.19	+0.4	12	7,040	s.	26	nw.	1	6	10	15	6.4	T.	0.0
Del Rio	944	64	71	28.90	29.87	+.02	75.9	−1.1	101	4	86	53	2	66	41	65	58	60	4.41	+1.5	9	7,217	se.	46	nw.	17	8	13	10	5.3	0.0	0.0
Roswell	3,566	75	85	26.32	29.88	+.06	65.2	−4.2	93	10	78	31	2	52	46	52	41	53	2.30	+1.2	7	6,272	s.	33	nw.	1	13	10	8	4.6	0.0	0.0
Southern Plateau							66.6	+1.2										37	1.43	+1.1										2.6		
El Paso	3,778	152	175	26.12	29.83	+.05	71.1	−0.4	95	10	84	43	2	58	37	52	32	35	1.51	+1.2	10	8,895	e.	46	nw.	17	21	10	0	2.4	0.0	0.0
Santa Fe	7,013	38	53	23.24	29.84	+.03	54.2	−1.5	78	10	66	23	2	42	40	43	32	52	5.58	+4.3	13	4,921	se.	33	ne.	16	12	10	9	4.9	0.2	0.0
Flagstaff	6,907	10	59	23.33	29.82	+.04	51.4	+0.7	75	9	68	22	2	35	46	39		45	0.38		4		sw.		sw.	26	17	10	4		T.	0.0
Phoenix	1,108	10	107	28.65	29.78	.00	78.0	+3.0	100	19	94	51	2	62	42	54	30	21	0.01	−0.1	1	4,308	w.	24	w.	26	20	9	2	2.4	0.0	0.0
Yuma	141	9	54	29.64	29.78	−.01	78.2	+2.0	102	18	96	52	28	60	44	57	36	30	0.02	0.0	1	3,456	w.	27	n.	11	29	2	0	0.7	0.0	0.0
Independence	3,957	6	27	25.91	29.89	+.05	66.6	+3.6	92	24	82	40	27	51	41	46			0.05	−0.1	1		nw.				18	9	4		0.0	0.0
Middle Plateau							57.3	+1.4										41	0.16	−0.8										4.3		
Reno	4,532	74	81	25.44	29.90	−.01	57.6	+4.0	86	22	73	31	1	42	43	43	29	40	0.01	−0.6	1	5,266	w.	33	w.	4	16	13	2	3.8	T.	0.0
Tonopah	6,090	12	20																													
Winnemucca	4,344	18	56	25.60	29.96	+.05	55.6	+1.7	88	23	72	26	1	39	46	43	33	52	0.06	−0.8	2	4,731	ne.	25	nw.	2	13	17	1	3.9	T.	0.0
Modena	5,473	10	43	24.55	29.83	+.01	55.2	+1.7	83	24	72	26	1	38	43	40	21	31	0.09	−0.7	5	7,408	w.	42	sw.	25	11	14	6	4.4	T.	0.0
Salt Lake City	4,360	163	203	25.57	29.90	+.04	58.2	+0.8	86	24	69	34	26	48	31	45	31	39	0.18	−1.7	2	5,146	nw.	27	e.	20	13	9	9	4.7	T.	0.0
Grand Junction	4,602	60	68	25.32	29.86	+.03	60.0	−1.1	85	30	73	33	1	47	38	46	32	43	0.45	−0.4	8	4,309	se.	29	sw.	31	12	11	8	4.9	0.0	0.0
Northern Plateau							56.7	+0.5										50	0.54	−1.0										5.1		
Baker	3,471	48	53	26.45	30.03	+.07	51.0	−0.7	85	22	65	30	1	37	43	41	31	53	0.59	−1.0	7	4,232	se.	22	sw.	23	9	10	12	5.7	T.	0.0
Boise	2,739	78	86	27.13	29.98	+.04	57.8	+0.7	89	22	71	32	10	45	37	48	39	55	0.14	−1.3	2	4,222	nw.	29	e.	23	9	17	5	4.7	0.0	0.0
Lewiston	757	40	48	29.20	30.01	+.05	60.2	+0.7	93	21	74	37	1	46	47				0.56	−1.0	8	2,674	e.	25	nw.	24	10	8	13	5.7	0.0	0.0
Pocatello	4,477	60	68	25.43	29.93	+.04	54.0	+0.2	82	23	67	27	1	41	41	41	28	43	0.40	−1.1	6	5,737	se.	30	sw.	3	9	18	4	4.8	T.	0.0
Spokane	1,929	101	110	27.95	29.99	+.03	56.8	+1.3	88	21	69	35	7	44	39	45	34	50	0.72	−0.7	5	4,295	s.	27	sw.	24	9	12	10	5.2	0.0	0.0
Walla Walla	991	57	65	28.94	30.00	+.04	60.4	+0.8	89	21	72	41	26	49	36	48	37	47	0.80	−0.8	8	3,316	s.	23	w.	24	14	10	7	4.5	0.0	0.0
North Pacific Coast Region							53.8	+0.2										68	1.20	−0.9										5.8		
North Head	211	11	56	29.92	30.15	−.12	49.6	+1.3	58	17	53	43	1	46	13	47	45	87	1.20	−1.8	11	10,258	n.	40	s.	23	4	20	7	5.6	0.0	0.0
