CLIMATOLOGICAL TABLES

CONDENSED CLIMATOLOGICAL SUMMARY

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

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

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

Condensed climatological summary of temperature and precipitation by sections, September, 1930

[For description of tables and charts, see Review, January, 1930, p. 37]

Section	Temperature								Precipitation					
	Section average	Departure from the normal	Monthly extremes						Section average	Departure from the normal	Greatest monthly		Least monthly	
			Station	Highest	Date	Station	Lowest	Date			Station	Amount	Station	Amount
	°F.	°F.		°F.			°F.		In.	In.		In.		In.
Alabama	77.0	+1.6	Wetumpka	101	[1] 1	2 stations	42	[1] 27	6.38	+3.11	Robertsdale	14.23	Demopolis	2.23
Arizona	72.2	−1.4	Parker	115	4	do	23	[1] 13	0.97	−0.10	Bagdad	2.69	11 stations	0.00
Arkansas	75.7	+1.5	Hope	106	8	Dutton	35	27	4.10	+0.67	Harrison	11.80	St. Charles	1.21
California	64.0	−3.3	Greenland Ranch	117	4	Ellery Lake	19	30	0.52	−0.02	Kennett	4.40	20 stations	0.00
Colorado	57.7	+0.1	2 stations	98	[1] 18	3 stations	11	26	1.16	−0.34	Dillon	5.80	Estes Park	0.04
Florida	80.7	+1.3	Bonifay	101	9	Mount Pleasant	59	30	8.70	+1.88	Pensacola	18.65	Key West	2.19
Georgia	77.8	+2.5	Hartwell	101	3	Clayton	45	28	6.01	+2.54	Tallapoosa	13.00	Hartwell	1.98
Idaho	57.9	+1.2	Orofino	100	4	Obsidian	13	23	1.11	+0.09	Roland	2.61	Buhl	0.19
Illinois	69.5	+2.1	2 stations	100	2	Paris	30	28	3.64	+0.02	McLeansboro	10.09	Streator	0.36
Indiana	68.4	+1.4	Rome	100	2	2 stations	30	[1] 29	3.62	+0.50	Mount Vernon	7.72	Whiting	1.29
Iowa	66.3	+2.0	Bonaparte (near)	101	13	Decorah	25	29	2.31	−1.36	Lake Park (near)	6.39	Atlantic	0.17
Kansas	70.8	+1.4	3 stations	102	[1] 1	Tribune	28	27	3.00	+0.12	Coffeyville	11.63	Healy	0.34
Kentucky	72.6	+2.2	do	101	[1] 2	Eubank	38	27	2.46	−0.37	Owensboro	6.87	Willow	0.58
Louisiana	78.1	+0.2	Robeline	102	[1] 12	2 stations	47	28	7.11	+3.15	Port Eads	15.53	Logansport	1.84
Maryland-Delaware	73.0	+5.5	2 stations	102	1	3 stations	33	29	1.47	−1.79	Dover, Del	4.34	Rock Hall, Md	0.26
Michigan	61.3	+1.1	3 stations	95	[1] 12	Roscommon (No. 2)	24	4	2.21	−1.00	Painesdale	6.17	Bay City	0.71
Minnesota	58.4	+0.3	Beardsley	93	18	Big Falls	10	30	3.36	+0.46	New Ulm	10.74	Fergus Falls	0.12
Mississippi	76.9	+1.2	Waynesboro	104	8	2 Stations	44	[1] 27	4.66	+1.58	Pearlington	9.51	West Point	1.56
Missouri	71.3	+2.3	Clinton	105	1	Goodland	37	27	4.18	+0.34	Neosho	12.87	Caruthersville	0.74
Montana	56.4	+1.5	3 stations	92	[1] 3	3 stations	16	[1] 1	1.59	+0.27	Stevensville (near)	4.01	Crow Agency	0.18
Nebraska	65.2	+1.4	do	98	[1] 13	2 stations	29	26	1.61	−0.53	Osmond	5.11	Mary	0.05
Nevada	60.5	−1.0	Logandale	104	17	Zorra Vista Ranch	19	26	0.90	+0.47	Sand Pass	2.65	2 stations	0.00
New England	63.4	+3.2	Fall River, Mass	94	3	Garfield, Vt	22	11	1.65	−1.92	Van Buren, Me	6.42	Hingham, Mass	0.12
New Jersey	69.4	+4.1	Flemington	95	2	Charlotteburg	32	29	2.14	−1.44	Plainfield	4.96	Northfield	0.44
New Mexico	63.8	+0.1	Carlsbad	104	19	Therma	11	27	1.02	−0.49	Solano	5.73	12 stations	0.00
New York	64.0	+2.9	2 stations	93	[1] 2	Gabriels	28	9	2.67	−0.74	Walden	9.77	Bridgehampton	0.34
North Carolina	74.3	+4.0	Weldon	103	3	Banners Elk	32	30	3.79	−0.44	Stonewall	9.10	Weldon	0.64
North Dakota	56.2	−0.2	New Salem	98	4	Carrington	10	28	1.02	−0.62	Park River	3.18	Verona	0.00
Ohio	67.7	+2.1	Portsmouth	99	2	Holgate	30	30	2.72	−0.26	Marion	5.37	Gallipolis	0.71
Oklahoma	77.4	+3.3	Hollis	109	12	2 stations	35	[1] 25	2.24	−1.05	Wyandotte	9.50	Oklahoma City	0.16
Oregon	59.1	+1.0	Umatilla	103	3	Fremont	13	23	1.35	−0.02	Brookings	5.45	Riverside	0.17
Pennsylvania	67.8	+3.8	Arendtsville	101	2	Somerset	27	29	2.45	−1.03	Montrose	7.01	Herrs Island Dam	0.64
South Carolina	77.3	+2.9	2 stations	102	3	4 stations	49	[1] 28	4.58	+0.39	Beaufort (near)	13.60	Clemson College	1.33
South Dakota	61.8	+0.6	3 stations	98	18	2 stations	20	28	1.25	−0.53	Flandreau	5.01	2 stations	T.
Tennessee	74.0	+2.7	Etowah	103	1	Crossville	38	[1] 27	3.30	+0.23	Hohenwald	6.31	Union City	1.09
Texas	79.2	+2.0	Crane (near)	109	12	Romero	35	26	1.90	−0.98	Orange	8.64	8 stations	0.00
Utah	60.2	−0.2	St. George	102	3	2 stations	20	[1] 26	1.86	+0.67	Great Basin Experiment Station, Alpine.	5.35	Lemay	0.10
Virginia	74.2	+5.9	5 stations	102	[1] 1	Burkes Garden	32	30	1.35	−1.95	Saltville	3.48	Lincoln	0.28
Washington	59.4	+1.5	Wahluke	100	3	2 stations	20	[1] 24	1.59	−0.46	Quinault	7.25	Cle Elum	T.
West Virginia	69.3	+3.5	Moorefield	106	2	Alpena	29	29	1.46	−1.57	Wheeling	3.81	Lewisburg	0.36
Wisconsin	60.6	+1.1	2 stations	94	[1] 11	2 stations	18	30	3.00	−0.56	Iron River	7.19	Hancock	1.01
Wyoming	54.8	+0.1	Dull Center (near)	94	17	Riverside	13	24	0.92	−0.46	Yoder	3.63	2 stations	0.00
Alaska (August)	53.8	+0.7	Eagle	84	[1] 5	Barrow	26	[1] 19	4.66	+1.19	Mount Roberts (b)	17.44	Tree Point	0.30
Hawaii	76.4	+1.2	Kaanapali	98	15	Volcano Observatory.	52	28	9.10	+3.37	Piihonua	42.68	Ka Lae	0.10
Porto Rico	79.1	+0.2	Mayaguez	96	8	Guineo Reservoir	51	25	6.34	−1.70	Maricao	31.15	Ponce	1.22

[1] Other dates also.

