ENVIRONMENTAL SCIENCE SERVICES ADMINISTRATION, WEATHER BUREAU
IN COOPERATION WITH AGRICULTURAL EXPERIMENT STATION,
UNIVERSITY OF MISSOURI CLIMATOGRAPHY
OF THE UNITED STATES NO. 20-23

CLIMATOLOGICAL SUMMARY

LATITUDE 38° 35'
LONGITUDE 92° 12'
ELEV. (GROUND) 655

STATION JEFFERSON CITY, MISSOURI

MEANS AND EXTREMES FOR PERIOD 1931-1960

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.	41.8	21.3	31.5	79	1950	-16	1940	1037	1.89	2.90	1938	3.8	15.5	1939	8.0	1937	4	0	8	27	2	Jan.
Feb.	45.7	23.9	34.8	80	1956	-11	1951	853	1.95	1.92	1958	4.7	31.4	1956	29.7	1956	5	0	5	23	1	Feb.
Mar.	54.6	31.2	42.9	88	1945	-16	1960	688	2.39	1.49	1950	3.4	17.3	1960	9.0	1931	6	0	1	18	0	Mar.
Apr.	67.6	42.9	55.3	90	1951	17	1936	317	3.58	2.40	1941	0.2	2.5	1938	2.5	1938	7	0	0	5	0	Apr.
May	76.7	52.7	64.7	102	1934	28	1960	103	4.85	4.24	1943	0	0		0		8	1	0	0	0	May
June	85.7	62.5	74.1	105	1934	40	1946	10	4.71	3.63	1942	0	0		0		8	10	0	0	0	June
July	90.9	66.3	78.6	112	1934	44	1950	0	3.37	3.30	1941	0	0		0		5	18	0	0	0	July
Aug.	89.7	64.8	77.2	111	1934	41	1950	2	3.98	4.77	1946	0	0		0		6	17	0	0	0	Aug.
Sept.	82.8	56.3	69.5	107	1939	29	1949	51	3.94	3.04	1931	0	0		0		5	8	0	0	0	Sept.
Oct.	71.8	45.2	58.5	96	1939	15	1952	237	3.58	5.65	1941	0	0		0		5	1	0	3	0	Oct.
Nov.	55.5	32.5	44.0	87	1931	1	1950	632	2.62	4.55	1948	1.0	12.1	1951	8.0	1951	5	0	1	16	0	Nov.
Dec.	45.0	24.7	34.8	79	1949	- 9	1943	935	1.98	3.80	1942	3.5	12.1	1945	8.5	1944	5	0	5	25	1	Dec.
Year	67.4	43.8	55.6	112	1934	-16	1940	4865	38.85	5.65	1941	16.6	31.4	1956	29.7	1956	69	55	20	117	4	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

The Missouri River forms the northern boundary of Cole County in the central part of the State of Missouri. Jefferson City lies on the southern bank of this river. The broad alluvial flood plains lie on the northern side of the river in the adjoining county. Jefferson City and most of the other communities in the county are situated on rolling or hilly terrain.

Jefferson City has a comparatively cold and dry winter climate. About 20 per cent of the average annual amount of precipitation falls in the four-month period of November through February. It is unusual to have a period of more than two days with nighttime temperatures as cold as zero. In the midst of the coldest part of the year, it is not unusual to have periods of three or four days in a row, each with daytime temperatures as warm as 50 degrees Fahrenheit.

There is some snow each winter in Jefferson City, and there are large variations in the seasonal totals from year to year. The first snowfall of one inch or more comes, on the average, around the middle of December. It is unusual to have snow cover remain on the ground for more than a week at a time.

With rising temperatures in the spring and early summer, the probability for more abundant precipitation increases. June and July are the months with the highest average rainfall. It is unusual for measureable precipitation to fall more than two or three days in a row.

Temperatures as warm as 90°F. have occurred as early as May and as late as September. It is not common to have a run of days this warm that last more than three or four days at a time.

