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.

TABLE 1.—*Condensed climatological summary of temperature and precipitation by sections, September 1939*

[For description of tables and charts, see REVIEW, January, p. 31]

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	77.3	+1.6	Tuscumbia	101	14	2 stations	50	[1] 22	3.92	+0.40	Brewton	12.28	Valley Head	0.31
Arizona	72.1	−.7	3 stations	114	1	Springerville	27	28	3.82	+2.52	Bright Angel R. S.	12.31	Miami	.27
Arkansas	79.9	+5.4	Booneville	112	4	Lead Hill	35	30	1.77	−1.57	Lutherville	5.43	Grannis	.11
California	69.1	+1.4	El Centro	115	1	Tamarack	14	14	1.70	+1.23	Mount Wilson	11.78	2 stations	.00
Colorado	61.6	+3.6	3 stations	104	[1] 5	Pearl	16	30	1.10	−.25	Wolk Creek Pass	4.62	Long Branch	T
Florida	80.3	+.9	Avon Park	101	8	Mason	57	23	5.79	−.90	Fort Myers	12.83	Monticello	1.94
Georgia	76.9	+1.4	Athens No. 2	103	10	Blairsville	41	22	2.88	−.78	Monticello	8.00	Clayton	.75
Idaho	58.5	+1.4	Lewiston	102	20	Obsidian (near)	18	29	.97	−.06	Grimes Pass	2.58	2 stations	T
Illinois	72.4	+4.5	2 stations	106	[1] 8	Sycamore	31	30	.74	−2.97	Mascoutah	3.02	Bloomington	.03
Indiana	72.0	+4.7	do	107	[1] 8	La Porte	28	30	.84	−2.52	Marengo	2.81	Monticello	.09
Iowa	69.3	+5.4	do	107	[1] 6	Sibley	16	30	.82	−3.02	Fayette	1.78	Melrose	.17
Kansas	75.5	+5.7	Sedan	113	2	Burr Oak	24	30	.32	−2.45	Centralia	1.50	7 stations	.00
Kentucky	74.5	+3.9	Princeton	105	[1] 8	Taylorsville	39	23	1.26	−1.67	Maysville	5.09	Owensboro Dam No. 46	.22
Louisiana	79.9	+1.9	Minden	105	4	Winnfield	49	25	3.23	−.62	Port Sulphur	14.57	Robeline	.26
Maryland-Delaware	69.2	+1.5	2 stations	100	8	Oakland, Md	31	23	3.02	−.15	Washington, D. C.	6.90	Delaware City, Del.	.54
Michigan	61.6	+1.9	Monroe	103	16	Roscommon	19	24	2.63	−.68	Deer Park (near)	4.95	New Buffalo	.42
Minnesota	63.4	+4.2	Redwood Falls	103	14	Grand Rapids	15	26	1.42	−1.42	Gonvick	6.63	Wadena	.30
Mississippi	78.9	+2.9	3 stations	103	[1] 9	Rochdale	48	23	3.09	+.05	Merrill	9.82	Corinth	.61
Missouri	75.5	+6.1	do	108	[1] 2	2 stations	30	30	.81	−3.23	Doniphan	3.65	Steffenville	.12
Montana	57.6	+2.4	Ingomar (near)	100	1	Outlook	9	29	.94	−.39	Babb (near)	3.78	Ingomar (near)	.13
Nebraska	69.6	+5.2	Agronomy Farm (Lincoln).	110	7	Gordon	22	30	.44	−1.60	Harrison	1.19	Friend	T
Nevada	62.9	+1.7	Overton	109	1	2 stations	19	15	1.34	+.94	Searchlight	8.45	San Jacinto	.13
New England	59.7	−.5	Fitchburg, Mass	99	16	Fort Kent, Maine	22	27	2.85	−.98	York Pond, N. H.	5.83	Rockport, Mass	.88
New Jersey	66.5	+.6	Phillipsburg	98	8	2 stations	31	[1] 18	1.48	−2.08	Dover	2.74	Indian Mills	.53
New Mexico	66.2	+1.8	Hobbs	109	3	Eagle Nest	17	30	1.83	+.14	Winsor's	4.68	Loving	.00
New York	62.1	−.9	Geneva	100	16	Indian Lake	21	22	3.20	−.29	Knapp Creek	6.78	Patchogne	.65
North Carolina	72.8	+1.8	3 stations	104	[1] 9	Banners Elk	33	22	1.45	−2.53	Fayetteville	3.63	Mount Airy	.00
North Dakota	58.9	+2.1	5 stations	98	[1] 1	Center	11	25	.68	−.83	Mayville	3.08	2 stations	.00
Ohio	70.1	+4.4	Van Wert	105	[1] 14	2 stations	32	22	2.08	−.90	Canfield	4.64	Chilo	.28
Oklahoma	80.0	+5.7	Alva	115	3	3 stations	33	30	.33	−2.76	Smithville	3.52	18 stations	.00
Oregon	59.9	+2.1	Powers	103	19	Chemult	11	7	.64	−.54	Round Grove	1.98	Hood River	.01
Pennsylvania	65.9	+1.7	Chambersburg	101	8	Gouldsboro	27	[1] 18	2.95	−.44	Coudersport	6.27	George School	.70
South Carolina	76.3	+1.8	Little Mountain	106	9	Long Creek (near)	48	22	2.18	−1.96	Columbia	6.06	Cherokee (near)	.28
South Dakota	65.5	+3.9	Armour	109	6	Aberdeen	11	29	1.02	−.49	Leola	3.24	Ludlow	.10
Tennessee	75.3	+3.7	Clarksville	106	14	4 stations	43	[1] 12	1.36	−1.67	Crossville	4.27	Johnsonville	.50
Texas	79.6	+2.3	Cleburne	114	2	Levelland	35	30	1.12	−1.77	Yoakum	6.05	27 stations	.00
Utah	61.8	+1.1	2 stations	101	1	Woodruff	19	30	2.61	+1.58	Bryce Canyon	8.83	Callao	.29
Virginia	70.4	+1.7	do	101	8	Burkes Garden	33	23	1.16	−1.95	Washington, D. C.	6.90	Rocky Mount	.05
Washington	60.3	+2.1	Lacrosse (near)	101	20	Deer Park (near)	23	29	.84	−.99	Quinault	5.95	4 stations	T
West Virginia	68.8	+2.3	Ravenswood	103	10	Seneca State Forest	29	[1] 18	2.22	−.68	Brandywine	5.22	Union	.33
Wisconsin	62.5	+2.1	Prairie du Chien	104	7	Prentice	17	26	2.64	−1.05	Menasha	5.45	Ashland	.36
Wyoming	56.8	+2.1	Yoder	100	2	Big Piney	14	29	.92	−.21	Dixon	2.28	Marshall (near)	.20
Alaska (August)	51.5	−1.2	Bell Island	88	8	2 stations	26	[1] 24	5.40	+2.03	Deordova	32.35	2 stations	.37
Hawaii	72.4	−.6	Mahukona	93	6	Kanalohuluhulu	50	[1] 1	4.36	−1.65	Kukui (Maui)	23.00	Mahukona	.00
Puerto Rico	79.0	+.5	Pattillas Dam	99	[1] 19	Garzas	58	[1] 16	6.62	−1.80	Rio Blanco (1800)	17.42	Central San Francisco.	1.85

[1] Other dates also.