TABLE 1.—*Climatological data for Weather Bureau stations, September, 1930*

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							65.1	+4.3										76	1.06	−2.1										5.1		
Eastport	76	67	85	29.86	29.94	−0.09	58.4	+2.6	74	26	66	45	11	51	22	53	50	80	1.21	−1.6	16	4,905	s.	24	w.	18	4	8	18	7.1	0.0	0.0
Greenville, Me.	1,070	6	----	28.79	29.95	----	57.0	----	82	1	66	36	20	48	33	----	----	----	2.28	----	13	3,009	nw.	----	----	----	6	13	11	----	0.0	0.0
Portland, Me.	103	82	117	29.85	29.97	−.08	64.6	+5.0	88	3	73	47	11	57	24	57	52	71	1.55	−1.6	7	4,676	w.	22	nw.	23	14	9	7	4.2	0.0	0.0
Concorn	289	70	79	29.66	29.97	−.09	63.0	+3.7	87	26	75	36	9	51	39	----	----	----	1.00	−2.4	5	2,706	nw.	15	w.	28	15	10	5	4.1	0.0	0.0
Burlington	403	11	48	29.52	29.95	−.11	61.6	+1.3	85	2	71	38	9	52	35	----	----	----	1.85	−1.6	13	5,224	s.	28	s.	5	4	13	13	6.7	0.0	0.0
Northfield	876	12	60	----	29.98	−.08	58.6	+2.5	84	2	71	32	11	46	41	----	----	81	2.22	−0.8	7	3,794	s.	24	se.	14	4	21	5	6.1	0.0	0.0
Boston	125	106	165	29.84	29.98	−.09	69.4	+6.2	91	16	78	49	30	60	27	60	56	68	0.26	−2.9	3	4,584	sw.	20	sw.	16	9	18	3	4.7	0.0	0.0
Nantucket	12	14	90	29.97	29.98	−.10	67.6	+4.8	83	3	74	52	30	61	18	62	60	83	0.15	−2.3	4	7,965	sw.	28	sw.	12	9	17	4	4.7	0.0	0.0
Block Island	26	11	46	29.95	29.98	−.10	68.3	+4.9	83	3	74	51	30	63	19	63	60	81	0.42	−2.2	4	8,330	sw.	30	w.	27	8	15	7	5.3	0.0	0.0
Providence	160	215	251	29.81	29.98	−.09	68.4	+5.2	90	2	78	47	29	59	27	61	56	71	1.23	−2.0	4	5,800	nw.	36	nw.	6	15	11	4	3.8	0.0	0.0
Hartford	159	122	----	29.82	29.99	−.08	67.5	+5.8	87	2	77	43	29	58	29	----	----	----	1.31	−2.2	6	----	sw.	----	----	----	13	9	8	4.5	0.0	0.0
New Haven	106	74	153	29.88	29.99	−.08	68.3	+4.8	86	3	77	47	29	60	26	62	59	77	0.47	−3.1	8	4,497	s.	23	sw.	28	9	15	6	5.2	0.0	0.0
Middle Atlantic States							72.3	+5.2										72	1.87	−1.3										5.0		
Albany	97	107	115	29.88	29.98	−.09	67.0	+3.9	86	26	77	47	30	57	30	59	55	71	1.96	−1.2	9	3,523	s.	22	se.	5	19	8	3	3.2	0.0	0.0
Binghamton	871	10	84	29.09	30.01	−.06	65.2	+3.9	88	15	77	40	9	54	36	----	----	----	5.37	+2.3	11	2,732	ne.	29	n.	14	7	12	11	5.9	0.0	0.0
New York	314	414	454	29.67	30.00	−.08	71.2	+4.4	89	16	78	51	30	64	20	63	59	71	1.37	−2.0	11	7,776	s.	43	nw.	16	7	15	8	5.7	0.0	0.0
Bellefonte	1,050	5	36	28.90	30.00	----	65.8	----	93	15	81	33	30	51	43	58	53	72	1.42	----	9	----	sw.	----	----	----	10	10	10	5.3	0.0	0.0
Harrisburg	374	94	104	29.62	30.02	−.06	71.8	+6.0	93	2	82	50	29	62	28	62	57	67	2.89	−0.2	8	3,180	w.	30	sw	16	10	14	6	4.8	0.0	0.0
Philadelphia	114	123	367	29.89	30.01	−.07	74.1	+6.1	91	15	82	55	30	66	21	64	59	67	2.57	−0.6	9	6,615	sw	39	w.	2	7	14	9	5.3	0.0	0.0
Reading	325	81	98	29.66	30.00	----	71.4	+5.1	91	2	81	49	30	62	31	62	58	69	3.25	0.0	11	2,879	se.	17	w.	16	9	13	8	5.3	0.0	0.0
Scranton	805	111	119	29.16	30.01	−.06	66.4	+3.5	88	16	78	39	30	55	34	59	55	72	2.76	−0.4	13	3,309	sw.	21	w.	6	12	13	5	4.5	0.0	0.0
Atlantic City	52	37	172	29.95	30.00	−.07	72.3	+5.5	92	3	78	54	30	67	23	66	64	79	0.89	−1.8	9	8,149	s.	36	sw.	16	7	18	5	5.1	0.0	0.0
Cape May	17	13	49	----	----	----	72.6	+3.6	88	25	79	50	30	66	21	67	65	80	2.12	−0.9	5	----	s.	----	----	----	12	10	8	----	0.0	0.0
Sandy Hook	22	10	55	29.96	29.98	----	71.2	----	86	16	77	54	30	66	18	64	61	76	3.33	−0.1	8	7,224	sw.	32	w.	16	7	17	6	5.4	0.0	0.0
Trenton	190	159	183	29.80	30.00	----	70.8	+3.9	90	16	80	49	30	61	30	62	58	71	1.55	−1.8	12	5,114	sw.	37	w.	16	11	11	8	5.1	0.0	0.0
Baltimore	123	100	215	29.85	29.98	−.10	76.2	+7.7	95	25	85	53	30	67	24	65	60	63	0.37	−3.0	8	5,439	sw.	30	nw.	16	8	16	6	5.1	0.0	0.0
Washington	112	62	85	29.89	30.00	−.08	76.0	+7.9	98	2	87	52	28	65	29	65	60	65	0.76	−2.5	4	2,523	s.	22	nw.	27	11	15	4	4.6	0.0	0.0
Cape Henry	18	8	54	29.99	30.01	----	76.8	+5.0	97	15	83	62	30	70	24	70	67	78	0.48	−2.4	6	6,602	sw.	42	nw.	3	10	14	6	4.9	0.0	0.0
Lynchburg	681	153	188	29.30	30.03	−.05	74.5	+5.5	96	2	85	51	28	64	30	64	59	67	0.90	−2.4	7	3,415	w.	32	w.	16	15	10	5	4.0	0.0	0.0
Norfolk	91	170	205	29.93	30.02	−.04	77.7	+6.1	96	3	86	61	30	70	24	69	66	76	0.57	−2.7	5	6,796	s.	29	sw.	16	10	12	8	5.4	0.0	0.0
Richmond	144	11	52	29.87	30.02	−.05	76.8	+6.3	97	2	87	55	28	66	27	66	63	72	1.37	−1.9	7	3,779	sw.	23	sw.	16	11	13	6	4.6	0.0	0.0
Wytheville	2,304	49	55	27.71	30.03	−.04	68.0	+4.4	90	1	78	44	30	58	34	61	58	79	1.09	−2.2	9	2,854	w.	22	nw.	14	7	13	10	6.0	0.0	0.0
South Atlantic States							77.5	+4.2										83	4.52	+0.3										6.0		
Asheville	2,253	70	84	27.75	30.05	−.02	69.0	+4.0	88	1	78	45	28	60	29	62	60	84	4.23	+1.2	16	3,200	se.	19	n.	8	4	14	12	6.5	0.0	0.0
Charlotte	779	55	62	29.22	30.04	−.03	76.2	+4.7	97	3	85	55	30	67	28	68	65	78	2.90	−0.1	11	2,234	sw.	14	sw.	15	8	11	11	5.7	0.0	0.0
Greensboro	886	5	56	29.10	30.05	----	74.4	----	98	3	85	43	30	64	38	66	64	82	1.79	----	10	4,202	sw.	28	nw.	7	7	10	13	6.1	0.0	0.0
Hatteras	11	5	50	30.00	30.01	−.05	78.4	+3.9	87	26	84	66	19	73	17	74	72	84	4.78	+0.2	10	7,189	sw.	60	n.	12	11	10	9	5.0	0.0	0.0
Raleigh	376	103	110	29.64	30.02	−.05	76.6	+5.5	97	3	86	58	28	68	26	69	66	78	3.31	−0.3	8	4,087	sw.	34	n.	7	7	14	9	6.0	0.0	0.0
Wilmington	78	81	91	29.97	30.05	.00	78.6	+5.5	91	14	86	63	29	71	22	72	71	86	5.82	+1.3	12	3,420	sw.	19	w.	17	6	14	10	6.0	0.0	0.0
Charleston	48	11	92	29.99	30.04	.00	80.2	+3.6	92	14	86	66	30	74	17	75	73	84	3.22	−1.3	14	5,336	sw.	24	sw.	16	6	13	11	5.9	0.0	0.0
