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 39° 11'
LONGITUDE 93° 53'
ELEV. (GROUND) 688

STATION LEXINGTON, 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.	38.5	19.9	29.2	74	1950	-14	1943	1111	1.47	2.07	1946	5.1	18.3	1940	8.0	1958	4	0	10	27	2	Jan.
Feb.	42.9	22.7	32.8	79	1932	-13	1933	911	1.55	1.60	1954	4.6	13.6	1960	11.0	1933	4	0	6	23	1	Feb.
Mar.	52.1	30.9	41.5	87	1940	- 8	1960	730	2.69	2.64	1954	5.6	23.0	1960	12.0	1931	5	0	3	18	0	Mar.
Apr.	65.9	43.8	54.9	91	1936	16	1936	325	3.44	3.48	1944	0.8	14.0	1938	8.0	1938	7	0	0	3	0	Apr.
May	76.2	54.8	65.5	105	1934	32	1944	97	4.50	3.23	1955	0	0		0		8	2	0	0	0	May
June	86.2	64.8	75.5	107	1936	44	1946	9	5.40	4.50	1947	0	0		0		8	11	0	0	0	June
July	92.2	69.1	80.7	113	1936	51	1959	0	3.81	6.85	1951	0	0		0		5	21	0	0	0	July
Aug.	90.5	67.4	79.0	111	1934	47	1950	1	3.83	3.27	1944	0	0		0		6	18	0	0	0	Aug.
Sept.	82.6	58.4	70.5	106	1947	32	1942	46	3.49	3.81	1947	0	0		0		5	8	0	0	0	Sept.
Oct.	71.1	47.4	59.3	96	1939	23	1937	225	2.78	2.40	1936	0	0		0		5	1	0	2	0	Oct.
Nov.	53.5	33.0	43.2	88	1950	3	1937	655	1.99	2.57	1934	1.8	13.5	1934	10.0	1934	4	0	2	15	0	Nov.
Dec.	42.2	24.1	33.1	74	1939	- 9	1932	989	1.69	1.66	1947	4.6	16.0	1945	7.0	1944	4	0	7	25	1	Dec.
Year	66.3	44.8	55.5	113	1936	-14	1943	5099	36.63	6.85	1951	22.5	23.0	1960	12.0	1931	65	61	28	113	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

Lafayette County is in the west central part of Missouri. The Missouri River forms the northern boundary of the county. With the exception of a narrow alluvial flood plain, most of the terrain in the county is rolling, and wooded, with a considerable amount of cleared agricultural land. Lexington lies on the northern border of the county, but there is no reason to believe that weather data from that location are not representative of other parts of the county.

Winters are cold and comparatively dry. A little less than twenty per cent of the average annual precipitation falls in the four-month period from November through February. About two-thirds of the winters have temperatures as cold as zero. When such low readings do occur, it is rare to have more than two or three nights in a row with below zero temperatures. There nearly always are some periods in January and February with daytime temperatures above 50 degrees, and a few days with temperatures as high as 70 in the middle of the winter are not rare.

Each winter in the 30-year sample used to prepare this summary had some snow. In about 10 per cent of the winters, snowfall was less than 10 inches. In about sixty per cent of the winters, snowfall exceeded 20 inches. It is unusual for snow to remain on the ground for more than a week.

Temperatures as warm as 90 degrees have occurred as early as April, and as late as October. In about one-third of the summers, temperatures would fail to get as warm as 100 degrees. When temperatures do rise as high as 100, it is unusual to have more than two or three days in a row this warm.

With rising temperatures in the spring, the likelihood for more abundant precipitation increases. The period April through June usually brings the heaviest rainfall of the year. With warmer temperatures, the amount of water lost to the atmosphere by evaporation and transpiration from vegetation also increases. By late June, this loss usually begins to exceed the amount of water received as precipitation. It is at this time that the soil moisture reserves laid down by the preceding winter and spring precipitation is used. By middle or late August in most years, this reserve is depleted.

For further information, write to:

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State Climatologist
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Columbia, Missouri 65201

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Average Temperature (°F) LEXINGTON, MISSOURI