TABLE 2.—*Climatological data for Weather Bureau Stations, September 1939*

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 inch, or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	° F.	° F.	° F		° F	° F		° F	° F.	° F.	° F.	%	In.	In.		Miles								0-10	In.	In.
New England							61.5	+0.7										80	2.01	−1.1										5.3		
Eastport	75	67	85	29.91	29.99	−0.04	56.3	+0.5	91	16	64	38	27	49	37	52	50	85	1.53	−1.2	11	9.0	sw.	26	sw.	23	6	6	18	6.9	0.0	0.0
Greenville, Maine	1,069	4	41																													
Portland, Maine	103	82	117	29.89	30.01	−.04	60.2	+.6	96	16	68	37	27	52	35	54	50	76	1.62	−1.5	10	7.9	s.	34	s.	10	11	13	6	4.4	.0	.0
Concord	288	54	72	29.72	30.03	−.03	60.6	+1.3	95	16	73	34	27	48	37				2.25	−1.2	9	5.3	n.	19	nw.	7	11	10	9	5.1	.0	.0
Burlington	403	11	48	29.57	29.99	−.07	59.2	−1.1	92	16	70	31	27	49	34	53	49	74	3.77	+.3	13	8.6	s.	31	s.	25	9	9	12	5.7	T	.0
Northfield	876	12	60	29.08	30.03	−.03	56.2	+.1	93	15	70	24	27	42	42	51	48	82	2.53	−.5	11	7.2	sw.	28	s.	25	6	12	12	6.1	T	.0
Boston [1]	29	33	62	29.99	30.02	−.05	64.5	+1.3	96	16	73	45	27	56	28	58	54	74	1.01	−2.1	7	10.8	sw.	34	sw.	25	10	8	12	5.2	.0	.0
Nantucket	12	14	90	30.03	30.04	−.04	63.0	+.2	77	3	69	47	19	57	19	59	57	85	1.08	−1.4	9	14.0	sw.	35	n.	17	12	7	11	5.0	.0	.0
Block Island	26	11	46	30.02	30.05	−.03	63.6	+.2	77	3	69	50	27	58	21	60	58	83	.92	−1.7	6	14.2	s.	33	sw.	16	15	6	9	4.0	.0	.0
Providence	159	215	251	29.98	30.05	−.02	64.2	+1.0	91	16	74	44	27	55	28	58	56	82	2.39	−.8	9	10.4	sw.	30	nw.	10	15	2	13	4.8	.0	.0
Hartford	159	66	100	29.99	30.03	−.04	63.8	+2.1	90	16	74	41	27	54	41	57	55	83	2.73	−.8	7	7.8	s.	25	nw.	11	10	9	11	5.6	.0	.0
New Haven	106	74	153	30.04	30.05	−.02	64.6	+1.1	87	16	73	44	27	56	26	59	56	80	2.33	−1.2	10	8.4	s.	25	nw.	10	12	8	10	5.1	.0	.0
Middle Atlantic States							68.7	+1.8										77	2.32	−0.9										5.1		
Albany [1]	292	26	40	29.70	30.02	−.05	61.7	−1.4	92	16	74	33	22	50	39	56	52	77	3.61	+.5	9	8.7	s.	33	s.	25	8	12	10	5.7	.0	.0
Binghamton	871	57	79	29.13	30.05	−.02	64.4	+3.1	96	16	77	35	22	52	40	56	52	74	4.65	+1.6	13	5.8	e.	24	nw.	10	4	13	13	6.6	.0	.0
New York	314	415	454	29.71	30.04	−.04	67.4	+.6	88	8	76	50	27	59	23	60	56	74	1.21	−2.2	10	12.9	sw.	40	nw.	17	12	9	9	4.7	.0	.0
Harrisburg [1]	351	30	49	29.68	30.05	−.03	68.0	+2.2	99	8	79	42	19	57	39	60	57	76	3.43	+.4	10	6.9	se.	23	s.	25	11	7	12	5.7	.0	.0
Philadelphia	114	174	367	29.93	30.06	−.02	69.2	+1.2	96	8	78	52	18	61	30	62	59	77	1.91	−1.2	8	11.2	sw.	31	n.	17	10	14	6	4.8	.0	.0
Reading	323	283	306	29.71	30.06		67.0	+.7	96	8	76	44	19	58	33	60	56	73	2.55	−.7	9	9.1	s.	32	n.	17	13	7	10	5.2	.0	.0
Scranton	805	72	104	29.19	30.04	−.03	64.2	+1.3	91	8	76	38	19	53	36	56	52	73	2.92	−.2	11	5.9	sw.	34	nw.	10	8	14	8	5.2	.0	.0
Atlantic City	52	37	172	29.99	30.05	−.02	68.6	+1.8	94	8	75	52	18	62	27	64	61	79	1.50	−1.2	7	13.4	s.	39	se.	27	8	15	7	5.0	.0	.0
Sandy Hook	22	10	57	30.02	30.04		67.6	+.1	88	8	74	53	18	61	22	62	59	78	1.27	−2.2	8	12.7	s.	40	ne.	8	12	11	7	4.5	.0	.0
Trenton	190	89	107	29.85	30.05		67.2	+.3	95	8	77	45	19	57	31	61	57	78	1.48	−1.9	6	7.7	s.	23	n.	17	11	9	10	5.2	.0	.0
Baltimore [2]	123	100	215	30.04	30.05	−.03	71.2	+2.7	100	8	80	54	18	63	31	63	61	80	3.08	−.3	8	9.2	s.	30	sw.	4	11	11	8	4.9	.0	.0
Washington	112	62	85	29.93	30.05	−.03	71.0	+2.9	100	8	80	51	18	62	28	63	61	78	6.90	+3.7	6	5.5	s.	26	ne.	4	11	11	8	5.0	.0	.0
Cape Henry	18	8	54	30.02	30.04		73.8	+2.0	97	8	80	56	23	68	25	68	66	81	1.06	−1.8	4	10.7	ne.	33	ne.	17	13	11	6	4.6	.0	.0
Lynchburg	686	144	184	29.34	30.07	−.01	72.0	+3.0	97	8	84	48	19	60	32	64	61	78	1.21	−2.1	8	5.3	n.	24	nw.	4	15	8	7	4.0	.0	.0
Norfolk	91	80	125	29.96	30.06	.00	74.8	+3.2	96	8	82	60	23	68	22	68	65	78	.56	−2.7	3	8.2	e.	24	ne.	18	8	11	11	6.0	.0	.0
Richmond [2]	144	11	52	29.88	30.05	−.02	72.8	+2.3	96	8	83	53	18	63	28	65	63	87	1.56	−1.7	7	6.4	sw.	28	nw.	17	14	11	5	4.0	.0	.0
Wytheville	2,304	49	55	27.72	30.09	+.02	67.4	+3.8	92	9	81	43	22	54	39	59	56	75	.68	−2.6	4	5.2	w.	18	w.	8	18	9	3	3.2	.0	.0
South Atlantic States							76.9	+3.6										80	2.82	−1.4										5.0		
Asheville	2,253	89	104	27.79	30.10	+.03	69.9	+4.9	93	9	82	48	22	57	33	61	59	81	1.61	−1.4	8	5.6	nw.	24	e.	18	13	10	7	5.0	.0	.0
Charlotte [2]	779	63	86	29.24	30.05	−.02	75.7	+4.2	101	9	86	57	23	65	30	65	62	77	1.56	−1.4	5	6.2	ne.	23	ne.	13	14	10	6	4.6	.0	.0
Greensboro [1]	886	6	56	29.14	30.07		72.8		99	9	85	50	23	60	33	64	62	81	.13		5	6.7	ne.	34	nw.	4	14	9	7	4.3	.0	.0
Hatteras	11	5	50	30.02	30.03	−.03	76.2	+1.7	91	8	81	66	13	71	16	71	69	82	2.52	−2.1	8	11.2	ne.	31	se.	27	9	11	10	5.6	.0	.0
Raleigh [2]	376	103	146	29.67	30.05	−.02	74.8	+3.7	99	9	84	56	19	65	24	67	65	83	2.33	−1.3	6	7.7	ne.	20	n.	17	12	15	3	4.3	.0	.0
Wilmington	72	73	107	29.95	30.03	−.02	76.4	+3.3	98	9	84	58	23	68	26	70	69	86	2.67	−1.8	9	7.3	ne.	24	n.	17	7	13	10	5.9	.0	.0
Charleston [2]	48	11	92	29.97	30.02	−.02	79.2	+2.6	97	9	85	65	22	73	20	71	70	88	1.16	−3.4	8	10.2	ne.	28	ne.	14	9	11	10	5.7	.0	.0
