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, September, 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	73.7	−1.7	2 stations	98	[2] 14	St. Bernard	36	25	2.91	−0.36	Ozark	8.85	Dancy	0.18
Arizona	75.4	+1.5	Maricopa	115	17	Bright Angel Ranger Station.	25	14	0.46	−0.87	Bright Angel Ranger Station.	1.99	10 stations	0.00
Arkansas	70.5	−3.7	Texarkana	101	15	Dutton	32	24	0.45	−2.98	Wynne	2.60	12 stations	0.00
California	68.4	+0.8	Greenland Ranch	117	6	Helm Creek	16	30	0.06	−0.49	Crescent City	1.55	170 stations	0.00
Colorado	57.4	−0.2	Lamar	101	[2] 7	2 stations	12	[2] 14	0.49	−0.87	Auldhurst	2.20	3 stations	0.00
Florida	79.1	−0.3	2 stations	99	2	3 stations	48	25	11.61	+4.95	Hastings	20.82	Bluff Springs	4.75
Georgia	73.5	−1.8	2 stations	97	[2] 14	Clayton	34	26	7.10	+3.63	St. George	21.28	Griffin	1.37
Idaho	58.4	+1.5	Orofino	103	3	Obsidian	15	10	0.32	−0.74	Kooskia	2.07	7 stations	0.00
Illinois	63.1	−4.3	McLeansboro	98	13	Lincoln	22	26	2.14	−1.48	Jacksonville	6.05	3 stations	T.
Indiana	62.6	−4.4	Marengo	98	12	2 stations	22	26	1.26	−1.86	Rockville	3.81	Farmland	0.10
Iowa	60.5	−3.8	2 stations	93	9	4 stations	24	25	3.08	−0.59	Centerville	9.98	Sheldon	1.04
Kansas	67.7	−1.9	Hutchinson	102	8	Oberlin	27	25	1.36	−1.56	Leavenworth	5.32	Trousdale	0.00
Kentucky	65.6	−4.7	Middlesboro	99	10	Farmers	24	24	0.80	−2.01	7 stations	0.00	Whitesburg	4.04
Louisiana	75.9	−2.0	2 stations	100	[2] 8	Winnsboro	42	20	4.22	+0.26	Port Eads	11.97	Shreveport	0.38
Maryland-Delaware	63.3	−4.2	Millsboro, Del	93	13	Grantsville, Md	28	25	4.67	+1.41	Dover, Del	8.73	Oakland, Md	2.17
Michigan	55.9	−4.1	Cassopolis	93	14	3 stations	22	[2] 28	3.25	+0.05	Alpha	8.57	Gladwin	0.96
Minnesota	55.3	−3.1	Beardsley	91	13	Angus	20	26	2.93	−0.07	Reeds	6.02	Argyle	0.41
Mississippi	73.5	−2.8	2 stations	100	14	Tupelo	39	24	1.82	−1.23	Biloxi	7.40	Holly Springs	0.04
Missouri	65.0	−4.0	5 stations	95	[2] 9	2 stations	28	[2] 24	2.61	−1.12	Downing	9.04	2 stations	0.00
Montana	55.3	+0.3	2 stations	97	6	Outlook	8	26	0.34	−0.99	Darby	1.81	6 stations	0.00
Nebraska	62.4	−1.5	2 stations	103	[2] 7	Nenzel	17	27	1.22	−0.91	Falls City	6.26	Kowanda	0.00
Nevada	64.0	+1.9	Logandale	107	[2] 4	2 stations	16	[2] 9	0.01	−0.39	Smith	0.15	31 stations	0.00
New England	57.3	−2.8	Chestnut Hill, Mass	89	12	2 stations	23	[2] 25	3.99	+0.34	Kingston, R. I	7.76	Pittsfield, Mass	1.58
New Jersey	62.6	−2.8	Belvidere	90	13	2 stations	29	[2] 25	4.52	+0.95	Tuckerton	9.62	Culvers Lake	1.54
New Mexico	63.4	+0.8	Carlsbad	100	13	Selsor Ranch	12	14	0.58	−0.93	Fort Bayard	2.99	8 stations	0.00
New York	58.2	−2.9	Dansville	92	12	Gloversville	23	25	2.49	−0.96	Roslyn	5.34	Avon	0.40
North Carolina	67.8	−2.4	Kinston	98	13	Mount Mitchell	25	26	11.18	+6.99	Southern Pines	19.50	Asheville	4.85
North Dakota	53.9	−2.5	Arnegard	95	6	Berthold Agency	12	25	0.93	−0.71	Valley City	4.89	4 stations	T.
Ohio	61.6	−4.0	Middleport	96	14	Peebles	23	26	0.90	−2.15	Madison	2.64	Warren	0.14
Oklahoma	72.2	−1.6	4 stations	103	[2] 12	Goodwell	34	21	0.86	−2.36	Purcell	2.87	Waurika	0.10
Oregon	59.5	+0.8	Grants Pass	105	22	2 stations	15	[2] 9	0.85	−0.67	Valsetz	2.45	3 stations	T.
Pennsylvania	60.4	−3.6	Lykens	94	14	Gouldsboro	25	25	2.33	−1.15	Gettysburg	5.73	Beaver Falls	0.71
South Carolina	72.1	−2.9	Calhoun Falls	96	14	Caesars Head	38	[2] 26	12.53	+8.43	Marion	27.06	Greenville	3.94
South Dakota	59.3	−1.7	Bellefouche	98	6	Elm Springs	12	27	1.57	−0.14	Strool	4.99	Ottumwa	0.01
Tennessee	67.4	−3.8	2 stations	96	[2] 13	2 stations	30	[2] 24	2.80	−0.22	Pheasant Field	8.90	Lexington	0.00
Texas	75.7	−1.5	2 stations	106	[2] 1	Muleshoe	36	24	3.00	+0.12	Corpus Christi	15.89	5 stations	0.00
Utah	62.4	+1.9	St. George	105	2	Great Basin Exp. Sta., Alpine.	17	13	0.25	−0.78	Green River	1.04	8 stations	0.00
Virginia	64.3	−4.0	Winchester	95	13	Emory	27	26	6.86	+3.74	Diamond Springs	15.23	Dale Enterprise	2.96
Washington	58.0	+0.8	Wahluke	103	3	2 stations	22	20	0.78	−1.19	Wynoochee Oxbow	4.33	8 stations	0.00
West Virginia	61.3	−4.5	Point Pleasant	100	15	Pickens	24	26	2.71	−0.34	Organ Cave	6.45	New Cumberland	0.81
Wisconsin	56.1	−3.5	2 stations	89	[2] 8	Long Lake	19	28	4.14	+0.72	Florence	7.67	Lake Mills	1.01
Wyoming	54.7	0.0	Colony	97	6	South Pass City	12	21	0.51	−0.87	Upton	2.07	5 stations	0.00
Alaska (August)	50.3	−1.4	Rampart	87	24	Bonanza Mine	24	31	4.16	+0.02	Latouche	16.38	Barrow	0.39
Hawaii	74.8	+0.1	Kaanapali	94	[2] 16	Volcano Observatory	52	23	5.68	−0.24	Papaikou (Mauka)	28.95	4 stations	0.00
Porto Rico	79.6	+0.7	Rio Piedras	97	22	5 stations	62	2	14.14	+6.15	Adjuntas	43.48	Ensenada	4.00

[1] For description of tables and charts, see Review, January, 1928, p. 29.

[2] Other dates also.

