

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
 IN COOPERATION WITH Circleville Chamber of Commerce
 CLIMATOGRAPHY OF THE UNITED STATES NO. 20 - 33

LATITUDE 39° 36'
 LONGITUDE 82° 57'
 ELEV. (GROUND) 690 Feet

CLIMATOLOGICAL SUMMARY

STATION Circleville, Ohio

MEANS AND EXTREMES FOR PERIOD Indicated by number of years shown on top line (a)

Month	Temperature (°F)							** Mean degree days	Precipitation Totals (Inches)						Mean number of days					Month			
	Means			Extremes					Mean	Greatest daily	Year	Snow, Sleet			Precip. 0.1 inch or more	Temperatures							
	Daily maximum	Daily minimum	Monthly	Record highest	Year	Record lowest	Year					Mean	Maximum monthly	Year		Greatest daily	Year	90° and above	Max.		Min.		
																			32° and below		32° and below	0° and below	0° and below
(a)	30	30	30	61		61		30	30	77		71	71	71	71	77	77	77	77	77			
Jan.	41.3	24.4	31.9	77	1950	-23	1912	1026	3.48	2.92	1952	6.6	25.4	1918	11.9	1910	14	0	10	25	1	Jan.	
Feb.	43.6	24.7	34.2	77	1930	-21	1899	870	2.66	2.54	1891	5.2	29.2	1910	9.0	1914	12	0	8	22	1	Feb.	
Mar.	53.2	31.4	42.3	90	1929	-1	1943	704	3.74	3.26	1913	3.1	25.2	1906	9.6	1908	14	0	3	17	*	Mar.	
Apr.	64.7	40.6	52.7	94	1930	-11	1923	369	3.88	3.33	1895	0.8	16.9	1886	6.1	1886	13	*	*	5	0	Apr.	
May	76.1	50.9	63.5	99	1914	27	1947+	124	3.52	2.50	1935	T	0.3	1923	0.3	1923	12	1	0	*	0	May	
June	84.4	59.7	72.1	102	1933	36	1913+	24	4.28	3.54	1902	T	T	1955	T	1955	12	5	0	0	0	June	
July	88.7	64.0	76.4	109	1930	43	1923	0	4.61	3.87	1947	T	T	1955	T	1955	11	8	0	0	0	July	
Aug.	86.8	61.7	74.3	107	1930	39	1915	0	3.45	3.71	1915	0	0	0	0	0	10	5	0	0	0	Aug.	
Sept.	81.2	54.9	68.1	103	1953+	26	1928	60	2.81	3.91	1938	0	0	0	0	0	9	2	0	*	0	Sept.	
Oct.	70.0	43.6	56.8	97	1917	15	1925	276	2.07	3.18	1910	0.1	3.0	1925	1.5	1925	9	*	0	2	0	Oct.	
Nov.	53.5	33.6	43.6	90	1946	0	1929	642	2.79	2.81	1881	1.7	14.3	1950	8.2	1950	11	0	2	15	*	Nov.	
Dec.	42.3	25.2	33.8	72	1951	-15	1917	967	2.54	2.05	1921	4.2	14.5	1890	7.0	1890	13	0	8	23	1	Dec.	
Year	65.5	42.9	54.2	109	1930	-23	1912	5062	39.83	3.91	1938	21.7	29.2	1910	11.9	1910	140	21	31	107	3	Year	

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

T Trace, an amount too small to measure.

* Less than one half.

** Base 65°F

NARRATIVE CLIMATOLOGICAL SUMMARY

The City of Circleville is located about 60 miles north of the Ohio River near the southeastern limit of what amounts to a large interior plains area--the broad Scioto Valley. This valley is 40 to 50 miles in width throughout most of its extent, but at a point 20 miles south of Circleville it is constricted to a mile or two width as it traverses the southern hills. The city is built within 3 or 4 miles of the eastern Ohio hills, while to the west terrain rises so gradually that it gives the appearance of being about level for a distance of 50 miles or more.

The climate of this area is noticeably influenced by its valley location being about 2 degrees warmer than the state average. There is little change in either temperature or rainfall in a north-south direction; and for this reason many of the details quoted in the table above have been extracted from the comprehensive summary for Columbus, 25 miles to the north. The annual precipitation average of 39.83 inches is noticeably less than in the hills west, south and east of the city, where orographic effects boost the annual figure to between 40 and 45 inches. The lower values in the Scioto Valley can be attributed to the slight downward component of rain-bearing winds as they enter the valley from the west, south or east. This difference is most marked in fall and winter; while spring and summer thunderstorms generally produce as much rainfall in the valley as elsewhere.

The growing season in Circleville is 166 days, extending from April 28, the average last date of a freezing temperature, to October 12, the average first such date in fall. Similar dates for 20 degree temperatures are March 12 and November 19, respectively.