Columbia, S. C.	347	70	91	29.68	30.05	.00	78.2	+3.7	101	9	88	60	23	68	29	68	65	73	6.06	+2.6	8	7.5	ne.	21	ne.	18	13	10	7	4.6	.0	.0
Greenville, S. C.	1,040	70	78	28.97	30.04		75.5	+4.9	101	9	86	57	23	65	30	65	61	69	.56	−3.1	5	5.8	ne.	19	e.	18	13	11	6	4.6	.0	.0
Augusta [2]	182	62	77	29.58	30.03	−.02	78.8	+3.5	100	9	88	62	22	69	26	68	65	75	3.71	+.4	9	5.1	ne.	19	ne.	18	10	11	9	5.1	.0	.0
Savannah [2]	65	73	152	29.96	30.01	−.02	80.4	+4.2	100	10	89	65	22	72	25	72	71	88	2.90	−2.5	10	9.3	ne.	31	sw.	30	11	10	9	5.1	.0	.0
Jackson ville	43	86	110	29.96	30.01	+.01	80.8	+2.5	96	10	89	69	21	73	22	73	72	83	5.89	−1.5	14	7.2	s.	22	ne.	14	8	13	9	5.6	.0	.0
Florida Peninsula							81.9	+1.2										81	3.92	−3.2										5.7		
Key West [2]	21	10	64	29.96	29.97	+.03	83.1	+.9	92	21	89	72	23	77	17	77	75	79	3.18	−3.5	14	7.5	e.	26	sw.	22	6	20	4	5.2	.0	.0
Miami	25	124	168	29.96	29.99	+.02	81.7	+1.6	90	10	88	70	14	76	18	75	74	80	4.56	−3.8	17	6.6	se.	23	ne.	14	1	16	13	6.5	.0	.0
Tampa [2]	35	88	197	29.98	29.99	+.02	80.9	+1.0	92	6	89	68	14	72	23	75	73	84	4.01	−2.4	13	8.4	e.	32	n.	14	5	20	5	5.4	.0	.0
East Gulf States							78.4	+2.5										81	3.48	−0.7										5.0		
Atlanta [1]	976	5	72	29.03	30.03	−.02	76.2	+3.8	95	10	86	60	19	66	27	68	65	77	2.62	−.4	8	7.6	ne.	28	ne.	17	9	12	9	5.3	.0	.0
Macon [2]	370	79	87	29.53	30.02	−.01	77.5	+2.7	96	10	87	60	22	68	24	70	67	82	1.87	−1.3	7	5.7	n.	22	n.	5	5	15	10	6.0	.0	.0
Thomasville	273	49	58	29.74	30.03	+.02	78.8	+2.0	96	11	88	62	22	70	27	72	70		2.64	−2.2	5						9	14	7	5.3	.0	.0
Apalachicola	35	11	51	29.96	30.00		79.8	+1.3	93	10	86	68	16	73	17	74	72	82	5.72	−2.4	9	7.9	ne.	26	se.	15	11	6	13	5.7	.0	.0
Pensacola	56	149	185	29.95	30.01	+.02	78.8	+.8	90	11	84	65	30	73	16	72	70	78	2.12	−3.2	9	10.8	ne.	44	sw.	26	15	8	7	4.5	.0	.0
Anniston	741	9					75.4	+4.1	92	4	86	55	22	65	28				2.51	−1.2	6		se.				15	8	7		.0	.0
Birmingham [2]	700	11	48	29.38	30.04	+.01	77.0	+2.2	94	14	87	54	30	67	27	68	66	84	7.69	+4.3	11	5.5	e.	19	n.	4	14	8	8	4.5	.0	.0
Mobile	57	86	161	29.94	30.01	+.01	79.4	+1.3	95	13	88	60	30	71	21	72	70	82	4.81	−.2	9	8.5	ne.	28	nw.	30	12	9	9	4.8	.0	.0
Montgomery [2]	218	92	105	29.77	30.02	.00	78.8	+2.5	94	11	88	60	30	70	25	70	68	83	3.08	+.1	9	6.1	ne.	26	w.	9	15	2	13	4.8	.0	.0
Meridian [2]	375	67	92	29.69	30.02	.00	78.1	+3.6	96	9	88	51	30	68	28	70	68	87	2.14	−.8	9	5.2	e.	20	w.	29	14	9	7	4.3	.0	.0
Vicksburg	247	82	102	29.74	29.99	−.03	79.6	+3.3	97	13	89	52	30	70	25	71	68	75	4.12	+1.2	7	7.6	s.	35	s.	29	11	12	7	3.8	.0	.0
New Orleans [2]	53	76	84	29.96	29.99	+.01	81.4	+2.2	94	11	88	60	30	74	22	74	72	82	2.48	−2.6	14	6.3	ne.	16	ne.	13	7	12	11	6.0	.0	.0
West Gulf States							81.3	+4.2										69	1.49	−2.2										3.2		
Shreveport [2]	249	92	227	29.79	29.98	−.02	82.4	+5.5	103	4	94	54	30	71	30	70	66	70	.69	−2.1	5	9.5	s.	43	se.	5	20	7	3	3.2	.0	.0
Bentonville	1,303	12	51	28.62	29.95	−.07	78.2	+9.3	103	3	92	38	30	64	38				.52	−3.2	1	5.9	s.	15	sw.	23	24	4	2		.0	.0
Fort Smith	463	57	82	29.51	30.01	.00	83.4	+9.4	107	2	96	45	30	70	35	67	58	51	.23	−2.8	3	6.9	e.	26	nw.	29	25	4	1	2.1	.0	.0
Little Rock [2]	357	94	102	29.71	29.99	−.04	80.8	+6.7	103	4	92	52	30	70	31	68	64	70	2.36	−.8	3	6.8	s.	23	s.	29	24	3	3	2.0	.0	.0
Austin [2]	605	68	90	29.32	29.96		81.2	+2.9	103	1	93	58	30	70	30	68	63	66	1.64	−1.8	7	7.0	s.	35	ne.	16	17	11	2	2.8	.0	.0
Brownsville [2]	57	88	96	29.91	29.93		80.2	−.4	94	2	88	65	25	73	24	73	72	85	3.62	−1.9	10	9.8	se.	28	ne.	30	13	9	8	4.7	.0	.0
Corpus Christi [2]	20	11	78	29.91	29.96	+.01	81.0	+1.3	94	2	88	59	30	74	22	73	71	85	2.65	−1.8	11	10.8	s.	30	se.	11	17	9	4	3.7	.0	.0
Dallas [2]	512	220	227	29.45	29.96		83.0		106	2	93	50	30	73	30	67	60	53	.18	−2.5	1	10.5	s.	33	n.	16	20	6	4	2.8	.0	.0
Fort Worth [2]	679	92	110	29.24	29.96	−.03	83.7	+6.8	107	2	95	51	30	72	29	66	58	50	.12	−2.4	3	9.3	s.	29	n.	29	24	6	0	1.5	.0	.0
Galveston [2]	54	106	114	29.96	29.97	−.01	80.8	+.7	90	26	86	64	30	76	21	73	71	78	3.28	−2.3	9	9.4	s.	29	nw.	30	17	8	5	3.8	.0	.0
Houston [2]	138	157	190	29.91	29.98		81.0	+2.0	98	1	91	59	30	71	26	71	68	80	2.30	−1.8	10	8.9	s.	29	w.	29	12	14	4	4.2	.0	.0
Palestine	510	64	72		29.98	−.01	81.4	+4.4	103	1	93	53	30	70				61	.15	−2.8	5	6.7	s.	22	se.	28	19	9	2		.0	.0
Port Arthur	34	59	134	29.95	29.98		81.2		95	14	89	63	30	73	25	73	70	76	1.26	−3.6	5	11.2	s.	34	se.	19	9	17	4	4.5	.0	.0
San Antonio [2]	693	111	301	29.36	29.96	.00	81.2	+2.2	102	2	92	59	30	70	28	70	65	69	1.90	−1.2	9	10.9	e.	32	se.	28	14	10	6	3.7	.0	.0
Ohio Valley and Tennessee							73.8	+5.1										68	1.47	−1.5										3.4		
Chattanooga [2]	762	71	214	29.32	30.04	−.02	77.2	+5.0	98	14	89	56	30	66	31	66	64	78	1.80	−1.3	8	6.5	w.	30	n.	4	17	7	6	3.9	.0	.0
Knoxville [2]	995	66	84	29.02	30.04	−.02	75.9	+5.3	99	9	88	54	23	64	31	64	61	73	.94	−1.7	5	4.6	w.	21	ne.	10	18	7	5	3.1	.0	.0
Memphis [2]	399	78	86	29.70	29.99	−.04	80.1	+6.5	99	4	89	51	30	71	24	68	64	72	2.31	−.5	2	7.0	s.	27	nw.	29	19	7	4	3.0	.0	.0
Nashville [2]	546	168	188	29.38	30.02	−.04	77.3	+5.5	99	14	89	50	30	65	40	64	58	61	.95	−2.5	3	7.0	s.	31	w.	29	19	7	4	3.3	.0	.0

