

U. S. DEPARTMENT OF COMMERCE, WEATHER BUREAU  
 IN COOPERATION WITH Jackson and Wellston Chambers of Commerce  
 CLIMATOGRAPHY OF THE UNITED STATES NO. 20 - 33

LATITUDE 39° 04'N  
 LONGITUDE 82° 39'W  
 ELEV. (GROUND) 690 Feet

STATION Jackson, Ohio  
 Station No. 33-4004-9

MEANS AND EXTREMES FOR PERIOD 1926-1955

CLIMATOLOGICAL SUMMARY

Month	Temperature (°F)								** Mean degree days	Precipitation Totals (Inches)						Mean number of days						Month	
	Means				Extremes					Mean	Greatest daily	Year	Snow, Sleet			Precip. .10 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.		
																			30° and below	32° and below	32° and below		0° and below
(a)	30	30	30	30		30		30	30	30		30	30	30	30	30	30	30	30	30			
Jan.	43.6	24.0	33.8	78	1950	-24	1948	967	3.86	1.96	1951	5.2	24.3	1948	9.5	1948	8	0	6	23	2	Jan.	
Feb.	46.3	30.8	38.5	78	1945	-20	1951	746	2.91	2.55	1945	4.8	16.0	1948	7.0	1948	7	0	3	21	1	Feb.	
Mar.	55.2	30.9	43.0	88	1929	-5	1943	682	4.18	2.51	1945	4.2	16.3	1954	10.0	1954	9	0	1	19	*	Mar.	
Apr.	66.5	40.7	53.8	92	1948+	17	1950	342	3.73	2.58	1948	0.2	3.0	1936	2.5	1953	8	*	0	7	0	Apr.	
May	75.9	49.5	62.7	95	1949	25	1947	124	3.89	1.81	1945	0	†	1954	†	1954	8	1	0	1	0	May	
June	83.3	58.3	70.8	100	1952	34	1945	27	4.06	3.40	1952	0	0		0		8	6	0	0	0	June	
July	87.0	62.0	74.5	103	1934	42	1947+	0	3.96	3.76	1955	0	0		0		7	10	0	0	0	July	
Aug.	85.6	59.9	72.6	102	1930	40	1952+	6	3.70	3.15	1933	0	0		0		6	8	0	0	0	Aug.	
Sept.	80.5	52.8	66.7	102	1953	27	1951	69	2.72	4.00	1947	0	0		0		5	4	0	1	0	Sept.	
Oct.	70.0	41.6	55.8	93	1951	13	1952	301	2.36	2.30	1931	†	†	1954+	†	1954+	5	1	0	6	0	Oct.	
Nov.	54.7	32.0	43.4	83	1950+	0	1929	648	2.81	1.77	1927	2.3	24.2	1950	12.5	1950	7	0	1	17	*	Nov.	
Dec.	44.4	24.7	34.6	76	1951	-11	1942+	942	2.99	3.33	1948	4.8	18.5	1935	10.5	1935	7	0	4	23	1	Dec.	
Year	66.1	42.3	54.2	103	1934	-24	1948	4854	41.17	4.00	1947	21.3	24.3	1948	12.5	1950	85	30	15	118	4	Year	

(a) Average length of record, years.

+ Also on earlier dates, months, or years.

† Trace, an amount too small to measure.

\* Less than one half

\*\* Base 65°F

NARRATIVE CLIMATOLOGICAL SUMMARY

Jackson and Wellston, situated about 7 miles apart in south-eastern Ohio, are two of the state's many progressive communities. Picturesque hills of this part of the state belong to the Appalachian foothills which extend westward north of the Ohio river to and beyond the Indiana border. In autumn these hills are cloaked with glowing colors which provide enjoyment to residents and attract many visitors. Even though only a short distance apart these two towns lie on opposite sides of a low divide which separates two distinct watersheds. On the east Wellston is located beside Little Raccoon Creek whose water flows southeastward into the Ohio River, while Jackson on the west side is on Little Salt Creek which flows northwestward and joins the Scioto River near Waverly. The mildly hilly nature of this section exerts a profound influence upon its climate, most of which is beneficial, as will be seen later. During the glacial era the great Ice Sheet advanced southward to cover most of western and northern Ohio, but its progress was halted some 15 or 20 miles north of Wellston. This accounts for the noticeable change in appearance of the terrain as one travels southward into this area.