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1931	37.2	41.7	39.6	56.0	63.5	79.6	83.0	77.3	78.6	61.9	51.0	41.6	59.3
1932	33.2	41.0	36.3	59.2	67.8	77.3	82.8	80.9	70.5	55.2	38.7	28.8	56.0
1933	41.0	30.5	43.1	54.2	66.4	81.4	82.1	77.7	76.0	56.5	44.8	36.3	57.6
1934	34.2	32.1	38.7	55.2	69.6	81.5	88.4	82.5	64.8	61.2	47.3	29.8	57.3
1935	30.2	34.9	48.3	51.0	59.1	70.4	83.8	79.2	69.1	55.9	40.3	30.7	54.5
1936	20.3	17.4	47.5	52.8	70.6	78.7	87.9	86.2	72.8	55.8	41.6	36.4	55.8
1937	22.5	28.8	39.0	53.0	67.1	75.5	80.2	82.4	70.8	56.2	39.1	30.3	53.9
1938	30.7	37.2	51.5	55.4	64.9	73.7	81.7	81.7	71.8	64.7	44.2	35.7	57.9
1939	37.6	19.1	45.7	53.0	68.4	76.1	83.0	75.7	75.3	60.9	43.7	38.7	57.5
1940	12.6	31.5	41.5	53.2	63.4	74.2	80.7	76.8	70.4	65.0	39.9	36.5	53.9
1941	31.6	31.0	39.8	58.7	70.5	75.1	80.1	79.9	71.6	60.5	45.5	39.2	57.1
1942	30.7	32.0	43.7	58.3	63.1	73.9	79.9	76.3	66.9	58.3	45.3	29.7	55.0
1943	26.4	37.4	37.8	55.2	61.7	75.4	80.2	79.7	65.9	56.5	41.0	29.3	53.9
1944	34.7	35.0	38.0	49.8	68.7	75.9	78.6	75.5	69.8	61.3	46.5	27.0	55.1
1945	29.9	34.3	51.6	55.7	60.6	69.7	76.9	79.3	69.2	57.3	46.3	26.0	54.8
1946	32.3	42.8	55.9	59.8	62.0	75.4	81.8	77.2	69.1	63.7	46.9	38.0	58.8
1947	33.4	29.0	35.9	52.7	60.4	71.4	76.1	84.5	73.2	68.0	38.7	35.6	55.1
1948	23.2	29.8	39.2	59.9	64.9	74.0	79.0	78.4	71.9	56.2	44.8	34.3	54.7
1949	24.1	29.7	41.1	53.7	67.9	76.5	80.7	76.8	63.6	59.7	46.9	35.0	54.8
1950	29.7	32.8	38.4	50.7	66.4	74.1	72.7	72.0	66.9	63.6	39.1	27.9	53.0
1951	30.0	30.2	37.7	50.3	66.5	70.5	76.8	77.1	65.2	57.5	37.2	28.7	52.4
1952	31.4	38.1	38.1	53.9	65.8	81.7	80.1	75.8	70.2	54.0	44.1	32.8	55.5
1953	31.4	37.9	44.4	49.3	64.2	81.9	81.4	79.8	72.6	62.2	45.4	33.5	57.1
1954	27.1	42.5	39.7	59.2	60.7	78.3	86.6	79.9	74.4	57.6	45.9	34.2	57.2
1955	29.7	29.3	41.1	62.7	67.4	70.6	84.1	79.8	71.6	57.7	39.1	28.3	55.3
1956	26.9	30.1	43.0	52.6	68.8	76.9	79.6	80.8	72.8	64.5	42.5	35.0	56.2
1957	23.4	37.3	41.3	53.0	65.0	74.8	82.0	79.5	67.2	54.0	41.4	37.4	54.8
1958	28.3	23.0	36.6	54.9	67.1	72.4	76.7	77.7	69.8	59.0	48.3	29.3	53.8
1959	23.4	30.7	43.9	55.5	68.6	75.8	76.5	80.2	70.0	53.6	36.5	38.0	54.5
1960	27.8	26.8	27.0	57.4	63.9	72.9	76.4	78.7	72.5	59.2	45.4	29.5	53.2
1961	28.0	36.6	43.2	49.8	61.0	73.1	77.2	76.1	67.5	58.3	42.5	26.8	53.3
1962	19.7	32.5	36.6	53.5	73.9	74.1	77.9	79.0	66.3	60.3	43.8	30.9	54.0
1963	17.9	29.0	46.2	58.9	65.2	77.7	80.3	77.2	71.4	68.9	46.8	21.7	55.1
1964	33.3	32.2	38.5	56.4	69.8	72.5	80.6	75.3	69.0	55.3	48.1	28.5	55.0
1965	28.9	29.5	31.8	57.2	71.3	74.3	77.4	75.7	68.1	58.0	47.7	40.5	55.0
1966	24.2	30.3	46.2	52.3	63.8	72.6	82.6	73.5	66.1	55.7	45.2	31.6	53.7

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. 11	Apr. 19	Apr. 24	Oct. 26	Oct. 16	Oct. 9
28°	Apr. 2	Apr. 11	Apr. 16	Nov. 3	Oct. 26	Oct. 21
24°	Mar. 24	Apr. 3	Apr. 9	Nov. 13	Nov. 3	Oct. 29
20°	Mar. 16	Mar. 26	Apr. 1	Nov. 18	Oct. 26	Oct. 12
16°	Mar. 7	Mar. 18	Mar. 24	Nov. 29	Nov. 3	Oct. 20

