

1981

UA66/8/2 Climate of Lexington, Kentucky

WKU Kentucky Climate Center

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Mark Simpson

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Climate of Lexington Kentucky

KENTUCKY CLIMATE CENTER
CLIMATOLOGY OF KENTUCKY SERIES

TOTAL PRECIPITATION

LEXINGTON WSO

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1951	11.15	3.64	4.96	2.48	2.16	4.38	1.83	2.88	3.60	3.10	6.87	7.30	54.48
1952	5.62	2.72	7.36	2.06	3.15	4.43	3.01	2.80	1.58	1.17	3.51	3.58	40.89
1953	4.10	1.44	7.84	3.88	5.47	3.71	3.87	2.44	1.58	1.12	1.46	2.44	35.15
1954	4.16	1.86	2.38	3.78	2.23	2.14	3.82	3.28	4.87	1.33	2.36	3.38	35.53
1955	1.57	7.68	7.03	1.71	6.43	4.06	5.73	3.85	2.43	2.28	2.56	1.86	47.31
1956	3.25	7.06	6.47	4.78	3.70	6.80	6.10	3.59	1.77	1.78	2.32	4.52	52.15
1957	4.45	3.48	2.15	7.86	4.22	5.74	7.76	3.02	3.18	2.70	5.57	5.89	46.62
1958	3.28	1.77	2.26	4.16	5.29	4.61	10.64	4.02	2.60	0.86	3.31	1.15	43.96
1959	4.86	3.18	1.82	2.88	3.20	3.21	4.05	2.18	0.24	3.81	4.49	4.43	38.57
1960	2.50	4.55	1.48	1.65	4.03	11.68	1.84	4.14	5.20	2.50	3.61	1.78	45.08
1961	1.71	3.89	6.18	6.04	6.14	5.12	5.98	2.62	1.50	0.88	3.04	3.89	46.99
1962	4.28	7.24	5.16	2.61	5.88	4.68	4.24	2.71	2.66	4.48	3.82	2.36	50.01
1963	1.47	1.81	6.82	1.61	3.48	3.27	7.18	4.14	0.37	0.33	1.81	0.81	33.10
1964	2.83	2.52	10.06	2.86	1.88	3.95	3.99	1.98	4.91	0.57	2.37	6.18	43.48
1965	2.83	2.82	5.45	3.24	1.20	3.28	3.64	9.82	3.55	2.44	1.02	0.61	32.10
1966	3.98	3.64	0.99	7.16	4.85	1.36	5.74	4.55	4.03	1.44	4.01	4.60	46.38
1967	1.35	2.29	8.03	3.61	6.84	2.85	5.87	3.83	2.87	2.11	4.15	3.99	45.59
1968	1.44	0.71	8.78	3.22	6.87	2.83	4.54	5.27	2.88	2.57	3.23	2.89	43.32
1969	4.26	1.60	1.50	3.83	3.78	4.61	4.37	5.86	0.49	1.93	3.42	4.15	38.50
1970	0.95	3.80	4.72	8.30	3.18	3.81	3.38	2.61	5.71	2.37	2.35	5.51	47.50
1971	0.24	4.72	2.02	2.10	6.14	7.84	7.64	0.88	3.51	0.52	1.71	4.30	44.67
1972	4.10	5.60	4.04	8.75	3.84	3.61	5.58	3.85	4.30	2.71	4.21	6.82	57.61
1973	1.53	1.58	5.08	5.67	8.22	6.06	5.15	3.58	1.40	2.65	6.58	3.42	50.82
1974	6.38	2.24	5.89	3.33	5.52	7.21	4.82	11.18	4.18	1.53	4.08	3.72	60.08
1975	3.66	5.70	10.38	8.17	2.69	2.23	5.60	3.86	6.46	5.09	2.83	4.24	59.11
1976	3.59	4.67	3.72	1.24	3.18	3.34	6.74	1.26	4.23	3.86	0.45	1.22	37.48
1977	2.30	1.03	4.21	3.42	1.51	4.80	4.89	4.83	2.71	3.77	3.85	3.04	40.18
1978	6.38	0.67	2.87	3.15	5.74	1.94	7.80	10.00	3.10	3.20	3.11	8.97	57.73
1979	4.07	2.92	3.22	4.82	4.17	2.80	4.72	6.20	8.85	2.86	4.52	3.81	54.00
1980	1.83	1.17	6.04	2.82	2.27	1.89	5.55	5.10	2.47	2.07	2.02	1.67	34.69
SUM	107.01	87.73	144.80	120.24	126.84	127.64	148.48	118.73	88.37	67.82	98.84	113.44	1370.24
MEAN	3.57	3.26	4.63	4.01	4.23	4.25	4.85	3.86	3.26	2.26	3.30	3.78	45.67
STD	2.06	1.84	2.48	2.11	1.81	2.12	1.85	2.21	1.87	1.20	1.47	2.08	7.79