The climate of this region may be described in a general way as "continental" in the sense that the annual range in temperature is quite wide, and precipitation is distributed over the year in a characteristic manner. Summers are moderately warm and humid with a peak of rainfall in June and July while winters are drier and crisp. While afternoon high temperatures frequently exceed 90 degrees in the warm season, they seldom top the 100 degree mark. Likewise in winter, while there are many cold days, the mercury sinks below zero only once in 7 or 8 years. Air drainage off the surrounding hills into the valleys is responsible for one of the advantages of this hilly section. In clear weather, of which there is much in summer, this drainage of cool air serves to "air-condition" the nights for comfortable sleeping.

Total annual rainfall in this section (over 41 inches) runs well ahead of the state average of 38 inches due in large part to the fact that the better producing storms travel a route south of the Ohio river. Most of this moisture has its origin over the South Atlantic, Caribbean, and the Gulf of Mexico from whence it is drawn northward by these storms. Also the presence of hills in this area has the tendency to increase the yield of these storms. As is characteristic of continental climates largest amounts of precipitation come

in July when the monthly totals exceed 4 inches. The cold season produces lesser amounts, October being the month of least rainfall - just over 2 inches. Such a distribution of the year's moisture is favorable to the growth of all vegetation common to the area. Drought conditions, while not unknown to southeastern Ohio, are less severe and more uncommon than in many other parts of the country.

Unfortunately wind, humidity, and cloudiness are not recorded in this section, but the following data for Columbus may be considered representative. Winds are strongest in early spring, averaging about 12 miles per hour from the northwest; and lightest in summer when average velocities are 6 to 8 mph from the south. Humidity, which constantly varies with temperature and with the general moistness of air masses, reaches its lowest point in the afternoon. Average figures for this time of day range from about 50% in summer up to 70% in winter. Night-time humidities average close to 80 percent throughout the year. On hotter summer days when humidity becomes a significant factor to human comfort, afternoon values generally fall into the thirties and forties. Sunshine is most abundant in summer when 70% of daylight hours are clear. In winter, by contrast, cloudy skies are more prevalent and sunshine averages closer to 40 percent.

The normal growing season in Jackson and Wellston is 163 days, extending from April 30 to October 10. These are the average dates of the last and first 32 degree readings each year, although there is a good deal of variation. Temperatures as low as 20 degrees are ordinarily confined to the winter period from November 18 to March 19. (Additional details concerning the probability of various temperatures may be obtained from the Weather Bureau State Climatologist in Columbus)

