

2004

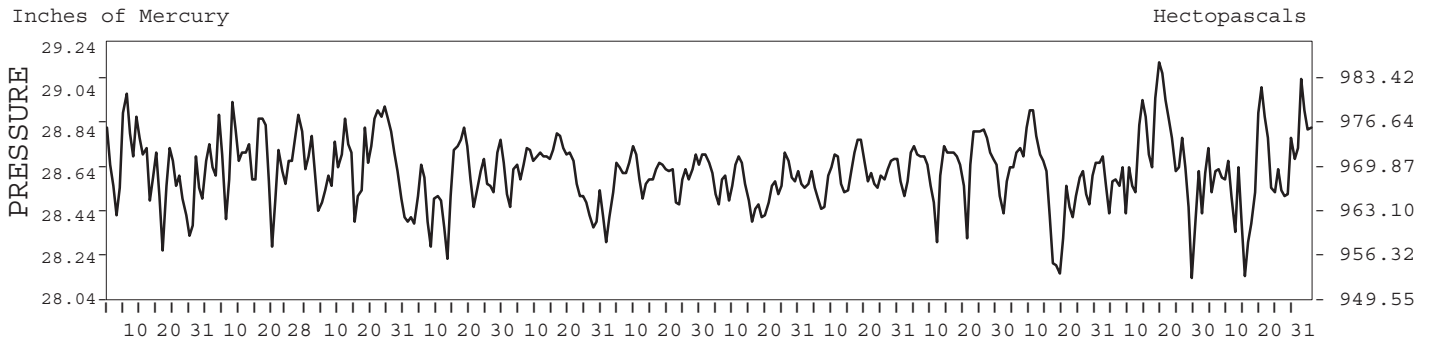
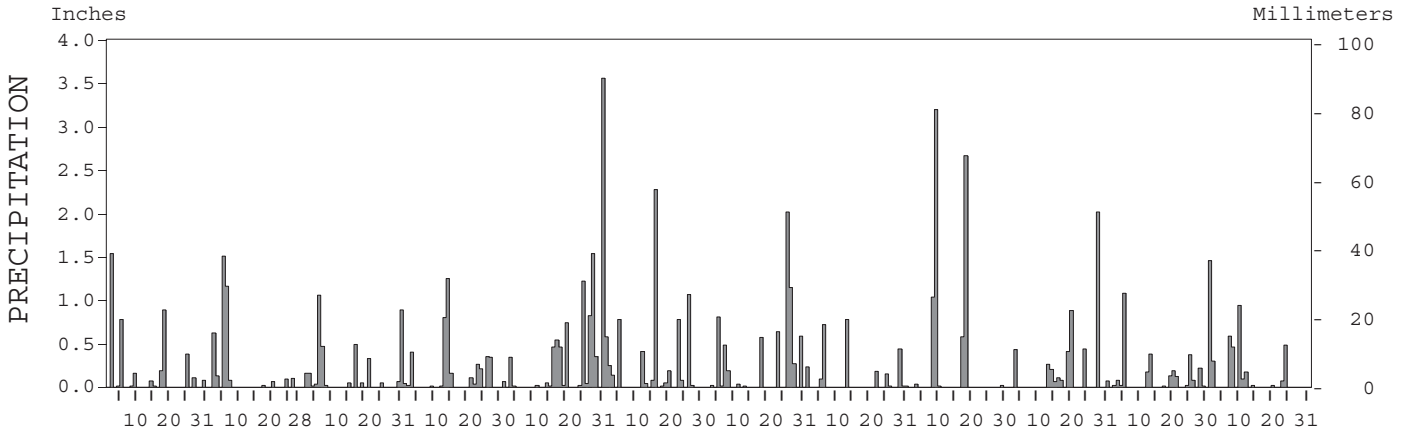