GREATEST DAILY PRECIPITATION

LEXINGTON WSO

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1951	2.81	0.98	1.19	0.52	0.81	0.83	1.31	1.18	1.89	1.02	1.47	1.47	2.81
1952	0.95	0.78	2.81	0.57	0.84	1.08	0.72	1.31	0.87	0.51	1.05	0.89	2.81
1953	0.77	0.55	2.71	0.80	1.23	2.24	1.01	1.48	1.08	0.81	0.88	0.81	2.71
1954	1.33	1.03	0.75	1.89	0.88	0.62	2.10	1.07	3.08	0.44	0.56	0.88	3.08
1955	0.44	1.58	1.63	0.54	2.33	0.87	2.16	2.06	0.89	0.76	0.83	0.83	2.33
1956	1.88	1.25	2.39	1.13	0.87	1.46	1.21	1.88	0.85	0.58	0.83	1.16	2.39
1957	1.41	0.89	0.48	2.45	2.09	1.98	0.43	2.30	1.12	1.83	2.57	1.30	2.57
1958	1.34	0.58	0.87	1.16	2.02	1.84	2.34	1.86	1.78	0.35	0.87	0.35	2.34
1959	1.37	0.77	0.42	0.81	1.33	1.00	2.38	1.43	0.13	1.68	1.17	0.82	2.38
1960	1.34	1.56	0.30	0.77	1.12	3.89	0.73	1.36	3.05	1.30	1.21	0.44	3.89
1961	0.54	1.32	1.20	1.77	2.80	1.38	0.87	0.88	0.87	0.80	0.87	0.48	2.80
1962	0.89	2.80	1.32	0.53	1.16	1.48	0.83	1.44	0.60	2.39	1.80	0.88	2.80
1963	0.52	0.46	1.42	1.29	1.20	1.00	2.08	0.86	0.13	0.15	0.81	0.27	2.08
1964	0.76	0.52	3.54	0.64	1.02	1.50	1.93	1.01	2.49	0.44	0.90	1.58	3.54
1965	1.02	1.07	1.11	0.68	0.53	1.74	1.11	0.89	0.79	1.19	0.51	0.15	1.74
1966	1.44	1.04	0.41	1.74	1.95	0.50	1.21	1.28	2.21	0.38	1.32	1.53	2.21
1967	0.39	0.70	1.88	1.14	1.93	0.88	1.30	1.23	1.27	1.10	1.51	0.83	1.93
1968	0.42	0.25	1.71	1.89	1.58	0.70	0.83	2.56	1.26	0.88	1.21	0.81	3.56
1969	1.12	0.55	0.56	1.48	1.35	1.55	1.85	2.84	0.50	0.55	1.27	1.42	2.84
1970	0.25	1.23	1.58	2.76	0.80	1.80	1.50	0.69	2.96	0.67	0.88	2.07	2.96
1971	1.13	0.79	0.68	0.62	1.81	2.86	2.01	0.29	1.23	0.18	0.52	1.12	2.86
1972	1.13	1.57	0.89	2.50	0.80	0.84	2.38	1.23	1.70	1.22	1.28	2.87	2.87
1973	0.78	0.66	0.89	1.01	2.30	3.06	1.47	1.33	0.58	0.75	2.45	1.17	3.06
1974	2.67	0.80	2.00	0.80	1.18	1.68	3.11	2.73	0.85	0.81	1.00	0.83	3.11
1975	0.84	2.86	2.45	2.38	0.82	0.81	1.44	1.12	2.12	2.41	0.83	1.03	2.86
1976	0.80	2.81	1.07	0.64	0.75	0.59	2.82	0.40	1.42	0.88	0.13	0.68	2.81
1977	0.59	0.39	1.38	0.88	0.44	0.68	1.76	0.87	0.80	1.40	1.15	1.64	1.76
1978	2.07	0.35	0.88	0.60	1.23	0.67	4.30	2.03	1.75	1.32	1.07	2.93	4.30
1979	1.22	0.76	1.07	1.83	1.07	0.60	0.82	1.31	4.13	0.98	1.78	1.56	4.13
1980	0.43	0.41	0.85	0.58	0.84	0.82	1.44	1.48	1.00	0.67	1.21	0.80	1.48
SUM	32.40	31.40	40.53	36.62	39.08	40.84	49.51	43.07	42.78	28.17	34.25	34.48	83.19
MEAN	1.08	1.05	1.35	1.22	1.30	1.38	1.65	1.44	1.43	0.84	1.14	1.15	2.77
STD	0.80	0.73	0.80	0.68	0.80	0.82	0.83	0.71	0.88	0.58	0.52	0.85	0.87