TABLE 1.—*Climatological data for weather bureau stations, September, 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: Departure from normal	Temperature: Maximum	Temperature: Date	Temperature: Mean maximum	Temperature: Minimum	Temperature: Date	Temperature: Mean minimum	Temperature: Greatest daily range	Mean wet thermometer	Mean temperature of the dew-point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Days with .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							58.8	−2.0										80	4.25	+1.1										6.1		
Eastport	76	67	85	29.95	30.03	0.00	54.4	−1.4	73	9	61	37	29	48	25	51	48	81	3.76	+1.0	12	5,616	s.	27	nw.	26	6	7	17	6.9	0.0	0.0
Greenville, Me.	1,070	6		28.84	30.05		51.3		75	17	60	27	30	42	34				4.02		12		se.				5	10	15		0.0	0.0
Portland, Me.	103	82	117	29.94	30.06	+.01	57.2	−2.4	79	11	65	37	29	50	26	53	49	79	3.86	+0.8	13	4,829	n.	24	nw.	26	10	5	15	6.1	0.0	0.0
Concord	289	70	79	29.73	30.04	−.02	56.4	−2.9	83	17	67	29	29	46	34				2.41	−1.0	11	2,977	nw.	16	nw.	26	8	10	12	6.0	0.0	0.0
Burlington	403	11	148	29.58	30.02	−.04	56.0	−4.3	82	13	65	32	24	47	33				2.52	−1.0	13	5,869	s.	33	se.	20	6	9	15	6.7	0.0	0.0
Northfield	876	12	60		30.06	−.00	52.6	−3.5	80	13	64	26	25	41	37			90	3.96	+1.2	12	3,374	s.	18	se.	15	3	12	15	7.3	0.0	0.0
Boston	125	115	188	29.91	30.05	−.02	62.4	−0.8	85	13	70	42	27	55	29	56	52	76	4.47	+1.3	5	5,369	sw.	24	w.	26	7	14	9	6.0	0.0	0.0
Nantucket	12	14	90	30.03	30.04	−.04	62.6	−0.2	80	4	68	45	27	57	17	58	55	80	6.98	+4.2	14	9,610	sw.	48	ne.	19	7	10	13	6.5	0.0	0.0
Block Island	26	11	46	30.00	30.03	−.05	62.4	−1.0	76	13	67	46	29	58	13	58	54	77	7.50	+4.8	8	10,682	w.	52	ne.	19	7	14	9	5.6	0.0	0.0
Providence	160	215	251	29.88	30.05	−.02	61.2	−2.0	82	13	69	40	29	53	25	56	52	76	3.25	+0.1	10	6,435	nw.	35	nw.	26	10	10	10	5.6	0.0	0.0
Hartford	159	122		29.89	30.06	−.01	60.5	−1.2	84	13	69	39	27	52	28				4.20	+0.7	14		ne.				9	10	11	5.5	0.0	0.0
New Haven	106	74	153	29.94	30.05	−.02	61.7	−1.8	84	13	70	40	29	54	27	57	54	79	3.85	+0.3	10	5,360	ne.	26	ne.	19	10	13	7	5.3	0.0	0.0
Middle Atlantic States							63.9	−2.9										79	4.76	+1.6										5.9		
Albany	97	102	115	29.94	30.04	−.03	61.0	−2.1	88	13	70	38	29	52	26	54	51	77	2.47	−0.6	9	4,517	sw.	32	sw.	20	13	12	5	4.3	0.0	0.0
Binghamton	871	10	84	29.11	30.04	−.03	59.7	−1.6	87	12	70	33	29	49	32				0.79	−2.0	10	3,431	ne.	20	sw.	20	6	13	11	5.8	0.0	0.0
New York	314	414	454	29.73	30.06	−.02	63.8	−3.0	84	13	70	43	27	58	21	58	54	74	3.36	0.0	11	9,144	nw.	43	nw.	26	7	13	10	6.2	0.0	0.0
Bellefonte	1,050	5	36	28.95	30.06		57.4		84	10	68	30	25	46	37	53	51	84	0.99		10									5.8	0.0	0.0
Harrisburg	374	94	104	29.66	30.06	−.02	62.4	−3.4	86	16	70	40	27	55	30	56	53	77	2.86	0.0	11	3,624	nw.	19	ne.	19	7	12	11	6.3	0.0	0.0
Philadelphia	114	123	341	29.94	30.07	−.01	65.4	−2.6	86	13	72	44	27	59	22	59	55	73	3.61	+0.5	9	6,973	sw.	48	ne.	19	6	11	13	6.3	0.0	0.0
Reading	325	81	98	29.71	30.06		63.2		88	12	71	41	26	55	30	56	53	74	3.19	−0.5	11	3,569	sw.	24	ne.	19	9	9	12	5.8	0.0	0.0
Scranton	805	111	119	29.20	30.06	−.01	60.0	−2.9	86	12	69	34	25	51	31	54	51	78	1.82	−1.0	14	4,174	s.	27	ne.	19	5	11	14	6.7	0.0	0.0
Atlantic City	52	37	172	29.98	30.04	−.03	65.6	−1.2	82	9	71	44	25	60	24	61	58	80	9.16	+6.5	11	11,134	s.	72	ne.	19	10	8	12	5.5	0.0	0.0
Cape May	17	13	49				65.0	−4.0	82	13	72	43	27	58	21	62	60	84	6.72		11		n.				9	7	14		0.0	0.0
Sandy Hook	22	10	55	30.02	30.04		64.6		83	13	70	45	27	60	20	59	55	75	4.08		10	9,698	sw.	52	ne.	19	7	8	15	6.1	0.0	0.0
Trenton	190	159	183	29.85	30.05		63.3		86	13	71	41	27	56	26	58	55	79	3.42	−0.2	9	6,379	sw.	39	ne.	19	7	9	14	6.3	0.0	0.0
Baltimore	123	100	215	29.92	30.05	−.03	65.8	−2.7	91	13	73	43	26	59	29	60	56	76	4.35	+1.0	11	6,184	sw.	47	ne.	19	8	6	16	6.3	0.0	0.0
Washington	112	62	85	29.93	30.05	−.03	64.9	−3.2	89	13	73	41	25	57	28	59	57	82	4.29	+1.0	11	3,296	nw.	24	se.	19	8	8	14	6.4	0.0	0.0
Cape Henry	18	8	54	30.00	30.02		69.6		83	12	76	48	27	64	23	66	64	83	8.90	+6.0	14	7,772	se.	62	ne.	19	9	9	12	5.9	0.0	0.0
Lynchburg	681	153	188	29.31	30.05	−.03	64.8	−4.2	89	14	74	39	27	56	30	59	57	82	6.01	+2.7	12	3,610	ne.	35	ne.	19	7	10	13	6.3	0.0	0.0
Norfolk	91	170	205	29.94	30.04	−.02	69.8	−1.8	89	13	77	50	27	63	22	64	61	81	9.79	+6.6	14	6,936	ne.	53	ne.	18	11	4	15	6.0	0.0	0.0
Richmond	144	11	52	29.90	30.05	−.02	65.8	−4.7	88	13	74	42	25	58	26	61	59	85	7.01	+3.8	11	4,155	ne.	33	ne.	19	13	4	13	5.7	0.0	0.0
Wytheville	2,304	49	55	27.70	30.05	−.02	60.2	−3.4	85	14	70	35	25	51	33	55	53	85	5.06	+1.8	11	2,780	w.	23	w.	25	7	12	11	5.5	0.0	0.0
South Atlantic States							72.2	−1.2										84	12.14	+7.9										5.7		
Asheville	2,253	70	84	27.72	30.04	−.03	63.5	−1.5	85	14	73	38	27	54	31	57	55	84	4.85	+2.0	12	3,665	nw.	21	n.	25	11	10	9	5.0	0.0	0.0
Charlotte	779	55	62	29.20	30.03	−.04	68.8	−2.7	92	13	78	47	25	60	29	64	62	85	11.13	+8.1	13	2,705	ne.	22	ne.	18	13	6	11	5.3	0.0	0.0
Hatteras	11	11	50	30.00	30.01	−.05	73.9	−0.6	86	6	79	50	27	68	23	70	68	82	17.55	+12.9	16	7,655	ne.	40	sw.	19	11	10	9	5.2	0.0	0.0