Columbia, S. C.	351	41	57	29.67	30.04	−.01	78.0	+3.5	96	3	87	58	30	69	26	70	68	82	3.78	+0.3	14	3,247	s.	25	sw.	15	4	18	8	5.7	0.0	0.0
Due West	711	10	55	29.30	30.07	----	76.0	----	96	3	85	56	30	67	29	----	----	----	2.15	----	11	4,142	sw.	25	w.	16	4	13	13	6.4	0.0	0.0
Greenville, S. C.	1,039	139	146	28.96	30.04	----	75.3	+4.7	95	3	84	58	28	67	28	67	64	79	2.74	−0.9	12	4,221	ne.	22	w.	14	4	16	10	6.1	0.0	0.0
Augusta	182	62	77	29.83	30.02	−.03	79.1	+3.8	96	14	88	58	30	70	25	71	69	82	5.85	+2.5	16	2,578	s.	19	sw.	26	6	15	9	5.8	0.0	0.0
Savannah	65	150	194	29.96	30.02	−.01	80.0	+3.8	94	14	88	64	30	72	22	74	72	87	9.43	+4.0	18	5,549	s.	31	w.	26	4	15	11	6.2	0.0	0.0
Jacksonville	43	209	245	29.97	30.02	+.02	81.0	+2.7	93	12	88	67	30	74	20	74	73	86	3.62	−3.7	15	5,875	e.	38	s.	14	4	15	11	6.3	0.0	0.0
Florida Peninsula							82.3	+1.6										80	3.79	−3.4										5.9		
Key West	22	10	64	29.94	29.96	+0.02	83.4	+1.2	90	12	88	73	2	79	15	77	75	78	2.19	−4.5	12	6,258	se.	25	s.	6	7	15	8	5.8	0.0	0.0
Miami	25	124	168	29.97	30.00	+.02	82.2	+2.1	88	15	87	74	9	78	13	77	74	78	5.05	−3.3	20	6,400	se.	27	s.	8	7	13	10	5.9	0.0	0.0
Tampa	35	79	197	29.96	29.99	+.02	81.4	+1.5	94	24	89	70	8	74	20	74	73	84	4.13	−2.3	19	6,121	e.	37	e.	18	3	19	8	6.4	0.0	0.0
Titusville	44	5	----	29.96	30.01	----	82.3	----	96	26	90	71	15	74	23	----	----	----	6.84	----	15	----	se.	----	----	----	9	13	8	5.4	0.0	0.0
East Gulf States							77.4	+1.7										82	6.74	+2.5										6.3		
Atlanta	1,173	190	216	28.82	30.03	−.02	75.6	+3.2	92	1	83	56	28	68	26	67	65	77	3.52	+0.5	14	3,857	e.	23	se.	4	5	9	16	6.8	0.0	0.0
Macon	370	78	87	29.64	30.03	.00	77.8	+3.0	94	4	87	56	28	68	29	70	68	80	2.30	−0.9	10	2,809	s.	16	s.	16	4	14	12	6.7	0.0	0.0
Thomasville	273	49	103	29.72	30.01	.00	79.1	+2.3	93	8	88	65	30	70	22	72	70	86	8.09	+3.2	15	3,506	se.	26	w.	13	3	15	12	6.8	0.0	0.0
Apalachicola	36	11	51	29.96	30.00	----	80.0	----	89	12	86	68	30	74	18	75	73	82	10.18	+2.1	17	4,902	se.	31	se.	2	13	10	7	5.0	0.0	0.0
Pensacola	56	149	185	29.94	30.00	+.01	77.5	−0.5	89	9	83	62	29	72	16	74	72	84	18.65	+13.3	14	6,648	ne.	36	nw.	20	3	12	15	6.8	0.0	0.0
Anniston	741	9	57	29.26	30.04	+.01	75.6	+4.3	96	9	86	49	28	65	31	----	----	----	4.19	+0.5	13	1,927	s.	14	nw.	10	9	12	9	5.3	0.0	0.0
Birmingham	700	11	48	29.27	30.02	−.01	76.6	+1.8	96	9	86	52	28	67	29	69	67	82	3.08	−0.3	10	3,077	s.	18	se.	4	6	13	11	6.0	0.0	0.0
Mobile	57	125	161	29.93	29.99	−.01	78.4	+0.3	94	1	85	64	29	72	22	73	71	86	11.49	+6.5	13	4,850	n.	30	se.	4	2	11	17	7.1	0.0	0.0
Montgomery	223	100	112	29.77	30.02	.00	78.2	+1.9	96	9	87	60	28	70	25	70	68	79	6.78	+3.8	14	2,786	ne.	24	n.	9	6	11	13	6.6	0.0	0.0
Corinth	469	6	----	----	----	----	76.5	----	100	7	88	47	27	65	39	----	----	----	8.36	----	9	----	se.	----	----	----	8	20	2	----	0.0	0.0
Meridian	375	87	95	29.61	30.00	−.02	76.4	+1.9	95	8	85	52	28	68	26	70	68	82	2.35	−0.6	12	2,790	ne.	19	sw.	15	5	12	13	6.5	0.0	0.0
Vicksburg	247	65	73	29.73	30.00	−.02	77.2	+0.9	96	8	86	55	28	68	24	69	67	80	2.93	+0.1	10	3,707	se.	21	s.	15	9	12	9	5.4	0.0	0.0
New Orleans	53	76	84	29.92	29.97	−.01	79.2	0.0	92	4	86	64	15	73	22	73	72	85	7.30	+2.3	20	3,428	ne.	18	sw.	15	3	17	10	6.4	0.0	0.0
West Gulf States							78.8	+1.7										73	3.06	−0.6										4.5		
Shreveport	249	77	93	29.69	29.96	−.04	78.3	+1.4	98	12	88	55	27	68	25	70	67	76	4.88	+2.1	11	3,207	se.	29	ne	3	11	13	6	4.7	0.0	0.0
Bentonville	1,303	11	44	28.62	29.96	−.06	72.8	+3.9	97	1	84	44	27	61	32	----	----	----	5.73	----	7	2,998	s.	20	ne.	15	25	2	3	----	0.0	0.0
Fort Smith	457	79	94	29.48	29.95	−.06	77.4	+3.4	100	7	89	48	27	66	33	67	62	65	2.47	−0.5	8	4,360	e.	46	nw.	14	12	12	6	4.3	0.0	0.0
Little Rock	357	136	153	29.60	29.97	−.06	76.5	+2.4	97	13	86	51	27	67	30	67	63	70	2.86	−0.3	9	4,434	s.	39	nw.	15	9	12	9	5.2	0.0	0.0
Austin	605	136	148	29.31	29.94	----	79.7	+1.4	98	1	90	58	18	69	32	69	64	68	3.01	−0.4	7	4,469	se.	33	n.	10	9	16	5	4.7	0.0	0.0
Brownsville	57	83	100	29.84	29.90	----	82.6	+2.0	94	11	91	65	16	75	25	74	72	81	2.80	−2.7	8	6,555	se.	38	n.	16	13	13	4	4.4	0.0	0.0
Corpus Christi	20	11	78	29.90	29.92	−.03	81.6	+1.9	96	15	88	67	17	75	26	75	73	80	3.72	−0.8	10	7,746	se.	38	ne.	3	10	14	6	5.0	0.0	0.0
Dallas	512	220	227	29.41	29.94	----	78.4	----	98	12	88	55	26	69	29	----	----	----	1.65	−1.1	6	6,413	se.	50	w.	14	23	4	3	2.8	0.0	0.0
Fort Worth	670	106	114	29.23	29.94	−.05	78.9	+2.0	100	12	89	53	27	68	28	68	63	65	1.19	−1.3	4	5,481	se.	27	sw.	25	15	9	6	4.0	0.0	0.0
Galveston	54	106	114	29.91	29.97	−.01	79.8	−0.3	90	2	84	65	27	75	16	74	72	79	4.41	−1.2	9	6,853	s.	25	s.	15	6	16	8	5.4	0.0	0.0
Groesbeck	461	11	56	29.47	29.94	----	78.4	----	96	8	88	54	27	68	27	----	----	----	3.11	+0.1	6	5,857	s.	27	sw.	26	13	11	6	4.2	0.0	0.0
Houston	138	292	314	29.81	29.96	----	79.2	+0.2	97	11	88	60	27	71	24	----	----	----	2.14	−1.9	8	7,356	ne.	37	n.	26	7	17	6	4.9	0.0	0.0
Palestine	510	64	72	29.44	29.96	−.03	77.6	+0.6	95	12	87	53	27	68	24	69	65	74	2.46	−0.4	10	4,198	s.	22	nw.	15	14	11	5	3.9	0.0	0.0
Port Arthur	34	58	66	29.91	29.95	----	78.8	----	94	11	86	60	27	72	23	73	71	82	5.39	+0.6	12	4,814	e.	35	nw.	15	4	15	11	5.9	0.0	0.0
San Antonio	693	242	301	29.21	29.91	−.05	80.7	+1.7	100	11	92	58	27	70	28	69	64	64	1.74	−1.3	5	7,050	se.	36	e.	3	11	15	4	4.1	0.0	0.0