TOTAL SNOWFALL

LEXINGTON WSO

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1951	8.0	7.8	8.6	1.0	0.0	0.0	0.0	0.0	0.0	99999	2.8	4.2	33.5
1952	1.5	1.8	0.1	99999	99999	99999	0.0	0.0	0.0	99999	2.1	2.1	7.6
1953	5.1	99999	2.2	0.1	0.0	99999	99999	99999	0.0	0.0	1.2	3.6	12.2
1954	4.8	1.7	99999	0.0	0.0	0.0	0.0	99999	0.0	0.1	2.2	1.6	10.4
1955	8.1	4.6	0.3	0.0	99999	0.0	0.0	0.0	0.0	0.0	0.2	2.5	15.7
1956	5.3	0.3	1.2	0.2	0.0	0.0	0.0	0.0	0.0	0.0	1.3	0.1	8.4
1957	1.3	99999	4.6	99999	0.0	0.0	0.0	0.0	0.0	99999	0.6	1.5	8.0
1958	2.3	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.4	99999	14.9
1959	3.3	99999	0.4	0.4	0.0	0.0	0.0	0.0	0.0	0.0	0.8	1.8	6.7
1960	0.3	16.4	17.7	99999	0.0	0.0	0.0	0.0	0.0	0.0	99999	5.0	35.4
1961	6.2	4.8	99999	2.9	0.0	0.0	0.0	0.0	0.0	0.0	1.2	5.1	20.0
1962	6.1	0.8	2.4	0.8	0.0	0.0	0.0	0.0	0.0	99999	99999	2.4	12.5
1963	6.8	8.2	99999	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	8.2	24.2
1964	10.8	12.0	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	24.5
1965	8.9	1.8	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99999	1.3	15.8
1966	12.4	6.5	1.2	99999	0.0	0.0	0.0	0.0	0.0	0.0	8.4	0.3	28.8
1967	1.5	11.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	99999	10.7	27.6
1968	12.1	3.1	8.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	1.5	25.3
1969	1.9	6.1	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	5.2	16.3
1970	8.4	8.9	6.2	99999	0.0	0.0	0.0	0.0	0.0	0.0	99999	1.2	25.7
1971	4.0	8.1	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	99999	18.1
1972	1.4	8.3	2.4	99999	0.0	0.0	0.0	0.0	0.0	0.2	1.7	0.4	12.4
1973	1.0	1.4	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.3	7.3
1974	99999	3.6	0.7	99999	0.0	0.0	0.0	0.0	0.0	99999	1.4	2.8	8.5
1975	4.6	1.5	5.6	99999	0.0								

