U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU
IN COOPERATION WITH Chillicothe Chamber Of Commerce
CLIMATOGRAPHY OF THE UNITED STATES NO. 20 —

CLIMATOLOGICAL SUMMARY

TUDE 39° 20' N
ITUDE 82° 58' W
ELEV. (GROUND) 638 Ft.

STATION Chillicothe, Ohio
Station No. 33-1523-5

MEANS AND EXTREMES FOR PERIOD 1926-1955

Month	Temperature (°F) Means: Daily maximum	Daily minimum	Monthly	Extremes: Record highest	Year	Record lowest	Year	** Mean degree days	Precipitation Totals (Inches): Mean	Greatest daily	Year	Snow, Sleet: Mean	Maximum monthly	Year	Greatest daily	Year	Mean number of days: Precip. .10 inch or more	Temperatures: Max. 90° and above	Max. 32° and below	Min. 32° and below	Min. 0° and below	Month
(a)	30	30	30	30		30		30	30	30		30	30		30		30	30	30	30	30	
Jan.	42.5	24.0	33.3	78	1950	-16	1936	984	3.51	2.26	1957	4.2	14.0	1926	6.5	1937+	7	0	7	24	2	Jan.
Feb.	44.9	24.3	34.6	79	1932	-18	1951	860	2.75	1.57	1944	4.5	14.9	1934	10.5	1940	6	0	4	22	1	Feb.
Mar.	53.7	31.5	42.6	89	1929	- 1	1943	702	3.80	2.34	1948	2.9	12.1	1937	5.5	1937	8	0	2	18	*	Mar.
Apr.	65.6	41.0	53.3	92	1942+	20	1950	361	3.73	2.98	1948	0.3	2.5	1953	2.5	1953	7	*	0	6	0	Apr.
May	76.5	50.7	63.6	96	1941	28	1947	126	3.53	2.63	1933	0	0	....	0	....	8	2	0	*	0	May
June	84.7	59.8	72.2	102	1934	38	1929	22	4.17	3.21	1943	0	0	....	0	....	8	9	0	0	0	June
July	88.7	63.6	76.2	109	1934	46	1947+	1	4.04	2.62	1933	0	0	....	0	....	7	14	0	0	0	July
Aug.	86.6	61.6	74.1	105	1930	43	1946	6	3.74	4.30	1947	0	0	....	0	....	7	10	0	0	0	Aug.
Sept	81.4	54.5	68.0	102	1932	29	1942	57	2.91	3.92	1937	0	0	....	0	....	5	6	0	*	0	Sept
Oct.	70.2	42.8	56.5	93	1928	18	1952+	285	1.93	2.17	1945	0	0	....	0	....	5	1	0	4	0	Oct.
Nov.	54.5	33.1	43.8	83	1950+	1	1929	637	2.72	1.62	1927	1.5	17.5	1950	12.2	1950	6	0	1	16	0	Nov.
Dec.	43.6	25.3	34.4	75	1951	- 7	1942	946	2.69	2.33	1948	3.4	14.7	1935	7.5	1939	6	0	5	24	*	Dec.
Year	66.1	42.7	54.4	109	1934	-18	1951	4987	39.52	4.30	1947	16.8	17.5	1950	12.2	1950	80	42	19	114	3	Year

(a) Average length of record, years.

T Trace, an amount too small to measure.

** Base 65°F

+ Also on earlier dates, months, or years.

* Less than one half.

NARRATIVE CLIMATOLOGICAL SUMMARY

As is characteristic of most interior regions in temperate latitudes, the climate of Chillicothe is definitely continental in character in the sense that temperatures range widely from winter to summer, and precipitation is neither excessive nor seriously deficient.

The city is located in the Scioto River Valley about 40 airline miles upstream from its junction with the Ohio River. The river, which flows southward through a broad valley upstream from Chillicothe, is constricted to a width of about 2 miles from here to its mouth. While the valley elevation at this point is about 620 feet, hill-tops on either side range upward to between 1100 and 1200 feet. These hills represent a westward extension of the Appalachian foothills and cover all of eastern Ohio and large areas in the south.

The climate of Chillicothe is on the average nearly 2½° warmer than the average for Ohio, and is influenced quite noticeably by its location in this N-S valley. In fact it is about 2° warmer than at most hilly points on the same latitude. Precipitation of 39.52" however, is slightly less than that measured over southern Ohio generally but nearly 2 inches greater than the state average. These differences are due in large part to the fact that many storms which pass south of the Ohio River, drop their heaviest rains on the windward slopes of hills to the west of Chillicothe. Southerly winds in this area have a slight downslope component which reduces the yield of rainfall. This topographical effect is most noticeable in fall and winter months, summer rainfall being practically the same as at other points in the region.

