CLIMATOLOGICAL DATA FOR SEPTEMBER 1949

CONDENSED CLIMATOLOGICAL SUMMARY OF TEMPERATURE AND PRECIPITATION BY SECTIONS

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.

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	73.4	−3.2	Dayton	97	18	2 stations	35	30	3.31	+0.02	Spring Hill	9.98	Hayneville	0.14
Arizona	74.9	+2.5	Gila Bend	115	[1] 2	Maverick	28	[1] 16	1.62	+.30	Tonto Creek Fish Hatchery.	5.94	2 stations	.00
Arkansas	69.1	−5.1	2 stations	99	[1] 7	Batesville Livestock	28	30	3.20	−.09	Rogers	9.06	Marianna	.60
California	71.4	+1.9	do	118	[1] 1	Boca	20	7	.09	−.31	Betts Ranch	1.92	334 stations	.00
Colorado	59.2	+1.0	do	96	[1] 16	2 stations	13	[1] 19	.85	−.49	Wolf Creek Pass	3.96	Las Animas	.00
Florida	79.8	+1.4	do	98	[1] 17	Milton Exp. Sta	46	30	7.60	+.81	St. Augustine	20.89	Eglin Field	1.15
Georgia	73.6	−2.2	Lumber City	100	19	Blairsville Exp. Sta	31	30	3.26	−.53	Brunswick	15.51	Pearson	.30
Idaho	60.0	+2.7	2 stations	100	1	2 stations	13	17	.89	−.09	Wallace	3.58	2 stations	T
Illinois	61.6	−6.1	Mt. Vernon	95	3	do	26	29	2.76	−.88	Chester	7.52	Kewanee	.18
Indiana	61.0	−6.1	3 stations	90	[1] 3	Plymouth Power Substation.	25	30	2.64	−.64	Shelbyville Power Plant.	5.99	Delphia	.64
Iowa	59.2	−.5	2 stations	91	[1] 3	Saratoga, 2 E	16	29	3.21	−.80	Lemars	8.43	Bellvue L&D	.93
Kansas	65.3	−4.4	do	97	20	Burr Oak	28	[1] 28	2.22	−.54	Anthony	7.22	2 stations	T
Kentucky	64.5	−5.8	4 stations	91	[1] 4	3 stations	30	30	1.84	−1.03	Owensboro Dam 46	5.79	Wolf Creek Dam	.52
Louisiana	76.8	−1.1	2 stations	100	[1] 6	Tallulah Delta Lab	35	30	3.94	−.14	Burrwood	15.73	Grand Coteau	.12
Maryland-Delaware	64.7	−3.0	do	93	[1] 5	2 stations	28	25	3.29	−.06	Ridgely	6.49	Picardy	1.57
Michigan	56.6	−3.3	do	89	[1] 4	Watersmeet, U. S. Forest.	18	29	2.78	−.59	Rock	5.42	Rudyard	1.21
Minnesota	55.8	−3.2	Beardsley	91	2	Roseau Power Plant	20	28	1.74	−1.10	Tyler	4.64	2 stations	.40
Mississippi	74.0	−1.9	2 stations	97	[1] 7	2 stations	35	30	3.77	+.67	McHenry	15.42	Thyatira	.00
Missouri	63.1	−6.3	Camdenton	99	4	Bethany	27	[1] 29	4.78	+.78	Westphalia	10.16	Albany	1.86
Montana	55.8	+.2	Wolf Point, 4 ESE	96	24	Wibaux, 2 E	7	13	1.02	−.32	Livingston CAA AP	3.67	2 stations	.00
Nebraska	61.2	−3.3	Big Springs	99	16	Niobrara	24	29	2.19	+.09	Hartington	6.23	Kimball	.19
Nevada	65.4	+3.4	Overton	111	1	Wilkins	15	17	.27	−.15	Desert Game Range	1.95	16 stations	.00
New England	58.4	−1.9	3 stations, Mass	88	5	Chelsea, Vt	23	26	4.28	+.54	Tuckerman Ravine, N. H.	9.48	Block Island, R. I	1.53
New Jersey	63.8	−2.2	Paterson	90	6	Charlotteburg	31	26	4.20	+.47	Macopin Intake	7.33	2 stations	1.67
New Mexico	66.5	+1.2	2 stations	102	[1] 1	Gavilan	20	18	2.44	+.59	Lovington	8.28	Aztec Ruins	.18
New York	58.5	−2.7	Cairo	91	5	4 stations	27	26	3.64	+.16	Cold Brook	8.73	West Jasper	1.40
North Carolina	68.9	−2.1	Mount Gilead	94	15	Mt. Mitchell	27	[1] 24	4.02	−.14	Monroe	9.78	Alta Pass	.85
North Dakota	55.6	−1.2	4 stations	94	[1] 10	Medora	13	13	.56	−.97	Sharon	1.29	Watford City	.12
Ohio	60.8	−4.8	Ironton	91	4	Batavia, 4 N	28	30	2.71	−.21	Steubenville Water Works.	5.04	New Lexington, 1 N	.72
Oklahoma	69.4	−4.7	Wagoner	101	7	Pawhuska	31	29	3.87	+.72	Atoka	9.80	Hooker	.29
Oregon	60.5	+1.8	Illahe, 1 N	105	3	Seneca	9	13	1.03	−.16	Timberline Lodge	5.14	Nyssa	.01
Pennsylvania	59.9	−4.2	3 stations	92	[1] 2	2 stations	25	[1] 10	3.15	−.24	Ralston	6.86	Austinburg, 2 W	1.37
South Carolina	72.1	−2.6	do	96	[1] 17	do	36	30	3.93	−.21	Conway	8.50	Beaufort	.48
South Dakota	58.3	−3.3	Wood	99	16	Hardy R. S	9	13	1.57	+.02	Vermillion	7.38	Longvalley	.26
Tennessee	66.9	−4.5	Clarksville	94	17	Waynesboro	29	30	2.00	−1.16	Watts Bar Dam	5.45	Portland	.18
Texas	75.8	−1.5	2 stations	104	[1] 1	Sulphur Springs	39	30	2.80	−.19	Port Isabel	14.15	Thornton	T
Utah	63.6	+2.5	Zion Nat'l. Park	106	1	Woodruff	16	19	.77	−.25	Alton	3.02	2 stations	T
Virginia	65.1	−3.4	4 stations	91	[1] 5	Burke's Garden	29	25	2.83	−.40	Appomattox	5.44	Darwin	.89
Washington	60.6	+2.0	Ruff, 3 SW	104	2	Bumping Lake	20	20	1.38	−.40	Mt. Baker Lodge	7.61	Yakima W. B. Airport.	.16
West Virginia	61.7	−4.5	2 stations	92	[1] 5	Cranberry Glades	22	24	2.62	−.35	2 stations	5.89	Brushy Run	.75
Wisconsin	56.3	−4.0	do	87	[1] 2	Coddington Exp. Farm.	10	29	2.01	−1.65	South Pelican	5.45	Wisconsin Rapids	.47
Wyoming	55.8	+1.0	Lower Crazy Woman	97	9	Bondurant	9	18	.90	−.30	Quaking Aspen Creek	2.55	Leo, 6 SW	.08
Alaska (Aug.)	52.2	−.4	Caswell	90	3	Shishmaref	21	28	3.22	−.29	Annex Creek	16.02	Fort Yukon	.06
Hawaii	73.5	−1.1	Puunene Airport	94	[1] 11	Haleakala R. S	39	[1] 6	2.54	−3.23	Kukui	18.00	17 stations	.00
Puerto Rico	78.7	−.8	2 stations	97	[1] 7	Utuado	53	27	11.64	+3.33	RioBlanco (1800' elev.)	25.14	Ramey Field	2.38

[1] Other dates also.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR SEPTEMBER 1949