LATITUDE 38 02N
LONGITUDE 84 36W

CLIMATOLOGICAL SUMMARY

MEANS AND EXTREMES FOR PERIOD 1951-1980

LEXINGTON KENTUCKY
ELEVATION 970 FEET

MONTH	TEMPERATURE (°F)											PRECIPITATION TOTALS (INCHES)																
	MEANS			EXTREMES				MEAN NUMBER OF DAYS				SNOW, SLEET			MEAN NUMBER OF DAYS													
	DAILY MAXIMUM	DAILY MINIMUM	MONTHLY	RECORD HIGHEST	YEAR	RECORD LOWEST	YEAR	DAY	MAX.	MIN.	90° AND ABOVE	75° AND ABOVE	50° AND ABOVE	MEAN	GREATEST MONTHLY	YEAR	GREATEST DAILY	YEAR	DAY	MEAN	MAXIMUM MONTHLY	YEAR	GREATEST DEPTH	YEAR	DAY	.10 or MORE	.50 or MORE	1.00 or MORE
JAN	39.8	23.1	31.5	71	72	24	-21	83	24	0	10	24	2	3.37	11.15	51	2.67	74	10	6.6	21.9	78	14.0	76	22	7	3	1
FEB	43.7	25.4	34.6	75	77	26	-15	51	2	0	6	21	1	3.28	7.88	55	2.91	76	17	5.1	16.4	80	9.0	66	1	7	2	1
MAR	53.7	34.1	43.9	82	77	30	-2	60	8	0	1	14	0	4.83	10.38	75	3.54	64	4	3.2	17.7	60	12.0	60	12	9	3	1
APR	65.0	44.2	55.0	86	62	30	22	72	9	0	0	4	0	4.01	9.30	70	2.76	70	23	0.2	2.9	61	2.0	61	1	6	3	1
MAY	74.8	53.5	64.2	92	62	18	26	66	10	1	0	0	0	4.23	8.22	73	2.80	61	7	0.0								
JUN	82.6	61.8	72.2	101	54	26	39	66	1	4	0	0	0	4.25	11.68	60	3.89	60	23	0.0								
JUL	85.9	65.9	76.0	103	54	14	47	72	7	7	0	0	0	4.85	10.64	56	4.30	78	30	0.0								
AUG	85.0	64.7	74.9	98	53	31	42	65	29	6	0	0	0	3.96	11.18	74	3.56	68	14	0.0								
SEP	79.3	58.1	68.7	103	54	3	35	65	25	3	0	0	0	3.28	9.69	79	4.13	79	21	0.0								
OCT	67.6	45.9	56.8	91	59	4	20	76	28	0	0	2	0	2.26	5.09	75	2.41	75	17	0.0	0.2	72						
NOV	54.1	35.6	44.9	81	61	2	4	76	30	0	1	12	0	3.30	6.87	51	2.57	57	18	1.2	8.4	86	5.0	66	4	6	2	1
DEC	44.4	27.8	36.1	72	71	10	-6	82	13	0	5	21	0	3.78	9.97	78	2.93	76	8	2.4	10.7	87	5.0	63	25	7	3	1
YR	64.7	45.0	54.9	103	54	5	-21	63	24	22	88	3	45.67	11.69	60	4.30	78	30	18.7	21.9	78	14.0	76	22	87	31	11	