Along with the rise in temperature in spring, the amount of water that is evaporated from the surface of the earth and transpired by growing vegetation increases too. The demand for water by growing crops and other vegetation reaches a peak in the months of June and July. In an average year, this loss of water from the soil exceeds the amount received as rain during July and into August. It is during this time that reserves of soil moisture laid down by late fall and winter rains become important.

For data prior to 1931 write to:

James D. McQuigg
ESSA, Weather Bureau
State Climatologist
P.O. Box 941
Columbia, Missouri 65201

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Average Temperature (°F) JEFFERSON CITY, MISSOURI

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1931	34.2	40.0	38.3	56.0	62.0	77.8	80.7	76.0	74.5	61.0	53.2	43.4	58.2
1932	36.7	41.8	37.1	57.9	66.6	75.5	80.8	78.0	69.0	57.3	39.5	31.6	56.0
1933	41.7	31.0	42.7	53.9	65.4	78.2	79.7	76.3	75.5	56.4	45.0	38.6	57.2
1934	35.2	31.6	39.8	55.7	69.7	81.0	87.4	80.2	65.5	61.6	49.2	31.1	57.5
1935	32.3	36.3	49.8	51.7	59.9	69.6	79.5	76.7	68.1	55.3	40.4	29.4	57.5
1936	23.5	20.9	48.0	51.6	69.3	77.1	86.7	84.5	71.5	55.7	40.5	36.5	55.6
1937	25.6	29.5	37.7	52.1	64.8	73.2	77.5	79.6	69.0	54.5	38.9	29.6	52.8
1938	29.7	38.4	50.8	54.6	62.6	70.5	78.0	80.0	70.7	63.2	44.3	34.4	56.5
1939	38.2	29.4	44.9	51.7	66.3	72.9	70.1	75.1	75.4	60.3	42.4	36.6	56.2
1940	12.2	30.6	40.5	52.6	61.5	72.3	76.6	74.8	68.1	62.4	39.5	36.7	52.4
1941	32.7	30.5	38.0	57.7	67.9	73.4	77.5	79.0	70.0	59.6	43.9	38.3	55.9
1942	29.8	30.8	43.6	57.3	61.8	71.7	77.2	73.4	65.9	57.3	46.8	31.3	54.0
1943	29.5	37.9	38.1	54.3	62.7	75.5	79.3	79.7	65.6	55.5	41.8	29.9	54.2
1944	33.9	35.0	39.4	51.2	68.2	76.4	78.6	75.0	68.3	59.7	47.3	28.4	55.2
1945	29.2	34.7	52.0	55.1	59.8	69.4	74.1	76.7	70.0	56.2	46.0	27.0	54.3
1946	34.0	40.9	55.7	58.8	61.3	72.7	78.7	73.7	67.8	61.0	46.9	40.5	57.8
1947	34.7	29.0	36.9	55.1	62.2	72.4	74.0	82.9	72.0	64.3	40.7	38.2	55.4
1948	25.2	33.3	43.0	60.7	62.3	72.0	76.5	74.6	69.6	54.0	46.4	36.0	54.6
1949	31.4	35.7	43.4	54.0	67.5	74.6	78.9	73.9	61.5	57.8	47.2	38.4	55.5
1950	35.2	37.5	40.8	50.4	64.9	71.9	72.2	69.9	66.2	62.7	39.0	30.9	53.6
1951	33.6	36.9	41.4	52.2	64.5	70.6	76.7	75.9	65.9	59.5	39.1	33.4	54.3
1952	36.7	39.6	42.6	54.4	64.2	81.1	79.8	74.6	66.5	52.1	44.3	35.0	55.9
1953	35.2	40.8	48.0	51.8	65.9	80.1	79.2	77.5	71.9	59.3	46.9	37.7	57.9
1954	32.5	44.8	42.6	62.9	60.0	76.8	84.2	80.6	73.5	58.5	46.7	37.3	58.4
1955	34.5	36.3	46.1	63.7	67.8	70.2	81.8	79.2	73.4	58.4	42.8	33.9	57.5
1956	30.9	37.5	47.4	55.8	70.0	75.1	78.2	79.5	72.8	65.2	45.6	38.2	58.1
1957	27.5	41.5	43.3	56.0	65.7	73.9	78.6	76.6	66.6	54.5	43.5	40.5	55.7
1958	31.2	26.4	37.6	55.4	65.1	71.0	75.7	76.2	68.7	57.0	49.1	31.7	53.9
1959	27.5	36.8	46.1	56.0	68.5	73.5	75.1	79.7	70.2	55.6	38.5	38.1	55.6
1960	32.0	30.0	31.2	57.5	62.7	72.6	74.8	77.6	72.6	58.4	45.6	31.2	53.9
1961	28.6	36.7	46.1	51.0	60.1	69.5	76.0	73.9	67.8	58.4	43.3	31.0	53.5
1962	25.1	37.9	39.8	M	71.6	72.2	77.0	77.3	65.8	59.6	43.6	31.6	----
1963	22.2	30.3	48.4	58.7	M	74.8	78.1	76.2	M	66.4	46.2	23.1	----
1964	35.0	32.7	42.3	59.7	68.7	72.2	78.3	75.8	69.4	53.9	48.6	33.1	55.8
1965	33.5	33.9	34.7	58.8	68.8	72.9	75.2	74.8	68.5	55.7	48.1	42.6	55.6
1966	26.0	32.8	47.4	53.2	62.2	70.5	81.5	--	65.9	54.4	48.3	33.7	----