The growing season averages 173 days, extending from April 25, the average late date of a freezing temperature in spring to October 15, when freezing weather may be expected in the fall. Similar dates for the average occurrence of 20° temperatures are March 12 and November 20 respectively.

Relative humidity fluctuates widely from day to day depending upon the temperature and kind of weather, but is generally lowest in late summer and highest in winter. Noonday humidities average near 50% in September compared with 72% in January. Also they vary more widely between night and day in summer, ranging some 35% between the daytime low (near 4PM) and nighttime high (around sunrise) in summer as compared with 15% range in winter. Similarly the percentage of possible sunshine varies from season to season. July has the highest sunshine percentage (71%) and December the lowest with only 35%. The prevailing wind direction is from the south, averaging 9 MPH for the year as a whole. Winds are strongest in March (10 MPH) when west northwest is the most frequent direction, and weakest in summer when the average speed is 7 MPH. Snowfall figures quoted in the table above are definitely lower than averages for the state since many winter storms produce rain in southern counties while snow falls in northern Ohio.

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

Average Temperature (°F)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	27.8	35.2	36.0	47.9	64.4	68.5	75.4	76.6	70.4	56.6	41.6	33.2	52.8
1927	30.8	40.6	45.8	53.1	64.2	67.4	75.2	68.4	70.6	59.3	48.8	32.7	54.7
1928	31.0	32.9	41.4	49.7	62.0	67.8	76.2	76.6	64.2	59.0	44.0	35.8	53.4
1929	28.8	27.4	47.2	56.6	60.9	68.6	74.4	69.2	67.2	53.2	40.4	34.4	52.4
1930	30.2	41.0	40.6	55.4	65.2	71.8	77.9	73.6	70.0	53.0	44.2	33.6	54.1
1931	35.0	37.4	38.5	52.7	61.0	73.0	80.2	73.8	72.8	57.7	52.0	42.0	56.3
1932	43.8	41.9	36.2	51.8	64.0	73.0	75.2	74.4	68.4	55.7	41.4	33.9	55.0
1933	39.1	33.3	41.4	53.6	66.4	76.6	76.6	74.1	71.8	53.6	40.8	37.0	55.4
1934	35.6	22.0	37.0	53.0	66.8	77.8	80.3	74.0	69.0	55.9	46.5	32.8	54.2
1935	32.2	33.2	48.3	50.8	58.8	70.0	78.4	75.3	66.0	55.4	44.4	27.8	53.4
1936	24.6	25.8	45.5	49.4	66.4	73.0	79.6	78.0	71.4	56.4	39.8	36.3	53.8
1937	38.9	33.6	38.2	53.0	63.2	72.4	75.0	77.2	65.0	52.6	41.1	31.7	53.5
1938	32.0	38.6	48.0	55.6	63.4	70.9	75.9	76.8	68.4	57.0	44.7	34.9	55.5
1939	35.6	35.2	42.8	49.8	66.5	73.8	74.4	75.3	72.6	57.6	41.3	36.0	55.0
1940	17.6	30.6	39.0	49.1	60.1	72.8	76.1	75.5	64.0	55.9	42.1	38.8	51.8
1941	31.9	29.4	34.2	58.2	64.8	72.5	76.2	72.8	69.9	59.5	44.6	38.0	54.3
1942	29.6	29.0	44.2	56.0	62.8	72.8	76.0	72.6	65.6	56.4	44.4	30.8	53.3
1943	32.8	36.4	41.1	49.9	64.6	77.1	76.2	74.8	65.5	55.0	42.8	32.9	54.0
1944	34.6	38.7	41.5	53.3	70.2	76.0	76.3	75.4	66.3	54.8	44.0	28.6	55.0
1945	25.8	34.0	53.6	56.6	60.4	70.7	74.6	73.3	70.8	55.6	47.0	29.0	54.3
1946	35.6	37.5	54.0	55.0	62.2	71.7	74.5	68.6	66.6	58.7	49.1	39.0	56.0
1947	38.8	25.8	35.4	55.7	60.8	70.2	70.2	78.2	67.7	62.8	42.4	34.5	53.5
1948	23.4	34.3	46.4	57.6	61.1	71.4	75.6	72.9	67.6	51.4	47.7	37.2	53.9
1949	39.1	39.5	43.6	50.4	64.3	74.0	78.4	74.0	61.9	60.4	45.0	38.6	55.7
1950	43.1	37.2	40.5	49.6	65.2	70.5	73.1	71.2	65.9	60.2	39.7	29.0	53.8
1951	35.2	34.5	43.9	52.1	64.8	72.3	75.8	73.4	65.7	58.3	38.9	35.1	54.2
1952	38.8	38.1	42.6	54.1	63.3	76.3	77.6	73.6	66.8	51.1	45.4	37.1	55.4
1953	38.4	38.5	45.4	50.9	67.2	74.6	76.2	73.5	67.2	58.1	44.4	36.5	55.9
1954	35.1	42.0	41.0	59.7	58.4	72.9	75.5	73.0	70.1	58.3	43.4	34.4	55.3
1955	31.8	35.3	44.7	58.4	64.8	67.0	77.6	76.7	69.2	55.6	42.1	32.1	54.6