HIGHEST TEMPERATURE

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1951	88	86	85	85	89	95	96	87	84	89	79	72	97
1952	71	64	78	84	92	88	103	94	84	89	76	68	103
1953	65	60	73	82	82	100	88	88	101	81	74	63	101
1954	58	74	73	85	91	101	103	87	103	89	72	65	103
1955	62	69	73	86	85	88	94	94	84	79	78	66	94
1956	58	64	76	84	89	91	95	84	93	86	77	69	95
1957	63	66	72	86	89	94	95	96	96	78	68	62	96
1958	56	62	57	80	85	90	81	80	80	81	80	60	96
1959	67	66	76	81	89	85	94	95	90	81	77	65	95
1960	67	59	75	86	87	90	91	95	95	81	75	67	95
1961	58	68	70	79	83	90	81	90	91	84	81	67	91
1962	69	71	75	86	92	86	92	86	90	80	63	66	98
1963	60	60	78	86	88	91	88	90	86	86	73	62	91
1964	66	57	73	82	90	93	93	98	96	79	74	68	98
1965	64	66	66	82	89	88	97	96	89	82	72	66	97
1966	58	63	79	78	85	87	98	88	88	79	70	68	98
1967	71	63	81	82	86	92	88	88	87	81	65	71	92
1968	58	63	78	78	82	91	93	93	87	83	77	60	93
1969	58	55	74	82	89	92	94	91	85	86	63	52	94
1970	65	64	67	84	88	91	97	91	90	78	68	70	97
1971	60	69	73	80	83	93	91	92	91	87	80	72	93
1972	71	75	78	79	87	88	93	91	89	73	76	68	93
1973	67	63	61	81	80	90	91	83	83	64	72	66	93
1974	66	66	78	82	86	88	88	88	84	79	77	64	98
1975	69	67	77	82	88	91	93	91	93	83	77	65	93
1976	57	73	81	84	84	88	82	86	85	78	64	61	92
1977	42	75	82	86	90	89	94	91	91	78	79	63	94
1978	58	38	80	82	86	94	92	91	90	78	74	62	94
1979	57	61	74	80	86	90	89	92	87	83	72	67	92
1980	59	62	70	81	86	91	100	93	90	85	74	66	100
SUM	1868	1834	2241	2478	2616	2762	2814	2786	2732	2483	2200	1961	2851
MEAN	62	64	75	83	87	92	94	93	91	83	73	65	95
STD	6	7	5	3	3	3	4	3	4	4	5	4	4