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Total heating degree days	Mean temperature of the dew-point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset) number of days: Clear	Character of day: Partly cloudy	Character of day: Cloudy	Sky cover, tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
NEW ENGLAND																	77	4.43	+.9														6.3	
Caribou [2]	628	5	33	993.2	1,016.0	----	63	44	53.4	-.1	79	4	28	11	352	47	80	4.40	+.8	1.60	15	1	.0	0	11.9	------	38	nnw.	10	4	7	19	7.5	---
Eastport	75	67	82	1,013.9	1,016.6	-.3	63	51	56.9	+1.1	72	6	41	26	238	----	---	6.10	+3.3	2.47	14	5	T	0	8.2	------	32	e.	9	7	6	17	6.8	49
Portland, Maine [2]	103	6	43	1,012.5	1,016.7	-.9	68	47	57.2	-.7	81	19	30	26	239	62	83	6.27	+3.2	3.04	11	2	.0	0	5.0	------	27	se.	14	9	10	11	6.0	56
Concord [2]	289	5	45	1,006.8	1,017.2	-.8	69	46	57.8	-.2	84	4	31	26	234	51	79	4.75	+1.3	1.39	15	6	.0	0	4.4	------	23	w.	6	7	10	13	6.3	45
Mt. Washington	6,274	5	37	808.7	1,022.0	----	44	33	38.8	-2.2	58	4	20	26	789	----	---	8.02	+.4	1.77	20	1	7.8	0	30.4	------	----	------	--	3	5	22	8.0	26
Burlington [2]	403	6	51	1,001.7	1,016.4	-.5	68	50	59.2	-1.1	84	4	33	26	197	51	77	2.64	-.8	.68	16	2	.0	0	8.5	------	32	s.	27	5	8	17	7.2	30
Boston [2]	124	33	62	1,012.9	1,017.3	-.3	71	55	63.2	.0	85	5	44	25	104	53	72	6.47	+3.3	2.16	11	4	.0	0	10.9	------	33	sw.	1	9	10	11	5.7	62
Nantucket [2]	12	4	34	1,016.9	1,017.5	-.1	70	59	62.6	-.2	76	6	39	26	102	57	80	3.53	+1.1	1.22	9	2	.0	0	11.7	------	31	ne.	28	9	8	13	5.9	52
Block Island	26	11	46	1,016.6	1,017.6	.0	69	58	63.8	+.4	79	14	48	26	78	----	---	1.53	-1.1	.18	12	2	.0	0	14.7	------	57	nw.	9	9	11	10	5.6	60
Providence [3]	159	65	60	1,011.9	1,017.6	.0	73	54	63.6	+.4	85	4	39	26	100	54	76	3.42	+.2	.94	11	2	.0	0	8.0	------	34	sw.	18	13	5	12	5.5	65
Hartford [2]	159	5	44	1,011.9	1,017.8	-.2	73	51	61.8	+.1	84	14	37	26	132	53	75	3.03	-.5	1.28	15	1	.0	0	6.7	------	26	s.	9	7	13	10	6.1	63
New Haven [2]	107	5	39	1,013.2	1,017.8	-.2	72	54	62.7	+.9	82	19	40	26	108	55	72	2.95	-.3	1.02	12	2	.0	0	7.3	------	22	e.	12	9	11	10	5.4	67
MIDDLE ATLANTIC																																		
									65.0	-1.8							74	3.10	-.1														5.7	
Albany [2]	97	6	40	1,013.5	1,017.1	-.5	70	47	58.6	-2.6	84	4	33	26	208	51	77	2.10	-.7	.49	14	2	.0	0	7.4	------	36	nw.	20	9	7	14	6.3	54
Binghamton [4]	871	57	79	987.5	1,018.2	-.1	69	49	58.8	-2.5	84	4	30	26	200	50	82	3.33	+.2	1.03	15	4	.0	0	5.3	------	26	sw.	1	6	7	17	6.7	49
New York [4]	314	415	454	1,007.1	1,018.2	+.2	73	58	65.7	-1.1	84	5	48	24	53	54	68	2.92	-.5	.68	13	4	.0	0	11.1	------	42	nw.	9	9	10	11	5.6	61
Allentown [2]	385	4	58	1,004.4	1,018.6	----	73	51	62.0	-2.8	89	5	40	25	129	53	76	5.04	+1.6	2.93	12	3	.0	0	7.0	------	--	------	--	9	10	11	5.5	---
Harrisburg [2]	374	30	49	1,005.1	1,018.5	+.2	72	53	62.6	-3.2	88	5	41	26	116	52	72	1.61	-1.4	.44	10	3	.0	0	6.0	------	31	w.	23	9	6	15	6.0	59
Philadelphia [4]	114	174	150	1,017.3	1,018.2	-.1	74	59	66.6	-1.4	86	5	49	24	46	55	72	3.63	+.5	.98	13	2	.0	0	8.5	------	21	s.	18	10	10	10	5.2	63
Reading	323	47	306	1,006.4	1,018.3	.0	74	54	64.2	-2.4	88	5	43	26	93	----	---	3.27	+.1	1.40	12	3	.0	0	9.4	------	40	sw.	5	11	8	11	5.2	65
Scranton	805	72	104	989.5	1,018.3	.0	70	51	60.4	-2.5	85	5	40	26	166	----	---	3.19	.0	1.11	11	3	T	0	5.8	------	28	nw.	9	10	10	10	5.3	55
Atlantic City	52	37	172	1,015.9	1,017.6	-.4	72	60	66.0	-.8	85	6	49	25	57	----	---	1.67	-1.0	.51	8	0	.0	0	14.4	------	38	ne.	9	7	12	11	5.7	65
Newark [2]	30	5	46	1,016.9	1,017.8	----	75	55	65.0	-1.5	89	5	43	26	72	54	71	3.06	-.7	.90	13	4	.0	0	9.8	------	30	nnw.	8	10	10	10	5.7	---
Trenton	190	89	107	1,010.5	1,017.3	-.7	73	56	64.2	-2.7	85	5	45	26	84	----	---	4.19	+1.0	1.67	12	3	.0	0	8.5	------	27	w.	9	11	8	11	5.6	65
Baltimore [4]	123	100	215	1,014.2	1,018.7	+.7	76	59	67.2	-1.3	90	5	48	25	47	55	70	2.33	-1.0	.54	13	2	.0	0	9.0	------	35	w.	5	11	12	7	4.8	70
Washington [4]	112	56	100	1,014.6	1,018.6	+.6	77	58	67.1	-1.0	90	5	46	26	55	55	69	3.55	+.3	1.13	11	3	.0	0	9.4	------	34	nw.	23	10	10	10	5.6	65
Cape Henry	18	8	54	1,016.9	1,017.6	.0	76	67	71.5	-.3	90	19	55	25	9	----	---	4.67	+1.8	1.52	12	5	.0	0	13.6	------	40	ne.	12	8	11	11	5.6	73
Lynchburg [2]	686	5	58	985.1	1,018.7	+.1	75	56	65.2	-2.7	85	19	42	24	85	56	77	2.68	-.6	.82	10	5	.0	0	7.4	------	29	s.	18	9	9	12	5.5	69
Norfolk [4]	91	80	125	1,014.9	1,018.1	+.2	78	66	71.9	+.3	90	6	55	30	12	61	75	2.06	-1.2	.88	11	4	.0	0	10.7	------	34	ne.	12	6	11	13	6.2	69
Richmond [4]	144	11	52	1,012.5	1,018.3	.0	78	59	68.2	-2.3	87	6	47	25	36	59	80	3.46	+.2	1.08	9	4	.0	0	6.3	------	24	w.	18	8	10	12	5.9	68
EAST GULF																																		
New Orleans C. O.	53	76	84	1,013.2	------	----	86	72	79.0	-.2	93	8	58	30	0	----	---	7.10	+2.1	3.35	12	6	.0	0	6.7	------	20	se.	4	6	14	10	6.0	48
New Orleans A. P. [2]	30	6	52	1,013.2	1,015.2	-.4	86	71	78.7	------	94	8	60	30	0	69	77	5.19	------	2.17	10	5	.0	0	8.9	ene.	40	se.	4	6	10	14	6.0	---
WEST GULF																																		
									78.0	.0							71	3.29	-.4														5.2	