Taylor	571	38	51	29.38	29.98	+.01	79.0	+2.1	98	8	90	54	27	68	30	----	----	----	4.08	+0.7	6	4,681	s.	23	s.	14	15	14	1	3.6	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, September, 1930*—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.	°F.	%	In.	In.		Miles								0-10	In.	In.
Ohio Valley and Tennessee							**71.5**	**+2.8**										**71**	**2.82**	**−0.2**										**5.4**		
Chattanooga	762	190	215	29.22	30.01	−0.05	75.2	+3.0	95	1	84	53	30	67	27	67	64	75	3.32	+0.2	15	3,442	se.	29	nw.	13	4	17	9	6.1	0.0	0.0
Knoxville	995	102	111	29.00	30.03	−.03	73.9	+3.3	95	1	83	49	30	65	28	66	63	77	4.56	+1.9	12	2,972	ne.	25	n.	14	5	15	10	6.1	0.0	0.0
Memphis	399	76	97	29.56	29.98	−.05	76.8	+3.2	97	2	86	53	27	68	26	67	63	70	2.12	−0.7	9	4,148	s.	36	n.	12	6	13	11	6.0	0.0	0.0
Nashville	546	168	191	29.45	30.03	−.03	74.4	+2.6	96	2	84	47	27	65	33	65	61	72	3.88	+0.5	7	4,076	s.	38	nw.	7	9	13	8	5.4	0.0	0.0
Lexington	989	193	230	29.00	30.05	−.02	71.2	+2.7	94	2	80	46	27	62	33				2.80	−0.3	7	6,961	sw.	50	nw.	14	11	8	11	5.4	0.0	0.0
Louisville	525	188	234	29.45	30.03	−.03	71.9	+1.4	94	2	81	50	27	63	29	63	59	71	2.35	−0.4	9	5,188	s.	49	w.	2	9	13	8	5.3	0.0	0.0
Evansville	431	76	116	29.54	30.00	−.06	72.8	+2.1	95	2	82	51	27	64	28	64	60	73	3.39	+0.1	11	4,565	s.	38	nw.	2	10	7	13	5.7	0.0	0.0
Indianapolis	822	194	230	29.12	30.00	−.06	69.2	+2.3	88	2	79	43	30	60	27	60	55	67	2.86	−0.5	8	5,871	sw.	44	nw.	14	12	11	7	4.9	0.0	0.0
Royal Center	736	11	55	29.21	30.00		65.4		87	13	77	33	30	54	35				4.52	+1.6	9	4,985	s.	28	sw.	26	11	11	8	4.8	0.0	0.0
Terre Haute	575	96	129	29.38	29.99		70.3		90	2	80	45	30	60	32	61	57	70	3.95	+0.3	8	5,018	s.	33	nw.	14	11	6	13	5.2	0.0	0.0
Cincinnati	627	11	51	29.35	30.02	−.05	70.2	+3.1	92	2	81	44	30	60	33	61	56	70	4.38	+1.7	11	3,551	sw.	27	sw.	2	10	7	13	5.2	0.0	0.0
Columbus	822	216	230	29.15	30.01	−.06	69.0	+2.5	89	23	78	43	30	59	31	60	54	67	1.05	−1.5	7	5,752	sw.	37	w.	26	12	10	8	4.7	0.0	0.0
Dayton	899	137	173	29.06	30.00		69.0	+2.4	88	2	79	43	30	59	29	60	56	71	2.76	−0.2	8	4,441	sw.	33	sw.	26	14	9	7	4.2	0.0	0.0
Elkins	1,947	59	67	28.03	30.04	−.04	66.2	+3.2	90	1	79	35	29	53	37	58	55	76	1.44	−1.7	8	2,308	w.	20	w.	27	5	13	12	6.4	0.0	0.0
Parkersburg	637	77	82	29.39	30.04	−.04	70.8	+3.5	95	2	82	43	29	59	33	60	55	67	1.01	−1.8	10	2,885	se.	24	nw.	26	9	11	10	5.9	0.0	0.0
Pittsburgh	842	353	410	29.12	30.01	−.07	69.8	+3.4	92	2	80	44	30	60	32	59	53	64	0.74	−1.8	9	5,239	sw.	28	sw.	3	11	12	7	5.1	0.0	0.0
Lower Lake Region							**65.5**	**+2.6**										**70**	**2.56**	**−0.4**										**4.8**		
Buffalo	767	247	280	29.14	29.96	−.10	64.9	+2.5	83	26	71	42	30	58	23	60	57	78	1.56	−1.4	8	9,896	sw.	62	sw.	27	12	11	7	4.4	0.0	0.0
Canton	448	10	61	29.47	29.94		61.0	+1.7	86	2	71	34	9	51	32				1.51	−1.8	13	4,988	sw.	30	sw.	15	4	17	9	5.6	0.0	0.0
Ithaca	836	5	100	29.09	29.99		64.2	+2.6	87	12	76	37	30	53	38	56	53	76	2.07	−1.0	8	4,505	s.	25	s.	5	8	17	5	5.0	0.0	0.0
Oswego	335	76	91	29.60	29.97	−.09	64.0	+2.8	86	15	72	45	29	56	33	58	54	72	3.91	+1.2	10	4,846	s.	22	w.	27	6	17	7	5.6	0.0	0.0
Rochester	523	86	102	29.42	29.99	−.07	65.4	+3.0	88	15	74	42	30	56	32	56	51	66	1.55	−0.9	6	4,253	sw.	28	sw.	26	9	13	8	5.5	0.0	0.0
Syracuse	596	65	79	29.34	29.98	−.09	66.5	+4.9	90	12	76	44	9	57	34				3.20	+0.5	11	3,612	s.	18	nw.	3	11	10	9	5.1	0.0	0.0
Erie	714	130	166	29.22	29.98	−.08	66.6	+3.0	87	2	74	45	29	59	28	59	54	69	2.64	−0.8	9	7,653	sw.	39	sw.	26	14	8	8	4.1	0.0	0.0
Cleveland	762	267	337	29.18	30.00	−.06	67.2	+3.3	87	1	74	45	29	61	30	58	52	63	1.69	−1.6	9	8,109	s.	40	s.	26	12	7	11	5.2	0.0	0.0
Sandusky	629	5	67	29.33	30.01	−.05	67.6	+2.3	89	13	77	42	29	58	34				3.88	+0.9	8	4,904	sw.	26	sw.	26	11	12	7	4.6	0.0	0.0
Toledo	628	208	243	29.33	30.00	−.06	66.3	+1.9	88	13	75	42	30	57	28	58	52	66	2.24	−0.6	8	8,010	sw.	46	sw.	26	16	8	6	3.9	0.0	0.0
Fort Wayne	856	100	119	29.08	30.00		66.3	+0.8	88	13	76	40	28	56	30	58	54	72	3.45	+0.4	12	5,071	sw.	31	sw.	26	9	11	10	5.4	0.0	0.0
Detroit	730	218	258	29.22	30.00	−.06	66.2	+2.7	87	13	75	42	29	57	30	57	52	69	2.97	+0.1	9	5,983	sw.	48	sw.	26	17	8	5	3.5	0.0	0.0
Upper Lake Region							**61.1**	**+1.5**										**71**	**2.33**	**−1.0**										**4.8**		
Alpena	609	13	92	29.28	29.95	−.08	58.7	+1.1	85	19	69	36	29	49	30	53	49	77	1.47	−1.5	10	6,585	nw.	30	s.	26	7	15	8	5.4	0.0	0.0
Escanaba	612	54	60	29.26	29.92	−.09	57.7	+0.6	79	1	66	35	30	49	27	52	47	73	1.74	−1.6	9	6,108	s.	25	sw.	26	13	12	5	4.4	0.0	0.0
Grand Haven	632	54	89	29.27	29.94	−.10	62.8	+1.9	82	23	71	38	30	55	25	57	52	69	1.28	−2.4	8	7,420	sw.	42	sw.	26	11	12	7	4.9	0.0	0.0
Grand Rapids	707	70	244	29.22	29.98	−.07	65.2	+2.5	89	12	76	39	30	55	33	55	49	63	1.48	−2.0	8	7,464	sw.	54	sw.	26	9	11	10	5.2	0.0	0.0
Houghton	663	64	99	29.60	29.88	−.12	56.6	−0.3	84	23	65	34	30	48	33				4.23	+0.7	18	7,146	w.	36	w.	28	5	13	12	6.1	0.0	0.0
Lansing	878	6	49	29.04	29.98		63.0	+1.6	88	13	75	36	29	51	34	56	52	75	1.42	−1.5	10	2,966	w.	19	w.	27	17	6	7	4.0	0.0	0.0
Ludington	637	60	66	29.25	29.95		61.2	+1.9	80	23	68	43	28	54	26	55	51	70	2.21	−1.0	7	7,378	s.	49	sw.	26	15	12	3	3.5	0.0	0.0
Marquette	734	77	111	29.10	29.90	−.10	58.8	+1.3	83	24	68	39	30	50	30	51	47	71	3.63	+0.4	15	6,951	w.	31	sw.	19	6	9	15	6.6	0.0	0.0
Port Huron	638	70	120	29.29	29.98	−.08	64.0	+2.4	86	14	74	38	29	54	29	56	51	71	2.12	−0.7	6	6,653	w.	31	sw.	26	11	12	7	4.7	0.0	0.0
