

2005

LOCAL CLIMATOLOGICAL DATA
ANNUAL SUMMARY WITH COMPARATIVE DATA



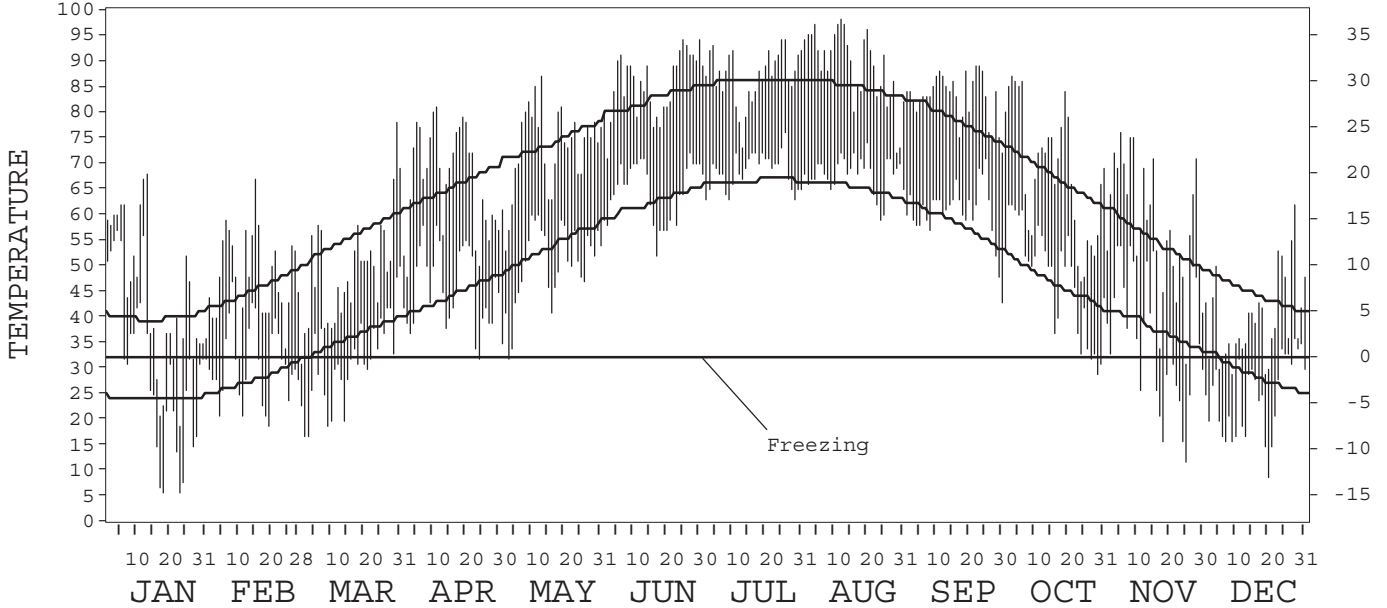
ISSN 0198-2230

LEXINGTON,
KENTUCKY (LEX)