Shreveport [2]	181	5	64	1,007.1	1,016.1	+.2	86	64	75.4	-1.9	96	7	46	30	9	65	74	3.74	+.9	1.71	10	3	.0	0	7.7	ne.	32	s.	8	15	10	5	4.1	76
Fort Smith [2]	463	6	30	1,000.3	1,016.5	+.9	82	58	70.2	-3.8	95	5	41	29	35	57	68	3.75	+.8	1.25	10	5	.0	0	7.4	ene.	52	ne.	12	10	11	9	5.0	76
Little Rock [2]	265	26	58	1,004.7	1,017.7	+1.4	80	60	70.1	-4.0	91	4	45	30	27	59	72	2.75	-.4	1.02	7	3	.0	0	6.2	ne.	34	ne.	18	12	6	12	5.0	60
Austin [2]	621	5	41	993.6	1,015.0	+.4	90	68	79.4	+1.1	97	7	53	30	0	66	68	3.77	+.4	3.65	3	4	.0	0	7.6	ne.	36	se.	18	8	16	6	4.9	73
Brownsville [2]	20	5	54	1,011.2	1,012.4	-.1	90	75	82.3	+1.7	94	16	70	30	0	74	79	7.40	+1.6	5.21	12	7	.0	0	9.7	se.	33	ne.	30	9	14	7	5.6	49
Corpus Christi [2]	44	6	33	1,012.5	1,013.9	.0	90	73	81.5	+2.9	95	28	66	30	0	73	79	5.16	+.7	2.38	7	9	.0	0	8.8	sse.	32	ne.	23	9	9	12	5.9	75
Dallas [2]	488	34	45	998.0	1,015.7	+.5	86	65	75.6	-1.8	98	7	48	29	5	60	62	1.82	-.9	.81	7	4	.0	0	7.7	ne.	30	ne.	19	13	11	6	4.3	71
Forth Worth [2]	706	40	56	991.5	1,015.9	+1.0	86	65	75.4	-.5	99	12	51	29	6	60	63	3.13	+.6	2.21	6	2	.0	0	12.5	e.	31	n.	7	13	10	7	4.4	---
Galveston [4]	54	122	129	1,013.9	1,014.5	-.4	85	76	80.6	+.5	91	13	62	30	0	73	78	1.21	-4.4	.36	1	13	.0	0	12.9	se.	37	nw.	1	6	16	8	5.7	70
Houston [4]	138	157	190	978.0	1,014.5	-.4	88	72	80.4	+1.4	95	8	56	30	0	71	78	3.44	-.6	.96	10	10	.0	0	8.3	nne.	26	se.	17	3	15	12	6.2	56
Laredo [2]	418	10	38	997.6	1,012.7	----	95	74	84.5	+2.3	101	12	65	25	----	----	64	1.86	-1.4	.89	6	9	.0	0	12.3	se.	--	------	--	5	16	9	5.9	---
Palestine	510	64	72	997.6	------	----	86	66	76.2	-.8	95	7	48	30	5	----	---	4.20	+1.3	2.24	8	4	.0	0	6.1	ne.	27	ne.	1	14	10	6	4.4	82
Port Aurthur [4]	34	59	134	1,013.5	1,014.5	-.4	87	73	80.0	+.5	92	14	55	30	1	70	82	3.08	-1.7	1.07	7	8	.0	0	5.4	ne.	33	ne.	21	7	15	8	5.6	62
San Antonio [2]	794	6	51	989.8	1,014.4	+.2	91	70	80.8	+1.8	97	8	58	30	0	64	62	.78	-2.3	.31	4	1	.0	0	8.9	ne.	27	e.	18	4	19	7	5.7	72
OHIO VALLEY AND TENNESSEE																																		
Lexington [2]	989	4	58	983.4	1,019.3	+1.0	75	53	64.0	-4.5	86	4	36	30	98	52	71	1.32	-1.8	.53	6	4	.0	0	7.8	sse.	--	------	--	10	11	9	5.0	---
Louisville [2]	525	5	54	1,000.7	1,018.6	+.6	77	52	64.6	-4.4	88	4	33	30	93	52	68	.91	-1.9	.28	8	2	.0	0	5.8	sse.	32	w.	19	8	13	9	5.3	67
Evansville [2]	431	6	40	1,003.4	1,019.0	+1.7	76	51	63.4	-4.3	87	4	33	30	112	53	74	2.36	-1.0	1.01	8	6	.0	0	7.1	nnw.	26	sw.	5	13	8	9	4.9	73
Indianapolis [2]	823	5	54	989.2	1,018.8	+1.2	72	49	60.6	-4.8	84	3	35	30	155	50	72	2.52	-.9	.86	9	5	.0	0	8.4	se.	32	w.	19	11	7	12	5.2	70
Terre Haute [2]	575	4	36	997.6	1,018.6	+1.3	74	49	61.4	-6.9	83	3	34	30	138	51	72	2.78	-.8	1.40	8	5	.0	0	7.9	sse.	31	sw.	4	11	12	7	4.5	71
Cincinnati [4]	627	135	148	996.3	1,019.1	+1.1	74	55	64.4	-4.6	85	3	40	30	86	52	72	1.53	-1.1	.48	8	3	.0	0	7.6	ssw.	23	w.	22	9	12	9	5.3	60
Columbus [2]	822	90	110	989.2	1,019.2	+1.2	72	53	62.3	-4.2	84	3	40	30	130	51	73	2.86	+.3	1.56	10	7	.0	0	7.4	nw.	32	sw.	19	7	12	11	5.5	62
Dayton [2]	1,003	6	55	982.7	1,019.2	+1.6	70	50	59.8	-6.1	82	3	36	30	182	50	73	3.31	+.4	1.12	9	6	.0	0	9.1	s.	39	nw.	22	9	11	10	5.6	61
Elkins [2]	1,947	5	45	948.5	1,019.7	+.4	70	46	58.1	-3.8	83	17	31	25	220	51	83	3.00	-.2	.73	14	3	.0	0	5.6	------	45	w.	18	3	11	16	7.0	51
Parkersburg	637	77	84	------	------	----	74	52	62.8	-4.5	85	5	36	30	127	----	---	1.39	-1.4	.53	7	4	.0	0	5.9	------	22	nw.	18	10	10	10	5.5	61
Pittsburgh [2]	842	39	54	973.6	1,018.8	+.5	71	52	61.0	-3.7	82	3	39	30	149	60	70	1.80	-.8	.64	7	2	.0	0	9.2	------	30	sw.	19	8	10	12	5.9	50
LOWER LAKES																																		
									59.6	-2.7							74	3.22	+.2														6.0	
Buffalo [2]	768	34	96	988.8	1,017.4	+.1	68	50	58.8	-2.8	85	4	39	25	206	50	74	3.10	+.2	.98	13	5	T	0	12.5	------	45	w	1	6	8	16	6.7	52
Canton	448	10	61	999.7	1,015.6	-1.0	63	49	57.6	-1.2	82	4	35	25	237	49	74	3.80	+.4	1.27	15	1	.0	0	6.9	------	38	w	1	4	9	17	7.3	39
Oswego	335	71	85	1,004.4	1,016.6	-.7	67	53	59.9	-1.6	83	4	47	30	172	----	---	2.96	+.2	.74	15	3	.0	0	8.7	------	26	w	1	8	5	17	6.5	49
Rochester [2]	523	4	69	998.0	1,017.2	-.4	69	48	58.8	-3.6	86	4	35	25	209	50	77	2.77	+.3	.76	15	2	.0	0	9.2	------	59	sw	5	7	12	11	6.1	62
Syracuse [2]	596	5	57	995.3	1,017.4	-.6	70	50	60.0	-.3	86	5	40	11	180	51	75	4.38	+1.7	1.16	14	2	.0	0	7.5	------	42	w	1	7	6	17	6.7	55
Erie [4]	714	57	81	------	------	----	69	54	61.4	-2.2	84	4	44	30	147	----	---	4.24	+.8	.99	15	10	T	0	8.4	------	26	w	1	7	10	13	5.9	44
Cleveland [2]	762	27	54	990.5	1,018.4	+.4	71	50	60.0	-3.8	84	3	38	30	180	50	71	2.87	-.5	1.19	12	5	T	0	10.8	s	36	w	19	8	12	10	5.4	63
Sandusky	629	5	67	995.3	------	----	72	53	62.2	-3.1	86	3	39	30	120	----	---	3.60	+.6	1.43	9	4	.0	0	7.7	------	34	sw	5	8	13	9	5.2	71
Toledo [2]	628	5	47	995.3	1,018.4	+.4	70	48	59.0	-4.1	85	3	35	30	203	50	74	2.83	+.1	1.27	10	6	T	0	8.6	sw	32	sw.	4	6	14	10	5.6	72
Fort Wayne [2]	857	5	34	988.2	1,018.6	+1.0	70	48	58.7	-4.4	83	3	35	30	202	49	73	2.98	-.1	1.99	10	6	.0	0	7.0	s.	26	s.	4	8	10	12	5.6	62
Detroit [2]	730	5	77	991.5	1,018.2	+.2	69	50	59.6	-2.8	83	4	38	29	182	48	70	1.90	-1.0	.93	8	2	.0	0	10.5	s.	35	nw.	22	8	12	10	5.1	65