Total Precipitation (Inches) LEXINGTON, MISSOURI

Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Ann'l
1931	0.49	1.51	4.19	4.18	6.07	2.21	3.54	3.42	4.93	3.28	6.82	1.84	42.48
1932	1.70	1.40	2.19	2.91	2.18	4.41	3.05	3.25	1.76	2.71	2.04	2.82	30.42
1933	1.01	1.00	3.11	3.22	5.64	3.08	0.84	2.21	3.71	1.60	0.53	2.06	28.01
1934	0.88	1.29	1.65	2.23	4.28	3.79	1.97	1.29	9.39	3.42	7.11	1.22	38.52
1935	1.72	1.93	1.30	4.12	10.29	8.53	2.05	1.46	4.80	3.37	4.91	0.56	45.04
1936	1.55	1.86	0.51	2.09	3.86	0.11	3.00	1.41	9.25	4.30	0.49	2.33	30.76
1937	3.63	1.35	1.91	2.78	3.13	2.80	5.72	0.75	1.16	0.84	2.05	1.13	27.25
1938	1.85	1.79	4.16	5.62	7.66	5.83	4.39	5.81	2.10	1.22	3.36	0.96	44.75
1939	1.81	1.60	2.44	3.79	1.46	6.78	3.93	5.87	0.91	0.64	2.15	1.59	32.97
1940	1.89	1.22	2.87	3.16	3.99	4.50	0.71	5.46	0.12	1.02	3.97	2.08	30.99
1941	5.37	1.26	1.19	1.93	2.36	6.75	2.59	6.71	5.23	10.64	3.01	1.82	48.86
1942	0.41	3.41	2.61	4.24	3.81	11.86	1.84	2.47	4.36	2.99	2.94	3.52	44.46
1943	0.69	0.73	1.72	2.19	6.83	9.24	4.08	4.08	2.48	2.99	0.37	2.00	37.40
1944	0.44	1.62	4.31	9.87	6.25	5.49	2.74	10.91	4.15	1.52	3.12	3.23	53.65
1945	0.51	1.54	5.94	5.99	4.19	3.98	3.47	1.10	7.63	0.00	0.00	2.20	36.55
1946	3.72	0.86	2.48	4.02	3.67	2.42	0.40	3.70	1.95	4.35	0.43	2.39	30.39
1947	0.66	0.00	4.55	6.81	3.45	17.22	2.37	2.08	4.93	0.00	1.85	2.10	46.02
1948	1.17	1.73	6.45	0.82	3.11	9.32	7.57	1.44	3.02	1.52	2.43	1.05	39.63
1949	4.34	1.58	2.36	1.98	8.84	6.01	3.27	2.40	4.65	3.32	0.33	2.97	42.05
1950	1.03	1.29	0.89	3.23	2.84	2.63	6.42	5.39	0.91	0.22	0.09	0.18	25.12
1951	0.80	2.84	3.87	2.80	3.44	10.26	17.29	10.45	4.76	3.71	1.77	0.73	62.72
1952	0.60	1.01	3.50	4.59	3.77	3.01	5.08	5.17	2.15	0.21	2.76	1.03	32.88
1953	0.47	1.52	2.75	3.51	3.93	1.38	1.21	0.56	1.95	1.31	1.30	1.24	21.13
1954	0.40	2.45	3.37	2.25	3.85	2.54	0.66	7.33	0.61	6.91	0.01	0.91	31.29
1955	1.37	3.09	0.57	0.89	7.57	4.86	2.01	7.47	3.06	4.25	0.15	0.45	35.74
1956	0.38	1.43	0.37	3.46	2.16	3.40	6.98	1.94	0.10	0.48	0.91	1.36	22.97
1957	1.16	0.45	2.60	2.22	5.02	6.16	2.18	3.79	4.19	4.93	2.59	3.38	38.67
1958	1.58	1.41	2.26	2.00	3.78	7.55	6.36	1.75	3.70	0.62	1.57	0.58	33.76
1959	0.93	1.33	2.77	1.91	2.37	1.21	6.25	1.94	4.59	4.90	0.25	1.60	30.05
1960	1.56	1.98	1.77	4.34	5.11	4.58	2.38	3.42	2.07	6.08	0.25	1.37	34.91
1961	0.15	2.23	7.23	5.18	5.25	2.96	7.01	4.25	11.83	5.83	4.98	1.22	58.12
1962	2.04	1.63	1.97	1.12	2.49	2.09	3.74	0.44	4.90	5.20	0.91	0.95	27.48
1963	0.24	0.41	2.06	1.59	6.58	1.82	5.46	4.80	0.69	1.24	2.10	0.24	27.23
1964	0.75	1.39	2.86	6.25	4.44	7.44	1.78	2.13	1.17	0.48	4.93	1.37	34.99
1965	4.00	1.22	2.30	2.62	0.91	6.88	11.27	5.23	7.60	1.72	0.34	1.72	45.81
1966	0.43	0.93	2.10	2.41	2.90	6.92	1.51	3.31	2.92	0.80	1.28	1.07	26.58

STATION HISTORY

DATE	LOCATION	ELEVATION	OBSERVER
1-1-1878/4-30-1896			Charles Teubner
5-1-1896/2-28-1921			John W. Keithly
3-1-1921/6-30-1927			E. G. Loomis
7-1-1927/2-28-1945	3/4 Mi. W	688	Carrie Loomis
3-1-1945/9-30-1947	8 Blks. E Prev. Loca.	688	Tilton Davis
11-1-1947/Present	1/4 Mi. NW	688	William Cullom