Daily Data

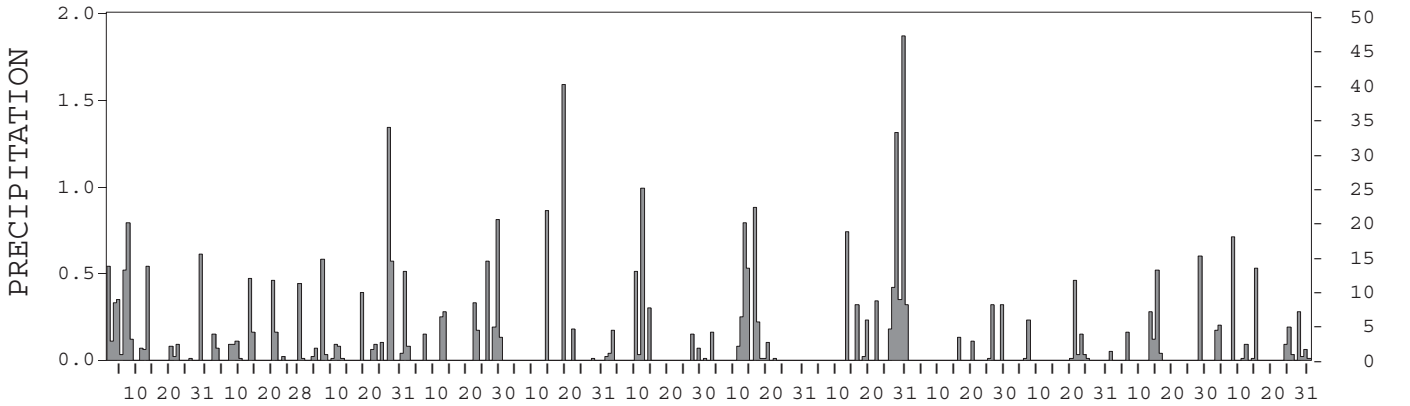
Fahrenheit

Celsius



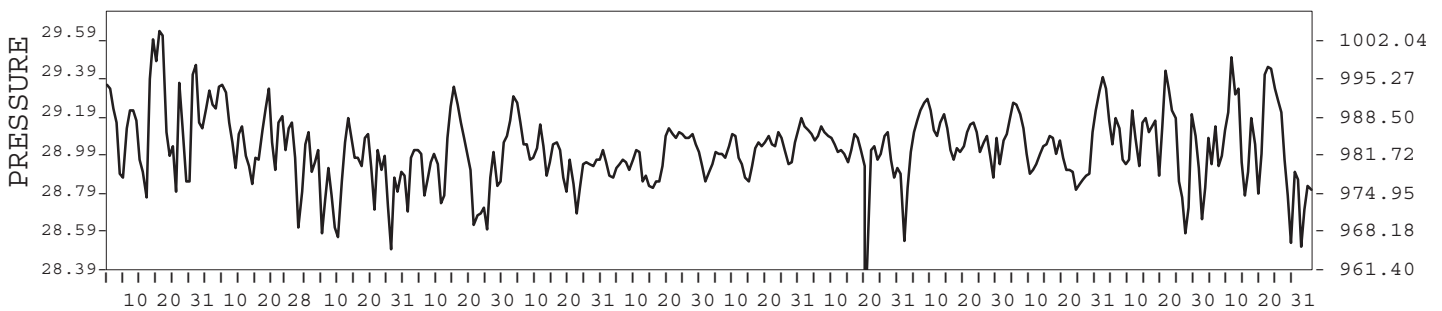
Inches

Millimeters



Inches of Mercury

Hectopascals



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Thomas R. Karl

NATIONAL
OCEANIC AND
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NATIONAL
ENVIRONMENTAL SATELLITE, DATA,
AND INFORMATION SERVICE

NATIONAL
CLIMATIC DATA CENTER
ASHEVILLE, NORTH CAROLINA

DIRECTOR
NATIONAL CLIMATIC DATA CENTER

METEOROLOGICAL DATA FOR 2005

LEXINGTON, KY (LEX)

LATITUDE: 38° 02' 27" N LONGITUDE: 84° 36' 21" W ELEVATION (FT): GRND: 977 BARO: 980 TIME ZONE: EASTERN (UTC + 5) WBAN: 93820

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	44.2	48.1	49.6	66.8	72.9	85.4	87.2	89.0	82.8	68.4	57.9	40.0	66.0	
	HIGHEST DAILY MAXIMUM	68	67	78	81	87	94	94	98	89	87	76	62	98	
	DATE OF OCCURRENCE	13	15	30	11	13	30+	26+	12	23+	03	05	28	AUG 12	
	MEAN DAILY MINIMUM	30.7	31.0	31.6	45.7	50.0	64.5	68.5	67.9	60.5	47.7	36.2	24.7	46.6	
	LOWEST DAILY MINIMUM	6	19	17	32	32	52	63	59	43	29	12	9	6	
	DATE OF OCCURRENCE	23+	19	3 +	24	03	17	29+	24	30	29	25	20	JAN 23+	
	AVERAGE DRY BULB	37.5	39.6	40.6	56.3	61.5	75.0	77.9	78.5	71.7	58.1	47.1	32.4	56.4	
	MEAN WET BULB	35.3	37.1	36.7	49.9	54.5	66.4	69.8		64.2	52.0		29.8		
	MEAN DEW POINT	31.4	33.3	30.8	43.2	48.1	61.6	65.7		59.5	47.3		25.0		
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	9	11	17	0	0	0	0	0	37
	MAXIMUM ≤ 32°	6	1	1	0	0	0	0	0	0	0	1	6	15	
MINIMUM ≤ 32°	20	19	18	1	1	0	0	0	0	3	12	25	99		
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0		
H/C	HEATING DEGREE DAYS	844	703	746	264	143	0	0	0	10	258	531	1004	4503	
	COOLING DEGREE DAYS	0	0	0	10	41	307	403	426	217	52	0	0	1456	
RH	MEAN (PERCENT)	80	80	71	65	63	66	71	68	68	71	60	75	70	
	HOUR 01 LST	81	85	78	68	74	75	82	78	79	79	63	79	77	
	HOUR 07 LST	85	88	83	74	81	81	85	85	86	86	71	83	82	
	HOUR 13 LST	77	72	63	57	47	51	56	53	51	58	48	67	58	
	HOUR 19 LST	80	77	64	60	51	57	61	59	60	65	56	72	64	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	3	4	0	0	0	1	1	1	1	1	0	13	
	THUNDERSTORMS	0	1	2	0	2	3	3	4	0	1	1	0	17	
CLOUDINESS	SUNRISE-SUNSET: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