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR SEPTEMBER 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Total heating degree days	Mean temperature of the dew-point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset) number of days: Clear	Character of day: Partly cloudy	Character of day: Cloudy	Sky cover,[7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
UPPER LAKES																																		
									56.7	−2.5							72	2.21	−1.1															
Alpena	609	5	89	993.2	----	----	66	48	56.8	−.8	87	4	37	29	260	----	---	2.27	−.7	.65	11	5	.0	0	10.3	----	34	w.	5	8	11	11	5.9	58
Escanaba	612	51	72	992.6	----	----	63	46	54.9	−2.2	77	18	31	29	305	----	---	1.60	−1.7	.47	14	0	T	0	10.7	----	34	n.	5	8	10	12	6.1	43
Grand Rapids [4]	707	70	244	992.2	1,017.5	+.2	68	51	59.7	−3.0	85	4	35	29	184	47	73	1.88	−1.6	.82	11	2	.0	0	10.2	ssw.	47	nw.	22	10	8	12	5.4	59
Lansing [4]	878	5	90	985.4	1,017.8	+.2	67	47	57.2	−4.5	85	4	32	29	247	46	71	1.91	−1.0	.89	11	1	.0	0	13.1	ssw.	43	w.	22	13	4	13	5.3	57
Marquette	734	44	73	986.8	----	----	64	47	55.3	−2.2	82	2	34	29	299	----	---	4.97	+1.7	1.90	13	3	T	0	9.1	----	25	sw.	1	6	9	15	6.9	48
Sault Sainte Marie [2]	614	10	52	987.5	1,014.6	−2.3	62	44	53.2	−.8	78	3	29	29	355	46	80	3.09	−.4	1.32	13	3	.0	0	8.7	nw.	38	sw.	2	3	13	14	7.0	---
Chicago [2]	673	5	38	995.6	1,018.0	+.7	71	49	60.4	−4.5	85	3	38	30	160	47	65	1.24	−2.0	.57	9	2	.0	0	9.2	s.	36	n.	22	12	6	12	5.2	65
Green Bay	617	5	32	993.2	1,016.0	−.3	67	45	56.0	−4.4	79	2	24	29	276	45	69	1.25	−2.3	.49	8	1	.0	0	12.0	ssw.	45	sw.	26	10	7	13	5.6	65
Milwaukee [2]	681	33	66	991.5	1,017.1	+.2	68	49	58.6	−2.4	81	3	34	29	203	47	69	1.88	−1.4	.66	8	2	T	0	12.3	sw.	41	sw.	22	10	7	13	5.3	51
Duluth [4]	1,133	5	47	962.8	1,014.6	−1.0	64	46	54.6	−.5	83	9	34	28	315	44	76	1.99	−1.3	1.44	6	1	.0	0	15.6	w.	33	w.	18	9	13	8	5.1	54
NORTH DAKOTA																																		
									56.2	−.8							58	.45	−1.1														5.2	
Fargo [2]	940	5	47	980.0	1,014.6	−.3	70	44	56.8	−1.4	86	24	26	28	262	40	56	.36	−1.9	.23	5	0	.0	0	12.7	w.	44	w.	18	11	6	13	5.5	54
Bismarck [2]	1,677	5	41	955.3	1,015.0	+.1	72	41	56.4	−.9	92	16	24	28	272	40	60	.54	−.7	.27	5	1	.0	0	9.6	nw.	47	nw.	18	12	8	10	5.1	71
Devils Lake	1,478	11	44	960.7	----	----	68	42	55.2	−.7	87	25	28	28	301	----	---	.55	−1.1	.45	5	1	.0	0	8.4	----	34	w.	18	14	6	10	4.7	68
Williston	1,878	42	50	947.5	----	----	71	41	56.2	−.4	89	10	26	14	277	----	---	.36	−.7	.28	5	0	.0	0	6.9	----	36	w.	17	10	7	13	5.4	83
UPPER MISSISSIPPI																																		
									60.6	−4.6							70	1.95	−1.7														4.9	
Minneapolis-St. Paul [2]	919	43	74	981.7	1,015.2	.0	69	48	58.4	−3.0	84	3	34	29	211	46	67	2.67	−.5	1.33	6	1	.0	0	10.1	w.	36	w.	18	10	10	10	5.2	63
La Crosse [2]	672	5	29	991.5	1,016.2	+.3	70	45	57.6	−3.8	85	2	23	29	247	46	69	.94	−3.0	.29	6	2	.0	0	9.3	sse.	30	w.	18	7	10	13	5.8	68
Madison [2]	974	27	39	985.8	1,017.4	+.8	68	45	56.8	−4.6	80	18	25	29	256	46	70	1.12	−2.6	.56	10	1	.0	0	11.7	w.	36	s.	2	11	6	13	5.4	60
Charles City	1,015	10	51	981.4	1,018.3	+2.0	70	46	58.0	−3.0	82	2	28	29	222	----	---	1.63	−2.1	1.05	8	2	.0	0	6.3	----	20	nw.	18	17	6	7	3.9	66
Moline [2]	606	6	50	995.9	1,018.4	+1.5	71	47	59.0	−4.9	82	4	30	29	204	48	69	1.96	−1.6	1.54	6	2	.0	0	7.1	w.	28	sw.	4	14	4	12	4.7	64
Des Moines [4]	860	5	99	982.7	1,017.9	+2.0	73	49	60.8	−4.8	86	20	33	29	136	48	72	1.97	−1.7	.98	7	3	.0	0	8.9	s.	29	s.	20	16	3	11	4.3	80
Dubuque	699	60	79	991.9	1,017.3	+.7	69	49	59.2	−4.8	80	18	33	29	190	48	74	1.09	−2.9	.42	8	3	.0	0	5.0	----	16	nw.	13	13	5	12	5.0	66
Burlington [2]	702	4	36	992.9	1,018.6	+1.7	73	47	60.1	−6.3	86	3	34	29	182	48	74	1.39	−3.1	.98	7	3	.0	0	10.9	s.	36	nw.	19	13	5	12	4.8	68
Cairo	357	5	99	1,005.4	----	----	77	58	67.4	−5.1	89	17	42	30	53	----	---	1.64	−1.2	.85	6	3	.0	0	7.1	----	24	w.	17	13	6	11	5.0	78
Peoria [2]	609	7	26	995.9	1,018.4	+1.1	72	49	60.4	−5.5	87	3	32	29	168	47	67	1.62	−2.4	.80	5	4	.0	0	10.0	s.	32	nw.	19	13	6	11	4.9	67
Springfield, Ill. [4]	636	5	49	996.3	1,018.4	+1.8	74	53	63.6	−4.0	87	3	38	29	96	50	71	2.60	−1.0	1.89	8	5	.0	0	9.1	s.	34	nw.	19	12	7	11	4.9	74
St. Louis [4]	568	33	59	998.0	1,018.2	+.9	74	57	65.6	−4.9	88	4	44	29	70	52	71	4.77	+1.3	3.05	8	3	.0	0	6.6	se.	40	s.	12	12	8	10	4.8	69
MISSOURI VALLEY																																		
									61.8	−4.2							70	3.91	+.8														4.9	
Columbia, Mo. [4]	784	6	66	989.5	1,018.0	+1.4	74	52	62.8	−6.6	85	20	38	29	112	53	80	6.37	+2.0	2.17	9	6	.0	0	7.2	sse.	24	nw.	13	12	7	11	5.0	65
Kansas City [2]	963	38	76	990.5	1,017.7	+2.1	75	54	64.4	−4.5	87	20	38	29	79	50	66	4.37	+.6	2.87	9	4	.0	0	6.9	s.	36	nw.	12	11	7	12	5.0	71
St. Joseph [2]	967	5	51	982.7	1,017.6	+2.0	75	50	62.6	−5.8	88	20	35	29	106	40	72	5.00	+1.1	3.35	10	7	.0	0	8.8	s.	43	sw.	4	14	7	9	4.9	63
Springfield, Mo. [2]	1,324	5	50	972.6	1,018.1	+1.5	74	54	63.9	−4.5	89	12	38	29	106	52	76	5.59	+2.1	2.16	8	5	.0	0	8.0	sse.	42	w.	6	9	10	11	5.2	62