Port Angeles	29	8	53		30.12		50.0		66	22	58	37	3	42	25				0.62	−0.7	6	5,080	sw.	29	nw.	24	10	8	13		0.0	0.0
Seattle	125	215	250	29.95	30.08	+.07	54.6	+0.1	76	19	63	42	1	46	26	48	43	68	1.48	−0.4	13	5,062	s.	33	sw.	24	6	11	14	5.9	0.0	0.0
Tacoma	194	172	201	29.89	30.10	+.08	54.4	+0.3	78	19	63	40	1	46	29				1.58	−0.5	13	5,192	w.	29	sw.	24	5	13	13	6.2	0.0	0.0
Tatoosh Island	86	9	53	30.01	30.11	+.10	49.2	−0.4	58	18	53	42	12	46	12	47	46	92	2.77	−1.2	6	6,299	sw.	34	s.	23	3	5	23	8.0	0.0	0.0
Yakima	1,076	58	67	28.86	30.01		60.2		89	21	73	38	3	47	39	47	33	43	0.18	−0.4	2	4,812	nw.	25	w.	2	10	11	10	5.3	0.0	0.0
Medford	1,425	4	80	28.52	30.02		58.0		91	21	75	31	7	41	49	47	38	58	0.41		5		nw.	19	ne.	25	17	9	5	3.8	0.0	0.0
Portland, Oreg.	153	68	106	29.93	30.09	+.06	58.6	+1.7	82	19	68	43	14	49	31	50	44	63	1.14	−1.0	13	3,475	nw.	24	w.	31	6	8	17	6.7	T.	0.0
Roseburg	510	75	99	29.54	30.09	+.06	56.6	+0.6	87	11	70	35	7	43	45	48	40	63	0.65	−1.3	7	2,992	n.	18	w.	23	11	14	6	4.9	0.0	0.0
Middle Pacific Coast Region							60.4	+0.5										66	0.08	−0.9										3.7		
Eureka	62	73	89	30.04	30.11	+.06	51.6	+0.4	62	2	56	41	27	47	19	48	46	83	0.14	−1.7	5	5,131	n.	26	n.	26	11	7	13	5.5	0.0	0.0
Red Bluff	330	54	58	29.58	29.93	−.02	69.0	+2.7	102	21	84	46	6	54	43	54	39	41	0.12	−1.0	1	4,309	n.	23	nw.	25	18	8	5	3.3	0.0	0.0
Sacramento	69	106	117	29.85	29.93	−.01	64.5	+1.2	89	11	78	45	5	50	35	54	45	59	0.04	−0.7	1	6,192	s.	31	nw.	26	25	6	0	1.5	0.0	0.0
San Francisco	155	208	243	29.83	30.00	+.01	56.5	−0.3	81	11	63	47	6	50	31	51	48	79	0.01	−0.8	1	6,085	w.	30	w.	4	12	10	9	5.0	0.0	0.0
San Jose	141	12	110	29.84	30.00		60.2	−0.5	91	11	73	40	6	47	46				0.11	−0.4	1	4,291	nw.	29	nw.	26	21	6	4	3.0	0.0	0.0
South Pacific Coast Region							65.7	+2.3										61	0.02	−0.4										3.3		
Fresno	327	89	98	29.56	29.91	−.01	69.4	+2.3	96	22	84	47	6	54	36	54	40	42	0.01	−0.4	1	5,713	nw.	30	nw.	31	20	9	2	2.2	0.0	0.0
Los Angeles	338	159	191	29.59	29.96	+.01	65.0	+2.8	91	12	74	52	8	56	32	56	50	66	T.	−0.4	0	3,488	sw.	18	sw.	12	15	13	3	3.8	0.0	0.0
San Diego	87	62	70	29.85	29.94	−.01	62.7	+1.9	87	2	69	52	8	57	28	56	52	74	0.05	−0.3	2	4,506	w.	18	nw.	12	16	10	5	3.8	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.94	30.03		76.8	−1.8	87	30	81	67	28	72	14				7.97	+3.2	20	9,961	e.	28	e.	19	9	14	8	5.7	0.0	0.0
Panama Canal																																
Balboa Heights	118	7	97	[1] 29.74	[2] 29.83	.00	81.2	+0.5	93	13	88	72	20	74	19			[2] 82	4.04	−3.7	20	4,228	nw.	21	nw.	13	0	10	21	8.3	0.0	0.0
Cristobal	38	7	97	[1] 29.81	[2] 29.84	.00	81.7	+1.0	90	21	87	74	8	77	15	77	75	[2] 83	10.07	−2.3	23	,333	n.	23	n.	11	1	11	19	7.7	0.0	0.0
Alaska																																
Juneau	80	11	50	[1] 29.99	[1] 30.08		47.2		67	6	55	33	30	39	29	42	36	70	4.74		15	4,484	e.	19	e.	18	8	6	17	6.4	0.0	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[1] 30.01	[1] 30.05		75.4		83	20	80	67	8	71	14	68	64	70	0.77	−1.0	11	6,056	e.	23	ne.	14	13	13	5	4.5	0.0	0.0