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	29.2	35.2	45.2	46.0	61.7	65.8	74.3	74.0	67.8	55.5	41.8	35.3	51.6
1927	31.4	41.0	44.4	52.2	62.2	67.7	75.6	66.5	68.0	57.2	49.3	34.2	49.72
1928	31.7	33.9	41.6	47.8	60.6	64.8	73.3	72.8	60.4	58.0	43.8	36.8	49.16
1929	29.5	28.9	46.4	56.2	60.1	64.8	72.3	67.8	66.2	55.4	42.0	36.6	49.33
1930	30.4	42.4	40.6	58.0	64.6	70.4	76.4	72.4	69.3	62.9	43.2	32.4	56.8
1931	34.4	37.3	37.8	52.2	60.1	70.5	77.0	71.8	71.2	57.7	53.2	42.8	56.5
1932	43.4	42.4	37.8	52.7	63.2	71.2	75.6	73.0	66.9	55.4	42.0	34.4	54.7
1933	40.2	34.7	42.2	53.7	65.2	73.6	77.7	71.9	70.2	53.8	42.2	38.5	55.0
1934	36.9	24.9	39.3	51.0	66.1	76.0	77.6	71.8	68.0	54.8	47.1	33.8	54.0
1935	33.5	35.8	50.6	51.0	59.2	67.8	75.2	72.7	63.8	56.3	45.2	26.9	58.1
1936	25.8	28.4	48.2	49.8	65.2	72.2	77.3	76.5	70.0	55.8	40.6	37.5	53.9
1937	41.3	34.6	38.6	52.6	60.9	69.0	73.2	76.3	64.2	53.9	41.4	31.9	53.2
1938	33.8	41.9	50.3	56.5	62.5	69.4	74.2	74.7	66.8	56.8	45.8	35.0	56.6
1939	37.2	37.4	45.9	50.2	64.9	72.1	72.6	72.6	57.2	57.2	40.8	36.4	54.8
1940	19.8	33.4	41.1	50.4	61.8	71.0	72.8	74.8	63.2	56.0	44.0	32.4	52.4
1941	32.7	30.4	35.7	53.2	64.4	70.8	74.8	72.6	68.8	60.4	44.2	39.1	54.3
1942	30.6	29.8	46.6	57.2	63.8	72.4	79.8	72.4	66.0	57.0	46.1	32.0	54.1
1943	34.8	35.0	40.3	49.4	63.8	75.4	74.7	73.0	63.5	53.4	40.6	31.0	58.0
1944	32.6	36.9	39.6	52.4	67.9	75.0	74.4	73.8	64.9	53.0	42.5	29.0	53.3
1945	27.0	34.8	53.1	56.4	60.0	69.6	73.8	72.8	69.3	53.2	45.2	27.8	53.6
1946	34.0	36.4	53.0	55.4	62.5	71.8	74.4	78.3	66.0	57.5	48.2	38.8	55.5
1947	39.2	25.4	35.8	56.6	61.6	70.3	69.8	78.3	68.4	62.2	42.4	34.0	53.7
1948	23.8	36.0	48.2	58.0	61.6	71.6	75.0	72.6	67.6	51.6	47.8	38.4	54.4
1949	41.0	41.0	44.4	52.4	64.7	74.2	78.7	73.9	61.5	59.2	42.3	36.7	58.6
1950	41.6	34.9	38.1	49.7	64.7	69.6	72.8	70.7	65.3	59.2	39.2	29.4	52.9
1951	35.0	34.5	43.4	52.2	63.5	71.5	74.5	72.2	65.0	57.6	39.5	36.0	53.6
1952	39.1	38.2	42.5	53.8	62.8	74.3	76.3	72.4	48.6	42.4	35.9	34.2	54.2
1953	37.4	36.9	44.7	49.6	66.6	72.5	74.1	72.1	64.9	55.9	41.5	34.4	54.2
1954	35.0	41.5	40.5	58.9	58.0	72.4	74.5	75.0	57.3	57.3	42.8	35.9	54.7
1955	29.0	34.9	44.8	56.9	63.4	65.9	74.7	74.7	68.2	55.2	40.7	31.4	53.5

## STATION HISTORY

Official weather records have been maintained in Jackson continuously since March 1914. The first observer, David F. Jones, took the observations at his home 6 miles south of town until November 1921. At that time instruments were moved about 4 miles northwest to the home of Charles H. Kraatz who kept the program going until November 1944 at a point about 2 miles south southwest of the Post Office. From then through December 31, 1954, Mr. and Mrs. Chester B. Rice were official observers at 16 Wood Avenue. Since then the observations have been made by Walter E. Miller (to August 1956) and Ralph P. Rhoads Sr., the present observer (1958). The three most recent observers have lived within the city limits.