Topeka [4]	987	65	87	985.8	1,017.7	+1.8	76	53	64.7	−4.0	90	20	37	29	79	52	72	1.79	−2.0	1.16	8	9	.0	0	8.0	s.	26	nw.	12	11	7	12	5.4	58
Lincoln [4]	1,189	6	81	974.3	1,017.0	+2.1	74	51	62.2	−4.2	90	20	33	29	122	48	72	4.51	+1.5	2.23	5	6	.0	0	7.5	s.	31	s.	20	12	7	11	5.1	70
Norfolk, Nebr. [2]	1,551	5	38	961.7	1,016.6	----	73	47	60.2	−3.8	90	20	28	29	179	46	68	2.41	−.5	1.02	7	7	.0	0	----	----	----	----	----	14	7	9	4.3	---
Omaha [2]	1,105	5	68	981.7	1,017.2	+.6	73	49	61.4	−4.3	88	20	32	29	137	49	70	3.17	.0	1.62	6	7	.0	0	9.5	sse.	36	nw.	12	12	8	10	4.6	68
Valentine	2,598	46	54	924.5	1,015.9	+.7	74	45	59.7	−2.8	96	16	28	28	190	41	54	1.49	+.2	.55	9	8	T	T	8.2	----	33	n.	26	15	5	10	4.7	75
Sioux City [2]	1,138	5	40	975.6	1,016.7	+1.5	74	46	59.8	−2.7	89	20	29	29	180	48	72	5.99	+3.0	2.80	8	7	T	T	8.7	s.	32	nw.	18	14	5	11	4.6	75
Huron [2]	1,301	5	41	969.2	1,015.4	+.2	72	45	58.4	−2.9	88	16	26	28	215	44	66	2.34	+.8	1.05	8	4	.0	0	10.6	s.	42	nw.	18	12	9	9	4.7	61
NORTHERN SLOPE																																		
									57.5	+0.7							52	1.01	−.2														5.2	
Billings [2]	3,570	16	39	892.3	1,015.3	−.6	72	45	58.6	−1.6	87	24	31	12	203	39	54	2.26	----	.71	10	2	T	0	9.5	sw.	61	nw.	16	9	8	13	5.5	60
Butte	5,533	44	58	831.7	1,018.5	----	68	35	51.4	−.3	81	23	25	12	409	35	60	1.69	+.8	.64	9	2	1.4	0	7.6	s.	--	----	--	11	9	10	5.4	---
Glasgow	2,086	34	53	940.7	1,015.1	----	74	41	57.5	+.2	91	9	21	13	240	33	44	.36	−.7	.18	6	1	T	0	----	----	--	----	--	12	5	13	5.2	---
Great Falls [2]	3,657	16	75	889.6	1,015.6	----	71	46	58.4	+.5	88	23	29	12	214	35	47	.52	−.9	.24	6	0	2.0	0	10.4	sw.	68	w.	16	10	9	11	5.4	76
Havre	2,507	11	67	926.9	1,015.9	+1.0	74	42	58.0	+1.6	90	1	27	13	211	----	---	.14	−1.2	.07	4	1	T	0	7.6	w.	43	sw.	16	10	12	8	5.1	74
Helena [2]	4,124	5	43	875.4	1,017.1	+1.9	70	40	55.0	−.4	87	1	22	12	301	38	52	1.08	−.2	.70	5	3	7.5	0	6.4	w.	43	w.	16	10	10	10	5.3	68
Missoula [2]	3,263	4	32	902.1	1,016.2	−.1	73	42	57.6	+4.1	90	1	29	12	225	38	54	1.33	+.1	.84	10	5	T	0	6.0	sse.	34	w.	16	9	11	10	5.7	68
Kalispell	2,973	48	56	913.0	1,015.7	+.8	69	42	55.5	+2.0	84	1	28	12	286	39	---	.97	−.3	.72	4	0	.7	0	10.2	nne.	--	----	--	11	7	12	5.9	---
Miles City [2]	2,371	5	28	931.6	1,015.5	−.1	75	44	59.2	----	91	24	28	13	193	35	---	.37	----	.21	8	1	T	0	8.9	wnw.	--	----	--	12	7	11	5.0	---
Rapid City [2]	3,259	5	56	902.1	1,015.1	−.5	74	45	59.7	−.5	95	16	29	13	184	37	52	1.05	−.2	.55	6	4	T	T	13.6	sse.	50	nw.	16	11	12	7	4.9	72
Cheyenne [2]	6,094	22	40	813.8	1,014.3	−.3	72	43	57.8	+.8	85	16	33	13	218	36	52	.25	−1.0	.10	7	5	.0	0	9.9	w.	34	nw.	11	10	9	11	5.4	73
Lander [2]	5,352	6	30	830.7	1,014.9	.0	74	43	58.5	+2.8	86	2	32	13	198	34	42	.63	−.3	.42	5	7	T	T	6.4	----	43	sw.	16	16	7	7	3.9	69
Sheridan [2]	3,790	5	38	885.5	1,016.1	+.5	74	41	57.4	+1.1	89	24	30	13	233	36	52	1.48	+.2	.97	8	2	1.0	1	6.5	nw.	56	w.	16	11	9	10	5.0	70
North Platte [2]	2,821	11	51	917.4	1,015.4	+.2	76	45	60.9	−1.2	93	16	30	13	156	45	66	1.97	+.6	1.11	6	5	.0	0	9.6	s.	38	sw.	30	13	9	8	4.7	68
MIDDLE SLOPE																																		
									66.1	−2.7							62	2.04	−.2														4.8	
Denver [4]	5,292	106	113	838.5	1,014.0	−.6	77	51	64.0	+1.1	91	16	44	13	76	37	48	.08	−.9	.06	3	3	.0	0	7.2	s.	27	w.	11	12	10	8	4.7	71
Pueblo [2]	4,690	5	36	857.8	1,013.6	−.3	82	50	65.7	+1.1	93	6	42	28	43	42	52	.38	−.4	.22	4	7	.0	0	5.9	nw.	41	n.	3	14	10	6	4.0	78
Concordia	1,392	50	58	967.8	1,017.3	+2.1	75	52	63.8	−4.5	90	20	37	29	96	48	62	1.77	−.8	.66	9	8	.0	0	7.9	----	28	n.	20	11	10	9	4.9	58
Dodge City [2]	2,509	5	58	931.3	1,015.6	+.7	78	54	65.6	−3.8	90	20	42	29	69	51	68	.55	−1.4	.26	6	6	.0	0	13.0	s.	40	sw.	30	14	3	13	5.1	67
Wichita [2]	1,358	52	64	968.8	1,016.6	+1.7	77	55	66.2	−4.4	88	12	41	29	59	52	69	3.62	+.5	1.53	11	9	T	T	13.5	s.	45	nw.	12	11	12	7	4.9	65
Oklahoma City [4]	1,214	10	47	970.2	1,016.4	+1.2	80	59	69.8	−3.0	95	7	43	29	38	57	68	3.35	+.3	1.22	7	6	.0	0	12.0	sse.	20	s.	17	14	10	6	4.5	60
Tulsa [2]	674	10	60	992.6	1,017.0	----	79	56	67.8	−5.1	95	12	40	29	58	56	70	4.53	+1.5	2.11	7	6	.0	0	8.1	s.	36	s.	12	11	8	11	5.2	60
SOUTHERN SLOPE																																		
									73.4	−.5							65	3.08	+.5														4.6	
Abilene [2]	1,755	4	59	954.6	1,014.7	+.5	86	63	74.7	+.9	98	12	47	24	6	59	64	1.39	−1.3	1.20	5	3	.0	0	10.8	s.	36	n.	13	14	6	10	4.9	70
Amarillo [2]	3,604	5	42	890.6	1,014.7	+.2	81	56	68.2	+.4	92	12	47	14	31	54	65	1.69	−.6	.90	11	4	.0	0	10.9	s.	42	s.	30	14	6	10	4.6	69
Del Rio	960	63	71	980.0	1,013.0	+.1	90	70	79.9	+.7	97	8	61	25	0	66	67	5.58	+2.6	3.20	6	7	.0	0	7.5	e.	32	e.	21	11	16	3	4.4	75
Roswell [2]	3,614	6	29	892.7	1,013.9	+.4	84	58	70.8	+.5	95	12	45	25	7	56	65	1.87	−.2	.73	6	8	.0	0	6.9	s.	33	ne.	1	13	7	10	4.7	62
Wichita Falls [2]	1,030	4	49	979.3	1,015.6	----	84	62	73.2	−4.9	100	12	50	29	17	59	64	4.89	+2.1	2.03	6	2	.0	0	11.1	se.	40	ne.	13	14	7	9	4.6	---