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

[2] Observations taken bihourly.

TABLE 2.—*Data furnished by the Canadian Meteorological Service, May, 1929*

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	*Inches*	*Inches*	*Inches*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	° *F.*	*Inches*	*Inches*	*Inches*
Cape Race, N. F.	99				40.3		48.0	32.7	58	28	7.05		0.0
Sydney, C. B. I.	48	29.98	30.03	+0.06	46.7	+1.5	56.5	36.9	70	30	4.52	+0.75	1.0
Halifax, N. S.	88	29.94	30.05	+.07	50.4	+2.0	60.2	40.7	87	34	4.85	+0.59	0.0
Yarmouth, N. S.	65	29.91	29.98	.00	48.3	+0.7	55.5	41.2	71	33	4.31	+0.74	0.0
Charlottetown, P. E. I.	38	29.90	29.94	−.02	48.0	+1.1	55.4	40.6	77	30	4.68	+1.77	3.0
Chatham, N. B.	28	29.87	29.90	−.05	47.9	−0.6	58.1	37.7	82	27	3.15	−0.06	0.0
Father Point, Que.	20												
Quebec, Que.	296	29.64	29.96	+.02	50.2	+0.3	59.5	40.9	86	31	5.29	+2.21	0.7
Doucet, Que.	1,236				45.0		59.1	30.9	88	6	3.83		1.0
Montreal, Que.	187	29.75	29.96	+.02	54.3	−0.4	63.5	45.1	91	36	5.21	+2.26	T.
Ottawa, Ont.	236	29.71	29.97	+.03	54.3	−0.6	65.2	43.4	93	33	3.32	+0.73	T.
Kingston, Ont.	285	29.70	30.01	+.05	50.4	−2.5	57.6	43.2	78	34	3.52	+0.84	0.0
Toronto, Ont.	379	29.61	30.02	+.04	53.0	−0.2	62.1	43.8	91	33	3.77	+0.73	0.1
Cochrane, Ont.	930				43.3		53.8	32.8	88	16	4.61		21.2
White River, Ont.	1,244	28.65	29.98	+.03	41.7	−4.0	54.0	29.5	87	15	2.51	+0.56	8.0
London, Ont.	808				53.0		64.4	41.5	90	28	5.86		T.
Southampton, Ont.	656	29.31	30.03	+.07	47.9	−2.8	57.1	38.7	82	28	5.86	+3.42	T.
Parry Sound, Ont.	688	29.31	30.01	+.06	48.3	−2.8	57.5	39.1	80	30	4.24	+1.31	1.7
Port Arthur, Ont.	644	29.30	30.01	+.05	44.6	−1.3	54.1	35.2	74	19	1.28	−0.87	5.0
Winnipeg, Man.	760												
Minnedosa, Man.	1,690	28.20	30.04	+.08	45.5	−2.9	57.5	33.5	77	17	1.02	−0.43	1.5
Le Pas, Man.	860				43.7		57.0	30.4	79	18	0.25		T.
Qu'Appelle, Sask.	2,115	27.76	30.02	+.08	44.2	−5.6	56.2	32.2	75	15	1.91	+0.26	4.1
Moose Jaw, Sask.	1,759				47.9		62.3	33.5	85	11	1.73		3.7
Swift Current, Sask.	2,392	27.44	29.97	+.05	48.4	−2.3	64.0	32.8	90	10	2.23	+0.47	2.6
Medicine Hat, Alb.	2,144												
Calgary, Alb.	3,428												
Banff, Alb.	4,521												
Prince Albert, Sask.	1,450	28.48	30.07	+.12	47.1	−0.5	60.2	34.0	85	19	1.10	−0.16	0.4
Battleford, Sask.	1,592	28.27	30.01	+.09	48.9	−2.1	63.5	34.3	86	17	0.95	−0.67	1.0
Edmonton, Alb.	2,150												
Kamloops, B. C.	1,262												
Victoria, B. C.	230	29.82	30.08	+.08	52.2	−0.3	58.9	45.6	70	42	0.95	−0.53	0.0
Barkerville, B. C.	4,180												
Estevan Point, B. C.	20												
Prince Rupert, B. C.	170												
Hamilton, Ber.	151	30.12	30.28	+.22	72.2	+2.8	78.2	66.2	82	60	2.74	−1.92	0.0