Sault Sainte Marie	614	11	52	29.23	29.92	−.10	56.8	+1.3	83	1	65	38	22	49	29	52	49	79	3.42	−0.8	13	5,690	nw.	29	nw.	17	11	9	10	5.2	0.0	0.0
Chicago	673	7	131	29.26	29.98	−.06	66.9	+1.7	89	13	75	40	28	59	30	58	53	68	1.29	−1.8	6	6,048	sw.	36	sw.	26	16	7	7	4.1	0.0	0.0
Green Bay	617	109	141	29.26	29.92	−.10	62.4	+2.0	88	23	73	35	28	52	35	53	47	65	1.64	−1.9	8	7,012	s.	34	w.	26	11	8	11	5.2	0.0	0.0
Milwaukee	681	125	221	29.22	29.95	−.08	65.0	+2.5	87	12	73	40	28	57	29	57	51	67	1.97	−1.3	7	7,778	w.	44	sw.	26	18	5	7	3.7	0.0	0.0
Duluth	1,133	5	47	28.70	29.92	−.06	55.8	+0.7	83	11	66	30	30	46	32	49	45	78	4.68	+1.4	12	8,149	w.	36	nw.	4	13	11	6	4.2	0.0	0.0
North Dakota							**57.1**	**−0.1**										**62**	**1.02**	**−0.6**										**4.1**		
Moorhead	940	50	58	28.90	29.92	−.04	58.8	+0.6	89	23	71	24	28	46	41	49	41	58	0.52	−1.7	3	5,491	nw.	27	sw.	23	10	15	5	4.6	0.0	0.0
Bismarck	1,674	8	57	28.14	29.92	−.02	57.7	−0.4	88	10	70	25	28	45	38	48	41	63	2.70	+1.5	7	5,710	nw.	38	w.	11	15	10	5	3.7	0.0	0.0
Devils Lake	1,478	11	44	28.34	29.91	−.03	55.5	−0.4	90	10	68	17	28	42	39	46	39	63	0.96	−0.7	5	5,834	w.	31	sw.	24	11	11	8	4.6	0.0	0.0
Ellendale	1,457	10	56	28.38	29.95		57.0		85	23	70	22	28	44	43				0.29	−1.7	4	8,016	nw.	37	sw.	23	15	8	7	4.3	0.0	0.0
Grand Forks	833	12	67				56.4		87	23	69	21	29	44	40	49			1.43		6		nw.	36	sw.	23	10	19	1		0.0	0.0
Williston	1,878	41	48	27.94	29.91	−.02	56.4	−0.2	86	10	69	26	27	44	43	47	41	64	0.65	−0.4	7	4,783	w.	32	w.	24	19	8	3	3.2	0.0	0.0
Upper Mississippi Valley							**67.4**	**+2.2**										**6.7**	**2.71**	**−0.9**										**4.3**		
Minneapolis	918	102	208	28.94	29.91		62.4	+1.0	88	12	73	34	28	52	35				4.14	+1.0	9	7,221	w.	42	n.	26	13	7	10	4.6	0.0	0.0
St. Paul	837	236	261	29.02	29.92	−.07	61.5	+0.2	86	12	72	34	28	51	38				2.90	−0.2	9	7,786	se.	47	nw.	26	13	10	7	4.3	0.0	0.0
La Crosse	714	11	48	29.16	29.93	−.08	62.1	−0.1	90	23	74	33	28	50	45	54	50	72	3.51	−0.5	9	2,478	s.	17	nw.	26	18	5	7	3.9	0.0	0.0
Madison	974	70	78	28.92	29.95	−.08	63.8	+1.4	87	12	73	36	28	54	32	55	49	66	4.79	+1.1	10	4,973	s.	23	s.	26	20	3	7	3.7	0.0	0.0
Wausau	1,247	4	62	28.61	29.94		60.8		87	23	73	30	30	49	42				2.10	−1.6	9	4,054	w.	23	nw.	26	11	9	10	5.4	0.0	0.0
Charles City	1,015	10	51	28.89	29.96	−.04	62.4	+1.4	89	18	75	32	28	50	41	53	48	68	2.48	−1.2	9	3,835	se.	24	nw.	26	20	6	4	2.8	0.0	0.0
Davenport	606	71	79	29.30	29.95	−.08	68.9	+3.3	93	13	80	41	28	58	32	58	53	64	0.39	−3.2	4	5,604	s.	39	sw.	26	16	7	7	4.1	0.0	0.0
Des Moines	861	5	99	29.04	29.93	−.09	68.2	+2.6	94	22	81	39	28	56	41	57	51	62	1.53	−2.1	5	5,705	s.	38	nw.	26	12	9	9	4.8	0.0	0.0
Dubuque	700	81	96	29.21	29.95	−.08	65.6	+1.6	89	12	77	36	30	55	40	56	50	67	2.52	−1.5	5	3,790	s.	19	s.	26	19	5	6	3.5	0.0	0.0
Keokuk	614	64	78	29.30	29.97	−.06	71.0	+3.5	97	1	82	45	28	60	33	60	54	63	2.97	−0.9	4	4,341	sw.	38	w.	14	15	7	8	4.3	0.0	0.0
Cairo	358	87	93	29.61	29.98	−.07	74.0	+2.5	94	2	83	50	27	65	28	65	62	74	2.65	−0.2	8	4,096	s.	30	sw.	24	8	7	15	6.2	0.0	0.0
Peoria	609	11	45	29.33	29.99	−.05	69.8	+5.5	94	13	82	38	28	58	37	59	54	68	1.31	−2.7	6	3,464	s.	27	sw.	14	19	8	3	2.9	0.0	0.0
Springfield, Ill	636	154	191	29.31	29.98	−.07	69.9	+2.3	92	1	80	45	28	60	27	60	55	67	2.71	−0.9	8	7,203	s.	46	sw.	25	15	5	10	4.5	0.0	0.0
Hannibal	534	74	109	29.41	29.97	−.06	71.4	+3.7	98	1	82	43	28	61	33				3.12	−0.8	4	5,024	sw.	36	sw.	26	13	8	9	4.7	0.0	0.0
St. Louis	568	265	303	29.37	29.97	−.07	72.6	+2.5	96	1	82	50	27	64	29	62	57	67	3.51	0.0	8	7,044	sw.	54	nw.	14	16	4	10	4.4	0.0	0.0
Missouri Valley							**67.9**	**+1.8**										**64**	**2.48**	**−0.7**										**3.9**		
Columbia, Mo	784	6	84	29.14	29.96	−.07	70.6	+2.4	100	1	81	46	27	60	35				3.39	−1.0	9	4,260	s.	31	sw.	25	13	8	9	4.6	0.0	0.0
Kansas City	963	161	181	28.92	29.94	−.08	72.4	+3.5	97	1	82	47	26	63	39	63	57	66	2.61	−2.0	11	5,396	s.	36	nw.	13	13	10	7	4.2	0.0	0.0
St. Joseph	967	11	49	28.91	29.93		70.2		93	13	81	44	26	60	39	61	57	71	2.75	−1.1	10	4,444	se.	33	w.	25	16	8	6	3.7	0.0	0.0
Springfield, Mo	1,324	98	104	28.61	29.99	−.04	71.4	+2.5	95	1	80	46	26	63	27	63	58	70	3.25	−0.3	7	6,144	s.	31	s.	25	21	7	2	2.2	0.0	0.0
Iola	984	11	50	28.90	29.92	−.09	72.4	+2.6	100	1	84	44	28	61	39				6.72	+1.8	9	3,167	s.	26	ne.	14	15	5	10	4.4	0.0	0.0
Topeka	987	92	107				71.6	+2.9	97	1	82	47	26	61	43				5.85	+2.0	10	5,385	sw.	35	w.	25	13	10	7	4.3	0.0	0.0
Lincoln	1,189	11	81	28.68	29.92	−.07	68.0	+1.6	95	22	80	43	26	56	39	59	54	67	1.36	−1.6	5	5,554	s.	34	nw.	26	13	10	7	4.3	0.0	0.0
Omaha	1,105	115	122	28.77	29.93	−.07	68.6	+1.8	93	22	79	43	26	58	35	58	52	63	0.65	−2.6	4	4,147	s.	32	nw.	26	17	6	7	3.7	0.0	0.0
Valentine	2,598	47	54	27.26	29.95	−.01	63.6	+1.1	94	18	78	34	25	49	44	52	44	60	0.54	−0.8	5	5,034	w.	36	sw.	22	12	16	2	3.7	T.	0.0
Sioux City	1,135	94	164	28.75	29.94	−.04	65.8	+2.4	90	12	77	41	27	54	40	56	50	64	2.46	−0.6	6	7,098	se.	39	nw.	26	13	11	6	4.5	0.0	0.0
Huron	1,306	59	74	28.57	29.96	.00	61.2	−0.1	89	4	74	29	27	48	38	52	45	62	1.34	−0.2	6	5,483	w.	26	w.	18	18	8	4	3.3	0.0	0.0
Pierre	1,572	70	75	28.27	29.92	−.03	64.0	+0.2	93	13	77	35	29	51	40	52	43	54	0.25	−0.8	2	5,520	e.	30	w.	18	14	13	3	4.2	0.0	0.0
Yankton	1,233	49	57	28.64	29.95	−.03	65.2	+1.2	90	18	77	39	27	54	40				1.04	−1.7	6	4,441	nw.	25	sw.	23	15	10	5	3.8	0.0	0.0