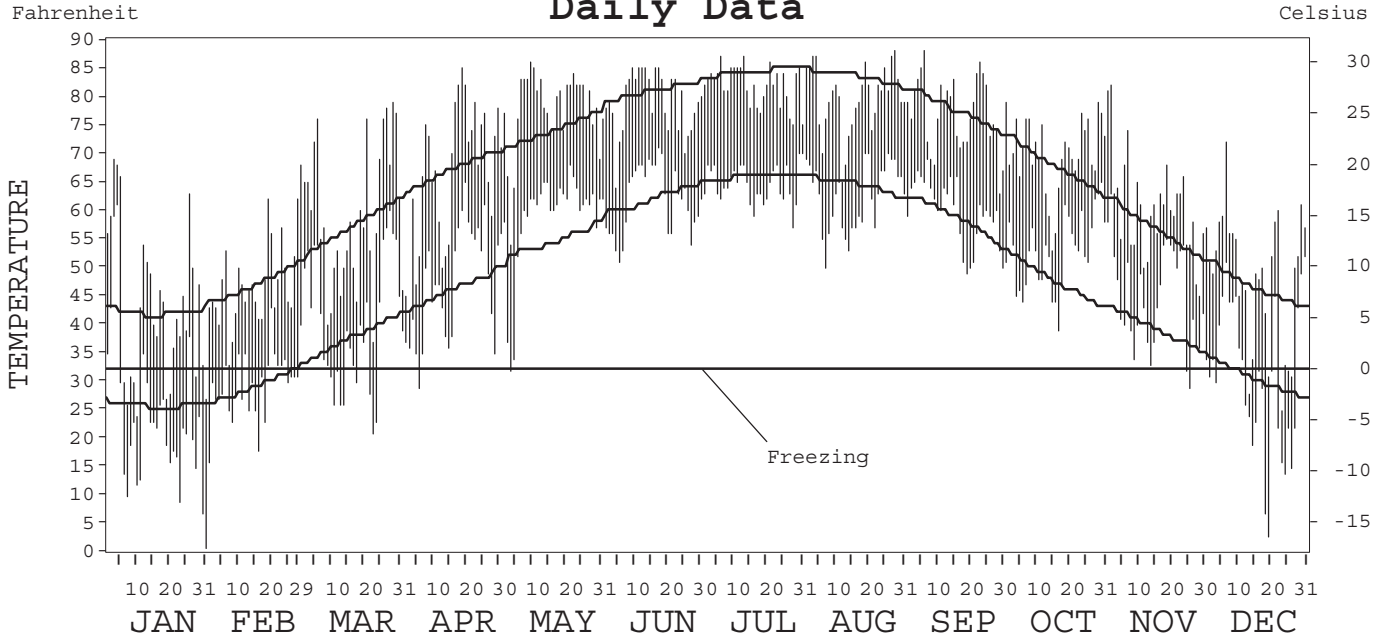
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0278-9140