Raleigh	376	103	110	29.63	30.03	−.04	67.6	−3.5	89	13	76	47	25	60	27	63	61	84	11.92	+8.6	10	3,965	ne.	33	ne.	18	9	7	14	5.9	0.0	0.0
Wilmington	78	81	91	29.94	30.02	−.03	73.4	+0.3	92	14	81	53	25	66	22	69	67	88	13.41	+8.9	13	3,756	n.	24	se.	18	9	8	13	6.2	0.0	0.0
Charleston	48	11	92	29.94	29.99	−.05	75.8	−0.8	92	14	82	58	25	70	21	72	71	88	14.30	+9.8	17	6,445	ne.	59	e.	18	4	12	14	6.6	0.0	0.0
Columbia, S. C.	351	41	57	29.64	30.01	−.04	73.0	−1.5	92	14	81	51	25	65	28	66	64	81	14.64	+11.2	12	3,833	ne.	33	n.	18	10	11	9	5.4	0.0	0.0
Due West	711	10	55	29.28	30.05		70.1		91	14	79	46	25	61	31				4.03		12	4,727	ne.	40	ne.	18	15	6	9	5.0	0.0	0.0
Greenville, S. C.	1,039	139	146	28.94	30.02		69.8	−0.8	91	14	78	48	25	61	27	63	60	78	3.94		10	4,648	ne.	36	ne.	18	13	8	9	5.0	0.0	0.0
Augusta	182	62	77	29.80	30.00	−.05	74.7	−0.6	95	14	84	53	25	66	29	68	66	82	7.47	+4.1	9	3,101	nw.	37	n.	18	9	10	11	5.6	0.0	0.0
Savannah	65	150	194	29.92	29.99	−.04	75.8	−0.4	91	13	83	60	25	69	21	70	69	86	16.87	+11.5	14	6,681	ne.	52	nw.	18	8	6	16	6.5	0.0	0.0
Jacksonville	43	209	245	29.92	29.97	−.03	77.5	−0.8	92	3	84	63	25	71	17	72	70	84	9.25	+1.9	13	7,149	ne.	48	e.	17	5	14	11	6.2	0.0	0.0
Florida Peninsula							80.9	+0.2										82	11.73	+4.1										7.0		
Key West	22	10	64	29.90	29.92	−.02	82.3	+0.1	90	25	88	73	10	77	15	77	75	81	8.13	+1.4	21	7,184	e.	39	w.	17	4	14	12	6.4	0.0	0.0
Miami	25	71	79	29.91	29.94		80.4	+0.3	88	6	86	70	3	75	17	76	74	81	17.00	+8.3	21	7,442	e.	60	w.	16	2	7	21	7.8	0.0	0.0
Tampa	35	79	87	29.90	29.94	−.03	80.0	+0.1	94	6	87	68	25	73	19	74	72	85	10.07	+2.7	19	4,062	ne.	31	n.	17	4	9	17	6.9	0.0	0.0
Titusville	44	5		29.90	29.95				92	6	86								13.36		15		e.				3	9	18	6.8	0.0	0.0
East Gulf States							74.6	−1.1										78	3.33	−0.5										5.1		
Atlanta	1,173	190	216	28.80	30.03	−.02	71.4	−1.0	91	14	80	48	24	63	30	62	58	70	3.16	+0.2	8	5,093	nw.	24	nw.	18	11	10	9	5.1	0.0	0.0
Macon	370	78	87	29.62	30.01	−.02	73.3	−1.5	91	14	82	46	25	64	35	68	66	84	3.73	+0.3	10	3,139	nw.	26	nw.	18	12	4	14	5.4	0.0	0.0
Thomasville	273	49	58	29.69	29.98	−.03	76.3	−0.5	92	14	84	52	25	68	30	70	68	86	8.02	+3.8	14	2,647	ne.	24	n.	17	7	8	15	6.8	0.0	0.0
Apalachicola	36	42	49	29.92	29.97		77.1		88	1	82	58	25	72	19	73	71	84	6.21		12	5,282	ne.	35	ne.	17	11	7	12	5.7	0.0	0.0
Pensacola	56	149	185	29.92	29.98	−.01	77.0	−1.0	89	15	82	62	25	72	17	70	68	78	6.71	+1.4	12	7,261	ne.	31	s.	12	11	4	15	5.6	0.0	0.0
Anniston	741	9	57	29.26	30.05	+.02	71.2	−0.1	92	15	83	39	25	59	41				0.83	−2.7	5	2,023	n.	14	n.	18	17	6	7	3.9	0.0	0.0
Birmingham	700	11	48	29.28	30.04	+.01	73.0	−1.8	93	16	84	46	24	62	36	63	59	72	1.82	−1.7	3	2,966	n.	17	n.	16	15	8	7	4.2	0.0	0.0
Mobile	57	125	161	29.92	29.98	−.02	77.2	−0.9	93	15	85	55	25	69	27	70	68	82	4.65	−0.4	11	5,372	n.	27	n.	17	11	8	11	5.5	0.0	0.0
Montgomery	223	100	112	29.76	30.01	−.01	75.6	−0.7	93	15	85	51	25	66	31	67	64	75	2.61	−0.4	10	3,331	ne.	22	ne.	17	13	6	11	5.1	0.0	0.0
Corinth	469	6					71.5		94	14	85	43	24	58	40				0.62		1		n.				10	19	1		0.0	0.0
Meridian	375	87	95	29.62	30.01	−.01	73.2	−1.3	91	14	84	46	25	63	37	65	61	74	1.04	−2.4	2	2,773	ne.	14	n.	17	15	8	7	4.0	0.0	0.0
Vicksburg	247	65	73	29.75	30.03	+.01	73.7	−2.6	93	12	83	53	19	64	26	65	61	73	0.27	−2.6	6	3,469	n.	15	ne.	24	15	8	7	4.1	0.0	0.0
New Orleans	53	76	84	29.92	29.97	−.01	78.4	−0.8	92	16	85	62	25	72	20	71	69	79	3.85	−1.2	10	4,661	ne.	19	ne.	23	8	10	12	5.9	0.0	0.0
West Gulf States							75.5	−1.6										73	4.51	+1.0										4.5		
Shreveport	249	77	93	29.75	30.02	+.02	75.4	−1.5	94	13	86	52	24	65	28	65	60	68	0.38	−2.4	5	3,213	ne.	18	ne.	15	18	5	7	3.6	0.0	0.0
Bentonville	1,303	11	44	28.69	30.04	+.02	66.7	−2.2	89	13	79	40	24	54	34				0.43		3		s.				29	1	0		0.0	0.0
Fort Smith	457	79	94	29.55	30.03	+.02	71.9	−2.5	96	12	84	47	24	60	32	61	55	64	0.05	−2.9	1	4,077	e.	17	nw.	29	19	6	5	2.8	0.0	0.0
Little Rock	357	136	153	29.67	30.04	+.01	71.6	−2.5	91	13	81	49	24	62	28	62	56	64	0.52	−2.7	1	4,673	ne.	20	n.	18	20	6	4	2.6	0.0	0.0
Austin	605	136	148	29.35	29.98		77.1	−1.2	96	30	87	57	20	67	33	67	63	71	4.36	+1.0	12	4,211	ne.	28	se.	16	11	7	12	5.4	0.0	0.0
Brownsville	57	53	61	29.83	29.89		79.8	−0.8	95	2	87	66	24	73	21	73	72	85	8.91	+3.4	16	4,343	n.	19	nw.	23	10	8	12	5.3	0.0	0.0
Corpus Christi	20	11	78	29.92	29.94	−.01	79.8	+0.1	93	30	86	66	23	74	21	74	72	83	15.89	+11.9	12	7,151	n.	30	n.	23	10	4	16	6.0	0.0	0.0
Dallas	512	220	227	29.47	30.01		76.0		93	29	86	56	30	66	35				0.44		5	6,387	se.	23	ne.	9	19	6	5	2.9	0.0	0.0
Fort Worth	670	106	114	29.30	30.00	+.01	76.2	−0.7	98	14	86	56	30	66	34	65	59	62	0.45	−2.0	5	4,537	se.	24	se.	8	14	8	8	4.5	0.0	0.0
Galveston	54	106	114	29.92	29.98	.00	78.0	−2.1	90	30	83	63	24	73	17	72	70	81	7.20	+1.6	10	5,845	ne.	26	se.	21	14	6	10	4.8	0.0	0.0
Groesbeck	461	11	56	29.51	29.99		76.4		96	14	88	54	20	65	36				1.03		6	5,056	ne.	27	n.	22	14	7	9	4.2	0.0	0.0
Houston	138	292	314	29.83	29.97		76.4	−2.6	94	30	84	58	24	69	24				6.18	+2.4	11	7,197	ne.	37	ne.	21	13	6	11	5.4	0.0	0.0