TABLE 1.—*Climatological data for Weather Bureau stations, September, 1930*—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.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Northern Slope							58.3	+1.0										59	1.13	−0.1										4.4		
Billings	3,140	5					59.1		89	4	77	27	26	41	53				0.68		6		nw.				9	9	12		0.0	0.0
Havre	2,505	11	44	27.31	29.92	−0.02	57.6	+1.2	89	3	71	33	20	44	44	48	40	61	1.39	+0.1	10	3,722	sw.	27	sw.	10	10	13	7	5.0	T.	0.0
Helena	4,124	89	113	25.78	29.92	−.05	57.7	+1.1	86	3	69	32	24	46	39	47	38	55	1.12	−0.1	8	5,127	sw.	27	sw.	23	7	14	9	5.7	0.0	0.0
Kalispell	2,973	48	56	26.90	29.92	−.04	56.9	+3.4	85	4	69	33	1	45	38	48	42	63	2.67	+1.4	7	3,144	ne.	24	ne.	21	7	7	16	6.2	0.0	0.0
Miles City	2,371	48	55	27.43	29.95	.00	60.8	−0.4	88	17	74	32	26	47	44	50	43	58	1.08	0.0	5	3,716	s.	24	w.	23	11	17	2	4.1	0.0	0.0
Rapid City	3,259	50	58	26.60	29.98	+.02	60.9	+.05	94	22	75	33	25	47	39	49	39	54	0.76	−0.4	3	4,122	w.	25	sw.	22	13	12	5	4.6	T.	0.0
Cheyenne	6,088	84	101	24.06	29.95	−.01	56.8	−0.2	80	20	70	32	26	43	43	45	38	57	1.28	+0.1	8	5,997	w.	36	nw.	25	14	10	6	4.2	0.0	0.0
Lander	5,372	60	68	24.66	29.94	−.02	57.4	+1.7	85	18	73	28	26	42	50	46	39	57	0.10	−0.8	2	2,966	sw.	25	sw.	10	20	8	2	2.9	0.0	0.0
Sheridan	3,790	10	47	26.07	29.94		57.2		87	3	75	27	26	39	51	46	37	58	T.	−1.3	0	2,273	nw.	19	nw.	23	19	8	3	3.2	0.0	0.0
Yellowstone Park	6,241	11	48		29.98	+.01	51.2	−2.2	77	3	64	26	1	38	39			62	1.36	+0.1	10	4,328	sw.	30	sw.	11	7	16	7		1.3	0.0
North Platte	2,821	11	51	27.05	29.94	−.03	65.6	+3.5	95	18	80	37	25	52	42	55	49	66	1.52	+0.2	5	3,544	se.	25	sw.	13	16	10	4	3.9	0.0	0.0
Middle slope							70.2	+2.1										59	2.11	−0.2										3.9		
Denver	5,292	106	113	24.76	29.94	−.02	63.8	+0.9	86	18	76	36	26	51	37	49	38	46	0.27	−0.7	4	4,220	s.	28	w.	25	14	10	6	4.7	0.0	0.0
Pueblo	4,685	80	86	25.27	29.88	−.08	65.6	+1.0	92	18	80	32	26	51	41	51	41	50	1.03	+0.3	4	3,941	e.	34	nw.	25	15	12	3	4.1	0.0	0.0
Concordia	1,392	50	58	28.50	29.95	−.04	70.2	+1.9	93	22	82	43	26	58	45	60	55	68	1.78	−0.8	4	4,416	s.	30	nw.	25	18	8	4	3.7	0.0	0.0
Dodge City	2,509	11	51	27.38	29.94	−.04	71.3	+1.9	94	22	84	40	26	58	40	59	52	63	2.70	+0.8	6	5,501	se.	28	nw.	25	22	6	2	2.2	0.0	0.0
Wichita	1,358	139	158	28.51	29.91	−.09	72.9	+2.3	94	12	84	44	26	62	45	63	57	65	5.29	+2.2	10	7,591	s.	42	sw.	25	13	14	3	4.0	0.0	0.0
Broken Arrow	765	11	56	29.14	29.96		75.8		101	12	87	47	26	64	34				3.52	−0.1	7	7,785	s.	66	nw.	25	12	9	9	4.6	0.0	0.0
Oklahoma City	1,214	10	47	28.67	29.92	−.07	77.6	+4.8	102	12	90	45	26	66	40	64	58	60	0.16	−2.9	3	5,799	s.	28	nw.	25	16	7	7	4.3	0.0	0.0
Southern slope							77.5	+4.0										49	1.41	−1.1										3.4		
Abilene	1,738	10	52	28.15	29.91	−.05	79.4	+4.1	100	12	91	52	27	68	30	64	56	55	4.85	+2.2	5	5,967	s.	28	w.	8	15	9	6	3.8	0.0	0.0
Amarillo	3,676	10	49	26.27	29.92	−.04	73.8	+4.5	98	19	88	40	26	60	36	57	46	48	0.20	−2.1	4	6,005	s.	24	s.	22	14	15	1	3.6	0.0	0.0
Del Rio	944	64	71	28.90	29.86	−.08	83.4	+4.2	102	11	94	65	27	73	29	68	60	52	0.04	−2.9	1	5,499	se.	26	n.	26	20	8	2	3.0	0.0	0.0
Roswell	3,566	75	85	26.35	29.89	−.03	73.3	+3.0	100	19	88	47	28	58	43	56	43	42	0.55	−1.6	4	4,380	s.	24	sw.	22	16	11	3	3.4	0.0	0.0
Southern plateau							70.7	−0.1										42	0.49	−0.3										2.8		
El Paso	3,778	152	175	26.17	29.85	−.03	77.3	+3.4	97	18	90	55	28	65	33	56	38	29	0.04	−1.2	2	6,105	e.	36	w.	22	22	8	0	2.4	0.0	0.0
Santa Fe	7,013	38	53	23.33	29.90	−.03	60.4	−0.5	81	1	73	34	26	48	34	46	35	46	1.89	+0.4	6	3,495	se.	26	sw.	22	15	7	8	4.2	0.0	0.0
Flagstaff	6,907	10	59	23.41	29.89	.00	55.8	+0.3	81	4	71	30	25	41	43	45		62	2.06		3	5,105	sw.	26	sw.	30	9	16	5		0.0	0.0
Phoenix	1,108	10	107	28.66	29.79	−.02	82.2	−0.5	108	4	97	59	25	68	39	61	46	34	0.51	−0.2	2	3,263	e.	28	sw.	6	20	5	5	2.7	0.0	0.0
Yuma	141	9	54	29.65	29.79	+.01	82.2	−1.5	110	3	98	56	27	67	42	63	51	41	T.	−0.4	0	3,064	w.	18	ne.	22	23	7	0	1.7	0.0	0.0
Independence	3,957	6	27	25.91	29.89	+.03	66.4	−1.6	94	4	83	33	30	50	40	48			T.	−0.1	0		s.				21	21	5		0.0	0.0
Middle Plateau							61.7	−0.2										42	1.12	+0.4										3.7		
Reno	4,532	74	81	25.43	29.88	−.07	60.4	+0.7	88	2	75	32	25	46	39	46	34	46	1.15	+0.9	4	4,196	w.	30	w.	22	17	8	5	3.4	0.0	0.0
Tonopah	6,090	12	20				62.0		83	3	72	32	30	52	29	45	29	31	0.02		1		se.									
Winnemucca	4,344	18	56	25.58	29.92	−.01	58.7	−0.5	89	2	76	29	25	41	48	45	33	47	1.06	+0.6	8	3,524	sw.	26	nw.	4	18	7	5	3.4	0.0	0.0
Modena	5,473	10	43	24.61	29.87	−.05	59.4	−0.6	86	3	76	26	26	43	43	45	30	39	0.27	−0.5	4	6,769	sw.	36	s.	10	11	16	3	3.7	0.0	0.0