## JACKSON, KENTUCKY (JKL)

### Daily Data



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# METEOROLOGICAL DATA FOR 2004

## JACKSON, KY (JKL)

LATITUDE: 37° 35' 29" N      LONGITUDE: 83° 18' 52" W      ELEVATION (FT): GRND: 1353      BARO: 1356      TIME ZONE: EASTERN (UTC + 5)      WBAN: 03889

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	MEAN DAILY MAXIMUM	42.9	47.4	59.0	66.6	77.7	79.0	81.9	79.7	77.1	70.0	60.5	48.3	65.8
	HIGHEST DAILY MAXIMUM	69	68	79	85	86	85	87	88	88	79	82	72	88
	DATE OF OCCURRENCE	03	29	28	18	09	17+	13+	28	06	29+	02	07	SEP 06
	MEAN DAILY MINIMUM	23.6	29.7	40.2	47.3	58.8	61.8	64.5	62.4	59.8	52.7	44.8	31.1	48.1
	LOWEST DAILY MINIMUM	1	16	21	29	32	51	57	50	49	39	29	3	1
	DATE OF OCCURRENCE	31	01	22	05	03	05	28	07	19	17	26	20	JAN 31
	AVERAGE DRY BULB	33.3	38.6	49.6	57.0	68.3	70.4	73.2	71.1	68.5	61.4	52.7	39.7	57.0
	MEAN WET BULB	29.1	32.9		48.8	62.8	65.7	68.5	66.2		55.0	46.1	34.7	
	MEAN DEW POINT	22.4	24.0		41.2	59.7	63.4	66.5	63.9		50.6	39.4	27.6	
	NUMBER OF DAYS WITH:													
MAXIMUM ≥ 90°	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MAXIMUM ≤ 32°	9	0	0	0	0	0	0	0	0	0	0	5	14	
MINIMUM ≤ 32°	25	19	9	1	1	0	0	0	0	0	2	17	74	
MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	979	760	477	265	52	11	0	13	23	122	376	778	3856
	COOLING DEGREE DAYS	0	0	8	30	158	182	266	207	133	19	13	0	1016
RH	MEAN (PERCENT)	68	61	61	62	78	82	83	81	76	72	66	65	71
	HOUR 01 LST	72	64	62	65	83	90	93	89	81	79	68	66	76
	HOUR 07 LST	78	70	72	75	90	93	92	94	89	86	74	74	82
	HOUR 13 LST	62	56	53	54	69	68	73	68	64	61	59	61	62
	HOUR 19 LST	62	55	56	53	70	76	78	75	73	66	62	59	65
S	PERCENT POSSIBLE SUNSHINE													
W/O	NUMBER OF DAYS WITH:													
	HEAVY FOG (VISBY ≤ 1/4 MI)	3	3	2	3	6	14	11	11	5	5	7	2	72
	THUNDERSTORMS	1	0	0	0	11	6	12	4	0	3	1	1	39
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.)	28.64	28.72	28.70	28.58	28.63	28.64	28.58	28.64	28.67	28.60	28.71	28.66	28.65
	MEAN SEA-LEVEL PRESS. (IN.)	30.12	30.19	30.15		30.04	30.05	29.98	30.04	30.08	30.02	30.15	30.13	
WINDS	RESULTANT SPEED (MPH)		0.5	2.4	1.9	0.7	0.2	0.3	0.3	0.5	0.6	0.9		
	RES. DIR. (TENS OF DEGS.)		25	24	26	22	20	26	20	02	20	22		
	MEAN SPEED (MPH)	6.0	5.5	6.0	5.6	3.9	2.7	2.8	2.4	3.0	3.4	4.4	5.9	4.3
	PREVAIL. DIR. (TENS OF DEGS.)	22	04	19	29	19	18	30	18	10	23	19	20	19
	MAXIMUM 2-MINUTE WIND:													
	SPEED (MPH)	26	22	29	23	30	30	20	20	20	21	25	25	30
	DIR. (TENS OF DEGS.)	26	18	32	28	30	32	33	34	36	27	26	26	32
	DATE OF OCCURRENCE	22	20	20	21+	24	01	10	04	17	16	24	01	JUN 01
	MAXIMUM 5-SECOND WIND:													
	SPEED (MPH)	39	31	40	39	43	45	30	29	35	35	35	45	45
DIR. (TENS OF DEGS.)	27	25	31	31	30	34	26	36	02	27	27	25	25	
DATE OF OCCURRENCE	22	20	20	04	27+	01	13	04	17	16	02	01	DEC 01	
PRECIPITATION	WATER EQUIVALENT:													
	TOTAL (IN.)	4.23	3.77	3.87	4.01	10.78	6.18	7.02	2.39	7.55	4.96	4.36	3.27	62.39
	GREATEST 24-HOUR (IN.)	1.54	2.50	1.53	1.77	4.09	2.28	2.99	0.81	3.74	2.02	1.46	1.75	4.09
	DATE OF OCCURRENCE	02	05-06	05-06	12-13	30-31	15	25-26	04-05	07-08	27	30	30-01	MAY 30-31
	NUMBER OF DAYS WITH:													
	PRECIPITATION ≥ 0.01	12	9	15	14	18	14	14	9	7	11	16	11	150
PRECIPITATION ≥ 0.10	7	5	7	9	11	8	10	5	4	8	9	7	90	
PRECIPITATION ≥ 1.00	1	2	1	1	3	2	2	0	3	1	2	0	18	
SNOWFALL	SNOW, ICE PELLETS, HAIL:													
	TOTAL (IN.)	3.9	2.6	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.8	8.3
	GREATEST 24-HOUR (IN.)	2.4	1.1	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.4
	DATE OF OCCURRENCE	09	07	21+									14	JAN 09
	MAXIMUM SNOW DEPTH (IN.)	2	1	0	0	0	0	0	0	0	0	0	T	2
	DATE OF OCCURRENCE	10+	27										24+	JAN 10+
NUMBER OF DAYS WITH:														
SNOWFALL ≥ 1.0	1	1	0	0	0	0	0	0	0	0	0	0	2	