Palestine	510	64	72	29.48	30.00	+.01	75.2	−1.8	93	14	85	53	24	65	31	66	61	70	0.90	−2.0	5	3,627	ne.	17	se.	15	14	7	9	4.2	0.0	0.0
Port Arthur	34	58	66	29.90	29.94		77.1		94	20	84	59	24	70	24	71	68	82	4.20		9	4,966	ne.	19	e.	26	12	5	13	5.2	0.0	0.0
San Antonio	693	119	132	29.25	29.96	.00	77.4	−2.5	95	30	86	58	23	69	26	68	64	71	6.30	+3.2	10	4,193	ne.	20	ne.	22	10	10	10	5.4	0.0	0.0
Taylor	583	55	63	29.41	30.02	+.05	76.5	−0.4	95	13	86	57	24	67	31				3.00	0.0	9	4,094	n.	25	se.	16	13	8	9	4.6	0.0	0.0

TABLE 1.—*Climatological data for weather bureau stations, September, 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							64.9	−3.8										70	1.26	−1.6										4.3		
Chattanooga	762	190	215	29.23	30.03	−0.03	69.2	−3.0	90	15	79	43	25	59	34	61	57	73	3.32	+0.2	6	3,379	ne.	25	n.	18	16	9	5	4.3	0.0	0.0
Knoxville	995	102	111	29.01	30.06	.00	67.0	−3.6	90	14	77	42	26	58	32	60	57	78	3.02	+0.3	7	3,072	n.	19	n.	18	12	8	10	5.2	0.0	0.0
Memphis	399	76	97	29.62	30.04	+.01	71.0	−2.6	92	13	80	46	24	62	26	61	56	64	0.06	−2.7	1	3,873	ne.	19	n.	15	21	8	1	2.7	0.0	0.0
Nashville	546	168	191	29.49	30.07	+.01	68.5	−3.3	90	13	80	42	24	58	35	59	52	64	0.68	−2.7	2	4,538	ne.	28	ne.	18	13	15	2	3.9	0.0	0.0
Lexington	989	193	230	29.04	30.08	+.01	64.2	−4.3	88	14	74	36	24	55	27				0.71	−1.7	3	6,790	sw.	31	nw.	25	20	7	3	3.0	0.0	0.0
Louisville	525	188	234	29.50	30.08	+.02	65.8	−4.7	90	14	76	39	26	56	31	57	51	66	0.78	−2.0	3	5,608	n.	29	ne.	18	16	11	3	3.5	0.0	0.0
Evansville	431	76	116	29.62	30.09	+.03	67.2	−3.5	91	13	78	39	26	56	27	57	51	63	0.25	−3.1	5	4,853	s.	22	nw.	23	16	12	2	3.3	0.0	0.0
Indianapolis	822	194	230	29.19	30.07	+.01	63.0	−3.9	88	14	73	36	24	53	26	54	48	65	0.92	−2.5	7	6,442	s.	29	w.	25	15	13	2	3.5	0.0	0.0
Royal Center	736	11	55	29.27	30.07		59.8		87	9	72	30	26	48	34				0.57		7	5,663	sw.	30	w.	14	12	11	7	4.6	0.0	0.0
Terre Haute	575	96	129	29.44	30.06		63.5		90	9	74	34	26	53	28	55	51	73	2.27		9	5,243	sw.	25	nw.	25	12	13	5	4.3	0.0	0.0
Cincinnati	627	11	51	29.40	30.08	+.01	63.8	−3.3	92	14	75	33	26	52	33	55	50	69	1.27	−1.4	5	3,928	sw.	22	sw.	25	18	9	3	3.5	0.0	0.0
Columbus	822	179	222	29.20	30.07	.00	62.5	−4.0	89	14	72	35	26	53	30	54	49	67	0.80	−1.8	6	5,815	s.	35	w.	25	15	11	4	4.2	0.0	0.0
Dayton	899	137	173	29.11	30.06		63.4	−3.2	90	14	74	35	26	53	31	54	48	65	0.73	−2.2	8	5,315	sw.	28	w.	25	8	17	5	4.8	0.0	0.0
Elkins	1,947	59	67	28.04	30.09	+.01	58.4	−4.6	84	10	68	33	26	49	32	53	51	87	2.34	−0.5	10	2,652	w.	18	nw.	25	6	11	13	6.6	0.0	0.0
Parkersburg	637	77	82	29.43	30.09	+.01	63.5	−3.8	89	14	73	38	26	54	33	55	52	74	1.67	−1.0	6	3,041	se.	23	nw.	25	11	8	11	5.6	0.0	0.0
Pittsburgh	842	353	410	29.15	30.06	−.02	61.2	−5.2	86	10	70	35	26	53	28	54	50	70	1.02	−1.6	6	6,351	sw.	31	nw.	25	9	12	9	5.7	0.0	0.0
Lower Lake Region							59.9	−3.1										72	1.92	−1.0										5.2		
Buffalo	767	247	280	29.19	30.02	−.04	59.0	−3.4	77	15	66	35	26	52	22	54	51	77	3.07	+0.2	14	10,541	sw.	44	w.	25	8	17	5	5.1	0.0	0.0
Canton	448	10	61	29.53	30.01		54.8	−4.5	78	15	64	34	29	45	39				2.36	−0.4	14	5,721	sw.	30	w.	13	10	12	8	5.0	0.0	0.0
Ithaca	836	5	100	29.12	30.03		58.0		86	12	68	34	29	48	37	52	50	79	1.22	−1.8	8	5,208	nw.	29	se.	20	6	14	10	6.1	0.0	0.0
Oswego	335	76	91	29.65	30.02	−.04	58.7	−2.5	85	12	66	38	27	51	28	54	50	74	2.68	0.0	11	5,625	s.	23	w.	13	5	16	9	6.0	0.0	0.0
Rochester	523	86	102	29.46	30.03	−.03	59.4	−3.0	87	10	68	38	26	51	33	53	49	70	0.75	−1.7	10	4,688	sw.	24	sw.	13	4	18	8	6.3	0.0	0.0
Syracuse	596	97	113	29.40	30.04	−.03	58.5	−3.1	84	12	66	36	26	51	34				2.28	−0.5	11	6,559	s.	34	nw.	22	5	17	8	5.8	0.0	0.0
Erie	714	130	166	29.26	30.03	−.03	60.8	−2.8	87	10	68	39	25	54	25	55	52	76	3.43	0.0	12	8,610	s.	36	n.	19	9	14	7	4.9	T.	0.0
Cleveland	762	190	201	29.23	30.05	−.01	61.6	−2.3	88	10	69	36	26	54	25	54	48	66	1.21	−2.1	9	8,049	sw.	40	nw.	25	9	13	8	5.1	0.0	0.0
Sandusky	629	5	67	29.38	30.06	.00	62.7	−2.6	92	10	73	34	26	53	30				0.73	−2.2	9	5,502	sw.	25	nw.	21	9	18	3	4.8	0.0	0.0
Toledo	628	208	243	29.38	30.06	.00	61.4	−3.0	87	10	71	37	26	52	29	54	49	70	1.66	−1.1	7	8,306	sw.	33	sw.	15	17	11	2	3.4	0.0	0.0
Fort Wayne	856	113	124	29.12	30.05		61.4	−4.1	89	9	72	32	26	51	29	53	48	69	0.56		4	5,487	sw.	30	w.	14	11	12	7	4.5	0.0	0.0
Detroit	730	218	258	29.26	30.05	−.01	60.8	−2.7	86	10	69	35	26	53	25	53	48	70	1.68	−1.2	8	6,598	sw.	31	sw.	24	10	11	9	5.0	0.0	0.0
Upper Lake Region							55.8	−3.7										79	3.18	−0.1										5.4		
Alpena	609	13	92	29.34	30.01	−.02	53.3	−4.3	82	8	62	31	24	44	30	50	47	84	3.71	+0.7	17	6,656	sw.	29	w.	21	6	12	12	6.1	0.0	0.0
Escanaba	612	54	60	29.31	29.98	−.03	52.6	−4.5	77	8	60	31	25	45	24	49	47	85	4.78	+1.5	10	6,021	s.	28	nw.	22	8	11	11	5.5	T.	0.0
Grand Haven	632	54	89	29.34	30.01	−.03	58.0	−2.9	84	14	66	37	28	50	25	54	50	77	2.81	−0.8	9	6,877	sw.	36	w.	21	9	14	7	5.1	T.	0.0
Grand Rapids	707	70	87	29.26	30.03	−.02	59.6	−3.1	88	10	69	38	28	50	29	53	48	73	3.14	−0.4	13	3,347	nw.	18	w.	27	7	8	15	6.1	T.	0.0