The following miscellaneous data, not reproduced above, is taken from Columbus records, and are equally applicable to Circleville. Relative humidity fluctuates widely from day to day, depending on the temperature and kind of weather. It is generally highest in winter and lowest in summer; also highest in early morning and lowest in mid-afternoon. Noonday humidities average near 50 percent from July to September, contrasted with about 70 percent in the winter months. Mean night-time humidities, however, run about the same summer and winter, ranging from 77 to 86 percent. There is a similar seasonal variation in the percentage of possible sunshine. July has the highest percentage (71%) when there are normally only 7 completely cloudy days. December and January, on the other hand, have 35% of possible sunshine, while 18 days per month are cloudy. The prevailing wind is from the south at a yearly average speed of 8.5 mph. March is the windiest month with an average of 10.3 mph when the most frequent direction is west northwest. Snowfall figures quoted above are definitely lower than the state average since many winter storms produce rain in this area while snow is falling in northern counties.

L. T. Pierce
 State Climatologist
 Weather Bureau Office
 Columbus, Ohio

(See Note on other side)

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	28.7	34.2	36.0	47.5	64.2	68.0	75.2	76.5	70.2	56.0	48.0	32.8	52.7
1927	31.2	40.0	45.4	54.1	64.2	67.0	75.2	76.5	70.2	59.1	49.0	34.0	54.8
1928	32.6	34.8	41.6	49.6	65.0	67.5	76.7	76.0	68.2	50.4	45.4	37.5	54.1
1929	35.8	24.0	50.0	56.6	65.0	69.8	75.0	70.0	68.2	54.4	41.7	34.8	53.4
1930	33.8	42.6	43.4	56.5	66.6	73.3	78.3	75.1	70.5	54.0	44.4	33.0	55.9
1931	34.8	38.3	38.4	52.6	60.0	72.2	79.1	72.5	70.8	56.8	51.2	40.5	55.6
1932	40.8	40.1	35.1	50.2	62.6	70.6	74.2	74.4	68.4	56.0	41.9	32.4	53.9
1933	41.0	35.5	42.2	54.8	67.7	77.2	74.7	74.7	74.2	54.2	41.5	36.4	56.2
1934	35.8	24.0	52.4	52.4	66.8	77.0	80.2	74.5	71.1	57.8	49.0	34.6	55.2
1935	35.6	35.5	51.1	51.8	60.2	70.0	79.2	75.7	67.2	56.2	44.1	25.4	54.2
1936	23.4	27.0	47.0	49.6	67.4	74.2	82.8	78.8	71.3	56.4	39.2	37.0	54.5
1937	37.8	34.0	36.6	51.5	62.5	71.0	75.1	76.7	64.2	54.8	40.2	31.0	52.9
1938	32.1	38.1	42.0	54.4	63.2	70.5	76.5	76.8	67.4	57.1	45.4	34.8	55.2
1939	35.5	33.9	42.4	48.4	66.2	74.4	74.6	74.9	72.4	42.1	35.8	34.8	54.8
1940	17.8	31.9	37.6	47.8	59.2	72.8	76.4	75.1	64.8	56.9	41.8	38.8	51.7
1941	31.6	28.6	34.8	58.2	65.6	72.8	77.0	73.6	70.4	60.8	45.6	39.2	54.9
1942	30.4	30.2	45.6	56.2	64.7	73.6	76.8	73.4	67.0	57.5	46.0	29.6	54.2
1943	33.0	33.8	36.2	47.2	63.2	72.0	73.0	72.0	63.4	52.2	38.5	29.3	52.0
1944	33.6	34.8	37.8	50.8	66.5	74.2	78.2	75.2	66.7	53.8	42.7	27.0	53.2
1945	24.0	32.2	51.8	54.4	69.4	73.0	72.4	72.4	69.8	53.3	44.2	26.0	52.4
1946	32.3	35.0	51.9	51.8	60.2	70.0	73.3	67.1	65.6	58.2	46.8	36.8	54.1
1947	37.8	24.0	34.6	53.4	59.7	70.2	78.4	70.5	67.0	63.6	41.8	33.2	52.9
1948	21.4	31.8	44.4	55.5	63.9	71.8	76.3	73.1	68.0	51.8	47.7	35.5	53.2
1949	37.7	36.3	42.0	49.8	63.5	74.2	79.1	74.5	62.1	60.3	48.1	36.6	54.9
1950	42.7	33.6	37.5	46.6	64.1	69.7	72.4	70.8	66.0	59.9	38.1	26.7	52.3
1951	34.7	34.2	43.6	52.0	64.6	73.0	76.2	73.9	66.4	58.6	38.5	34.0	54.1
1952	38.5	36.9	41.9	53.7	63.4	73.9	78.1	73.6	66.8	51.1	44.8	36.1	56.2
1953	37.2	37.6	44.6	50.5	67.0	78.1	78.4	78.4	68.5	58.0	43.7	33.8	55.7
1954	35.8	41.1	40.1	58.9	67.9	73.4	75.2	72.9	69.7	58.2	43.9	35.3	54.8
1955	30.5	34.6	43.9	58.1	65.5	67.6	80.1	78.3	70.1	56.7	41.8	32.0	54.9

STATION HISTORY

Official weather records have been kept in Circleville since November 1894, although only those for the standard period 1926 through 1955 have been used in this summary. The first observer was Samuel W. Courtwright, who served until September 1911. In October of that year the work was taken over by Dr. H. R. Clarke, who kept it for 28 years until April 1939. During this entire period the instruments were located at the observer's home in town. During the 1940s there were several observers in succession, including Ervin P. Leist, Clarence Ray, Arthur W. Phillips, Charles T. Carter and John W. Smith. Then in October 1950 the equipment was moved to the Emeraldale Canning Company plant where James T. Smith assumed responsibility for the observations through 1956.