See footnotes at end of table.

TABLE 2.—*Climatological data for Weather Bureau Stations, September 1939*—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 inch or more	Wind: Average hourly velocity	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—Continued																																
Lexington	989	6					74.6	+6.1	101	8	89	46	22	60	45				1.59	−1.5	4		sw.				24	3	3		0.0	0.0
Louisville [1]	525	106	120	29.44	30.02	−0.04	75.6	+5.1	99	9	87	48	30	64	38	62	58	67	1.20	−1.6	5	7.7	sw.	26	sw.	4	22	5	3	2.3	.0	.0
Evansville	431	76	116	29.55	30.01	−.05	77.1	+6.4	101	8	89	46	30	65	35	64	57	57	.50	−2.8	3	7.4	sw.	28	sw.	29	21	6	3	2.8	.0	.0
Indianapolis [2]	823	98	129	29.16	30.01	−.05	72.4	+5.5	100	14	85	42	30	60	37	59	54	66	1.17	−2.2	3	7.4	sw.	30	n.	16	17	9	4	3.5	.0	.0
Terre Haute	575	63	149	29.39	30.00		74.3		103	15	88	43	30	61	39	61	54	59	1.17	−2.4	6	8.8	sw.	35	se.	16	22	6	2	2.6	.0	.0
Cincinnati [2]	627	11	51	29.49	30.02	−.05	73.5	+6.4	101	8	87	45	22	60	39	62	58	71	.71	−1.9	4	6.5	sw.	25	sw.	29	18	7	5	3.6	.0	.0
Columbus [2]	822	90	110	29.14	30.02	−.05	72.4	+5.9	98	7	84	47	22	60	34	59	54	65	1.39	−1.2	6	8.9	s.	33	sw.	29	13	11	6	3.9	.0	.0
Dayton	900	186	213	29.08	30.01		71.8	+5.2	98	14	84	45	30	60	34	59	55	60	1.23	−1.7	3	9.1	sw.	36	sw.	29	20	7	3	3.4	.0	.0
Elkins [2]	1,947	65	83	28.00	30.09	+.01	66.0	+3.0	91	8	80	39	23	52	44	57	55	86	2.41	−.7	10	4.8	w.	27	sw.	29	8	14	8	5.0	.0	.0
Parkersburg	637	77	84	29.35	30.03	−.05	71.6	+4.3	98	8	84	45	23	59	38	61	57	69	2.07	−.7	6	5.5	se.	25	nw.	4	18	9	3	3.2	.0	.0
Pittsburgh [1]	1,273	39	54	28.70	30.04	−.04	67.8	+1.4	95	8	80	44	18	56	33	58	53	70	2.58	.0	8	9.7	s.	34	w.	8	11	13	6	4.4	.0	.0
Lower Lake Region							65.3	+2.4										74	2.78	−0.2										5.3		
Buffalo [2]	768	243	280	29.27	30.03	−.03	62.8	+.4	89	3	70	42	26	55	25	56	53	78	3.12	+.2	14	12.6	s.	52	nw.	10	5	11	14	6.2	.0	.0
Canton	448	10	61	29.53	30.01		58.8	−.5	90	4	71	31	27	47	34	53	50	78	5.11	+1.8	12	6.8	sw.	30	sw.	25	8	15	7	5.3	1.8	.0
Ithaca	836	77	100	29.14	30.04		64.4	+2.8	98	15	76	35	18	53	39	56	52	74	2.86	−.2	15	8.1	nw.	31	nw.	10	5	16	9	6.0	.0	.0
Oswego	335	71	85	29.65	30.01	−.05	63.0	+1.8	94	16	72	40	27	54	29	56	52	73	2.07	−.6	15	8.6	s.	27	n.	26	6	10	14	6.8	.0	.0
Rochester [2]	523	86	102	29.43	30.03	−.03	64.6	+2.2	97	16	73	44	26	56	29	56	53	76	2.54	+.1	13	7.9	sw.	29	w.	10	8	9	13	6.1	.0	.0
Syracuse [2]	596	65	79	29.58	30.02	−.05	64.6	+2.8	97	16	75	40	18	54	35	56	53	77	1.58	−1.1	14	6.3	s.	28	sw.	10	6	11	13	6.3	.0	.0
Erie	714	57	81	29.26	30.02	−.04	65.8	+2.2	93	16	74	46	18	58	28	59	56	76	4.84	+1.4	12	7.1	se.	19	sw.	8	8	12	10	5.6	.0	.0
Cleveland [2]	762	267	318	29.16	30.02	−.04	67.4	+3.5	94	14	76	48	26	59	32	59	55	72	2.93	−.4	8	14.5	se.	49	s.	4	10	13	7	4.5	.0	.0
Sandusky	629	5	67	29.35	30.02	−.04	69.0	+3.7	98	7	79	47	22	59	35				3.45	+.5	9	8.2	sw.	27	nw.	16	14	8	8	4.7	.0	.0
Toledo [2]	628	79	87	29.35	30.03	−.03	68.0	+3.6	100	15	79	40	30	57	34	58	54	73	1.32	−1.5	6	8.8	n.	27	nw.	29	18	8	4	3.2	.0	.0
Fort Wayne	857	69	84	29.14	30.02		68.9	+3.5	99	7	82	40	30	56	38	57	52	67	.88	−2.2	7	8.2	nw.	25	w.	7	15	11	4	3.8	.0	.0
Detroit [1]	626	5	78	29.35	30.02	−.04	65.9	+2.4	100	15	77	39	30	54	35	57	54	73	2.70	−.4	10	9.1	n.	29	nw.	10	11	11	8	5.0	.0	.0
Upper Lake Region							61.5	+2.0										76	2.16	−1.2										4.8		
Alpena	609	13	89	29.36	30.03	.00	59.0	+1.4	97	14	68	35	24	50	33	54	51	80	2.78	−.2	12	11.0	nw.	30	nw.	10	9	11	10	5.1	.0	.0
Escanaba	612	41	49	29.36	30.02	+.01	57.0	−.1	84	14	66	29	30	48	28	53	50	79	2.94	−.4	12	11.1	s.	46	nw.	3	10	7	13	5.7	.0	.0
Grand Rapids [2]	707	70	244	29.26	30.00	−.05	66.0	+3.3	97	15	77	35	30	55	35	57	53	77	1.98	−1.6	8	10.1	s.	35	s.	3	15	9	6	4.0	.0	.0
Lansing	878	5	90	29.09	30.02		63.6	+2.2	94	15	75	35	30	52	35	56	53	77	1.41	−1.5	7	7.9	s.	22	w.	4	14	9	7	4.2	.0	.0
Marquette	734	44	69	29.20	30.00	.00	58.1	+.6	98	15	66	35	26	50	28	52	50	79	3.43	+.2	11	8.5	sw.	28	s.	28	7	11	12	6.1	.0	.0
Sault Sainte Marie [1]	724	5	33	29.22	30.02	.00	54.8	−.7	87	15	64	27	30	45	28	50	48	85	3.04	−1.2	14	7.4	se.	29	nw.	25	11	3	16	6.1	T	.0
Chicago	673	7	131	29.30	30.02	−.02	70.0	+4.8	100	7	79	44	30	61	33	60	54	66	.49	−2.6	4	10.6	sw.	27	sw.	7	16	9	5	3.4	.0	.0
Green Bay	617	109	141	29.33	30.00	−.02	62.6	+2.2	94	14	72	32	30	53	28	56	52	72	3.27	−.2	9	10.4	s.	31	sw.	3	13	6	11	5.0	.0	.0
Milwaukee [2]	681	97	221	29.27	30.02	−.01	67.5	+5.0	99	15	77	39	30	58	33	57	53	70	1.53	−1.8	9	12.4	n.	36	sw.	28	16	7	7	3.9	.0	.0
Duluth	1,133	5	47	28.75	29.97	−.01	56.6	+1.5	89	15	65	29	26	48	32	50	47	80	.72	2.6	7	11.0	ne.	39	nw.	25	14	6	10	4.7	.0	.0
North Dakota							59.0	+2.0										60	0.93	−0.7										4.6		
Moorhead, Minn	940	50	58	28.96	29.93	−.03	61.0	+2.8	95	14	74	24	26	48	39	51	44	63	.59	−1.6	7	8.8	s.	26	nw.	24	12	8	10	5.0	.0	.0
Bismarck [2]	1,674	8	57	28.19	29.95	+.01	60.2	+2.1	93	18	74	26	25	46	47	49	40	57	.24	−1.0	5	7.8	nw.	28	nw.	24	12	8	10	4.7	T	0