# NORMALS, MEANS, AND EXTREMES

## JACKSON, KY (JKL)

LATITUDE: 37° 35' 29" N      LONGITUDE: 83° 18' 52" W      ELEVATION (FT): GRND: 1353      BARO: 1356      TIME ZONE: EASTERN (UTC + 5)      WBAN: 03889

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	42.0	46.8	56.8	66.8	73.8	80.8	84.2	83.3	77.4	67.5	56.4	46.3	65.2
	MEAN DAILY MAXIMUM	24	42.9	48.5	57.4	67.8	74.6	81.3	84.9	83.7	77.6	68.2	57.1	46.2	65.8
	HIGHEST DAILY MAXIMUM	24	78	79	87	92	90	99	101	101	95	86	82	79	101
	YEAR OF OCCURRENCE		2002	1996	1989	1986	1986	1988	1988	1988	1998	1991	2004	1982	AUG 1988
	MEAN OF EXTREME MAXS.	24	66.0	71.3	79.4	85.5	86.2	89.7	92.4	91.8	88.9	81.8	76.4	66.6	81.3
	NORMAL DAILY MINIMUM	30	25.7	28.9	37.4	45.8	54.3	61.9	65.7	64.3	58.4	47.4	38.9	30.2	46.6
	MEAN DAILY MINIMUM	24	26.3	30.5	36.9	46.3	54.7	62.3	66.2	64.6	58.0	48.0	39.4	30.3	47.0
	LOWEST DAILY MINIMUM	24	-18	-8	7	20	32	44	52	45	34	26	13	-13	-18
	YEAR OF OCCURRENCE		1994	1996	1996	1982	2004	1998	1983	1989	1989	1987	1986	1989	JAN 1994
	MEAN OF EXTREME MINS.	24	3.5	10.2	18.5	28.6	40.1	49.9	57.3	54.3	42.3	32.4	23.1	9.9	30.8
	NORMAL DRY BULB	30	33.9	37.9	47.1	56.3	64.1	71.4	75.0	73.8	67.9	57.5	47.7	38.3	55.9
	MEAN DRY BULB	24	34.5	39.5	47.3	57.0	64.6	71.7	75.5	74.0	67.6	58.1	48.4	38.3	56.4
	MEAN WET BULB	21	31.2	34.7	40.2	48.7	58.0	65.7	69.2	67.7	61.5	51.6	42.3	34.2	50.4
	MEAN DEW POINT	21	24.9	27.2	31.8	40.0	53.0	62.4	66.5	65.1	57.7	45.7	35.3	28.4	44.8
	NORMAL NO. DAYS WITH:														
	MAXIMUM $\geq$ 90°	30	0.0	0.0	0.0	0.2	0.1	1.9	6.8	4.6	1.2	0.0	0.0	0.0	14.8
MAXIMUM $\leq$ 32°	30	6.5	3.6	0.7	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.4	5.2	16.5	
MINIMUM $\leq$ 32°	30	22.5	16.3	12.0	2.5	0.1	0.0	0.0	0.0	0.0	1.1	9.0	17.8	81.3	
MINIMUM $\leq$ 0°	30	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.4	
H/C	NORMAL HEATING DEG. DAYS	30	966	761	557	273	128	10	0	4	44	263	522	830	4358
	NORMAL COOLING DEG. DAYS	30	0	0	0	11	100	201	310	277	130	29	1	0	1059
RH	NORMAL (PERCENT)	30	70	67	61	57	69	74	77	77	74	68	66	71	69
	HOUR 01 LST	30	73	70	64	62	75	82	85	85	82	74	69	74	75
	HOUR 07 LST	30	77	76	72	70	81	86	89	91	88	82	75	78	80
	HOUR 13 LST	30	64	60	53	48	57	62	63	62	60	55	58	65	59
	HOUR 19 LST	30	66	62	54	50	62	69	72	71	69	61	62	67	64
S	PERCENT POSSIBLE SUNSHINE	3	43	42	51	53	50	58	58	59	53	56	35	26	49
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY $\leq$ 1/4 MI)	25	4.1	4.2	4.0	2.1	6.4	7.7	8.7	7.9	6.1	4.2	3.7	4.1	63.2
	THUNDERSTORMS	25	0.8	1.1	2.9	4.4	8.6	9.5	10.8	8.0	2.9	1.2	1.1	0.4	51.7
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	14	6.2	6.2	5.8	5.4	5.5	5.2	4.5	4.5	4.4	4.5	5.3	5.7	5.3