See footnotes at end of table.

CLIMATOLOGICAL DATA FOR WEATHER BUREAU STATIONS FOR SEPTEMBER 1949—Continued

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean Maximum	Averages: Mean Minimum	Averages: Mean	Averages: Departure from normal	Extremes: Highest	Extremes: Date	Extremes: Lowest	Extremes: Date	Total heating degree days	Mean temperature of the dew point	Mean relative humidity	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Days with 0.01 inch or more	Days with thunderstorms	Total snowfall (unmelted)	Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Speed of fastest mile: Miles per hour	Speed of fastest mile: Direction	Speed of fastest mile: Date	Character of day (sunrise to sunset) Number of days: Clear	Partly cloudy	Cloudy	Sky cover,[7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-8	4-7	8-10	0-10	%
SOUTHERN PLATEAU									78.1	+3.3							48	1.30	+.5														3.5	
El Paso [2]	3,916	35	85	886.6	1,012.0	+.8	86	63	74.7	+2.4	92	18	58	14	0	57	55	1.74	+.5	.57	9	9	.0	0	8.5	se.	45	sw.	2	14	9	7	4.6	70
Albuquerque [2]	5,314	5	45	850.0	1,011.9	.0	85	59	71.8	+3.9	94	3	52	14	6	48	49	.87	+.5	.44	5	7	.0	0	7.8	se.	42	se.	4	17	9	4	3.6	76
Flagstaff	6,907	34	48	794.1	1,016.5	+4.3	77	45	60.8	+3.6	86	1	33	30	132	41	57	3.47	+1.8	1.41	15	12	T	0	5.4	nnw.	--	------	--	13	8	9	4.7	---
Phoenix [4]	1,107	39	87	970.5	1,008.3	+.2	100	74	87.0	+4.3	108	1	66	30	0	60	45	.89	+.1	.57	5	9	.0	0	5.0	e.	33	ne.	22	19	7	4	2.8	85
Tuscon [2]	2,555	5	39	922.5	1,009.5	+1.0	94	70	82.2	+2.5	103	1	66	29	0	56	46	.81	-.4	.30	5	13	.0	0	7.6	se.	35	ne.	28	14	11	5	3.9	80
Yuma	142	9	54	1,002.0	1,007.1	-.7	105	79	92.2	------	112	22	73	27	0	60	39	T	------	T	0	2	.0	0	6.2	se.	25	sw.	6	25	5	0	1.5	98
MIDDLE PLATEAU									63.3	+3.6							41	.62	.0														2.7	
Ely [2]	6,262	8	41	810.4	------	------	79	39	59.0	+6.6	90	1	27	18	183	----	---	.36	-.3	.22	2	4	.0	0	11.1	------	54	s.	25	21	5	4	2.4	88
Reno [2]	4,527	20	52	861.8	1,013.3	+.1	82	40	60.9	+2.9	92	1	32	18	139	36	44	.18	-.1	.18	2	0	.0	0	5.5	s.	34	nw.	27	24	6	0	1.6	90
Winnemucca	4,339	5	56	867.3	------	------	83	41	62.0	+2.8	98	1	26	18	126	----	---	.21	-.2	.21	2	2	.0	0	7.4	------	--	------	--	21	8	1	2.3	88
Salt Lake City [2]	4,357	32	58	871.0	1,012.8	-.4	82	52	67.1	+4.4	91	6	36	18	58	38	39	.64	-.3	.47	7	7	T	0	9.8	sse.	36	se.	9	17	5	8	3.5	81
Grand Junction [2]	4,602	5	26	860.1	1,013.5	.0	83	52	67.6	+1.4	90	6	44	14	31	38	40	1.72	+.8	1.02	6	8	T	T	8.4	e.	45	nw.	1	14	13	3	3.5	76
NORTHERN PLATEAU									62.2	+2.6							49	.76	-.2														4.9	
Baker [4]	3,471	36	54	895.4	1,015.7	-.6	77	44	60.4	+4.4	93	1	28	12	164	37	---	.43	-.3	.22	4	2	.0	0	6.0	n.	24	sw.	8	13	14	3	4.2	79
Meacham	4,056	7	28	877.8	1,016.8	------	70	45	57.4	------	87	1	30	12	240	39	55	2.01	------	.96	8	2	T	0	5.7	wnw.	--	------	--	10	10	10	5.2	---
Boise [2]	2,739	5	49	918.7	1,013.3	-1.3	81	50	65.6	+4.4	93	1	34	12	90	37	38	.19	-.3	.14	3	2	.0	0	10.0	nw.	35	s.	9	10	17	3	4.0	86
Lewiston	1,436	4	23	963.4	1,014.5	------	79	50	64.6	------	97	1	37	12	94	43	51	1.31	------	.81	8	2	.0	0	6.0	e.	--	------	--	9	11	10	5.4	---
Pocatello [2]	4,478	5	31	863.2	1,014.6	+.4	78	44	61.1	+1.8	88	1	26	13	130	33	38	.07	-.7	.07	1	4	.0	0	7.3	s.	41	sw.	16	17	10	3	3.4	79
Ellensburg [2]	1,735	5	58	953.6	1,015.6	------	75	45	60.2	+2.2	91	1	32	20	172	43	58	.61	+.1	.36	2	1	.0	0	9.3	nw.	--	------	--	10	12	8	4.9	---
Spokane [2]	1,929	6	51	947.2	1,015.7	+.8	74	49	61.6	+2.4	93	1	35	12	155	40	49	1.06	+.2	.64	5	1	.0	0	8.2	ne.	37	sw.	16	7	12	11	5.8	65
Walla Walla	991	57	65	979.0	1,015.6	+.7	78	54	65.9	+2.1	95	1	41	12	64	44	---	.96	.0	.69	7	2	.0	0	4.0	s.	21	sw.	16	7	10	13	6.1	54
Yakima [2]	1,076	4	54	976.0	1,014.8	+.4	81	45	63.0	+1.2	100	1	32	17	127	44	55	.16	-.4	.13	3	0	.0	0	7.9	w.	--	------	--	12	10	8	4.7	---
NORTH PACIFIC COAST									61.5	+2.6							68	1.29	-.7														5.7	
Kelso [2]	750	38	76	------	------	------	75	47	61.2	------	89	3	33	12	147	51	75	1.44	------	.54	6	2	.0	0	5.9	n.	--	------	--	9	9	12	6.0	---
North Head	211	5	55	1,008.5	1,015.9	-.7	64	53	58.6	+2.1	90	26	48	20	201	----	---	1.77	-1.2	.62	10	2	.0	0	10.7	n.	56	s.	15	6	8	16	7.1	42
Seattle [4]	125	90	321	1,011.5	1,016.0	-.6	71	54	62.6	+2.3	86	6	46	20	112	51	73	1.30	-.5	.88	5	1	.0	0	7.4	nnw.	35	s.	16	8	8	14	6.1	55