Devils Lake	1,478	11	44	28.37	29.94	.00	57.4	+1.5	93	18	71	20	25	44	40	48	41	63	.50	−1.1	10	9.2	s.	25	n.	24	10	10	10	5.0	.3	.0
Lemmon, S. Dak	2,602	4	38																													
Grand Forks	832	11	71				57.2	+.8	96	2	71	24	25	44	43	51	47		2.32	+.3	10	9.1	n.								.2	.0
Williston	1,878	42	50	27.96	29.92	−.01	59.4	+2.8	94	11	73	23	29	46	42	49	40	58	.99	−.1	8	7.5	sw.	26	n.	24	18	7	5	3.6	.1	.0
Upper Mississippi Valley							70.4	+5.1										64	0.97	−2.7										3.2		
Minneapolis, St. Paul, Minn. [1]	838	32	61	29.07	29.96	−.03	64.2	+2.8	98	15	75	26	30	53	37	55	49	67	2.31	−.8	7	10.4	s.	42	nw.	3	13	6	11	4.8	.0	.0
Springfield, Minn	1,025	4	42				64.8		100	14	78	23	30	51	42	54	47		.58		3	6.6	s.								.0	.0
La Crosse [2]	714	11	48	29.27	29.99	−.02	65.4	+3.2	97	7	77	35	30	54	37	56	52	72	.93	−3.1	6	5.0	s.	16	n.	28	15	6	9	4.1	.0	.0
Madison	974	70	78	28.97	29.99	−.04	66.8	+4.4	97	7	77	40	30	56	33	57	51	65	1.57	−2.2	6	8.1	s.	21	s.	3	13	7	10	4.7	.0	.0
Charles City	1,015	10	51	28.92	30.00	.00	65.8	+4.8	100	6	79	29	30	53	42	55	50	65	.83	−2.8	5	6.4	se.	21	sw.	15	17	10	3	3.0	T	.0
Davenport	606	66	161	29.36	30.01	−.02	70.8	+5.2	99	14	82	37	30	60	33	59	53	62	.70	−2.8	4	9.6	sw.	26	s.	3	21	4	5	3.1	.0	.0
Des Moines [2]	860	5	99	28.95	29.97	−.05	70.5	+4.9	102	7	84	35	30	57	41	57	50	56	1.20	−2.5	5	9.9	n.	31	nw.	3	21	5	4	2.2	.0	.0
Dubuque	699	60	79	29.25	30.00	−.03	68.4	+4.4	99	7	80	36	30	57	35	58	53	65	.69	−3.3	5	6.0	s.	17	ne.	20	15	9	6	3.7	.0	.0
Keokuk	614	64	78	29.34	29.99	−.04	73.1	+5.6	100	15	84	37	30	62	36	60	54	60	.23	−3.6	1	7.2	sw.	22	s.	3	20	5	5	2.8	.0	.0
Cairo	358	87	93	29.63	30.00	−.05	77.4	+5.9	99	8	88	49	30	66	30	65	60	62	1.20	−1.7	2	6.8	s.	20	n.	30	21	8	1	2.1	.0	.0
Peoria [2]	609	11	45	29.30	30.00	−.04	71.7	+7.4	102	14	85	38	30	58	39	59	54	67	.85	−3.2	4	5.0	s.	16	s.	3	21	7	2	2.5	.0	.0
Springfield, Ill. [2]	636	5	191	29.35	30.00	−.05	74.3	+6.7	100	14	87	44	30	62	38	60	55	67	.14	−3.5	1	10.9	s.	27	s.	3	19	6	5	3.0	.0	.0
St. Louis [2]	568	179	303	29.40	30.00	−.04	76.9	+6.4	100	8	88	48	30	66	30	63	56	54	1.01	−2.4	4	10.6	sw.	30	s.	3	22	7	1	1.8	.0	.0
Missouri Valley							72.9	+6.6										54	0.48	−2.7										2.9		
Columbia, Mo. [2]	784	6	66	29.17	29.99	−.04	75.4	+7.2	103	3	88	38	30	63	41	61	55	60	.58	−3.8	3	7.3	s.	21	sw.	3	19	9	2	3.2	.0	.0
Kansas City [1]	750	32	45	29.18	29.97	−.05	76.7	+7.8	107	3	89	38	30	64	38	61	53	52	.54	−4.0	3	8.5	sw.	34	sw.	3	20	5	5	2.8	.0	.0
St. Joseph [2]	967	11	49	29.11	29.97		75.6	+7.2	106	3	88	36	30	63	36	60	53	58	.42	−3.5	1	8.7	s.	27	sw.	3	20	7	3	2.7	.0	.0
Springfield, Mo. [2]	1,324	5	78	28.60	30.00	−.03	77.6	+8.7	102	3	90	39	30	65	37	62	57	63	.70	−2.8	1	7.7	se.	24	w.	3	22	7	1	2.4	.0	.0
Topeka	987	65	87	28.93	29.96		77.0	+8.3	108	2	91	37	30	63	41	60	49	45	.40	−3.4	2	9.5	s.	32	sw.	6	19	10	1	2.7	.0	.0
Lincoln [2]	1,189	11	81	28.71	29.95	−.04	73.0	+6.6	105	6	88	31	30	58	52	56	44	45	.26	−2.7	2	10.8	s.	31	nw.	3	22	4	4	2.6	.0	.0
Omaha [1]	982	31	44	28.93	29.97	−.03	71.8	+5.0	104	6	86	32	30	57	51	57	49	53	.41	−2.8	5	10.7	se.	34	w.	3	21	4	5	2.4	.0	.0
Valentine	2,598	47	54	27.28	29.96	.00	66.0	+3.5	100	13	81	31	25	51	46	53	44	54	.67	−.6	7	8.9	s.	27	n.	22	17	8	5	3.4	.5	.0
Sioux City	1,138	64	106	28.76	29.95	−.03	70.2	+6.8	103	6	84	33	29	56	45	57	48	51	.31	−2.7	5	10.0	s.	36	se.	5	17	8	5	3.3	T	.0
Huron [1]	1,289	27	41	28.58	29.94	−.02	65.8	+4.5	102	13	81	23	29	50	45	53	43	54	.51	−1.1	4	12.9	s.	49	s.	2	15	8	7	3.6	T	.0
Northern Slope							60.1	+3.2										52	0.68	−0.5										4.2		
Billings	3,140	5		26.33	29.97		60.4		93	1	74	30	26	46	44	48	36	47	.22		4	10.1	sw.	39	n.	6	12	11	7	4.4	.5	.0
Havre	2,507	11	67	27.34	29.96	+.02	59.2	+2.8	90	4	74	33	29	45	47	48	38	53	.90	−.4	8	7.8	w.	26	w.	15	15	9	6	4.1	T	.0
Helena	4,124	85	111	25.83	29.98	+.01	57.4	+.8	85	4	71	31	28	44	39	47	36	50	.89	−.4	5	8.0	sw.	24	w.	15	15	6	9	4.6	.7	.0
Missoula	3,263	80	91				59.6	+4.2	90	4	75	33	29	44	45	48	39	58	.88	−.6	6	6.7	se.	32	e.	24	13	10	7	4.3	.0	.0
Kalispell	2,973	48	56	26.95	29.98	+.02	56.2	+2.7	85	4	69	32	29	43	43	47	39	57	.96	−.3	7	6.7	nw.	22	w.	1	11	8	11	5.4	.0	.0
Miles City [2]	2,371	48	55	27.23	29.95	.00	62.2	+1.0	95	1	76	30	29	48	44	49	39	52	.62	−.4	7	5.7	s.	22	n.	9	13	9	8	4.4	T	.0
Rapid City [2]	3,259	50	58	26.68	29.95	−.01	65.3	+4.9	94	1	79	30	26	51	41	50	37	45	.80	−.4	5	7.8	w.	32	nw.	7	14	11	5	4.0	T	.0
Cheyenne [1]	6,144	5	39	24.05	29.98	+.02	60.2	+3.2	87	2	76	29	30	45	43	46	36	50	.49	−7	7	10.9	nw.	34	w.	22	13	8	9	4.6	T	.0
Lander	5,352	60	68	24.71	29.96	.00	58.6	+2.9	85	1	74	29	30	43	44	47	37	52	.64	−.3	7	5.4	sw.	25	sw.	6	15	7	8	4.0	.0	.0
Sheridan	3,790	10	47	26.12	29.99		58.1		91	11	76	29	30	40	52	47	40	62	.75	−.5	6	4.5	s.	18	nw.	6	14	13	3	4.2	T	.0
Yellowstone Park	6,235	12	46	23.97	30.07	+.10	53.2	+3.1	80	21	67	25	29	39	44	42	33	52	.36	−.8	8	8.4	sw.	30	sw.	6	12	17	1	3.9	.0	.0
North Platte [2]	2,821	11	51	27.11	29.95	−.02	68.8	+6.7	100	5	84	35	26	53	49	53	43	51	.20	−1.2	3	7.6	s.	25	nw.	3	20	7	3	3.0	.0	.0