Houghton	668	64	99	29.22	29.95	−.05	52.2	−4.7	79	6	59	34	24	45	28				4.08	+0.5	15	6,636	w.	30	e.	14	7	6	17	6.6	3.8	0.0
Lansing	878	6	49	29.09	30.04		56.8	−4.6	85	10	67	32	26	46	28	52	50	87	2.14	−0.8	13	2,854	sw.	15	w.	27	11	13	6	4.6	0.1	0.0
Ludington	637	60	66	29.31	30.00		56.9		79	14	64	36	29	50	25	52	49	78	1.94		9	6,647	s.	36	s.	22	10	13	7	4.6	0.0	0.0
Marquette	734	77	111	29.17	29.97	−.03	53.2	−4.3	79	8	60	34	23	46	29	48	45	79	4.31	+1.1	14	6,537	w.	30	s.	30	7	7	16	6.6	0.9	0.0
Port Huron	638	70	120	29.33	30.02	−.04	58.2	−3.4	85	10	67	32	26	50	27	53	49	77	1.37	−1.4	12	6,575	sw.	30	nw.	24	8	16	6	4.6	0.0	0.0
Sault Sainte Marie	614	11	52	29.30	29.99	−.03	52.0	−3.5	76	8	59	34	24	45	30	48	45	84	5.47	+2.0	17	5,106	nw.	33	nw.	21	5	8	17	7.2	0.1	0.0
Chicago	673	7	131	29.32	30.04	.00	61.4	−3.8	88	14	70	35	26	53	27	54	50	72	1.87	−1.3	6	6,263	sw.	28	sw.	24	16	10	4	3.6	T.	0.0
Green Bay	817	109	141	29.33	29.99	−.03	56.6	−3.8	80	8	66	32	26	47	29	51	47	78	2.34	−0.8	8	6,597	s.	34	s.	14	8	9	13	6.0	T.	0.0
Milwaukee	681	125	221	29.28	30.02	−.01	60.2	−2.3	87	10	69	34	26	52	25	52	48	70	1.50	−1.8	7	8,279	w.	36	s.	14	17	6	7	3.9	0.0	0.0
Duluth	1,133	5	47	28.75	29.97	−.01	51.6	−3.5	76	1	60	28	23	43	27	47	45	87	3.86	+0.6	15	7,918	nw.	36	nw.	20	9	10	11	5.7	0.3	0.0
North Dakota							54.4	−2.8										66	1.00	−0.5										4.1		
Moorhead	940	50	58	28.95	29.97	+.01	54.8	−3.4	83	6	66	29	26	44	40	48	43	72	2.28	+0.1	8	5,260	nw.	25	e.	13	9	11	10	5.2	0.0	0.0
Bismarck	1,674	8	57	28.21	29.99	+.05	56.2	−1.9	90	6	69	23	25	43	51	47	39	62	1.15	−0.1	6	5,501	nw.	29	n.	15	14	10	6	3.9	0.0	0.0
Devils Lake	1,478	11	44	28.40	29.97	+.03	52.8	−3.1	87	6	66	20	26	40	43	45	38	68	0.27	−1.1	6	5,561	nw.	25	n.	24	15	8	7	3.9	0.0	0.0
Ellendale	1,457	10	56	28.42	29.99		54.8		86	7	67	25	25	42	40				2.35		7	8,262	nw.	45	nw.	15	15	10	5	3.9	0.0	0.0
Grand Forks	833	12	67				53.2		86	7	65	24	26	41	42	47			0.88		10		nw.		s.	18	11	10	9	4.5	T.	0.0
Williston	1,878	41	48	28.02	30.00	+.07	53.7	−2.9	93	6	68	17	25	39	48	44	36	60	0.31	−0.8	4	4,268	nw.	30	w.	7	18	8	4	3.1	0.0	0.0
Upper Mississippi Valley							61.6	−3.5										72	2.48	−1.0										3.8		
Minneapolis	918	102	208	28.98	29.96		58.3	−3.1	81	1	68	34	23	49	31				2.17	−1.0	8	7,888	s.	36	s.	19	10	10	10	5.1	T.	0.0
St. Paul	837	236	261	29.07	29.97	−.02	57.2	−4.1	79	1	67	31	26	48	30				2.04	−1.0	9	8,193	se.	36	nw.	22	12	9	9	4.7	T.	0.0
La Crosse	714	11	48	29.23	30.00	−.01	58.5	−2.8	82	8	68	31	26	48	28	52	50	80	4.73	+0.7	8	2,605	s.	14	sw.	14	13	9	8	5.0	T.	0.0
Madison	974	70	78	28.98	30.03	.00	59.0	−3.4	80	8	68	34	26	50	25	52	47	72	1.78	−1.9	8	4,968	sw.	20	nw.	22	17	8	5	3.5	T.	0.0
Wausau	1,247	4		28.66	29.99		55.0		77	8	65	30	28	45	33				5.64		11		w.				13	6	11	4.9	T.	0.0
Charles City	1,015	10	51	28.95	30.03	+.03	58.0	−3.0	87	9	69	32	26	47	32	52	48	77	2.01	−0.8	9	3,872	se.	19	w.	14	18	9	3	3.1	0.0	0.0
Davenport	606	71	79	29.38	30.04	+.01	62.6	−3.0	88	9	73	36	25	52	30	54	49	70	1.93	−1.6	7	3,688	nw.	18	s.	14	16	9	5	3.5	0.0	0.0
Des Moines	861	84	97	29.11	30.02	.00	62.0	−3.6	89	9	73	34	26	51	33	54	49	70	1.87	−1.8	10	4,123	s.	21	sw.	10	18	6	6	3.7	0.0	0.0
Dubuque	700	81	96	29.28	30.03	.00	59.8	−4.2	82	8	70	33	26	50	27	52	48	72	1.27	−2.7	5	3,487	s.	19	se.	12	16	9	5	3.9	0.0	0.0
Keokuk	614	64	78	29.38	30.06	+.03	63.1	−4.4	93	9	74	35	26	53	30	55	50	68	4.18	+0.3	9	3,939	s.	27	nw.	2	18	5	7	3.5	0.0	0.0
Cairo	358	87	93	29.69	30.07	+.02	68.2	−3.3	90	13	78	43	26	59	26	59	54	67	0.14	−2.8	1	4,614	s.	25	n.	23	17	10	3	3.3	0.0	0.0
Peoria	609	11	45	29.40	30.07	+.03	61.2	−3.1	89	9	73	29	26	50	33	54	51	79	3.18	−0.8	9	3,114	s.	19	w.	14	20	6	4	2.9	0.0	0.0
Springfield, Ill.	636	10	91	29.38	30.05	.00	64.0	−3.6	93	9	74	35	26	53	31	56	53	75	3.35	−0.3	9	4,617	s.	22	n.	23	19	5	6	3.4	0.0	0.0
Hannibal	534	74	109	29.49	30.06	+.03	63.0	−4.7	93	9	74	32	26	52	33				4.42	+0.9	9	4,638	sw.	35	nw.	12	18	5	7	3.6	0.0	0.0
St. Louis	568	265	303	29.46	30.06	+.02	67.4	−2.7	93	13	77	43	24	58	25	57	50	62	1.70	−1.8	8	7,037	sw.	36	sw.	14	16	12	2	2.9	0.0	0.0
Missouri Valley							63.6	−2.4										61	1.74	−1.1										3.1		
Columbia, Mo.	784	6	84	29.23	30.06	+.03	63.8	−4.4	92	9	76	37	26	52	32				3.33	+0.5	6	4.001	se.	29	nw.	12	20	6	4	3.0	0.0	0.0
Kansas City	963	161	181	29.01	30.04	+.02	66.7	−2.2	92	8	77	43	26	57	29	57	50	61	3.12	−1.4	8	5,680	s.	25	n.	2	18	8	4	3.4	0.0	0.0
St. Joseph	967	11	49	29.00	30.03		65.2		92	8	77	37	26	54	33	56	50	66	8.78		7	4,631	se.	27	nw.	11	21	6	3	2.7	0.0	0.0
Springfield, Mo.	1,324	98	104	28.68	30.08	+.05	66.3	−2.6	88	13	76	43	24	56	29	57	51	63	0.05	−3.7	2	5,738	s.	22	s.	12	25	4	1	1.7	0.0	0.0
Iola	984	11	50	29.01	30.04	+.03	68.0	−1.8	94	13	82	41	26	54	39				1.06	−2.8	4	3,171	s.	15	n.	21	19	10	1	3.2	0.0	0.0
Topeka	987	92	107				66.8	−0.9	95	8	79	38	26	55	35				2.51	−1.0	9	5,647	s.	29	se.	7	18	9	3	2.9	0.0	0.0
Lincoln	1,189	11	81	28.75	30.00	+.01	64.6	−1.8	95	8	78	34	26	52	40	54	46	59	2.01	−0.6	6	5,829	s.	36	nw.	11	18	4	8	3.6	0.0	0.0
Omaha	1,105	115	122	28.84	30.02	+.02	63.8	−3.0	89	15	75	36	25	53	35	54	48	62	2.73	−0.5	6	4,634	s.	33	nw.	11	20	9	1	2.5	0.0	0.0