Much credit must be given to these faithful observers whose efforts and sense of public responsibility have made possible the preparation of this climatological summary for Circleville.

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	3.41	4.87	2.32	2.75	2.47	4.42	5.33	10.52	5.76	6.57	2.23	2.95	53.60
1927	5.52	2.86	3.73	3.40	4.34	3.98	6.11	2.47	1.21	3.93	5.47	4.22	44.12
1928	1.61	2.69	2.60	4.15	2.41	8.21	7.07	3.10	3.86	2.01	1.77	1.77	38.88
1929	3.78	2.39	2.41	4.31	6.02	4.16	6.00	4.82	3.28	3.19	4.65	3.76	49.28
1930	3.87	2.67	3.32	1.41	.92	2.70	1.07	2.33	2.87	.63	1.43	1.88	24.50
1931	.80	2.29	1.74	5.66	3.33	3.16	7.75	6.34	4.31	1.56	2.67	3.32	43.10
1932	5.26	1.84	2.72	3.21	1.04	4.75	6.19	1.19	2.05	2.43	4.29	4.29	38.75
1933	2.21	1.78	7.85	4.27	8.68	4.60	3.07	4.19	3.77	1.41	2.43	3.51	47.87
1934	1.90	1.46	2.74	1.65	.86	4.97	6.35	5.91	3.79	.32	1.43	1.21	30.89
1935	3.22	2.23	3.92	3.16	7.45	3.35	11.50	8.65	4.80	2.24	3.64	2.80	56.86
1936	2.29	2.95	3.63	3.80	1.89	1.23	1.40	2.59	2.54	5.46	3.51	1.65	32.64
1937	13.28	1.86	1.20	2.46	3.57	4.42	3.27	1.87	2.84	2.84	1.46	4.22	44.18
1938	2.04	2.61	6.36	2.73	3.83	1.46	4.04	2.27	3.67	3.46	3.16	3.06	36.20
1939	2.74	4.35	2.41	5.23	.33	5.61	3.88	.43	1.89	3.17	1.06	1.80	31.80
1940	1.44	2.98	2.65	8.85	5.05	4.03	1.36	4.69	.99	1.38	3.64	2.72	39.77
1941	2.05	.64	.61	2.36	2.58	8.60	2.02	3.60	1.51	3.84	2.42	1.77	32.00
1942	1.21	2.39	2.68	2.65	2.71	4.17	5.25	2.25	2.90	1.21	3.96	4.03	35.41
1943	1.18	1.73	5.22	2.84	5.90	4.60	7.77	3.35	.51	.98	.80	1.38	36.26
1944	.59	3.08	4.51	4.55	2.38	5.01	1.81	8.18	2.34	.71	2.39	2.90	39.45
1945	2.52	3.94	11.14	4.44	5.56	5.12	2.16	1.02	4.82	2.06	4.01	1.52	48.15
1946	.79	3.46	4.79	2.26	6.37	6.74	2.36	1.76	1.30	2.50	4.14	2.03	38.50
1947	5.34	.51	1.07	7.54	4.84	3.61	10.24	6.31	5.04	1.81	1.91	1.81	48.85
1948	2.97	3.38	5.21	3.87	3.03	2.33	4.13	2.37	3.10	1.45	4.23	2.94	40.95
1949	6.62	2.87	3.70	2.84	.74	6.02	4.66	3.50	2.42	1.51	1.41	2.37	38.06
1950	10.54	3.93	2.10	4.10	2.45	2.92	4.02	1.12	2.51	1.58	4.92	3.04	43.03
1951	5.44	4.37	4.47	2.85	3.18	4.58	5.32	.97	4.24	1.29	3.81	5.17	45.89
1952	3.65	2.42	4.59	4.50	3.82	2.17	3.16	1.67	1.78	.93	1.15	2.41	32.25
1953	4.69	1.92	3.05	4.64	3.24	3.99	2.69	2.08	3.81	.83	1.22	1.88	34.45
1954	2.30	1.09	2.93	3.90	3.08	2.79	2.41	5.66	1.53	4.83	1.01	2.89	33.92
1955	1.03	4.52	5.29	2.45	1.90	4.59	3.75	.77	3.10	2.88	3.12	.46	35.64

NOTE: Mean and extreme temperature, degree day and mean precipitation data have been compiled from records for Circleville. The remainder, however, has been taken from the more comprehensive 1956 issue of "National Climatological Data" for Columbus, the climate of which is almost identical to that of Circleville. Those who require additional details concerning the climate of this area may obtain it by contacting the Weather Bureau State Climatologist in Columbus, Ohio. The number of years record for each item is as shown on line (a) of table (other side), 1956 being the last year considered.