See footnotes at end of table.

TABLE 2.—*Climatological data for Weather Bureau Stations, September 1939*—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 inch or more	Wind: Average hourly velocity	Wind: Prevailing direction	Wind: Maximum velocity: Miles per hour	Wind: Maximum velocity: Direction	Wind: Maximum velocity: Date	Clear days	Partly cloudy days	Cloudy days	Average cloudiness, tenths	Total snowfall	Snow, sleet, and ice on ground at end of month
	Ft.	Ft.	Ft.	In.	In.	In.	°F.	°F.	°F.		°F.	°F.		°F.	°F.	°F.	°F.	%	In.	In.		Miles								0-10	In.	In.
Middle Slope							73.4	+5.4										44	0.31	−1.8										2.8		
Denver [2]	5,292	106	113	24.77	29.94	−0.02	67.0	+4.1	93	2	80	39	29	54	37	51	39	45	0.48	−0.5	4	7.3	s.	23	n.	28	13	8	9	4.5	0.0	0.0
Pueblo [2]	4,690	79	86	25.23	29.93	−.03	69.0	+4.4	96	2	83	38	30	55	41	53	43	47	.32	−.4	5	6.2	e.	28	ne.	28	13	13	4	4.1	.0	.0
Concordia	1,392	50	58	28.52	29.96	−.03	73.7	+5.4	107	2	88	35	30	60	48	58	46	44	.60	−2.0	3	8.8	sw.	24	nw.	3	23	3	4	2.4	.0	.0
Dodge City	2,509	10	86	27.41	29.95	−.03	73.2	+3.8	104	1	87	39	26	60	40	56	44	41	.10	−1.8	3	12.9	sw.	39	ne.	28	22	7	1	2.3	.0	.0
Wichita [2]	1,358	85	93	28.51	29.95	−.05	77.6	+7.0	106	3	90	38	30	65	32	60	50	45	.30	−2.8	5	10.6	s.	29	sw.	3	25	4	1	1.9	.0	.0
Oklahoma City [2]	1,214	10	47	28.61	29.95	−.04	80.2	+7.4	105	1	94	40	30	67	41	62	51	44	.06	−3.0	1	8.2	s.	23	n.	29	27	1	2	1.7	.0	.0
Chadron, Nebr.	3,439	4	58																													
Southern Slope							77.7	+4.2										50	0.55	−2.0										2.2		
Abilene [2]	1,738	10	56	28.17	29.94	−.02	80.6	+5.3	103	3	94	49	30	68	41	62	51	47	.03	−2.7	2	9.3	s.	25	s.	28	23	6	1	1.8	.0	.0
Amarillo [2]	3,676	10	49	26.38	29.95	−.01	75.8	+6.5	102	3	90	46	30	62	37	57	47	48	.45	−1.8	3	8.4	s.	21	nw.	29	26	4	0	1.8	.0	.0
Del Rio	960	63	71	28.94	29.90	−.04	81.2	+2.0	100	2	92	62	30	71	27	67	60	58	1.07	−1.9	5	9.0	se.	34	n.	27	16	11	3	3.4	.0	.0
Roswell	3,566	75	85	26.41	29.94	+.02	73.2	+2.9	99	3	87	50	24	60	40	58	47	47	.65	−1.5	2	7.4	s.	22	se.	19	23	4	3	1.8	.0	.0
Southern Plateau							74.5	+1.6										52	2.63	+1.8										3.4		
El Paso [2]	3,778	82	101	26.06	29.88	.00	77.2	+3.3	98	2	89	55	24	66	34	58	46	42	.90	−.4	4	8.2	e.	22	ne.	16	24	4	2	1.8	.0	.0
Albuquerque [1]	5,314	5	34	24.82	29.92		70.6	+2.7	94	1	83	48	30	58	32	56	46	50	1.19	+.4	6	7.9	ne.	40	nw.	25	18	8	4	3.4	.0	.0
Santa Fe	7,013	38	53	23.37	29.98	+.05	63.5	+2.6	85	1	74	42	30	53	27	51	42	56	2.53	+1.1	9	5.4	e.	20	w.	25	10	12	8	5.1	.0	.0
Flagstaff	6,907	10	59																													
Phoenix [2]	1,107	39	51	28.71	29.84	+.03	82.4	−.3	110	1	94	59	29	71	34	68	61	58	5.41	+4.7	9	5.2	e.	26	sw.	11	18	4	8	3.7	.0	.0
Yuma	141	9	54	29.68	29.82	+.04	83.2	−.5	112	1	95	60	27	71	38	69	62	55	5.13	+4.8	6	5.3	n.	20	se.	24	18	6	6	3.2	.0	.0
Independence	3,957	5	26	25.96	29.94	+.08	69.9	+1.9	93	1	77	45	14	63	39				.62	+.5	4	4.4		17	n.	23						
Middle Plateau							64.0	+1.9										52	1.46	+0.8										4.1		
Reno [2]	4,527	61	76	25.60	29.96	+.01	63.0	+2.5	89	9	78	35	14	48	43	48	38	55	.84	+.6	7	5.6	w.	27	s.	11	17	10	3	3.3	.0	.0
Tonopah	6,090	12	20				63.8		86	1	75	34	14	53	32	50	38		.61		8		se.								.0	.0
Winnemucca	4,344	18	56	25.63	29.97	+.04	62.0	+2.8	97	19	82	27	15	42	55	46	32	39	.25	−.2	5	6.8	ne.	31	sw.	11	16	8	6	3.4	T	.0
Modena	5,473	10	46	24.68	29.94	+.02	60.8	+.8	86	1	73	38	15	48	39	51	44	61	3.24	+2.5	11	8.6	sw.	31	sw.	2	14	4	12	5.3	.0	.0
Salt Lake City [1]	4,227	32	46	25.76	29.95	.00	66.3	+1.9	93	1	78	40	15	54	37	52	43	51	.58	−.4	6	7.2	s.	27	s.	11	15	6	9	4.1	.0	.0
Grand Junction	4,602	60	68	25.43	29.97	+.02	67.9	+1.7	93	1	80	48	15	56	34	55	46	52	2.37	+1.4	10	5.4	se.	24	w.	4	14	6	10	4.4	.0	.0
Northern Plateau							63.2	+2.8										49	0.53	−0.2										3.4		