Salt Lake City	4,360	163	203	25.60	29.91	−.04	64.4	0.0	87	18	75	39	26	54	31	50	39	44	2.40	+1.4	10	4,734	s.	47	sw.	4	15	7	8	3.8	0.0	0.0
Grand Junction	4,602	60	68	25.38	29.93	−.02	65.6	−0.6	91	2	78	37	26	53	34	50	37	42	0.70	−0.2	8	3,812	se.	23	w.	22	13	9	8	4.3	0.0	0.0
Northern Plateau							62.4	+1.8										50	0.97	+0.2										4.8		
Baker	3,471	48	53	26.42	29.98	−.01	57.2	+1.2	90	3	71	30	23	43	44	47	37	52	0.73	0.0	9	3,113	se.	17	sw.	17	11	8	11	5.1	0.0	0.0
Boise	2,739	78	86	27.11	29.93	−.04	63.2	+1.3	90	21	77	37	23	50	39	50	40	49	0.96	+0.4	7	2,373	nw.	14	nw.	10	16	4	10	4.4	0.0	0.0
Lewiston	757	40	48	29.12	29.92	−.06	65.4	+2.6	97	3	79	39	24	52	44				0.88	−0.1	6	1,556	e.	20	nw.	6	10	8	12	5.4	0.0	0.0
Pocatello	4,477	60	68	25.46	29.92	−.04	61.6	+1.4	86	20	75	38	27	48	43	48	37	48	1.17	+0.4	7	5,194	se.	30	sw.	11	15	13	2	3.9	0.0	0.0
Spokane	1,929	101	110	27.90	29.93	−.05	61.9	+2.7	90	4	74	34	24	50	42	51	41	54	0.75	−0.2	7	3,043	s.	21	s.	6	10	11	9	5.1	0.0	0.0
Walla Walla	991	57	65	28.87	29.93	−.07	65.4	+1.6	96	3	77	46	24	54	38	53	41	46	1.33	+0.4	6	2,262	s.	16	sw.	6	12	6	12	5.1	0.0	0.0
North Pacific Coast Region							59.6	+1.0										73	1.59	−0.3										5.7		
North Head	211	11	56	29.79	30.01	−.02	56.2	−0.3	76	2	60	47	30	52	26	54	53	93	2.97	0.0	12	7,899	n.	46	s.	25	2	8	20	7.9	0.0	0.0
Port Angeles	29	8	53		30.02		54.8		76	2	62	37	23	47	30				0.83	−0.6	8	3,043	s.	19	w.	6	11	10	9		0.0	0.0
Seattle	125	215	250	29.85	29.98	−.03	50.4	+1.3	84	2	66	42	30	53	26	55	51	75	1.14	−0.6	10	4,119	s.	23	s.	13	9	7	14	6.2	0.0	0.0
Tacoma	194	172	201	29.80	30.00	−.02	59.3	+2.0	81	2	66	38	30	52	26				0.87	−1.2	6	4,619	n.	28	sw.	6	9	7	14	6.2	0.0	0.0
Tatoosh Island	86	9	35	29.90	29.99	−.02	53.8	+0.8	66	8	58	45	29	50	15	53	52	94	3.81	−0.9	14	7,211	s.	37	e.	23	9	3	18	6.7	0.0	0.0
Yakima	1,076	58	67	28.79	29.93		63.7	+2.6	92	3	77	37	25	51	38	52	42	51	0.15	−0.4	2	3,042	nw.	17	w.	6	14	11	5	3.7	0.0	0.0
Medford	1,329	29	58	28.55	29.94		63.0		97	2	78	35	23	48	46	53	44	62	1.58	+1.1	11		nw.	25	n.	6	16	6	8	4.1	0.0	0.0
Portland, Oreg.	153	68	106	29.82	29.98	−.05	63.7	+2.0	97	2	72	44	23	55	36	56	51	68	1.79	−0.2	10	3,183	nw.	18	nw.	16	9	6	15	6.0	0.0	0.0
Roseburg	510	75	99	29.44	29.98	−.04	61.2	−1.7	92	2	73	37	23	49	41	54	49	69	1.18	−0.1	9	2,081	n.	16	sw.	9	9	11	10	5.0	0.0	0.0
Middle Pacific Coast Region							63.5	−1.2										72	0.43	−0.2										4.7		
Eureka	62	73	89	29.94	30.02	+.01	56.8	+0.9	68	27	61	49	25	53	15	54	53	89	1.12	+0.1	6	3,017	nw.	23	n.	29	2	8	20	7.9	0.0	0.0
Red Bluff	330	5	58	29.54	29.89	−.04	69.2	−3.9	95	2	82	51	23	56	41	57	48	53	0.58	−0.2	8	3,188	s.	18	se.	7	17	5	8	3.8	0.0	0.0
Sacramento	69	106	117	29.84	29.91	+.02	65.6	−3.7	91	2	78	48	29	53	37	57	51	65	0.29	−0.1	4	5,056	s.	19	sw.	7	22	5	3	2.3	0.0	0.0
San Francisco	155	208	243	29.79	29.96	+.02	62.4	+1.5	75	26	68	54	6	57	17	58	55	80	0.10	−0.4	3	4,767	w.	24	w.	22	8	15	7	5.3	0.0	0.0
San Jose	141	12	110	29.83	29.98		63.7	−1.0	82	1	74	44	25	53	35				0.05	−0.3	3	3,793	nw.	21	sw.	7	15	12	3	4.1	0.0	0.0
South Pacific Coast Region							68.1	−1.7										68	0.07	−0.1										3.8		
Fresno	327	89	98	29.56	29.91	+.04	69.6	−3.8	96	3	84	49	25	56	38	57	48	52	0.20	0.0	2	4,280	nw.	21	nw.	28	21	5	4	2.7	0.0	0.0
Los Angeles	338	159	191	29.58	29.94	+.06	67.9	−1.1	93	4	76	55	30	60	25	60	56	73	0.01	−0.2	1	2,828	sw.	12	sw.	21	13	14	3	4.0	0.0	0.0
San Diego	87	62	70	29.84	29.93	+.04	66.9	−0.2	79	4	72	56	30	62	15	62	59	78	T.	−0.1	0	3,868	w.	17	nw.	3	9	17	4	4.8	0.0	0.0
West Indies																																
San Juan, P. R.	82	9	54	29.88	29.96		80.6	+0.1	87	4	85	74	19	76	13				5.70	−0.2	16	7,461	e.	42	e.	2	2	22	6	5.9	0.0	0.0
Panama Canal																																
Balboa Heights	118	6	97		[1] 29.80	−.02	80.8	+1.0	92	10	87	70	2	74	17			[1] 86	7.61	−0.3	19	4,247	nw.	24	nw.	14	0	10	20	8.1	0.0	0.0
Cristobal	36	6	97		[1] 29.81	−.02	81.8	+1.4	89	19	87	73	2	77	15	77	76	[1] 84	10.88	−1.5	21	5,260	w.	22	w.	14	1	9	20	8.0	0.0	0.0
Alaska																																
Fairbanks	455	11	44	[2] 29.31	[2] 29.83		42.2		68	9	50	22	21	35	30	40	36	77	1.29		14	2,650	sw.				5	5	20	7.7	3.2	T.
Juneau	80	11	50	[2] 29.82	[2] 29.91		50.2		68	6	55	34	22	45	23	48	46	84	9.75		26	4,986	w.	32	e.	26	5	2	23	7.9	0.0	0.0
Hawaiian Islands																																
Honolulu	38	86	100	[2] 29.92	[2] 29.96		79.3	+1.1	86	17	84	72	20	75	12	73	70	77	7.74	+6.5	15	5,238	e.	23	e.	13	8	17	5	5.2	0.0	0.0