	SATELLITE (> 12,000 FT.)														
	MIDNIGHT-MIDNIGHT: (OKTAS)														
	CEILOMETER (≤ 12,000 FT.)														
SATELLITE (> 12,000 FT.)															
NUMBER OF DAYS WITH:															
CLEAR															
PARTLY CLOUDY															
CLOUDY															
PR	MEAN STATION PRESS. (IN.)	29.15	29.07	28.87	28.90	28.97	28.95	28.99		29.06	29.02	29.01	29.01		
	MEAN SEA-LEVEL PRESS. (IN.)	30.22	30.14	29.92	29.93	30.01	29.97	30.01		30.09	30.07		30.08		
WINDS	RESULTANT SPEED (MPH)	3.0	2.2	1.7	1.9	0.8	1.1	1.3		0.7	0.6	6.2			
	RES. DIR. (TENS OF DEGS.)	22	23	28	25	28	15	23		16	32	22			
	MEAN SPEED (MPH)	9.8	8.3	8.9	8.6	6.8	7.0	7.0	6.3	5.3	5.9	10.1	8.6	7.7	
	PREVAIL. DIR. (TENS OF DEGS.)	19	19	04	21	06	19	22	06	07	31	18	20	19	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	36	25	31	35	25	32	26	38	29	21	39	31	39	
	DIR. (TENS OF DEGS.)	18	19	23	33	32	16	22	14	32	31	17	26	17	
	DATE OF OCCURRENCE	13	14	07	02	28	10	12	28	29	24	28	08	NOV 28	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	46	35	38	44	30	41	32	47	37	28	54	39	54	
DIR. (TENS OF DEGS.)	18	25	22	33	32	26	22	14	31	30	18	26	18		
DATE OF OCCURRENCE	13	14	07	02	28+	14	12	28	29	24	28	08	NOV 28		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	4.27	2.23	3.49	3.47	2.64	2.28	3.05	6.10	0.89	0.93	1.77	2.40	33.52	
	GREATEST 24-HOUR (IN.)	0.91	0.51	1.83	0.83	1.59	0.99	1.00	2.06	0.33	0.49	0.60	0.71	2.06	
	DATE OF OCCURRENCE	07-08	20-21	27-28	29-30	19	12	16-17	30-31	25-26	21-22	28	08	AUG 30-31	
	NUMBER OF DAYS WITH:														
PRECIPITATION ≥ 0.01	16	12	16	11	4	9	12	11	5	8	7	14	125		
PRECIPITATION ≥ 0.10	9	7	5	10	3	5	7	10	4	3	5	6	74		
PRECIPITATION ≥ 1.00	0	0	1	0	1	0	0	2	0	0	0	0	4		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)	2.3	0.4	2.8	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.5	6.0	
	GREATEST 24-HOUR (IN.)	1.3	0.2	1.0	T	0.0	0.0	0.0	0.0	0.0	0.0	T	0.5	1.3	
	DATE OF OCCURRENCE	22	23+	12	24							22	12	JAN 22	
	MAXIMUM SNOW DEPTH (IN.)	1	T	1	0	0	0	0	0	0	0	0	T	1	
	DATE OF OCCURRENCE	22+	10	14+								12+		MAR 14+	
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0	1	0	1	0	0	0	0	0	0	0	0	0	2		