Baker	3,471	36	54	26.57	30.02	+.03	58.8	+2.8	90	20	75	33	29	42	48	45	34	55	.56	−.2	4	6.1	s.	29	w.	4	17	6	7	3.6	.0	.0
Boise [1]	2,739	79	87	27.19	29.96	−.01	64.3	+2.4	92	20	78	41	29	50	37	51	41	55	1.53	+1.0	3	4.8	nw.	15	w.	13	19	6	5	2.9	.0	.0
Pocatello [1]	4,478	5	31	25.51	29.98	+.02	60.6	+.4	87	21	76	32	30	45	48	48	36	47	.43	−.4	7	9.7	sw.	31	sw.	27	15	11	4	3.6	.0	.0
Spokane [2]	1,929	101	110	27.91	29.97	−.01	62.1	+2.9	90	20	76	38	29	48	41	50	39	51	.23	−.7	3	6.2	s.	22	sw.	5	17	6	7	3.8	.0	.0
Walla Walla	991	57	65	28.91	29.98	−.02	67.1	+3.3	91	10	80	46	29	54	35	53	40	40	.38	−.6	4	5.5	s.	19	sw.	5	19	3	8	3.5	.0	.0
Yakima	1,076	58	67	28.85	29.99		66.2	+5.1	94	21	80	41	30	52	41	53	42	47	.05	−.5	1	5.8	nw.	20	nw.	5	17	10	3	3.1	.0	.0
North Pacific Coast Region							61.2	+2.3										72	0.92	−1.3										4.4		
North Head	211	8	56	29.83	30.05	+.02	57.4	+.9	77	19	62	49	13	52	26	54	53	90	.68	−2.3	14	11.3	n.	34	s.	14	10	7	13	5.7	.0	.0
Seattle [2]	125	90	321	30.01	30.05	+.04	61.1	+3.0	80	21	70	47	30	53	26	54	50	76	1.30	−.5	8	7.2	n.	24	sw.	14	13	7	10	4.7	.0	.0
Tacoma	263	172	201	29.84	30.04	+.02	59.0	+1.7	78	21	67	44	30	51	24				.62	−1.5	7	7.4	n.	26	sw.	10	15	7	8	4.0	.0	.0
Tatoosh Island	86	9	55	29.96	30.05	+.04	54.4	+1.4	65	20	58	47	12	51	14	52	51	89	2.41	−2.3	9	10.8	sw.	57	ne.	20	10	6	14	6.1	.0	.0
Medford [1]	1,329	29	58	28.58	29.97		65.8	+2.5	98	21	84	37	15	48	52	53	42	52	.26	−.3	4		nw.				19	7	4	2.9	.0	.0
Portland, Oreg. [2]	154	68	106	29.98	30.02	−.01	65.4	+3.7	88	21	75	47	13	56	30	57	52	68	.60	−1.4	4	5.7	nw.	15	nw.	10	15	6	9	4.2	.0	.0
Roseburg	510	45	76	29.45	29.99	−.03	65.6	+2.7	98	21	80	42	7	51	45	56	48	60	.55	−.7	4	3.5	n.	18	n.	6	18	8	4	3.0	.0	.0
Middle Pacific Coast Region							68.0	+3.1										61	0.60	−0.1										3.7		
Eureka	60	72	88	29.93	30.00	−.01	57.6	+1.7	85	21	63	45	18	52	25	54	52	85	.05	−1.0	3	5.4	n.	24	n.	6	14	8	8	4.8	.0	.0
Redding [1]	722	20	34	29.13	29.90		75.2	+1.7	102	19	87	50	14	63	37	57	41	38	.92	+.1	5	7.7	nw.	23	nw.	11	17	6	7	3.8	.0	.0
Sacramento [2]	66	92	115	29.86	29.88	−.01	73.1	+3.8	102	23	87	46	14	59	42	58	47	48	.35	.0	3	6.7	s.	21	s.	11	19	7	4	2.8	.0	.0
San Francisco	155	112	132	29.75	29.94	.00	66.2	+5.3	97	21	74	53	13	58	32	58	54	73	1.06	+.6	4	8.4	w.	26	w.	19	17	9	4	3.4	.0	.0
South Pacific Coast Region							75.1	+5.3										5.8	4.12	+4.0										4.3		
Fresno [1]	327	97	105	29.58	29.87	.00	75.9	+2.5	104	20	91	50	14	61	44	60	48	45	.17		4	6.0	nw.	22	se.	20	16	8	6	3.6	.0	.0
Los Angeles	338	159	191	29.52	29.88	.00	76.6	+7.6	107	20	86	57	14	67	31	63	55	56	5.67	+5.5	5	6.0	sw.	29	se.	24	14	12	4	3.9	.0	.0
San Diego [2]	87	62	70	29.85	29.87	−.02	72.8	+5.7	106	21	80	57	14	66	29	65	61	72	2.58	+2.5	9	6.6	nw.	34	s.	25	11	9	10	5.5	.0	.0
West Indies																																
San Juan, P. R.	82	9	54	29.89	29.97		80.7	+.2	89	22	86	72	4	76	15				6.23	+.3	15	8.9	e.	29	ne.	4	6	18	6	5.3	.0	.0
Panama Canal																																
Balboa Heights	118	6	92		[3]29.84	+.02	79.8	.0	91	1	86	71	13	74	17			[3]86	8.12	.0	23	4.4	nw.	22	n.	16	1	6	23	7.9	.0	.0
Cristobal	36	6	97		[3]29.85	+.02	80.5	+.1	89	27	86	73	11	76	15	76	75	[3]86	16.91	+4.4	24	5.8	s.	19	w.	10	1	3	26	8.8	.0	.0
Alaska																																
Fairbanks	454	11	87	[4]29.32	[4]29.84		42.0	−1.4	60	25	51	12	19	33	35	39	35	74	1.16	−.2	14	6.1	e.	22	nw.	17	3	9	18	7.8	T	.0
Juneau	80	96	116	[4]29.84	[4]29.93		49.6	−.6	62	10	53	39	12	46	18	47	44	83	14.09	+3.9	25	7.4	s.	33	ne.	15	2	0	28	9.4	.0	.0
Nome	22	5	57																													
Hawaiian Islands																																
Honolulu	38	86	100	29.92	29.96		77.0	−1.2	85	6	82	69	19	72	14	70	66	72	3.78	+2.5	12	8.6	e.	23	e.	10	5	23	2	4.9	.0	.0