[1] Observations taken bihourly.

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

TABLE 2.—*Data furnished by the Canadian Meteorological Service, September, 1930*

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				54.3		62.2	46.4	70	35	3.00		0.0
Sydney, C. B. I.	48												
Halifax, N. S.	88												
Yarmouth, N. S.	65												
Charlottetown, P. E. I.	38												
Chatham, N. B.	28												
Father Point, Que.	20												
Quebec, Que.	296	29.60	29.92	−0.09	56.0	+0.9	62.6	49.4	79	40	4.18	+0.51	0.0
Doucet, Que.	1,236												
Montreal, Que.	187	29.71	29.91	−.13	60.7	+2.3	67.5	54.0	84	46	2.39	−0.91	0.0
Ottawa, Ont.	236	29.67	29.93	−.11	60.8	+3.4	70.8	50.8	90	38	2.58	−0.11	0.0
Kingston, Ont.	285	29.65	29.96	−.08	63.1	+3.1	69.6	56.6	78	45	1.07	−1.73	0.0
Toronto, Ont.	379	29.56	29.96	−.10	63.1	+4.1	72.5	53.6	87	39	2.83	−0.42	0.0
Cochrane, Ont.	930				51.0		59.4	42.6	81	28	2.86		0.0
White River, Ont.	1,244	28.53	29.84	−.14	49.7	−0.6	60.4	39.1	76	25	5.02	+2.25	0.0
London, Ont.	808				63.1		75.4	50.8	90	36	2.16		0.0
Southampton, Ont.	656	29.24	29.95	−.10	60.6	+3.1	69.9	51.4	84	37	1.52	−1.42	0.0
Parry Sound, Ont.	688	29.24	29.92	−.11	59.7	+3.7	68.2	51.2	81	40	2.48	−1.19	0.0
Port Arthur, Ont.	644	29.18	29.89	−.09	53.2	+1.0	62.0	44.4	78	31	4.21	+0.73	0.0
Winnipeg, Man.	760	29.05	29.88	−.06	54.8	+2.3	65.2	44.5	85	26	1.30	−0.73	0.0
Minnedosa, Man.	1,690	28.08	29.89	−.05	50.9	+0.4	64.2	37.6	83	13	0.22	−1.14	0.0
Le Pas, Man.	860				48.3		56.9	39.7	72	22	2.19		0.0
Qu'Appelle, Sask.	2,115	27.64	29.87	−.05	51.6	+0.5	63.3	39.9	82	21	0.92	−0.41	0.0
Moose Jaw, Sask.	1,759				54.5		68.2	40.8	88	24	1.37		0.0
Swift Current, Sask.	2,392	27.34	29.84	−.08	54.2	+1.1	68.5	39.9	87	26	2.67	+1.45	0.0
Medicine Hat, Alb.	2,144												
Calgary, Alb.	3,428												
Banff, Alb.	4,521												
Prince Albert, Sask.	1,450	28.34	29.91	+.01	50.4	+2.0	59.5	41.4	83	23	3.82	+2.54	0.0
Battleford, Sask.	1,592	28.15	29.88	−.02	52.5	+0.7	64.6	40.5	88	23	2.16	+0.91	0.0
Edmonton, Alb.	2,150												
Kamloops, B. C.	1,262												
Victoria, B. C.	230	29.72	29.97	−.04	57.5	+2.7	64.0	51.0	82	46	1.04	−1.12	0.0
Barkerville, B. C.	4,180												
Estevan Point, B. C.	20												
Prince Rupert, B. C.	170												
Hamilton, Ber.	151												

LATE REPORTS, AUGUST, 1930

Sydney, C. B. I.	48	29.97	30.02	+0.07	65.5	+2.2	74.5	56.5	83	48	3.24	−0.38	0.0
Yarmouth, N. S.	65	29.89	29.96	−.01	62.4	+2.2	71.3	53.5	79	44	2.01	−1.61	0.0
Father Point, Que.	20	29.91	29.93	+.02	56.1	+0.5	62.9	49.3	73	42	5.48	+2.43	0.0
Winnepeg, Man.	760	29.18	30.00	+.06	69.4	+6.0	82.1	56.8	92	44	0.97	−1.70	0.0
Medicine Hat, Alb.	2,144	27.54	29.74	−.18	68.4	+2.7	82.7	54.0	97	41	1.15	−0.52	0.0
Banff, Alb.	4,521	25.48	29.99	+.08	57.9	+1.6	74.3	41.4	87	31	2.13	−0.40	1.5
Kamloops, B. C.	1,262	28.70	29.96	+.05	69.7	+1.1	83.3	56.1	94	47	0.57	−0.52	0.0
Estevan Point, B. C.	20				58.1		65.4	50.9	70	46	0.68		0.0
Prince Rupert, B. C.	170				61.1		70.1	52.2	80	48	0.82		0.0

Blank page retained for pagination