Valentine	2,598	47	54	27.32	30.02	+.06	59.8	−2.7	91	7	74	24	27	46	53	48	39	55	0.78	−1.0	7	5,343	w.	31	n.	16	15	9	6	3.9	0.0	0.0
Sioux City	1,135	94	164	28.81	30.02	+.04	61.6	−1.8	91	9	73	31	25	50	35	52	46	62	2.14	−0.3	6	7,287	s.	36	w.	11	17	11	2	3.3	0.0	0.0
Huron	1,306	59	74	28.61	30.01	+.05	59.2	−2.1	91	7	72	27	25	46	42	48	40	60	1.30	−0.3	5	5,615	nw.	28	n.	16	15	10	5	3.6	0.0	0.0
Pierre	1,572	70	75		30.00	+.05	60.6	−3.2	92	7	74	26	27	47	47			58	0.41	−0.7	5	5,378	nw.	52	n.	15	14	9	7		0.0	0.0
Yankton	1,233	49	57	28.68	29.99	+.01	62.0	−2.0	91	8	74	30	25	49	48				1.42	−1.3	8	4,424	nw.	25	n.	16	14	13	3	3.6	0.0	0.0

TABLE 1.—*Climatological data for weather bureau stations, September, 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**	**−0.4**										**53**	**0.41**	**−0.8**										**3.8**		
Billings	3,140	5					57.7		95	6	76	27	21	39	54				0.39		3		nw.				14	7	9		0.0	0.0
Havre	2,505	11	44	27.39	30.02	+0.08	55.8	−0.6	88	18	71	18	27	41	51	45	37	57	0.42	−0.9	3	3,878	sw.	30	w.	29	17	6	7	4.1	0.0	0.0
Helena	4,110	87	112	25.85	30.01	+.04	56.2	−0.4	84	3	69	35	27	43	38	46	39	57	0.05	−1.0	4	5,196	sw.	25	sw.	14	12	14	4	4.4	0.0	0.0
Kalispell	2,973	48	56	26.94	29.98	+.02	55.2	+1.7	83	3	69	32	21	41	38	45	35	53	0.04	−1.3	2	3,738	nw.	23	ne.	7	20	7	3	2.7	0.0	0.0
Miles City	2,371	48	55	27.50	30.05	+.10	58.4	−2.8	93	6	73	24	27	44	46	46	35	50	0.34	−0.6	5	3,082	s.	21	n.	7	16	9	5	3.5	0.0	0.0
Rapid City	3,259	50	58	26.65	30.04	+.08	59.0	−1.4	95	6	72	29	27	46	47	48	38	51	1.72	+0.5	3	4,932	n.	35	nw.	13	16	7	7	3.9	T.	0.0
Cheyenne	6,088	84	101	24.10	29.99	+.03	57.2	+0.2	85	6	70	31	25	44	39	43	31	42	0.08	−1.1	4	7,146	w.	44	w.	11	15	12	3	3.6	0.0	0.0
Lander	5,372	60	68	24.72	30.02	+.06	57.0	+1.3	87	6	74	29	21	40	45	44	34	49	0.02	−1.0	1	3,157	w.	35	nw.	30	15	11	4	3.9	0.0	0.0
Sheridan	3,790	10	47	26.14	30.03		55.4		92	6	73	26	27	38	50	44	36	60	0.29		7	2,659	nw	22	nw.	7	17	8	5	3.5	0.0	0.0
Yellowstone Park	6,241	11	48	23.97	30.04	+.07	51.4	−2.0	80	17	67	28	21	36	43	40	30	52	0.03	−1.0	1	4,771	sw.	36	sw.	6	10	11	9	5.0	T.	0.0
North Platte	2,821	11	51	27.10	30.01	+.04	62.4	+0.3	98	8	77	30	27	47	48	50	42	59	0.96	−0.4	7	3,635	se.	24	n.	20	20	5	5	3.1	0.0	0.0
Middle Slope							**67.6**	**−0.4**										**52**	**0.56**	**−1.4**										**2.7**		
Denver	5,292	106	113	24.80	30.00	+.04	62.6	−0.3	90	7	76	36	27	49	37	47	35	42	0.07	−0.9	2	4,475	s.	41	nw.	13	16	11	3	3.2	0.0	0.0
Pueblo	4,685	80	86	25.35	29.98	+.02	64.6	0.0	92	7	81	38	27	48	48	48	35	42	0.12	−0.5	2	4,143	nw.	40	nw.	13	22	7	1	2.3	0.0	0.0
Concordia	1,392	50	58	28.57	30.03	+.04	67.2	−1.1	96	13	80	39	25	54	38	54	46	56	0.85	−1.8	7	4,687	s.	26	nw.	20	13	11	6	4.0	0.0	0.0
Dodge City	2,509	11	51	27.45	30.02	+.04	68.5	−0.9	97	7	83	42	26	54	40	54	45	55	1.13	−0.8	4	5,749	se.	22	s.	19	26	3	1	1.1	0.0	0.0
Wichita	1,358	139	158	28.59	30.00	.00	70.4	−0.2	98	12	83	48	26	57	42	58	50	55	0.58	−2.6	4	8,462	s.	34	s.	9	21	8	1	2.5	0.0	0.0
Broken Arrow	765	11	56	29.23	30.06		69.2		91	12	81	44	24	57	34				1.29		4	6,779	s.	28	s.	10	20	7	3	2.6	0.0	0.0
Oklahoma City	1,214	10	47	28.75	30.01	+.02	72.6	−0.2	95	12	84	51	26	61	35	60	53	59	0.61	−2.1	4	5,692	s.	20	s.	11	19	8	3	2.9	0.0	0.0
Southern Slope							**72.8**	**−0.7**										**62**	**2.34**	**0.0**										**3.4**		
Abilene	1,738	10	52	28.22	30.00	+.04	74.8	−0.5	96	12	86	49	24	64	37	62	56	63	0.54	−2.2	2	4,729	s.	23	s.	13	16	7	7	4.1	0.0	0.0
Amarillo	3,676	10	49	26.34	30.01	+.05	70.4	+1.1	94	30	84	48	21	57	37	56	48	54	1.31	−1.0	5	5,430	s.	25	n.	4	24	3	3	1.8	0.0	0.0
Del Rio	944	64	71	28.97	29.94	.00	77.4	−1.8	96	2	86	59	22	69	26	68	64	71	7.06	+4.6	10	4,036	se.	22	se.	10	12	8	10	5.2	0.0	0.0
Roswell	3,566	75	85	26.42	29.98	+.06	68.8	−1.5	96	12	82	45	24	55	42	56	48	58	0.43	−1.4	5	4,002	s.	32	n.	20	21	5	4	2.6	0.0	0.0
Southern Plateau							**72.9**	**+2.2**										**44**	**0.12**	**−0.7**										**1.5**		
El Paso	3,778	152	175	26.22	29.92	+.04	74.4	+0.5	95	12	86	54	23	63	30	58	48	47	0.04	−1.2	3	5,517	e.	30	ne.	21	21	5	4	2.8	0.0	0.0
Santa Fe	7,013	38	53	23.37	29.94	+.01	61.5	+0.6	82	16	75	38	22	48	35	46	35	45	0.13	−1.3	2	3,333	e.	18	ne.	9	24	5	1	1.8	0.0	0.0
Flagstaff	6,907	10	59	23.45	29.91	+.02	59.7	+4.2	84	16	77	33	13	43	46	45		51	0.17		4		nw.		sw.	5	18	11	1		0.0	0.0
Phoenix	1,108	10	82	28.66	29.78	−.03	85.2	+2.5	109	16	100	61	13	70	42	64	50	34	0.44	−0.6	1	2,531	e.	15	se.	17	28	1	1	1.2	0.0	0.0
Yuma	141	9	54	29.62	29.76	−.02	86.4	+2.7	112	17	103	60	11	70	46	67	55	43	T.	−0.4	0	2,679	sw.	23	ne.	22	29	1	0	0.3	0.0	0.0
Independence	3,957	6	27	25.92	29.90	+.04	70.4	+2.4	95	2	87	44	28	53	41	49			0.00	−0.1	0		nw.				23	7	0		0.0	0.0
Middle Plateau							**64.4**	**+2.5**										**32**	**0.21**	**−0.5**										**2.1**		
Reno	4,532	74	81	25.48	29.92	−.03	63.4	+3.7	94	2	81	33	13	46	47	46	31	36	T.	−0.3	0	4,147	w.	27	w.	12	23	6	1	2.0	0.0	0.0
Tonopah	6,090	12	20				66.4		86	3	77	39	13	56	31	45	19	17	0.00		0		se.									