NORMALS, MEANS, AND EXTREMES

LEXINGTON, KY (LEX)

LATITUDE: 38° 02' 27" N LONGITUDE: 84° 36' 21" W ELEVATION (FT): GRND: 977 BARO: 980 TIME ZONE: EASTERN (UTC + 5) WBAN: 93820

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	39.9	45.2	55.3	65.1	74.0	82.3	85.9	84.6	78.1	66.9	54.5	44.3	64.7
	MEAN DAILY MAXIMUM	58	40.5	45.2	54.2	65.5	74.6	82.7	86.0	85.1	78.9	67.6	54.6	44.2	64.9
	HIGHEST DAILY MAXIMUM	61	76	80	83	88	92	101	103	103	103	91	83	75	103
	YEAR OF OCCURRENCE		1950	1996	1945	1962	1987	1988	1999	1983	1954	1959	1987	1982	JUL 1999
	MEAN OF EXTREME MAXS.	58	63.2	66.4	75.4	82.1	86.6	91.7	93.7	93.3	90.3	82.5	74.0	64.7	80.3
	NORMAL DAILY MINIMUM	30	24.1	27.7	35.9	44.1	53.6	62.2	66.4	64.9	57.9	46.4	37.3	28.4	45.7
	MEAN DAILY MINIMUM	58	24.0	27.1	34.5	44.2	53.7	62.0	66.3	64.7	57.8	46.4	36.4	27.8	45.4
	LOWEST DAILY MINIMUM	61	-21	-15	-2	18	26	39	47	42	34	20	-3	-19	-21
	YEAR OF OCCURRENCE		1963	1951	1960	1982	1966	1966	1972	1965	1993	1976	1950	1989	JAN 1963
	MEAN OF EXTREME MINS.	58	0.9	5.3	16.6	27.8	37.7	48.8	55.6	53.5	42.1	30.1	18.9	7.6	28.7
	NORMAL DRY BULB	30	32.0	36.4	45.6	54.6	63.8	72.2	76.1	74.8	68.0	56.6	45.9	36.3	55.2
	MEAN DRY BULB	58	32.4	36.0	44.3	54.9	64.2	72.3	76.3	75.0	68.4	56.9	45.5	36.1	55.2
	MEAN WET BULB	21	30.3	33.8	39.8	49.0	58.3	66.0	69.5	68.2	61.8	51.4	42.2	33.9	50.4
	MEAN DEW POINT	21	25.5	28.0	33.2	42.5	53.8	62.3	66.1	64.7	57.7	46.5	37.1	29.0	45.5
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.0	0.2	3.0	8.1	6.4	2.0	0.0	0.0	0.0	19.7	
MAXIMUM ≤ 32°	30	8.9	5.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	5.1	20.9	
MINIMUM ≤ 32°	30	23.9	18.9	13.0	3.6	0.1	0.0	0.0	0.0	0.0	2.1	10.9	19.9	92.4	
MINIMUM ≤ 0°	30	1.3	0.5	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.4	2.3	
H/C	NORMAL HEATING DEG. DAYS	30	1026	816	616	332	119	13	1	2	53	284	574	877	4713
	NORMAL COOLING DEG. DAYS	30	0	0	3	16	80	228	350	307	147	21	2	0	1154
RH	NORMAL (PERCENT)	30	75	71	67	64	70	72	73	74	74	71	72	76	72
	HOUR 01 LST	30	78	76	72	71	79	83	84	85	84	79	76	78	79
	HOUR 07 LST	30	81	80	78	76	82	84	86	88	89	86	81	82	83
	HOUR 13 LST	30	69	64	58	55	58	59	59	60	59	57	63	69	61
	HOUR 19 LST	30	72	67	60	57	62	64	64	65	67	66	69	73	66
S	PERCENT POSSIBLE SUNSHINE														
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	61	2.4	2.0	1.4	0.8	1.1	1.1	1.5	2.1	2.1	1.9	1.4	2.0	19.8
	THUNDERSTORMS	61	0.8	0.9	2.7	3.6	6.3	7.5	8.3	6.2	2.9	1.4	1.0	0.4	42.0
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	52	5.9	5.7	5.6	5.3	5.0	4.8	4.6	4.3	4.2	4.2	5.3	5.7	5.0
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.8	5.5	5.3	4.9	4.7	4.6	4.3	4.0	4.1	4.1	5.1	5.6	4.8
	MEAN NO. DAYS WITH:														
CLEAR	52	5.5	5.7	5.8	6.3	7.0	6.9	8.0	9.5	10.5	11.6	6.7	5.8	89.3	
PARTLY CLOUDY	52	5.8	5.6	7.3	8.5	10.0	11.8	12.3	11.9	8.4	7.2	6.7	5.7	101.2	
CLOUDY	52	19.7	17.0	17.9	15.2	14.0	11.3	10.7	9.6	11.1	12.1	16.6	19.5	174.7	
PR	MEAN STATION PRESSURE (IN)	33	29.05	29.02	28.96	28.94	28.94	28.96	28.99	29.01	29.03	29.05	29.04	29.04	29.00
	MEAN SEA-LEVEL PRES. (IN)	20	30.13	30.11	30.04	29.98	29.99	30.01	30.01	30.01	30.03	30.07	30.10	30.12	30.06
WINDS	MEAN SPEED (MPH)	50	10.7	10.4	10.8	10.4	8.5	7.8	7.1	6.8	7.5	8.0	9.9	10.2	9.0
	PREVAIL. DIR (TENS OF DEGS)	34	18	18	18	18	18	18	22	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	47	40	35	36	37	44	37	38	41	40	45	39	47
	DIR. (TENS OF DEGS)		18	24	21	31	30	30	31	14	29	17	27	22	18
	YEAR OF OCCURRENCE		1999	1999	2002	2002	2004	1998	1999	2005	2002	2002	2002	2001	JAN 1999
MAXIMUM 5-SECOND:															
SPEED (MPH)	9	56	53	46	48	47	56	51	47	49	48	56	49	56	
DIR. (TENS OF DEGS)		19	23	21	20	19	30	32	14	28	16	24	23	24	
YEAR OF OCCURRENCE		1999	1999	1998	1999	2001	1998	1999	2005	2002	2002	2002	2001	NOV 2002	
PRECIPITATION	NORMAL (IN)	30	3.34	3.27	4.41	3.67	4.78	4.58	4.81	3.77	3.11	2.70	3.44	4.03	45.91
	MAXIMUM MONTHLY (IN)	61	16.65	10.12	13.82	9.30	10.91	11.69	10.64	11.18	9.69	6.97	7.32	10.17	16.65
	YEAR OF OCCURRENCE		1950	1989	1997	1970	2004	1960	1958	1974	1979	2004	2004	1990	JAN 1950
	MINIMUM MONTHLY (IN)	61	0.37	0.67	0.99	0.79	1.20	0.61	1.26	0.29	0.24	0.33	0.45	0.61	0.24
	YEAR OF OCCURRENCE		1981	1978	1966	1946	1965	1988	1995	1998	1959	1963	1976	1965	SEP 1959
	MAXIMUM IN 24 HOURS (IN)	61	2.98	3.79	5.56	4.39	3.52	5.88	4.73	3.56	4.35	3.61	2.71	3.77	5.88
	YEAR OF OCCURRENCE		1951	1989	1997	1948	2004	1960	1978	1968	1979	2004	1988	1978	JUN 1960
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	12.3	11.3	12.8	12.1	12.2	10.5	10.6	8.9	8.8	8.3	10.9	12.1	130.8	
PRECIPITATION ≥ 1.00	30	0.8	0.7	0.9	0.7	1.0	0.9	1.6	1.1	0.7	0.6	0.9	0.8	10.7	
SNOWFALL	NORMAL (IN)	30	5.9	4.5	2.3	0.4	0.*	0.0	0.0	0.0	0.*	0.6	2.0	15.7	
	MAXIMUM MONTHLY (IN)	55	21.9	16.4	17.7	5.9	T	T	T	T	0.0	0.2	9.7	10.7	21.9
	YEAR OF OCCURRENCE		1978	1960	1960	1987	1995	1993	1989	1989		1972	1950	1967	JAN 1978
	MAXIMUM IN 24 HOURS (IN)	55	10.2	7.3	9.5	4.9	T	T	T	T	0.0	0.2	7.5	7.8	10.2
	YEAR OF OCCURRENCE		1994	1971	1947	1987	1995	1993	1989	1989		1972	1966	1967	JAN 1994
	MAXIMUM SNOW DEPTH (IN)	51	14	9	12	2	0	0	0	0	0	0	8	5	14
	YEAR OF OCCURRENCE		1978	1985	1960	1961							1950	1984	JAN 1978
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.5	1.4	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	0.5	4.2	