PROBABILITY OF FREEZES OCCURRING AS LATE IN THE SPRING OR AS EARLY IN THE FALL AS DATES SHOWN IN THE FOLLOWING TABLE

Temperature As Cold As	Spring Months			Fall Months		
	50%	20%	10%	50%	20%	10%
32°	Apr. 18	Apr. 28	May 4	Oct. 19	Oct. 7	Oct. 2
28°	Apr. 6	Apr. 15	Apr. 21	Oct. 30	Oct. 21	Oct. 17
24°	Mar. 29	Apr. 7	Apr. 11	Nov. 8	Oct. 30	Oct. 24
20°	Mar. 19	Mar. 31	Apr. 7	Nov. 20	Nov. 11	Nov. 5
16°	Mar. 5	Mar. 15	Mar. 21	Nov. 24	Oct. 30	Oct. 15

Total Precipitation (Inches) JEFFERSON CITY, MISSOURI

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1931	0.49	4.04	4.13	1.38	4.01	1.14	4.01	3.68	8.27	5.06	4.95	2.88	44.04
1932	2.66	0.98	1.25	2.17	2.68	3.10	2.68	5.81	1.79	3.07	1.53	3.37	33.09
1933	3.14	1.55	2.76	2.53	7.28	2.88	3.02	3.09	3.20	4.56	1.44	1.48	36.93
1934	1.72	1.18	2.56	1.57	1.08	3.06	1.79	6.25	9.55	3.41	3.22	2.89	38.28
1935	2.43	1.78	3.45	3.44	7.65	7.33	2.14	1.81	2.82	1.86	5.32	1.12	41.15
1936	1.14	0.88	0.78	1.44	3.49	0.20	0.51	3.48	10.02	2.18	4.99	2.33	31.44
1937	5.33	1.55	1.37	3.76	5.39	5.06	1.75	2.46	2.23	2.59	2.80	1.96	36.25
1938	3.85	3.76	5.26	6.20	7.28	4.90	3.79	1.39	2.59	1.63	4.92	2.74	48.31
1939	2.17	2.79	1.66	5.81	5.43	4.43	0.99	2.92	0.66	2.68	3.54	2.07	35.15
1940	1.82	1.84	2.23	2.94	2.65	4.85	0.50	8.27	0.05	1.34	2.53	2.63	31.65
1941	3.96	0.42	0.68	6.26	2.12	4.16	4.51	3.91	6.87	14.12	2.78	1.66	51.45
1942	1.18	2.40	1.14	2.80	8.71	9.23	6.00	3.76	4.73	2.30	2.84	6.45	51.54
1943	0.36	1.07	2.46	2.99	10.76	5.35	3.20	2.72	5.39	3.39	1.63	2.21	41.53
1944	0.24	2.77	2.96	7.08	5.79	1.06	3.43	5.86	3.98	3.35	1.60	1.55	39.67
1945	0.97	2.45	5.20	6.51	7.12	7.24	3.28	1.56	9.42	1.65	0.90	1.24	47.54
1946	2.32	2.81	1.83	3.91	4.63	2.98	3.31	12.37	1.60	3.32	7.78	1.78	48.64
1947	1.37	0.03	1.67	8.44	3.45	7.62	1.85	0.82	3.89	4.14	2.05	0.40	35.73
1948	1.35	1.23	4.16	1.11	3.54	9.92	5.32	2.42	2.04	2.83	5.80	1.69	41.41