Winnemucca	4,344	18	56	25.64	29.98	+.05	60.3	+1.1	95	3	81	26	13	40	53	45	33	43	0.10	−0.3	1	3,962	sw.	29	sw.	12	21	9	0	2.4	0.0	0.0
Modena	5,473	10	43	24.65	29.90	−.02	62.3	+2.3	89	3	81	31	13	43	49	44	26	31	0.19	−0.9	2	6,779	sw.	42	nw.	4	25	5	0	1.5	0.0	0.0
Salt Lake City	4,360	163	203	25.63	29.94	−.01	67.2	+2.8	92	5	80	41	13	54	35	49	31	29	0.16	−0.8	2	4,686	s.	34	se.	26	18	10	2	2.7	0.0	0.0
Grand Junction	4,602	60	68	25.41	29.94	−.01	68.6	+2.4	90	5	83	45	14	54	36	50	34	35	0.61	−0.3	4	3,847	se.	30	w.	8	24	4	2	2.1	0.0	0.0
Northern Plateau							**62.7**	**+2.1**										**42**	**0.38**	**−0.4**										**3.3**		
Baker	3,471	48	53	26.47	30.03	+.04	58.0	+2.0	93	3	75	30	20	41	45	46	33	46	0.60	−0.2	3	3,642	se.	22	sw.	11	19	6	5	3.1	0.0	0.0
Boise	2,739	78	86	27.16	29.98	+.01	64.3	+2.4	93	3	80	38	20	49	39	50	37	43	0.25	−0.3	2	2,607	se.	22	w.	8	17	12	1	2.9	0.0	0.0
Lewiston	757	40	48	29.17	29.97	−.01	64.6	+1.8	100	2	81	38	20	48	47				0.26	−0.4	2	1,767	e.	21	nw.	18	17	6	7	3.5	0.0	0.0
Pocatello	4,477	60	68	25.49	29.94	−.02	62.4	+2.2	89	3	78	34	21	46	44	46	30	34	0.22	−0.7	5	4,615	se.	36	sw.	12	10	13	7	4.7	T.	0.0
Spokane	1,929	101	110	27.95	29.98	.00	61.6	+2.4	95	2	77	35	20	47	45	48	34	43	0.07	−0.8	3	2,879	s.	24	sw.	18	22	4	4	2.7	0.0	0.0
Walla Walla	991	57	65	28.91	29.97	−.03	65.4	+1.6	98	2	78	43	20	53	33	52	40	44	0.86	−0.1	3	2,483	s.	18	w.	18	20	7	3	2.7	0.0	0.0
North Pacific Coast Region							**58.0**	**−0.2**										**73**	**1.19**	**−1.3**										**4.9**		
North Head	211	11	56	29.79	30.01	−.02	55.6	−0.9	87	22	60	48	20	52	35	53	52	89	2.13	−0.4	12	7,345	n.	54	s.	12	9	6	15	6.1	0.0	0.0
Port Angeles	29	8	53		30.03		54.2		71	2	62	39	19	46	26				0.52	−1.3	5	3,311	sw.	27	w.	18	15	6	9		0.0	0.0
Seattle	125	215	250	29.90	30.08	+.07	58.4	+0.3	82	1	65	45	8	52	26	53	49	72	0.53	−1.2	4	4,114	n.	26	s.	13	12	4	14	5.3	0.0	0.0
Tacoma	194	172	201	29.84	30.04	+.02	58.2	+0.9	80	22	66	42	20	50	29				0.48	−1.6	5	4,236	n.	28	sw.	18	8	12	10	5.8	0.0	0.0
Tatoosh Island	86	9	53	29.94	30.04	+.03	52.6	−0.4	75	22	56	46	2	49	23	51	50	92	3.20	−2.9	10	7,782	s.	55	s.	13	8	3	19	6.8	0.0	0.0
Yakima	1,071	5					63.1		98	2	81	34	21	45	54	52		63	0.38		3		nw.				19	9	2	2.9	0.0	0.0
Medford	1,425	4	80	28.47	29.96		63.6		99	21	82	37	8	46	53	52	43	60	1.23		4		nw.	19	se.	16	21	5	4	2.4	0.0	0.0
Portland, Oreg.	153	68	106	29.87	30.03	.00	61.5	−0.2	90	22	70	43	19	53	31	55	50	68	0.65	−1.3	5	3,341	nw.	16	e.	21	10	8	12	5.6	0.0	0.0
Roseburg	510	75	99	29.47	30.01	−.01	61.8	−1.1	91	21	74	39	9	49	48	53	47	64	0.84	−0.4	4	2,295	n.	17	n.	19	14	10	6	4.2	0.0	0.0
Middle Pacific Coast Region							**65.2**	**+0.4**										**65**	**0.12**	**−0.5**										**3.6**		
Eureka	62	73	89	29.96	30.03	+.02	55.2	−0.7	82	21	60	45	11	50	28	52	51	88	0.58	−0.4	3	2,953	n.	25	n.	19	4	10	16	6.7	0.0	0.0
Red Bluff	330	54	58	29.54	29.88	−.05	73.4	+0.3	104	21	91	47	27	56	47	57	44	41	T.	−0.8	0	3,071	nw.	19	w.	7	25	4	1	2.0	0.0	0.0
Sacramento	69	106	117	29.81	29.88	−.01	71.4	+2.1	102	21	87	49	9	56	45	58	48	53	T.	−0.4	0	4,549	s.	20	sw.	11	23	7	0	1.4	0.0	0.0
San Francisco	155	208	243	29.77	29.94	.00	61.2	+0.3	99	21	69	50	3	54	35	54	51	77	0.03	−0.4	2	4,519	w.	30	w.	8	11	10	9	4.7	0.0	0.0
San Jose	141	12	110	29.79	29.94		64.8	+0.1	101	21	79	43	9	51	47				0.00	−0.4	0	3,221	nw.	20	nw.	12	16	13	1	3.0	0.0	0.0
South Pacific Coast Region							**70.9**	**+1.1**										**61**	T.	**−0.2**										**1.6**		
Fresno	327	89	98	29.53	29.87	.00	75.6	+2.2	104	22	92	49	11	59	40	57	40	35	0.00	−0.2	0	4,294	nw.	21	nw.	29	27	3	0	1.0	0.0	0.0
Los Angeles	338	159	191	29.52	29.88	.00	71.0	+2.0	95	6	82	56	22	60	31	60	55	67	0.00	−0.2	0	2,817	sw.	15	sw.	8	25	5	0	1.6	0.0	0.0
San Diego	87	62	70	29.78	29.87	−.02	66.2	−0.9	80	7	72	58	21	60	17	62	59	82	T.	−0.1	0	3,912	nw.	18	nw.	1	24	4	2	2.2	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.84	29.92		80.2	−0.3	90	15	85	70	13	75	16				13.68	+6.9	18	8,607	e.	[1]165	ne.	13	1	25	4	5.9	0.0	0.0
Panama Canal																																
Balboa Heights	118	7	97	[3]29.75	[3]29.83	−.01	79.8	0.0	90	28	85	72	22	75	17				10.44	+2.5	23		nw.		se.	22	0	9	21	8.1	0.0	0.0
Colon	38	7	97	[3]29.82	[3]29.83	−.01	81.8	+1.4	92	5	88	73	22	76	17				15.46	+3.0	23		se.		n.	7	0	5	25	8.4	0.0	0.0
Alaska																																
Juneau	80	11	50	[3]29.85	[3]29.94		49.4		66	23	54	41	6	45	22	48	46	89	8.44		24	4,058	se.	25	e.	9	2	3	25	8.8	0.0	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[3]29.97	[3]30.01		77.9		84	26	82	70	22	73	13	70	66	69	0.51	−0.8	9	6,534	e.	24	e.	5	6	24	0	4.3	0.0	0.0

[1] Estimated; anemometer destroyed before velocity which seemed greatest. [2] Observations taken bi-hourly. [3] Pressure not reduced to mean of 24 hours.