PRECIPITATION (inches) 2005 LEXINGTON, KY (LEX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	3.59	4.67	3.72	1.24	3.16	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	4.59	4.83	2.71	3.77	3.95	3.04	40.16
1978	6.38	0.67	2.87	3.15	5.74	1.94	7.60	10.00	3.10	3.20	3.11	9.97	57.73
1979	4.07	2.92	3.22	4.92	4.17	2.80	4.72	6.20	9.69	2.96	4.52	3.81	54.00
1980	1.63	1.17	6.04	2.82	2.27	1.88	5.55	5.10	2.47	2.07	2.02	1.67	34.69
1981	0.37	4.76	1.76	4.88	5.10	2.29	5.27	2.72	1.97	2.44	1.99	3.10	36.65
1982	5.48	2.16	3.89	2.19	2.51	3.95	3.82	4.01	1.21	1.56	3.45	4.53	38.76
1983	1.29	1.61	1.48	5.18	10.84	2.18	2.41	1.26	1.33	6.13	3.59	3.46	40.76
1984	1.64	3.31	4.09	5.02	5.34	2.20	4.80	0.56	1.36	3.87	5.19	4.89	42.27
1985	1.91	1.11	3.69	2.34	4.34	4.98	3.37	3.76	1.93	4.23	4.96	1.13	37.75
1986	0.53	2.48	2.43	1.65	3.24	1.29	5.64	2.67	3.08	2.06	6.49	3.30	34.86
1987	1.30	3.62	3.13	2.23	1.80	6.59	3.48	4.18	0.91	0.55	2.72	6.17	36.68
1988	2.94	3.06	2.34	2.93	3.02	0.61	3.51	4.18	5.96	1.34	5.39	3.62	38.90
1989	3.99	10.12	6.08	2.60	5.39	4.26	4.20	3.98	4.98	3.38	2.38	1.80	53.16
1990	4.17	3.43	1.89	2.37	5.41	4.59	6.45	4.36	2.12	4.49	2.69	10.17	52.14
1991	2.57	3.91	5.80	2.70	3.95	2.91	3.60	3.08	2.09	2.70	1.27	7.22	41.80
1992	3.63	1.84	4.70	2.11	4.68	7.74	10.27	4.73	3.44	0.65	3.50	1.80	49.09
1993	2.42	4.15	3.77	3.53	2.43	5.46	3.38	4.52	3.00	4.19	5.42	3.31	45.58
1994	4.50	4.42	6.83	5.18	4.86	3.84	2.29	3.72	1.19	2.11	2.89	3.87	45.70
1995	5.01	2.26	3.32	3.90	8.97	8.17	1.26	4.89	2.76	3.64	3.19	2.71	50.08
1996	4.51	1.86	4.62	4.84	8.98	5.10	5.30	2.30	4.15	2.10	4.79	5.26	53.81
1997	3.70	3.97	13.82	1.89	8.85	9.54	3.29	2.58	2.38	2.37	4.06	2.68	59.13
1998	3.99	2.58	3.40	6.20	6.14	10.81	7.98	0.29	0.61	2.41	1.96	3.23	49.60
1999	5.77	2.38	3.80	2.23	1.31	5.38	2.47	0.99	1.39	1.63	1.82	2.70	31.87
2000	3.40	4.81	3.89	4.52	2.99	3.82	3.36	3.50	5.32	0.74	2.00	3.75	42.10
2001	1.35	3.56	3.27	1.14	6.00	2.58	5.78	2.93	2.46	3.71	3.30	2.89	38.97
2002	2.39	1.37	7.58	5.28	4.29	2.69	1.75	2.92	5.44	6.53	4.99	4.08	49.31
2003	0.95	4.85	2.44	4.10	8.35	6.41	5.08	4.53	5.07	1.75	5.93	3.93	53.39
2004	3.32	1.49	4.31	3.73	10.91	5.05	8.68	4.06	3.22	6.97	7.32	3.38	62.44
2005	4.27	2.23	3.49	3.47	2.64	2.28	3.05	6.10	0.89	0.93	1.77	2.40	33.52
POR= 122 YRS	3.94	3.25	4.52	3.67	4.16	4.25	4.45	3.49	2.86	2.47	3.28	3.71	44.05

WBAN : 93820

AVERAGE TEMPERATURE (°F) 2005 LEXINGTON, KY (LEX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	52.9
1977	17.8	34.9	50.8	59.6	69.8	72.3	78.4	75.7	72.2	56.1	49.0	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	37.9	53.0
1979	23.6	26.9	48.0	53.8	63.1	70.9	74.0	74.0	66.9	55.6	45.7	37.9	53.4
1980	32.4	28.3	41.5	52.5	64.8	71.2	78.8	78.2	70.6	53.7	43.6	36.0	54.3
1981	27.5	37.0	42.6	59.6	60.4	73.8	75.8	73.4	65.8	55.6	45.9	33.0	54.2
1982	28.2	34.9	47.1	50.6	69.8	68.5	77.1	72.9	65.6	58.3	48.4	44.2	55.5
1983	33.8	37.2	46.3	50.8	60.7	72.8	79.8	80.5	70.2	59.0	46.5	28.4	55.5
1984	27.6	41.2	39.7	53.1	60.6	76.0	72.9	74.9	66.5	63.5	41.8	45.4	55.3
1985	23.8	30.5	48.5	58.5	64.7	70.3	75.1	72.8	67.6	60.5	53.0	29.6	54.6
1986	33.2	38.6	46.8	57.3	65.5	74.2	78.6	72.9	71.0	58.0	44.9	35.7	56.4
1987	31.9	38.0	46.8	53.7	70.3	75.0	77.1	77.5	70.0	52.0	50.0	38.9	56.8
1988	29.8	33.7	44.8	54.2	64.5	74.3	79.1	77.9	67.8	49.6	46.1	36.5	54.9
1989	40.5	33.1	47.3	54.2	60.6	71.6	76.5	74.1	67.6	57.0	45.0	23.0	54.2
1990	41.6	43.1	48.9	53.2	61.6	72.2	75.3	73.8	68.5	56.4	49.9	40.4	57.1
1991	33.9	39.1	47.4	58.1	70.5	74.3	77.6	75.8	68.8	58.7	43.4	40.1	57.3
1992	35.2	41.3	45.4	56.1	62.0	69.4	75.6	70.9	67.0	55.8	45.9	37.0	55.1
1993	37.4	33.1	42.0	52.7	65.0	72.1	80.1	76.5	66.0	55.1	44.6	35.0	55.0
1994	25.2	36.8	43.6	58.1	60.2	75.1	76.8	73.7	66.2	57.8	50.6	41.2	55.4
1995	33.9	33.5	47.2	55.5	63.3	72.8	77.3	79.5	66.5	56.9	39.7	33.0	54.9
1996	31.0	35.7	39.1	50.9	65.6	72.1	73.1	73.6	66.3	56.4	39.8	39.5	53.6
1997	31.6	40.8	46.2	49.1	58.0	69.3	76.1	72.7	66.6	56.1	41.6	35.6	53.6
1998	40.7	41.1	45.8	53.7	67.5	72.7	74.5	76.2	74.1	57.9	47.4	39.7	57.6
1999	36.2	40.2	40.3	56.5	65.3	73.5	79.6	75.7	68.8	56.7	50.3	37.3	56.7
2000	31.9	42.7	48.3	53.3	66.8	73.5	73.8	73.7	66.3	59.4	43.5	25.1	54.9
2001	31.1	39.9	40.6	59.7	66.5	71.3	75.3	76.1	66.1	56.7	52.0	40.9	56.4
2002	37.8	37.7	44.6	57.9	61.2	74.7	79.1	78.1	72.1	56.0	42.6	35.6	56.5
2003	26.1	32.0	48.2	56.9	63.6	69.0	75.1	75.7	65.1	56.2	49.5	35.5	54.4
2004	30.4	36.1	47.8	55.1	68.8	71.4	73.3	70.7	68.3	58.9	49.2	36.1	55.5
2005	37.5	39.6	40.6	56.3	61.5	75.0	77.9	78.5	71.7	58.1	47.1	32.4	56.4
POR= 122 YRS	33.0	35.4	44.1	54.4	64.1	72.7	76.2	74.8	69.0	57.2	45.2	35.9	55.2