1949	5.26	2.24	2.42	1.83	4.39	7.40	3.42	5.67	7.38	5.61	0.34	2.77	48.73
1950	3.79	1.89	2.81	5.62	4.57	2.87	3.45	6.07	0.65	1.66	2.70	0.19	36.27
1951	1.60	4.42	3.52	1.92	3.01	9.37	4.77	6.24	7.50	3.81	1.91	1.91	49.98
1952	0.94	1.65	1.68	3.07	4.16	1.23	2.83	8.25	1.06	0.22	3.53	1.34	29.96
1953	1.26	1.25	3.08	2.94	3.83	1.50	1.11	1.90	2.89	3.12	0.61	0.59	24.08
1954	0.67	1.07	0.75	4.45	5.12	4.02	1.81	3.74	3.30	5.44	0.89	1.74	33.00
1955	0.45	2.38	1.66	2.72	4.42	5.36	3.23	2.24	3.70	5.52	0.35	0.12	32.15
1956	0.42	1.17	0.46	1.38	5.46	6.01	6.81	4.78	0.93	1.45	1.08	3.57	33.52
1957	1.08	2.25	3.29	4.08	4.39	6.99	5.44	2.56	2.30	2.71	0.93	1.63	37.65
1958	1.92	2.28	3.28	3.41	3.80	8.86	9.35	2.10	3.89	4.44	2.75	0.65	46.73
1959	1.49	2.68	1.49	1.16	5.59	1.42	2.95	3.05	4.95	5.87	1.21	2.11	33.97
1960	1.37	1.81	1.78	4.61	3.60	1.88	3.73	0.17	0.65	3.97	1.71	2.29	27.57
1961	0.13	1.42	4.30	4.94	7.21	4.72	5.29	3.47	5.90	2.57	1.96	1.46	43.37
1962	1.33	1.74	3.66	0.99	2.28	3.84	1.14	0.99	6.35	1.66	0.64	2.09	26.71
1963	0.90	0.10	4.72	1.76	6.46	2.90	2.04	3.25	1.54	0.71	1.68	0.39	26.45
1964	0.67	1.98	3.68	5.39	3.63	6.86	2.32	1.02	4.08	0.21	3.27	1.39	34.50
1965	3.11	1.24	1.85	2.85	4.01	8.64	4.62	5.10	6.42	2.95	0.54	2.03	43.36
1966	0.29	2.79	0.80	5.93	4.76	1.45	2.07	3.40	1.48	2.32	0.83	2.28	28.40

STATION HISTORY

DATE	LOCATION	ELEVATION	OBSERVER
1-1-1891/2-28-1891			J. C. Hilligan
3-1-1891/4-30-1891			A. Woodward
5-1-1891/8-31-1893			C. B. Lane
9-2-1893/3-15-1894			James D. Robertson
11-1-1894/9-30-1901	0.5 Mi. W	628	J. J. Henderson
10-18-1901/2-28-1906		557	Albert D. Swift
3-1-1906/9-30-1928			Emma Swift
10-1-1928/9-4-1945	1.9 Mi. WNW	655	Mrs. Frank Kliegel
9-5-1945/7-31-1946		655	Radio Station KWOS
8-1-1946/11-30-1956			Radio Station KWOS
12-4-1956/Present	1.2 Mi. S	640	Jefferson City, Lincoln University