Total Precipitation (Inches)

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1926	3.92	4.91	2.23	3.28	4.06	2.91	5.05	8.35	2.69	5.93	2.68	3.70	49.72
1927	4.94	3.03	3.09	6.16	4.39	3.34	6.07	6.15	6.77	1.27	4.39	3.66	46.90
1928	2.70	2.72	3.99	3.85	1.70	8.08	3.18	2.93	1.90	2.90	3.11	1.56	37.16
1929	3.81	2.98	3.48	6.86	1.70	3.65	3.18	2.83	2.76	1.26	4.18	2.27	44.18
1930	2.86	2.96	3.99	1.23	3.45	2.03	4.52	2.00	2.06	1.46	4.18	2.27	28.01
1931	1.19	2.25	3.88	5.87	3.43	4.02	3.86	7.12	4.80	3.78	2.50	4.39	46.88
1932	4.89	2.19	4.81	3.56	.74	3.99	5.74	.86	2.87	2.03	2.75	3.13	37.13
1933	4.44	2.22	6.75	4.12	7.02	1.88	2.83	7.66	3.71	1.27	1.25	5.12	48.26
1934	2.08	1.28	3.44	1.34	1.55	2.68	5.25	3.78	2.89	1.15	1.93	1.86	27.75
1935	3.07	1.77	5.69	3.15	6.22	6.61	4.09	6.58	3.12	2.89	2.70	3.11	48.99
1936	2.99	1.74	4.58	4.38	1.44	1.00	8.87	8.06	1.82	5.06	3.43	3.41	38.78
1937	12.18	2.68	1.82	2.28	2.68	6.76	2.21	1.97	2.88	2.90	1.14	3.52	41.31
1938	1.34	2.31	4.85	3.46	4.10	2.84	3.96	4.02	3.21	3.08	3.11	1.56	36.73
1939	3.79	6.07	5.00	6.80	1.39	5.51	4.81	3.18	1.09	2.51	1.47	1.51	43.18
1940	1.22	4.10	3.35	4.38	3.82	5.02	1.21	3.55	1.27	1.13	3.73	2.39	35.85
1941	2.89	.44	1.30	1.78	2.05	7.85	3.48	2.04	2.14	4.66	1.61	1.87	32.08
1942	1.88	2.24	3.79	1.99	5.92	5.22	3.62	2.24	2.56	2.09	4.35	5.30	40.90
1943	2.37	1.91	5.33	4.02	6.24	3.71	7.50	3.08	.90	1.66	1.01	1.87	39.60
1944	1.25	3.77	5.79	3.90	4.08	1.77	1.45	1.88	2.10	2.20	1.85	4.41	34.23
1945	2.85	5.90	7.06	4.21	6.07	3.45	2.90	2.64	3.56	1.62	4.93	2.90	48.09
1946	1.31	3.67	5.75	2.23	4.63	7.73	3.42	4.57	2.47	2.30	1.83	2.68	42.68
1947	7.17	1.78	1.75	5.78	5.01	3.18	1.87	5.35	5.91	1.80	2.56	1.67	43.81
1948	4.07	4.29	5.49	8.17	3.08	4.31	5.09	4.57	6.74	2.26	4.74	4.88	47.19
1949	6.24	3.79	2.49	3.39	2.92	6.36	4.38	1.83	2.56	1.04	4.28	36.33	46.28
1950	11.23	4.68	3.13	2.54	3.50	6.50	6.07	1.70	4.16	2.52	5.84	2.73	64.39
1951	6.99	4.02	4.32	3.13	3.89	3.51	1.52	2.24	2.76	1.59	5.28	4.39	44.54
1952	4.80	2.22	5.46	3.20	3.46	4.61	2.81	2.81	2.84	1.44	2.46	3.15	38.86
1953	4.55	.94	4.80	3.70	6.39	3.45	4.73	1.73	1.46	.61	1.31	2.53	35.90
1954	2.85	.61	3.79	4.02	3.67	1.18	5.29	4.86	2.20	2.98	1.60	2.88	35.63
1955	1.44	4.49	4.44	3.71	3.88	3.82	6.67	2.37	3.90	4.74	1.85	.92	42.23

NOTE: Since 30 years is the standard period covered by climatological summaries of this sort, only the records for the period 1926 through 1955 have been used here. Due to the short distance separating Weilsen and Jackson, records made at the latter place are considered to be equally applicable to both places.

Additional data concerning the climate not presented in this summary may be obtained by contacting the Weather Bureau in Columbus.