HEATING DEGREE DAYS (base 65°F) 2005 LEXINGTON, KY (LEX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	1	4	64	474	829	1050	1457	836	444	208	52	19	5438
1977-78	0	0	6	277	498	972	1338	1219	755	254	179	6	5504
1978-79	0	0	20	348	492	834	1277	1061	522	337	110	15	5016
1979-80	0	5	40	307	574	833	1005	1057	721	371	88	17	5018
1980-81	0	0	23	358	633	892	1156	777	687	182	180	0	4888
1981-82	0	0	77	286	568	985	1134	840	549	429	14	9	4891
1982-83	0	1	75	259	500	646	961	772	580	422	151	7	4374
1983-84	0	0	59	201	550	1128	1152	685	778	370	178	3	5104
1984-85	2	0	89	84	689	601	1275	959	510	228	66	23	4526
1985-86	0	0	72	179	360	1092	978	735	561	259	94	2	4332
1986-87	0	15	14	250	595	903	1016	749	559	342	39	0	4482
1987-88	0	0	17	399	447	804	1085	901	620	328	90	18	4709
1988-89	0	3	30	474	560	877	750	887	548	351	196	8	4684
1989-90	0	6	61	267	592	1297	720	608	505	378	128	17	4579
1990-91	0	3	57	288	453	757	955	719	544	215	34	0	4025
1991-92	0	0	77	230	642	765	915	682	600	293	159	17	4380
1992-93	0	5	64	288	566	863	847	884	705	363	64	27	4676
1993-94	0	0	67	313	608	922	1231	783	658	229	185	3	4999
1994-95	0	3	37	232	425	730	960	877	545	298	108	2	4217
1995-96	0	0	65	254	755	983	1048	844	799	426	96	8	5278
1996-97	0	0	64	268	750	784	1025	670	576	471	233	31	4872
1997-98	1	3	39	321	698	904	745	666	614	331	46	24	4392
1998-99	0	0	8	237	522	781	887	690	758	254	51	1	4189
1999-00	0	0	43	254	433	855	1019	640	513	346	53	6	4162
2000-01	0	0	84	215	642	1227	1043	692	752	226	56	20	4957
2001-02	0	0	84	275	387	741	835	756	628	251	178	1	4136
2002-03	0	0	18	314	668	905	1199	917	515	255	86	30	4907
2003-04	0	0	61	271	460	908	1069	833	529	301	53	3	4488
2004-05	0	13	28	193	471	888	844	703	746	264	143	0	4293
2005-	0	0	10	258	531	1004							

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COOLING DEGREE DAYS (base 65°F) 2005 LEXINGTON, KY (LEX)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1976	0	0	9	30	26	193	257	205	46	4	0	0	770
1977	0	0	11	52	206	241	422	337	232	8	23	0	1532
1978	0	0	0	19	69	257	349	290	202	4	0	0	1190
1979	0	0	2	8	57	199	287	292	102	21	0	0	968
1980	0	0	0	4	87	210	438	415	199	17	0	0	1370
1981	0	0	1	29	43	270	341	267	109	2	0	0	1062
1982	0	0	0	4	171	121	383	252	101	62	9	7	1110
1983	0	0	4	3	27	248	465	487	219	21	0	0	1474
1984	0	0	0	17	50	340	254	312	141	44	1	0	1159
1985	0	0	5	40	67	189	317	245	155	49	4	0	1071
1986	0	0	4	34	115	285	427	269	197	42	0	0	1373
1987	0	0	0	10	212	304	383	395	173	2	5	0	1484
1988	0	0	1	8	81	306	442	407	120	5	0	0	1370
1989	0	0	8	34	66	214	362	296	146	27	0	0	1153
1990	0	0	13	29	32	239	326	285	168	26	5	0	1123
1991	0	0	3	15	210	285	398	341	198	41	0	0	1491
1992	0	0	0	35	76	155	340	192	132	8	0	0	938
1993	0	0	0	2	74	247	474	365	103	13	3	0	1281
1994	0	0	0	31	43	312	372	280	80	16	0	0	1134
1995	0	0	0	22	65	246	391	457	117	10	0	0	1308
1996	0	0	0	7	122	228	258	274	109	10	0	0	1008
1997	0	0	0	2	24	166	354	249	94	51	0	0	940
1998	0	0	25	0	132	264	303	356	291	24	0	1	1396
1999	0	0	0	5	67	261	459	339	161	6	1	0	1299
2000	0	1	0	2	113	268	279	278	126	45	3	0	1115
2001	0	0	0	75	111	212	327	351	124	24	2	0	1226
2002	0	0	0	48	66	299	444	412	234	43	1	0	1547
2003	0	0	0	21	50	155	322	337	72	7	3	0	967
2004	0	0	4	10	177	204	264	195	132	9	0	0	995
2005	0	0	0	10	41	307	403	426	217	52	0	0	1456