	MIDNIGHT-MIDNIGHT (OKTAS)	15	5.6	5.4	5.0	4.7	4.9	4.5	4.3	4.1	3.9	4.1	4.9	5.5	4.7
	MEAN NO. DAYS WITH:														
	CLEAR	1	2.0		7.0		7.0	10.0							
PARTLY CLOUDY	1	1.0	1.0	2.0		4.0	7.0								
CLOUDY	1	1.0	7.0	9.0		10.0	4.0								
PR	MEAN STATION PRESSURE (IN)	23	28.69	28.62	28.60	28.59	28.59	28.60	28.60	28.69	28.67	28.70	28.69	28.68	28.64
	MEAN SEA-LEVEL PRES. (IN)	21	30.13	30.10	30.05	30.00	30.00	30.00	30.04	30.05	30.07	30.12	30.12	30.14	30.07
WINDS	MEAN SPEED (MPH)	23	7.1	7.1	7.4	7.4	5.9	5.0	4.8	4.8	5.4	6.0	7.2	7.3	6.3
	PREVAIL. DIR (TENS OF DEGS)	24	19	19	19	19	19	18	20	18	18	18	19	19	19
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	9	37	39	33	43	39	31	24	37	26	28	29	30	43
	DIR. (TENS OF DEGS)		25	19	29	27	28	29	28	28	29	25	19	30	27
	YEAR OF OCCURRENCE		1999	1998	2002	1996	1998	2001	2000	1999	2000	2001	1998	2003	APR 1996
	MAXIMUM 5-SECOND:														
	SPEED (MPH)	9	56	58	56	57	47	45	39	45	39	44	45	55	58
DIR. (TENS OF DEGS)		25	18	29	30	28	34	01	27	31	25	23	26	18	
YEAR OF OCCURRENCE		1999	1998	1997	1996	1998	2004	2001	1999	2000	2001	1998	2001	FEB 1998	
PRECIPITATION	NORMAL (IN)	30	3.56	3.68	4.38	3.79	5.16	4.67	4.59	4.13	3.77	3.18	4.20	4.27	49.38
	MAXIMUM MONTHLY (IN)	24	7.28	7.88	11.78	10.00	10.78	9.15	9.74	7.70	7.82	7.36	9.32	12.97	12.97
	YEAR OF OCCURRENCE		1994	2003	1994	1998	2004	1997	1985	1993	1988	1989	1986	1990	DEC 1990
	MINIMUM MONTHLY (IN)	24	0.80	1.24	1.47	0.78	2.25	1.37	1.77	1.55	1.09	0.51	1.45	1.74	0.51
	YEAR OF OCCURRENCE		1981	2002	2003	1985	1987	1988	1995	1981	2001	1987	1981	1985	OCT 1987
	MAXIMUM IN 24 HOURS (IN)	24	2.16	2.50	3.44	2.16	4.09	3.04	2.99	4.12	3.74	4.24	4.30	3.43	4.30
	YEAR OF OCCURRENCE		1995	2004	1989	1998	2004	1997	2004	1999	2004	1989	1986	1990	NOV 1986
	NORMAL NO. DAYS WITH:														
	PRECIPITATION $\geq$ 0.01	30	14.3	13.2	13.8	12.3	13.6	12.2	12.1	9.5	8.7	8.6	11.6	14.2	144.1
	PRECIPITATION $\geq$ 1.00	30	0.7	0.8	1.0	0.7	1.4	1.2	0.9	1.3	1.1	0.9	1.1	1.2	12.3
SNOWFALL	NORMAL (IN)	30	7.5	7.0	3.5	1.2	0.1	0.0	0.0	0.0	0.0	0.1	0.7	4.4	24.5
	MAXIMUM MONTHLY (IN)	24	26.3	21.0	21.9	17.8	1.0	T	T	T	0.0	2.3	5.1	11.5	26.3
	YEAR OF OCCURRENCE		1994	1985	1993	1987	1989	1995	2000	1991		1993	1995	1993	JAN 1994
	MAXIMUM IN 24 HOURS (IN)	24	15.2	12.7	19.8	8.5	1.0	T	T	T	0.0	2.3	4.3	4.9	19.8
	YEAR OF OCCURRENCE		1994	1985	1993	1987	1989	1995	2000	1991		1993	1995	1997	MAR 1993
	MAXIMUM SNOW DEPTH (IN)	23	17	14	20	11	0	0	0	0	0	0	4	4	20
	YEAR OF OCCURRENCE		1994	1985	1993	1987							1995	1993	MAR 1993
	NORMAL NO. DAYS WITH:														
SNOWFALL $\geq$ 1.0	30	2.0	2.2	0.7	0.3	0.1	0.0	0.0	0.0	0.0	0.1	0.2	1.7	7.3	