Tacoma	194	172	201	1,009.1	1,015.9	-.7	69	52	60.4	+3.1	81	6	44	20	157	----	---	1.41	-.7	.83	6	0	T	0	7.0	n.	30	w.	16	7	12	11	5.9	54
Tatoosh Island	86	5	61	1,013.2	1,016.2	-.4	60	50	55.0	+2.0	80	4	45	25	299	51	87	2.37	-2.3	1.03	8	1	.0	0	11.5	s.	56	ne.	27	4	9	17	7.3	40
Burns	4,162	35	47	873.7	1,014.8	------	77	42	59.6	+4.0	89	22	25	17	187	33	41	.15	-.7	.09	3	2	.0	0	----	------	--	------	--	16	10	4	3.2	---
Eugene [2]	433	4	35	1,002.4	1,015.8	------	76	47	61.8	------	96	3	36	20	119	51	73	.73	------	.28	6	2	.0	0	7.1	n.	--	------	--	11	6	13	5.6	---
Medford [2]	1,329	29	58	967.5	1,014.8	+.2	82	49	65.6	+2.1	98	3	37	17	43	47	59	.54	-.1	.24	7	4	.0	0	6.5	nw.	--	------	--	15	7	8	3.9	---
Portland, Oreg. [4]	154	68	106	1,010.2	1,015.7	-.2	76	56	65.8	+4.1	91	27	47	20	60	52	73	1.23	-.8	.72	8	4	.0	0	4.6	nw.	20	w.	16	9	9	12	5.9	55
Roseburg	510	45	76	996.6	1,015.6	-.3	77	52	64.4	+1.5	96	3	42	21	62	52	63	1.96	+.7	1.33	6	2	.0	0	3.9	n.	24	sw.	8	11	7	12	5.6	47
MIDDLE PACIFIC COAST									66.7	+1.9							55	.13	-.5														3.5	
Eureka	60	72	88	1,013.9	------	------	62	51	56.6	+.7	70	28	46	21	254	----	---	.50	-.5	.27	7	1	.0	0	5.6	------	21	n.	16	6	9	15	7.0	52
Red Bluff [2]	353	5	26	998.6	1,011.1	----	91	60	75.6	+2.5	108	2	52	26	2	44	36	T	-.8	T	0	1	.0	0	6.9	se.	30	nw.	24	24	6	0	1.4	94
Sacramento [4]	66	92	115	1,009.1	1,011.6	-.3	87	58	72.2	+2.9	102	22	52	25	3	51	54	.03	-.4	.03	1	2	.0	0	10.9	sw.	21	sw.	8	25	5	0	1.1	95
San Francisco [4]	155	112	132	1,012.5	1,013.2	-.3	70	55	62.4	+1.5	89	22	51	24	106	53	76	T	-.4	T	0	0	.0	0	13.9	nw.	26	w.	16	12	11	7	4.5	62
SOUTH PACIFIC COAST									72.7	+3.0							66	T	-.2														2.1	
Fresno [2]	327	5	34	999.7	1,011.3	+.1	93	57	75.2	+3.2	105	23	48	26	1	50	46	.00	-.2	.00	0	0	.0	0	6.2	nw.	22	nw.	8	29	1	0	.5	99
Los Angeles [4]	338	236	263	1,007.8	1,011.6	-.6	84	62	72.9	+3.9	103	7	55	27	0	58	76	.01	-.2	.01	1	0	.0	0	5.2	w.	20	w.	6	23	7	0	2.1	84
San Diego [2]	87	20	55	1,008.5	1,011.5	-.4	77	63	70.0	+1.8	92	7	55	27	1	60	75	T	-.1	T	0	0	.0	0	6.0	wnw.	19	w.	27	17	9	4	3.8	67
ALASKA																																		
Anchorage [2]	132	6	44	1,002.4	1,007.5	------	58	42	49.8	+2.0	72	3	34	29	460	44	78	2.45	-.1	.55	16	1	.0	0	----	nw.	28	se.	5	0	4	26	9.2	---
Annette Island	113	5	53	1,010.5	1,014.6	------	61	49	55.2	+1.3	77	4	42	27	300	50	82	11.57	+2.1	3.42	16	0	.0	0	11.1	se.	--	------	--	9	1	20	7.0	---
Barrow	29	5	27	1,012.5	1,013.2	------	36	32	34.2	+3.4	52	10	28	30	930	32	96	.58	+.1	.34	4	0	1.1	0	12.5	ene.	26	se.	11	0	0	30	9.8	---
Bethel [2]	28	5	31	1,002.0	1,003.4	------	54	42	47.7	+2.5	66	1	34	27	519	44	96	2.80	-.2	.47	23	0	T	0	10.4	se.	32	sse.	3	0	0	30	9.5	---
Cordova [2]	45	5	32	1,007.5	1,009.1	------	57	41	48.8	+1.0	65	8	30	29	485	46	88	22.19	+6.0	7.60	25	0	.0	0	5.7	e.	36	se.	26	2	2	26	8.9	---
Fairbanks [2]	455	5	63	989.8	1,006.8	------	61	35	48.2	+4.6	74	3	23	30	499	42	76	.12	-1.2	.06	4	0	.0	0	----	nnw	27	sw.	27	2	7	21	8.0	---
Galena	139	4	66	1,000.7	1,005.4	------	55	41	47.6	+5.0	67	1	27	29	521	42	77	.64	-.9	.10	14	0	.0	0	9.1	n.	--	------	--	1	2	27	8.6	---
Juneau [2]	80	6	30	1,012.9	1,013.5	------	58	44	50.8	+2.2	72	5	35	10	426	46	84	7.80	+1.2	2.30	20	0	.0	0	----	n.	26	e.	25	3	3	24	8.5	---
Kotzebue [2]	20	5	31	1,006.1	1,006.8	------	52	41	46.6	+6.0	61	2	33	22	552	42	85	1.07	+.2	.28	13	0	.0	0	----	ese.	--	------	--	1	6	23	8.4	---
McGrath [2]	341	5	31	992.9	1,005.4	------	56	39	47.8	+3.9	76	3	25	28	517	42	80	1.29	-1.1	.26	16	0	.0	0	4.5	wnw	--	------	--	2	5	23	8.4	---
Nome [2]	22	10	75	1,004.1	1,004.7	------	52	41	46.4	+4.7	62	15	32	25	553	43	86	4.14	+1.4	.90	22	0	.0	0	12.4	se.	42	e.	29	0	3	27	9.2	---
Northway [2]	1,718	5	32	946.5	1,009.5	------	58	36	46.8	+4.4	70	1	25	23	548	38	74	.52	-.9	.15	9	0	T	0	5.2	se.	--	------	--	1	5	24	8.8	---
St. Paul Is.	28	4	39	1,000.3	1,001.7	------	48	40	44.4	-.8	52	5	31	22	616	43	91	5.00	+1.5	1.50	20	0	.0	0	----	------	--	------	--	0	3	27	9.3	---
Yakutat	31	5	50	1,011.2	1,012.5	------	56	44	49.8	+1.1	65	4	35	9	455	46	88	18.94	+3.1	2.61	22	0	.0	0	----	wsw.	--	------	--	2	1	27	8.9	---
HAWAII																																		
Honolulu [4]	38	86	98	1,016.3	1,016.6	------	82	73	77.3	-.9	84	2	70	4	0	----	---	.54	-.7	.28	11	0	.0	0	13.5	------	25	ne.	10	5	21	4	5.3	71