SNOWFALL (inches) 2005 LEXINGTON, KY (LEX)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1976-77	0.0	0.0	0.0	0.0	2.9	1.6	18.5	3.5	0.1	0.8	0.0	0.0	27.4
1977-78	0.0	0.0	0.0	0.0	1.7	3.0	21.9	7.1	8.4	0.0	0.0	0.0	42.1
1978-79	0.0	0.0	0.0	0.0	0.0	0.7	11.4	11.6	0.1	T	0.0	0.0	23.8
1979-80	0.0	0.0	0.0	0.0	0.1	T	11.9	4.0	4.2	0.3	0.0	0.0	20.5
1980-81	0.0	0.0	0.0	0.0	0.1	0.5	2.2	0.4	0.5	0.0	0.0	0.0	3.7
1981-82	0.0	0.0	0.0	0.0	0.4	1.7	5.6	3.9	0.3	0.7	0.0	0.0	12.6
1982-83	0.0	0.0	0.0	0.0	0.0	T	0.2	7.5	0.3	T	0.0	0.0	8.0
1983-84	0.0	0.0	0.0	0.0	T	1.7	8.4	4.6	0.3	0.0	0.0	0.0	15.0
1984-85	0.0	0.0	0.0	0.0	T	4.9	10.2	10.7	T	0.5	0.0	0.0	26.3
1985-86	0.0	0.0	0.0	0.0	0.0	3.5	1.2	8.9	0.7	T	0.0	0.0	14.3
1986-87	0.0	0.0	0.0	0.0	0.2	T	3.6	3.5	2.1	5.9	0.0	0.0	15.3
1987-88	0.0	0.0	0.0	0.0	1.0	1.8	3.3	3.4	0.7	0.0	0.0	0.0	10.2
1988-89	0.0	0.0	0.0	0.0	T	0.7	T	1.5	T	T	0.0	0.0	2.2
1989-90	T	T	0.0	T	1.1	9.3	0.2	T	3.7	T	0.0	0.0	14.3
1990-91	0.0	0.0	0.0	0.0	0.0	0.8	0.1	3.2	1.7	0.0	0.0	0.0	5.8
1991-92	0.0	0.0	0.0	0.0	T	0.2	0.7	0.6	1.3	0.4	0.0	0.0	3.2
1992-93	0.0	0.0	0.0	T	1.8	2.5	0.4	11.5	7.1	T	0.0	T	23.3
1993-94	0.0	0.0	0.0	T	0.1	7.4	16.4	2.8	5.0	0.0	0.0	0.0	31.7
1994-95	0.0	0.0	0.0	0.0	0.0	T	2.0	3.7	3.4	0.0	T	0.0	9.1
1995-96	0.0	0.0	0.0	T	1.1	2.2	16.0	3.8		1.5		0.0	
1996-97	0.0		0.0		T	T							
1997-98													
1998-99													
1999-00													
2000-01													
2001-02													
2002-03							6.3	8.3	T	0.0	0.0	0.0	
2003-04	0.0	0.0	0.0	0.0	T	3.9	4.7	T	T	T	0.0	0.0	8.6
2004-05	0.0	0.0	0.0	T	T	0.3	2.3	0.4	2.8	T	0.0	0.0	5.8
2005-	0.0	0.0	0.0	0.0	T	0.5							
POR= 54 YRS	T	T	0.0	0.0	0.6	1.9	5.6	4.5	2.5	0.3	T	T	15.4

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REFERENCE NOTES :