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	2.48	3.65	2.20	3.21	2.46	5.13	5.20	10.14	4.42	5.33	2.50	2.91	49.63
1927	4.19	3.21	4.45	5.61	2.99	5.99	4.66	3.52	0.77	1.02	5.77	4.10	46.28
1928	2.12	2.82	2.82	3.52	1.36	9.90	4.48	4.48	0.69	1.75	2.57	1.95	38.46
1929	4.43	2.31	3.38	4.99	5.09	3.59	2.93	2.45	4.76	3.76	4.86	2.58	45.13
1930	3.31	2.83	2.75	2.06	0.72	0.29	1.89	2.34	3.16	0.70	1.94	1.52	23.51
1931	0.58	2.68	3.29	6.15	2.63	3.13	6.83	6.30	4.72	1.31	2.46	4.18	44.26
1932	4.96	1.60	4.00	3.77	0.52	5.43	4.46	1.44	2.48	2.25	3.17	3.38	37.46
1933	2.59	1.68	6.62	4.65	10.44	1.81	4.48	6.61	3.89	1.08	1.59	4.00	49.44
1934	1.93	1.26	3.24	1.90	0.77	3.28	5.45	3.72	2.80	0.39	1.62	1.30	27.66
1935	3.75	1.88	4.41	3.16	7.86	5.94	7.83	5.91	5.29	2.73	2.77	2.45	53.98
1936	2.03	2.51	4.07	3.95	1.22	1.85	2.38	2.90	1.83	3.54	3.81	3.03	33.12
1937	13.08	2.27	1.48	2.84	3.47	3.57	4.73	1.61	5.31	2.94	0.86	3.58	45.74
1938	2.51	2.44	5.78	2.32	6.28	2.70	3.90	3.74	3.84	0.53	2.78	1.38	38.20
1939	2.98	5.10	5.42	5.69	1.45	3.48	4.53	0.89	1.71	1.88	1.65	1.60	36.38
1940	1.34	4.49	3.42	5.74	4.80	3.39	0.79	4.61	1.15	1.16	4.10	3.28	38.27
1941	2.33	0.32	0.83	1.58	2.12	10.49	4.99	3.49	1.10	2.68	2.50	1.22	33.65
1942	1.35	2.46	2.21	2.50	3.32	3.87	3.87	3.54	3.01	1.08	3.82	4.70	35.73
1943	1.13	1.82	5.97	2.57	5.26	5.07	6.32	2.40	0.88	1.27	0.95	1.54	35.18
1944	0.62	3.14	5.17	3.42	2.08	2.36	1.73	3.66	1.53	0.97	1.58	3.23	29.49
1945	3.13	4.53	7.18	3.92	4.48	3.67	3.22	3.45	3.14	3.08	4.40	1.77	45.97
1946	0.91	3.64	3.76	2.29	6.53	6.18	2.13	3.85	1.36	2.48	2.59	2.11	37.83
1947	5.27	0.73	1.21	6.64	4.50	4.60	3.87	8.49	5.05	1.00	2.14	1.77	45.27
1948	2.59	3.60	5.77	7.78	4.37	4.18	3.29	1.53	4.93	1.49	4.20	3.84	47.57
1949	5.12	3.29	3.48	2.16	2.10	5.18	3.57	1.35	2.00	1.42	2.10	3.23	35.00
1950	8.79	4.18	2.23	3.75	2.10	3.85	4.18	1.65	7.56	1.88	4.74	1.94	46.85
1951	6.12	4.68	3.88	2.40	2.96	4.58	3.04	2.44	3.92	1.37	4.13	5.14	44.66
1952	4.19	2.54	4.43	2.29	2.27	4.62	6.16	2.84	1.87	0.99	1.17	2.77	36.14
1953	7.04	0.96	2.91	3.04	4.79	1.70	2.47	3.01	1.16	0.89	0.98	2.04	30.99
1954	2.80	0.89	3.34	4.44	4.07	3.08	3.29	7.11	0.87	3.83	1.76	2.61	38.09
1955	1.48	5.06	4.35	3.70	2.96	2.15	4.45	2.80	1.98	3.16	2.14	1.62	34.85