LATE REPORTS, MARCH, 1929

Yarmouth, N. S.	65	29.72	29.79	−.16	32.4	+1.6	39.0	25.8	51	6	4.12	−0.88	21.4
Father Point, Que.	20	29.80	29.83	−.07	23.5	+3.2	31.5	15.5	44	−9	2.30	−0.43	23.0
Winnipeg, Man.	760	29.03	29.89	−.20	23.6	+11.3	33.2	14.0	62	−18	1.28	+0.25	9.4
Medicine Hat, Alb.	2,144	27.47	29.75	−.25	35.4	+7.9	45.9	24.9	67	5	0.18	−0.58	1.8
Calgary, Alb.	3,428	26.20	29.82	−.13	33.3	+7.1	45.3	21.3	61	1	0.54	−0.18	5.4
Banff, Alb.	4,521	25.18	29.83	−.11	30.7	+10.5	41.1	20.3	52	4	1.13	−0.28	10.0
Edmonton, Alb.	2,150	27.45	29.77	−.19	29.4	+5.2	38.8	20.1	53	−7	0.78	+0.06	2.1
Kamloops, B. C.	1,262	28.60	29.91	−.01	41.3	+5.2	50.5	32.2	61	25	1.12	+0.55	0.5

LATE REPORTS, APRIL, 1929

Sydney, C. B. I.	48	29.88	29.93	+.04	34.6	−0.4	42.3	26.9	61	16	4.22	+0.37	16.0
Halifax, N. S.	88	29.83	29.94	−.02	38.4	+0.6	46.3	30.5	60	20	6.79	+2.61	4.0
Yarmouth, N. S.	65	29.78	29.85	−.11	39.0	+0.1	45.4	32.6	58	24	4.50	+0.68	16.4
Charlottetown, P. E. I.	38	29.82	29.86	−.04	35.5	+0.3	40.9	30.0	57	20	1.92	−0.73	2.5
Chatham, N. B.	28	29.80	29.83	−.07	34.8	−0.7	43.1	26.6	67	17	3.43	+0.80	0.3
Father Point, Que.	20	29.88	29.90	−.03	32.3	−0.9	39.7	25.0	65	10	4.66	+3.08	38.2
Winnipeg, Man.	760	29.09	29.93	−.09	40.1	+4.2	50.2	30.1	66	14	1.13	+0.08	1.3
Medicine Hat, Alb.	2,144	27.54	29.81	−.11	39.6	−4.9	51.4	27.8	70	4	2.44	+1.70	13.1
Calgary, Alb.	3,428	26.28	29.89	−.01	35.8	−3.8	48.6	23.0	71	8	1.42	+0.78	14.2
Banff, Alb.	4,521	25.24	29.88	−.02	32.2	−3.1	44.0	20.5	65	−3	1.50	+0.42	12.0
Kamloops, B. C.	1,262	28.59	29.89	−.04	46.4	−2.5	57.1	35.7	76	19	0.76	+0.37	0.6
Barkerville, B. C.	4,180	25.52	29.87	+.01	29.3	−3.8	39.1	19.5	54	−10	2.76	+0.94	23.4
Estevan Point, B. C.	20				42.0		48.8	35.2	56	27	7.35		7.8
Prince Rupert, B. C.	170				42.0		49.9	34.2	65	22	2.24		9.6
Hamilton, Ber.	151	30.00	30.16	+.11	67.2	+3.3	73.0	61.4	78	54	3.24	−0.94	0.0

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