<p>PAGE 1: THE TEMPERATURE GRAPH SHOWS NORMAL MAXIMUM AND NORMAL MINIMUM DAILY TEMPERATURES (SOLID CURVES) AND THE ACTUAL DAILY HIGH AND LOW TEMPERATURES (VERTICAL BARS).</p> <p>PAGE 2 AND 3: H/C INDICATES HEATING AND COOLING DEGREE DAYS. RH INDICATES RELATIVE HUMIDITY W/O INDICATES WEATHER AND OBSTRUCTIONS S INDICATES SUNSHINE. PR INDICATES PRESSURE. CLOUDINESS ON PAGE 3 IS THE SUM OF THE CEILOMETER AND SATELLITE DATA NOT TO EXCEED EIGHT EIGHTHS (OKTAS).</p> <p>GENERAL: T INDICATES TRACE PRECIPITATION, AN AMOUNT GREATER THAN ZERO BUT LESS THAN THE LOWEST REPORTABLE VALUE. + INDICATES THE VALUE ALSO OCCURS ON EARLIER DATES. BLANK ENTRIES DENOTE MISSING OR UNREPORTED DATA. NORMALS ARE 30-YEAR AVERAGES (1971 - 2000). ASOS INDICATES AUTOMATED SURFACE OBSERVING SYSTEM. PM INDICATES THE LAST DAY OF THE PREVIOUS MONTH. POR (PERIOD OF RECORD) BEGINS WITH THE JANUARY DATA MONTH AND IS THE NUMBER OF YEARS USED TO COMPUTE THE MEAN. INDIVIDUAL MONTHS WITHIN THE POR MAY BE MISSING. WHEN THE POR FOR A NORMAL IS LESS THAN 30 YEARS, THE NORMAL IS PROVISIONAL AND IS BASED ON THE NUMBER OF YEARS INDICATED. 0.* OR * INDICATES THE VALUE OR MEAN-DAYS-WITH IS BETWEEN 0.00 AND 0.05. CLOUDINESS FOR ASOS STATIONS DIFFERS FROM THE NON-ASOS OBSERVATION TAKEN BY A HUMAN OBSERVER. ASOS STATION CLOUDINESS IS BASED ON TIME-AVERAGED CEILOMETER DATA FOR CLOUDS AT OR BELOW 12,000 FEET AND ON SATELLITE DATA FOR CLOUDS ABOVE 12,000 FEET. THE NUMBER OF DAYS WITH CLEAR, PARTLY CLOUDY, AND CLOUDY CONDITIONS FOR ASOS STATIONS IS THE SUM OF THE CEILOMETER AND SATELLITE DATA FOR THE SUNRISE TO SUNSET PERIOD.</p>	<p>GENERAL CONTINUED: CLEAR INDICATES 0 - 2 OKTAS, PARTLY CLOUDY INDICATES 3 - 6 OKTAS, AND CLOUDY INDICATES 7 OR 8 OKTAS. WHEN AT LEAST ONE OF THE ELEMENTS (CEILOMETER OR SATELLITE) IS MISSING, THE DAILY CLOUDINESS IS NOT COMPUTED. WIND DIRECTION IS RECORDED IN TENS OF DEGREES (2 DIGITS) CLOCKWISE FROM TRUE NORTH. "00" INDICATES CALM. "36" INDICATES TRUE NORTH. RESULTANT WIND IS THE VECTOR AVERAGE OF THE SPEED AND DIRECTION. AVERAGE TEMPERATURE IS THE SUM OF THE MEAN DAILY MAXIMUM AND MINIMUM TEMPERATURE DIVIDED BY 2. SNOWFALL DATA COMPRISE ALL FORMS OF FROZEN PRECIPITATION, INCLUDING HAIL. A HEATING (COOLING) DEGREE DAY IS THE DIFFERENCE BETWEEN THE AVERAGE DAILY TEMPERATURE AND 65° F. DRY BULB IS THE TEMPERATURE OF THE AMBIENT AIR. DEW POINT IS THE TEMPERATURE TO WHICH THE AIR MUST BE COOLED TO ACHIEVE 100 PERCENT RELATIVE HUMIDITY. WET BULB IS THE TEMPERATURE THE AIR WOULD HAVE IF THE MOISTURE CONTENT WAS INCREASED TO 100 PERCENT RELATIVE HUMIDITY.</p> <p>ON JULY 1, 1996, THE NATIONAL WEATHER SERVICE BEGAN USING THE "METAR" OBSERVATION CODE THAT WAS ALREADY EMPLOYED BY MOST OTHER NATIONS OF THE WORLD. THE MOST NOTICEABLE DIFFERENCE IN THIS ANNUAL PUBLICATION WILL BE THE CHANGE IN UNITS FROM TENTHS TO EIGHTS (OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2005
LEXINGTON,
KENTUCKY (LEX)

Lexington, County Seat of Fayette County, is located in the heart of the famed Kentucky Blue Grass Region. Fayette County is a gently rolling plateau with the elevation varying between 900 and 1,050 feet above sea level. It is noted for its beauty, the fertility of its soil, excellent grass, stock farms, and burley tobacco. The soil has a high phosphorus content and this is very valuable in growing pasture grasses for the grazing of cattle and horses. Lexington has a decided continental climate with a rather large diurnal temperature range. The climate is temperate and well suited to a varied plant and animal life. There are no bodies of water close enough to have any effect on the climate. The closest river is the Kentucky which makes an arc about 15 to 20 miles to the southeast, south, and southwest on its course to the Ohio River. There are numerous small creeks that rise in the county and flow into the river. The reservoirs of the Lexington Water Company are about 5 miles southeast of the city and are the largest bodies of water in the area.

Lexington is subject to rather sudden and large changes in temperature with the spells generally of rather short duration. Temperatures above 100 degrees and below zero degrees are relatively rare. The average temperature for the winter is 35 degrees, spring 62 degrees, fall 50 degrees, and summer 74 degrees.

Precipitation is evenly distributed throughout the winter, spring, and summer, with about 12 inches recorded on the average for each of these seasons. The fall season averages nearly 8 1/2 inches. Snowfall amounts are variable and the ground does not retain snow cover more than a few days at a time.

The months of September and October are the most pleasant of the year. They have the least amount of precipitation, the greatest number of clear days, and generally comfortable temperatures are the rule during these months.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 25 and the average last occurrence in the spring is April 17.

STATION LOCATION

LEXINGTON, KENTUCKY

LOCATION	Occupied From	Occupied To	Airline Distances and Directions from previous Location	LATITUDE NORTH	LONGITUDE WEST	ELEVATION ABOVE										AUTOMATIC OBSERVING EQUIPMENT *	* TYPE M = AMOS T = AUTOB S = ASOS W = AWOS REMARKS
						GROUND											
						SEA LEVEL	WIND INSTRUMENT	EXTREME THERMOMETER S	PSYCHROMETER	SUNSHINE SWITCH	TIPPING GAUGE BUCKET	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER			
*NOTE: <u>AIRPORT</u>																	
Administration Building Blue Grass Field	7/18/44	3/17/76	7.5 mi. W	38°02'	84°36'	c966	a23	5	5		e3	d5	4	b4			a. 61 feet to 4/27/62. b. Commissioned 2100 feet NW of Administration Building 10/19/63. c. 979 feet to 10/19/63. d. 6 feet to 11/17/66. e. Added 12/1/73.
Administration Building Blue Grass Field	3/17/76	03/01/96	400' E	38°02'	84°36'	966	f23	5	5		4	4	4	f4			f. Same site as prior to 3/17/76.
Blue Grass Field	03/01/96	Present	NA	38°02'	84°36'	g977									S		ASOS Commissioned 03/01/96 g. Ground elevation.

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* NOTES: For earlier station history see previous editions.