[1] Height of barometer cistern above mean sea level on Jan. 1, 1900, or when station was first established since Jan. 1, 1900. When station is moved to new location or airport, the pressure is reduced to the original elevation for homogeneity. These elevations do not represent the present station elevation in most cases.

[2] Data are from airport records. Pressures adjusted to original elevations according to note 1.

[3] Barometric hygrometric, wind, character of day, and average cloudiness data from airport records; remainder from city office records.

[4] Barometric and hygrometric data from airport records, remainder from city office records.

[5] Barometric, temperature, degree day, and hygrometric data from airport; remainder from city office records.

[6] As of Jan. 1, 1949, relative humidity values at temperatures below 32° F. are expressed with respect to water rather than with respect to ice, as used prior to that date. Therefore, these hygrometric values before and after Jan. 1, 1949, cannot accurately be combined without necessary conversion.

[7] As of Jan. 1, 1949, "Sky cover" has been substituted for "Average cloudiness" to include smoke, snow, etc., in addition to clouds that obscure the sky.

NOTE.—Unless otherwise indicated, data in table are city office records.

REPORTS RECEIVED TOO LATE TO BE INCLUDED IN TABLES

District and station	Elevation of instruments: Barometer above sea level [1]	Elevation of instruments: Thermometer above ground	Elevation of instruments: Anemometer above ground	Pressure: Station	Pressure: Sea level	Pressure: Departure from normal	Temperature of the air: Averages: Mean maximum	Temperature of the air: Averages: Mean minimum	Temperature of the air: Averages: Mean	Temperature of the air: Averages: Departure from normal	Temperature of the air: Extremes: Highest	Temperature of the air: Extremes: Date	Temperature of the air: Extremes: Lowest	Temperature of the air: Extremes: Date	Total heating degree days	Mean temperature of the dew point	Mean relative humidity [6]	Precipitation: Total	Precipitation: Departure from normal	Precipitation: Greatest in 24 hours	Precipitation: Days with 0.01 inch or more	Precipitation: Days with thunderstorms	Precipitation: Total snowfall (unmelted)	Precipitation: Snow, sleet, and ice on ground at end of month	Wind: Average hourly speed	Wind: Prevailing direction	Wind: Speed of fastest mile: Miles per hour	Wind: Speed of fastest mile: Direction	Wind: Speed of fastest mile: Date	Character of day (sunrise to sunset) number of days: Clear	Character of day: Partly cloudy	Character of day: Cloudy	Sky cover [7] tenths (sunrise to sunset)	Possible sunshine
	Ft.	Ft.	Ft.	Mb.	Mb.	Mb.	°F.	°F.	°F.	°F.	°F.		°F.			°F.	%	In.	In.	In.			In.	In.	m. p.h.					0-3	4-7	8-10	0-10	%
SOUTH ATLANTIC																																		
									72.1	−.5							77	4.60	+.4														6.2	
Asheville	2,253	77	92	944.8	1,018.8	+.2	75	54	64.4	−.6	86	18	40	30	100	55	81	1.53	−1.5	.60	8	3	0.0	0	6.1	nw.	22	se.	26	10	7	13	5.6	69
Charlotte [4]	779	63	86	987.8	1,018.5	+.5	79	61	70.0	−1.5	90	17	45	30	28	59	73	2.36	−.6	1.18	11	0	.0	0	6.1	nne.	18	s.	22	7	10	13	6.2	57
Greensboro [2]	886	6	56	987.5	1,019.0	+.7	77	57	67.4	−2.4	86	18	43	30	52	58	76	2.22	−1.0	.54	9	3	.0	0	9.0	ne.	26	nw.	8	8	8	14	5.9	59
Hatteras	11	5	47	1,016.6	1,017.3	.0	78	70	74.0	−.5	85	18	61	25	1	68	82	7.24	+2.6	2.66	13	5	.0	0	11.5	s.	36	s.	20	4	9	17	7.1	51
Raleigh [4]	376	5	71	1,002.7	1,018.3	+.3	80	61	70.3	−.8	90	16	47	25	26	61	80	2.86	−.8	1.27	9	2	.0	0	6.2	ne.	17	nw.	18	9	9	12	5.7	49
Wilmington	72	73	107	1,016.6	1,017.6	.0	80	66	73.2	+.1	88	17	54	24	2	66	---	3.25	−1.3	.85	14	6	.0	0	8.4	ne.	31	nw.	13	3	11	16	7.1	53
Charleston [4]	48	11	92	1,014.9	1,016.8	−.1	81	70	75.4	−1.2	91	19	55	30	0	67	82	8.16	+3.6	5.76	9	4	.0	0	9.6	ne.	28	ne.	10	4	12	14	6.8	61
Columbia, S. C. [4]	347	70	91	1,009.5	1,017.6	.0	82	64	72.6	−1.9	93	17	46	30	13	63	75	2.63	−.8	1.32	8	3	.0	0	7.4	nne.	22	ne.	10	8	10	12	5.7	63
Greenville, S. C. [2]	1,040	18	36	981.0	1,018.2	+.6	78	60	68.8	−1.8	90	17	45	30	41	59	75	5.32	+1.6	2.55	8	4	.0	0	7.5	ne.	26	ne.	2	7	10	13	5.9	65
Augusta [2]	182	62	77	1,002.7	1,017.5	+.6	84	65	74.4	−.9	94	19	49	30	4	61	68	1.52	−1.9	.32	10	4	.0	0	8.2	ne.	---	------	--	7	11	12	5.7	---
Savannah [2]	65	19	51	1,014.6	1,017.0	+.4	84	68	76.0	+1.7	93	19	54	30	1	68	79	6.67	+1.3	1.97	13	6	.0	0	9.2	n.	33	e.	16	6	15	9	6.9	44
Jacksonville [4]	43	86	110	1,015.2	1,016.5	+.2	86	72	79.1	+.8	94	7	60	30	0	72	80	11.42	+4.1	4.42	17	6	.0	0	7.7	ne.	23	e.	10	1	16	13	---	53
FLORIDA PENINSULA																																		
									81.7	+.7							79	9.22	+2.0														6.2	
Key West [4]	21	10	64	1013.5	1014.3	+.4	88	78	82.9	+.7	90	8	72	17	0	75	76	6.46	−.2	1.70	15	7	.0	0	9.2	e	37	w	29	5	18	7	5.6	69
Miami [4]	25	242	249	1013.5	1014.6	−.3	86	76	81.2	+.3	90	9	69	30	0	73	78	10.73	+2.1	4.48	17	11	.0	0	11.9	e	43	se	26	5	17	8	5.8	78
Tampa [2]	35	5	36	1013.9	1015.3	+.4	89	73	81.0	+1.1	94	9	69	13	0	73	82	10.47	+4.0	3.71	17	14	.0	0	5.7	e	29	w	22	2	13	15	7.2	48
EAST GULF																																		
									74.0	−.9							74	3.95	−.3														5.8	
Atlanta [2]	1,173	33	72	976.6	1,017.7	+.4	80	62	70.8	−2.0	91	18	44	30	23	60	72	2.91	−.1	1.96	9	3	.0	0	8.2	ene	32	sw	6	11	11	8	5.1	60
Macon [4]	370	79	87	1,004.4	1,017.2	+.3	83	64	73.5	−1.3	93	17	45	30	9	62	70	1.05	−2.1	.44	8	3	.0	0	6.0	ene	32	n	18	6	12	12	6.2	68
Apalachicola	35	11	51	1,014.6	1,015.9	+.3	84	72	78.3	−.2	92	8	57	30	0	---	---	4.70	−3.4	1.61	11	3	.0	0	8.3	ne	26	se	3	10	5	15	6.4	64
Pensacola [4]	56	54	79	1,013.9	1,016.0	+.1	84	72	78.0	.0	93	8	56	30	0	69	---	8.16	+2.8	2.71	10	8	.0	0	7.6	ne	31	se	4	7	9	14	6.4	66
Anniston	618	6	32	995.6	1,017.7	+.8	83	59	70.7	------	90	15	39	30	21	61	75	1.20	−2.5	.50	7	2	.0	0	5.9	ene	---	------	--	13	9	8	5.7	---
Birmingham [2]	700	5	63	995.3	1,017.6	+.3	82	61	71.5	−1.7	90	17	39	30	25	60	72	4.31	+.9	2.10	7	3	.0	0	7.5	ene	30	ne	24	11	8	11	5.4	55
Mobile [4]	57	86	161	1,008.1	1,016.1	−.5	85	70	77.6	−.5	92	8	51	30	2	68	79	5.45	+.4	2.94	9	2	.0	0	8.7	n	47	se	4	8	11	11	6.0	56
Montgomery [4]	218	92	105	1,009.5	1,016.8	+.2	84	66	75.1	−1.2	92	17	48	30	5	63	72	.72	−2.3	.43	5	1	.0	0	6.8	n	28	n	28	10	11	9	5.4	64
Meridian [4]	375	67	92	1,003.4	1,016.9	+.4	85	63	74.1	−.4	92	17	43	29	12	64	77	5.87	+2.9	3.26	8	6	.0	0	5.7	ne	--	------	--	11	9	10	5.5	---
Vicksburg [4]	247	82	102	1,007.5	1,016.3	+.3	84	66	74.6	−1.7	91	18	49	30	10	64	---	.76	−2.1	.31	8	0	.0	0	7.8	e	27	n	28	5	18	7	5.5	69
New Orleans C. O.	53	76	84	------	------	-----	---	---	----	------	---	---	---	---	---	---	---	-----	------	----	---	---	----	---	----	------	--	------	--	---	---	---	----	---
New Orleans A. P. [3]	30	6	52	------	------	-----	---	---	----	------	---	---	---	---	---	---	---	-----	------	----	---	---	----	---	----	------	--	------	--	---	---	---	----	---
OHIO VALLEY AND TENNESSEE																																		
									63.8	−4.0							73	2.04	−1.0														5.3	
Chattanooga [2]	762	6	66	990.2	1,018.2	+.6	80	57	68.7	+.5	90	17	44	30	36	58	74	2.33	−.8	1.29	8	2	.0	0	3.8	n	32	n	18	11	9	10	5.2	55
Knoxville [2]	995	27	71	983.7	1,018.6	+.6	78	57	67.5	−1.9	89	17	41	30	50	58	75	2.38	−.3	.90	10	2	.0	0	6.0	ne	35	n	29	10	8	12	5.4	69
Memphis [5]	399	5	49	1,007.1	1,017.5	+.9	79	61	69.9	−3.7	87	3	45	30	29	58	69	1.42	−1.4	.45	7	2	.0	0	6.7	ne	23	sw	17	11	10	9	4.8	78
Nashville [2]	546	5	72	998.6	1,018.3	+.3	81	56	68.2	−3.6	91	17	36	30	43	56	70	.76	−2.7	.33	6	1	.0	0	6.0	n	29	nw	18	13	11	6	4.7	69
WEST INDIES																																		
San Juan, P. R.	82	9	54	1,011.2	1,013.9	-----	85	75	80.2	−.3	93	8	70	27	0	---	---	5.97	+.1	1.78	21	10	.0	0	9.7	e	41	e	21	1	17	12	6.9	36

[1] Height of barometer cistern above mean sea level on Jan. 1, 1900, or when station was first established since Jan. 1, 1900. When station is moved to new location or airport, the pressure is reduced to the original elevation for homogeneity. These elevations do not represent the present station elevation in most cases.

[2] Data are from airport records. Pressures adjusted to original elevations according to note 1.

[3] Barometric, hygrometric, wind, character of day, and average cloudiness data from airport records; remainder from city office records. Reference on page 267.

[4] Barometric and hygrometric data from airport records, remainder from city office records.

[5] Barometric, temperature, degree day, and hygrometric data from airport: remainder from city office records.

[6] As of Jan. 1, 1949, relative humidity values at temperatures below 32° F. are expressed with respect to water rather than with respect to ice, as used prior to that date. Therefore, these hygrometric values before and after Jan. 1, 1949, cannot accurately be combined without necessary conversion.

[7] As of Jan. 1, 1949, "Sky cover" has been substituted for "Average cloudiness" to include smoke, snow, etc., in addition to clouds that obscure the sky.

NOTE.—Unless otherwise indicated, data in table are city office records.