TABLE 2.—*Data furnished by the Canadian Meteorological Service, September, 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*	*Inch*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	°*F.*	*Inches*	*Inches*	*Inch*
Cape Race, N. F	99				53.6		61.3	45.8	70	38	4.24		0.0
Sydney, C. B. I	48	29.99	30.04	+0.03	57.3	+0.8	66.2	48.5	78	37	4.30	+1.02	0.0
Halifax, N. S	88	29.95	30.05	+.01	57.7	+0.1	66.5	49.0	80	34	2.40	−1.31	0.0
Yarmouth, N. S	65	29.91	29.98	−.07	56.7	+0.6	63.8	49.6	76	38	4.21	+0.60	0.0
Charlottetown, P. E. I	38	29.92	29.96	−.05	57.5	+0.2	64.0	51.0	75	41	3.96	+0.56	0.0
Chatham, N. B	28	29.91	29.94	−.06	52.8	−2.6	63.5	42.2	76	29	2.66	−0.05	0.0
Father Point, Que	20												
Quebec, Que	296	29.71	30.03	+.02	53.2	−1.9	59.8	46.6	72	34	2.77	−0.90	0.0
Doucet, Que	1,236				45.6		55.0	36.3	72	22	4.76		0.0
Montreal, Que	187	29.79	29.99	−.05	55.9	−2.5	63.1	48.7	80	36	4.47	+1.17	0.0
Ottawa, Ont	236	29.74	30.00	−.04	55.7	−1.7	64.9	46.6	80	33	4.17	+1.48	0.0
Kingston, Ont	285	29.70	30.01	−.03	57.4	−2.6	64.4	50.5	75	35	1.59	−1.21	0.0
Toronto, Ont	379	29.60	30.00	−.06	57.7	−1.3	66.6	48.8	80	33	2.85	−0.40	0.0
Cochrane, Ont	930				47.7		56.9	38.5	74	27	4.53		0.0
White River, Ont	1,244	28.60	29.92	−.06	46.4	−3.9	56.9	35.9	74	27	3.65	+0.88	5.0
London, Ont	808				57.4		68.2	46.7	87	31	2.92		0.2
Southampton, Ont	656	29.29	30.00	−.05	55.7	−1.8	64.9	46.5	81	34	3.74	+0.80	T.
Parry Sound, Ont	688	29.29	29.99	−.04	53.4	−2.6	61.3	45.6	73	30	7.26	+3.59	0.8
Port Arthur, Ont	644	29.26	29.97	−.01	50.9	−1.3	58.6	43.2	75	29	4.14	+0.66	0.0
Winnipeg, Man	760												
Minnedosa, Man	1,690	28.15	29.96	+.02	49.9	−0.6	62.3	37.6	83	22	0.19	−1.17	0.0
Le Pas, Man	860				48.6		60.6	36.7	79	29	0.44		0.0
Qu'Appelle, Sask	2,115	27.74	29.98	+.06	51.7	+0.6	66.0	37.4	88	16	0.40	−0.93	0.0
Moose Jaw, Sask	1,759				52.7		68.7	36.8	90	13	0.44		0.0
Swift Current, Sask	2,392	27.44	29.95	+.03	54.6	+1.5	71.9	37.3	88	11	0.14	−1.08	0.0
Medicine Hat, Alb	2,144	27.69	29.94	+.02	55.4	+0.4	71.3	39.6	90	18	0.02	−1.16	0.0
Calgary, Alb	3,428	26.45	30.01	+.09	52.8	+3.0	70.0	35.6	87	18	0.04	−1.32	0.0
Banff, Alb	4,521	25.43	29.98	+.05	50.0	+4.2	65.8	34.2	82	20	0.27	−1.40	0.0
Prince Albert, Sask	1,450	28.41	29.98	+.08	49.6	+1.2	63.7	35.6	84	18	0.20	−1.08	0.0
Battleford, Sask	1,592	28 22	29.95	+.05	51.9	+0.1	68.0	35.8	88	15	0.47	−0.78	0.0
Edmonton, Alb	2,150	27.65	29.91	+.01	51.1	+1.8	66.4	35.9	83	14	0.71	−0.62	0.0
Kamloops, B. C	1,262												
Victoria, B. C	230	29.78	30.03	+.02	56.6	+1.8	63.4	49.8	82	46	0.45	−1.71	0.0
Barkerville, B. C	4,180												
Estevan Point, B. C	20												
Prince Rupert, B. C	170												
Hamilton, Ber	151	29.96	30.12	+.05	79.3	+1.9	86.7	72.0	92	69	7.70	+1.19	0.0

LATE REPORTS FOR JULY AND AUGUST, 1928

JULY

Father Point, Que	20	29.84	29.86	+.01	58.6	+1.0	66.6	50.6	77	42	3.32	+0.28	0.0
Barkerville, B. C	4,180	25.71	29.97	+.06	56.2	+1.1	68.0	44.5	80	36	2.68	−0.34	0.0

AUGUST

Sydney, C. B. I	48	29.99	30.04	+.09	65.1	+1.8	73.6	56.5	90	46	1.66	−1.96	0.0
Halifax, N. S	88	29.95	30.05	+.09	65.5	+1.9	73.6	57.5	94	42	0.85	−3.50	0.0
Yarmouth, N. S	65	29.92	29.99	+.02	64.4	+4.2	71.2	57.5	79	47	2.11	−1.51	0.0
Charlottetown, P. E. I	38	29.92	29.96	+.02	66.5	+2.2	73.0	60.0	88	53	3.09	−0.65	0.0
Chatham, N. B	28	29.91	29.94	+.01	63.5	+0.3	72.6	54.5	93	40	4.46	+0.42	0.0
Father Point, Que	20	29.96	29.98	+.07	57.2	+1.6	65.7	48.7	80	40	2.60	−0.45	0.0
Medicine Hat, Alb	2,144	27.66	29.88	+.06	64.2	−1.5	78.2	50.2	97	35	0.27	−1.40	0.0
Calgary, Alb	3,428	26.46	29.98	+.07	58.5	−0.9	72.3	44.8	90	32	1.90	−0.24	0.0
Banff, Alb	4,521	25.44	29.95	+.04	54.7	−1.6	68.5	41.0	87	29	2.05	−0.48	0.0
Edmonton, Alb	2,150	27.66	29.92	.00	57.1	−1.7	69.9	44.3	92	32	1.70	−0.43	0.0
Kamloops, B. C	1,262	28.69	29.95	+.04	67.3	−1.3	80.2	54.4	93	42	0.50	−0.59	0.0
Barkerville, B. C	4,180	25.73	30.02	+.12	51.2	−5.1	62.3	40.1	72	30	2.97	−0.13	0.0
Estevan Point, B. C	20				55.7		61.5	49.9	66	46	4.15		0.0
Prince Rupert, B. C	170				56.5		64.1	49.0	75	45	3.37		0.0

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