[1] Data are airport records.
[2] Barometric and hygrometric data from airport, other data city office records.
[3] Observations taken bihourly.
[4] Pressure not reduced to a mean of 24 hours.

NOTE.—Except as indicated by notes 1 and 2, data in table 2 are city office records.

TABLE 3.—*Data furnished by the Canadian Meteorological Service, September 1939*

Stations	Altitude above mean sea level, Jan. 1, 1919	Pressure: Station reduced to mean of 24 hours	Pressure: Sea level reduced to mean of 24 hours	Pressure: Departure from normal	Temperature of the air: Mean max.+mean min.÷2	Temperature of the air: Departure from normal	Temperature of the air: Mean maximum	Temperature of the air: Mean minimum	Temperature of the air: Highest	Temperature of the air: Lowest	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Total snowfall
	Feet	*In.*	*In.*	*In.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*° F.*	*In.*	*In.*	*In.*
Cape Race, Newfoundland	99				52.4	−0.4	58.9	45.8	68	33	3.18	−0.41	0.0
Sydney, Cape Breton Island	48	29.82	29.95	−.09	57.2	+.2	66.7	47.7	84	35	2.78	−.59	.0
Halifax, Nova Scotia	88	29.73	29.99	−.06	59.6	+1.3	67.2	52.1	86	39	4.75	+1.01	.0
Yarmouth, Nova Scotia	65	29.90	30.00	−.60	57.3	+1.3	64.9	49.7	77	36	3.53	+.02	.0
Charlottetown, Prince Edward Island	38	29.88	29.96	−.06	58.2	+1.3	66.7	49.8	82	33	4.04	+.35	.0
Chatham, New Brunswick	28	29.82	29.92	−.05	54.6	−1.8	65.2	44.1	91	24	4.65	+1.62	.0
Father Point, Quebec	20	29.92	29.94	−.04	49.6	−.1	56.2	43.1	77	28	4.08	+1.10	.0
Quebec, Quebec	296												
Doucet, Quebec	1,236												
Montreal, Quebec	187												
Ottawa, Ontario	236	29.64	30.00	−.03	56.8	−1.2	66.7	46.8	94	31	2.59	−.21	.0
Kingston, Ontario	285	29.72	30.03	−.02	58.4	−1.6	69.1	47.8	87	28	3.54	+.74	.0
Toronto, Ontario	379	29.62	30.03	−.02	61.8	+1.4	69.8	53.6	92	41	2.52	−.44	.0
Cochrane, Ontario	930				50.1	−1.3	59.5	40.7	89	19	2.38	−.69	T
White River, Ontario	1,244	28.67	30.02	+.03	50.0	.0	60.6	39.3	88	15	3.40	+.37	.7
London, Ontario	808	29.17	30.05	−.01	61.6	+1.1	72.5	50.8	94	35	2.80	−.08	.0
Southampton, Ontario	656	29.32	30.03	−.01	58.7	−.5	68.2	49.2	91	33	1.96	−.92	.0
Parry Sound, Ontario	688	29.34	30.03	.00	58.2	+.8	66.9	49.6	87	36	2.97	−.64	.0
Port Arthur, Ontario	644	29.28	29.99	+.01	51.6	−1.6	60.6	42.6	77	20	3.66	+.28	.0
Winnipeg, Manitoba	760	29.07	29.93	−.04	55.3	+1.1	66.0	44.6	87	23	1.62	−.64	T
Minnedosa, Manitoba	1,690	28.14	29.95	+.01	52.9	+.9	65.5	40.3	87	21	1.47	−.13	2.0
Le Pas, Manitoba	860	28.94	29.91	+.01	48.5	−.7	60.3	36.7	80	20	1.05	−.76	.0
Qu'Appelle, Saskatchewan	2,115	27.68	29.94	−.02	54.2	+2.3	68.3	40.0	89	21	.51	−1.12	T
Moose Jaw, Saskatchewan	1,759				57.0	+3.5	69.6	44.4	89	26	.31	−.96	T
Swift Current, Saskatchewan	2,392	27.17	29.93	+.03	54.0	+.7	66.2	41.9	66	42	.33	−.94	.8
Medicine Hat, Alberta	2,365	27.47	29.95	+.02	56.3	+.3	69.6	43.0	89	27	1.23	+.07	.0
Calgary, Alberta	3,540	26.32	29.99	+.03	51.8	+1.3	63.1	40.4	81	31	1.50	−.03	.1
Banff, Alberta	4,521												
Prince Albert, Saskatchewan	1,450	28.38	29.93	−.01	51.8	+1.6	62.0	41.5	82	27	.91	−.64	.2
Battleford, Saskatchewan	1,592	28.20	29.92	−.02	52.6	+1.1	65.4	39.7	85	12	.25	−1.08	T
Edmonton, Alberta	2,150	27.57	29.93	+.02	49.4	−.8	61.5	37.2	80	19	1.81	+.50	.6
Kamloops, British Columbia	1,262	28.64	29.98	.00	60.3	+1.7	72.1	48.5	83	37	.83	+.01	.0
Victoria, British Columbia	230	29.79	30.03	+.04	58.0	+2.0	65.7	50.4	75	47	.31	−1.34	.0
Barkerville, British Columbia	4,180												
Estevan Point, British Columbia	20	30.04	30.07	+.08	54.8	+1.2	60.4	49.2	68	44	3.14	−1.75	.0
Prince Rupert, British Columbia	170	29.86	30.04	+.07	52.8	−.8	58.6	46.9	70	40	9.86	+2.07	.0
St. George's, Bermuda	158		30.04	−.03	78.9	+1.0	83.9	73.9	90	69	5.19	−.05	.0

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Father Point, Quebec	20	29.93	29.95	+0.03	58.8	+3.1	66.6	50.9	77	45	3.06	−0.05	0.0
Quebec, Quebec	296	29.64	29.96	+.01	69.3	+5.7	77.7	60.9	85	49	4.84	+1.01	.0
Kamloops, British Columbia	1,262	28.64	29.96	+.04	70.5	+2.2	86.5	54.5	100	44	T	−1.08	.0
Estevan Point, British Columbia	20	30.03	30.06	+.02	57.5	+.7	63.6	51.4	75	48	3.52	+.24	.0
Prince Rupert, British Columbia	170	29.90	30.08	+.05	56.0	−1.6	62.7	49.4	73	43	6.81	+1.61	.0
St. George's, Bermuda	158		30.05	−.05	80.5	+1.0	85.8	75.1	89	79	4.36	−1.56	.0

TABLE 4.—*Severe local storms, September 1939*

[Compiled by Mary O. Souder from reports submitted by Weather Bureau officials]

[The table herewith contains such data as has been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the United State Meteorological Yearbook]

Place	Date	Time	Width of path, yards	Loss of life	Value of property destroyed	Character of storm	Remarks
Hand County, S. Dak	1-2	P. m	[1] 2½		$3,000	Electrical	A prairie fire caused by lightning destroyed hay.
Johnston, S. C., vicinity of	2	3 p. m			500	do	Loss of barn, feed, and mule.
Wright, Hennepin, and Anoka Counties, Minn.	3	10:30-11:30 a. m.	[1] 3		25,600	Thundersqualls and hail.	Several barns, outbuildings, silos, and windmills demolished; residences and barns unroofed or otherwise damaged; many trees uprooted or branches broken off; much corn lodged; haystacks scattered.
Marquette, Mich., vicinity of	3	10:33 - 10:55 a. m.	[1] 3		10,000	Hail	Windows broken; roofs damaged; loss to gardens.
Marinette County, Wis	3	8:25 p. m			2,000	Wind	Many trees blown over; poles and wires down; streets blocked with debris.
Bedford, Va	3	P. m			2,000	Thunderstorm	Barn and contents burned.
Door County, Wis	3				25,000	Wind	Much damage to cherry orchards; many poles down.
Lincoln County, Tenn	4					do	Several houses unroofed.
Sparta, Tenn., and vicinity	4	5:30 p. m		1	5,000	Tornado	Property damaged.
Park County, Utah	4					Electrical	A flock of 835 sheep killed by lightning as they slept, only 15 escaped; loss of several thousand dollars.
Brookville, Ohio, vicinity of	9					Wind and hail	Damage to power lines and buildings; loss to crops.
New York State, western and west-central portions.	10	P. m		4	100,000	do	Trees down; highways and streets blocked: damage to telephone and power lines. Many small buildings demolished; dwellings damaged. In Hannibal, N. Y., hail caused much loss to fruits and other crops over a path 1 to 4 miles wide and from 8 to 10 miles long. In Baldwinsville, N. Y., much loss in tobacco from hail.
Minneapolis and St. Paul, Minn., and vicinity.	11				25,000	Heavy rain	Sewers overflowed; basements flooded; pavements damaged; highways inundated.
De Kalb, Cherokee, and Etowah Counties, Ala.	14	3:30-6 p. m			2,100	Wind	Property damaged.
Blunt, S. Dak., vicinity of	14	10:10 p. m	[1] 6		7,500	do	Property damaged; telephone poles down.
Calhoun, Ga., vicinity of	14		[1] 4			Wind and hail	Much crop loss; considerable damage to roofs; windows broken. No estimate of damage available.
Hamilton County, Ind	16	3:30 p. m		0	500	Tornado	Property damaged.
Jay and Randolph Counties, Ind.	16	6:45 p. m		0	500	do	Storm occurred along the Jay-Randolph county line. Property damaged.
Springfield, Ill	16				2,000	Wind	Property damaged.
Boone County, Ind	16				950	Wind and hail	Property damage, $200; loss to crops, $750.
San Diego, Calif	19	10:30 p. m	6		1,000	Straight-line wind	Property damaged.
Priest Valley, Calif	21	P. m	880			do	Large trees uprooted; several sheds unroofed.
California, southern coastal region.	24-25		[1] 100	45	2,000,000	Tropical	Damage to small craft, to buildings, and power and communication lines along the coast, $1,500,000; loss to crops, $500,000. The torrential rain that resulted from this storm also did great damage to dates, truck, and cut hay in the irrigated desert region of Riverside and Imperial Counties, but estimate of these losses are not available. A more detailed report of this storm will appear in a later issue of this Review.
Cattaraugus County, N. Y	29	6 p. m		1	100,000	Tornadic winds	Barns and sheds demolished; dwellings damaged; cattle killed; loss to crops and grains in storage; 5 persons injured.
Mount Vernon, Ohio, vicinity of.	29					Wind	Buildings unroofed; loss to crops.
Toledo, Ohio	30					Thunderstorm	Considerable damage to shade trees.

[1] Miles instead of yards.