MEAN MONTHLY TEMPERATURE

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1951	34.8	35.4	41.8	51.7	65.3	73.4	77.4	76.5	67.4	59.1	38.4	37.6	54.9
1952	38.5	38.9	44.6	54.7	65.2	78.8	79.7	76.0	68.4	51.1	45.9	38.3	56.7
1953	38.7	39.4	46.7	51.1	67.9	77.1	77.3	76.3	69.8	61.8	46.3	35.0	57.4
1954	35.3	42.9	42.8	60.6	60.1	75.2	79.7	76.4	73.6	58.0	44.6	35.2	57.1
1955	32.1	36.4	46.5	59.0	66.2	67.8	78.8	77.7	72.6	56.9	41.7	33.6	55.8
1956	31.5	40.6	43.6	51.7	64.6	72.5	75.2	74.4	65.9	61.0	43.2	44.4	55.7
1957	31.4	40.3	43.1	57.8	64.9	73.8	76.9	75.4	69.4	52.9	44.5	39.8	55.9
1958	30.5	35.8	38.6	54.2	63.8	69.4	76.4	74.1	67.9	56.5	47.2	28.8	52.8
1959	31.1	37.4	42.4	55.8	68.5	72.7	77.3	78.1	71.5	58.6	42.3	38.5	56.2
1960	35.9	31.0	29.7	58.1	61.6	71.4	74.7	76.7	70.3	58.7	45.5	28.8	53.6
1961	27.8	40.7	47.0	48.7	59.3	70.1	74.1	74.8	74.1	59.1	45.3	35.5	54.5
1962	29.9	38.8	41.7	52.3	71.6	72.9	75.4	75.6	65.0	58.8	44.1	30.8	54.7
1963	26.6	28.6	48.9	57.3	62.8	72.0	73.6	72.5	68.6	63.9	46.8	25.5	53.8
1964	35.0	32.0	45.3	58.3	66.9	74.3	75.2	75.0	68.2	52.7	48.0	37.4	55.7
1965	32.2	34.3	37.9	55.8	68.9	71.3	73.7	74.5	68.8	53.9	46.2	39.6	54.8
1966	25.3	33.3	44.6	52.6	60.5	71.6	77.4	72.6	65.3	54.2	45.7	35.5	53.2
1967	37.3	30.2	50.0	58.8	62.0	72.1	72.5	70.6	64.9	56.1	40.7	39.0	54.5
1968	29.6	28.0	46.0	55.1	62.1	72.0	75.9	75.5	67.8	56.6	46.4	34.6	54.1
1969	32.1	36.2	38.9	56.3	65.5	72.8	77.8	74.7	67.8	57.9	42.8	32.7	54.6
1970	25.8	32.4	40.5	57.2	66.5	71.3	74.1	74.6	72.7	57.7	43.6	38.3	54.6
1971	29.7	34.8	40.3	52.0	59.2	73.7	73.9	73.9	72.5	64.7	47.2	45.7	55.6
1972	35.2	33.2	42.2	62.7	65.2	75.8	75.8	75.8	65.2	57.0	44.5	40.8	54.2
1973	35.1	35.2	53.8	52.8	60.1	73.6	75.8	74.9	72.2	60.8	48.5	36.4	56.6
1974	40.7	37.4	48.5	55.8	63.6	67.2	74.4	73.3	62.6	54.3	45.7	37.8	55.1
1975	37.3	38.5	41.4	52.2	67.4	73.5	76.4	77.5	63.4	57.4	48.5	35.8	55.9
1976	28.4	43.9	50.0	54.5	60.6	71.1	73.0	71.2	64.1	49.7	37.1	30.9	52.8
1977	17.8	34.9	50.8	59.6	69.8	72.3	78.4	75.7	72.2	58.1	48.0	33.4	55.8
1978	21.6	21.3	40.4	57.0	61.1	73.1	76.0	74.1	70.9	53.7	48.4	37.8	53.0
1979	23.8	26.9	48.0	53.0	63.0	70.0	74.0	74.0	68.0	55.0	45.0	37.0	53.0
1980	32.4	28.3	41.5	52.5	64.8	71.2	78.9	78.2	70.8	53.7	43.6	36.0	54.3
SUM	844.5	1039.0	1317.6	1650.7	1827.0	2185.9	2279.1	2247.0	2060.4	1703.0	1348.7	1082.7	1647.1
MEAN	31.5	34.6	43.8	55.0	64.2	72.2	76.0	74.8	68.7	56.8	44.8	36.1	54.9
STD	5.4	5.4	4.8	3.0	3.3	2.5	2.0	1.8	3.1	3.6	2.9	4.2	1.3

LOWEST TEMPERATURE

YR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1951	5	-15	20	27	40	53	51	54	39	35	12	0	-15
1952	4	20	21	30	42	55	56	50	44	24	18	17	4
1953	14	16	23	28	46	50	55	54	42	34	20	0	0
1954	-3	15	13	27	32	47	56	55	47	24	22	14	-3
1955	1	-4	14	27	40	49	65	58	46	29	10	5	-4
1956	11	17	19	28	37	46	56	51	41	33	12	22	11
1957	0	16	18	24	31	37	46	52	43	27	18	4	0
1958	9	-6	23	29	41	49	63						