PRECIPITATION (inches) 2004 JACKSON, KY (JKL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	0.80	5.96	2.78	4.62	4.23	4.88	4.53	1.55	2.53	2.83	1.45	3.53	39.69
1982	5.28	4.34	5.24	2.19	5.43	6.13	4.12	6.14	1.53	1.62	3.55	3.70	49.27
1983	1.68	2.09	1.90	3.25	7.34	2.01	3.81	3.33	3.12	3.83	3.27	2.76	38.39
1984	1.31	2.88	3.43	5.72	7.36	2.09	6.71	2.58	2.43	4.09	5.54	4.08	48.22
1985	3.50	2.02	3.27	0.78	5.50	4.19	9.74	5.24	1.40	4.97	6.89	1.74	49.24
1986	1.84	5.44	1.56	0.95	2.42	2.15	2.73	2.49	3.27	2.38	9.32	3.06	37.61
1987	2.70	3.46	1.90	3.70	2.25	3.22	6.37	2.64	2.92	0.51	3.15	5.98	38.80
1988	2.59	2.00	3.09	2.97	4.50	1.37	4.56	4.15	7.82	1.85	6.12	4.03	45.05
1989	3.48	7.61	6.74	3.23	6.43	6.96	2.21	5.22	7.37	7.36	4.28	2.40	63.29
1990	2.56	6.27	3.16	2.95	5.08	4.02	4.18	4.21	1.86	4.73	2.91	12.97	54.90
1991	3.16	4.46	6.08	2.67	4.99	7.01	4.46	2.96	2.62	2.13	5.22	9.35	55.11
1992	1.87	3.12	5.80	1.66	4.61	4.08	6.67	3.20	3.66	1.60	3.23	4.92	44.42
1993	2.05	3.54	5.28	3.26	3.74	4.82	4.70	7.70	6.58	4.63	5.08	4.28	55.66
1994	7.28	7.42	11.78	5.52	3.37	4.85	3.74	6.11	2.45	2.53	2.73	2.98	60.76
1995	7.16	3.71	3.51	4.90	9.91	4.22	1.77	2.07	4.01	5.03	4.18	2.36	52.83
1996	5.63	3.11	5.46	5.95	5.86	4.35	4.96	3.01	6.47	4.00	7.28	2.72	58.80
1997	3.53	2.97	9.76	1.51	5.01	9.15	2.40	4.38	2.03	2.29	4.04	2.21	49.28
1998	3.76	4.45	2.86	10.00	6.28	8.29	2.46	2.47	2.09	2.59	2.98	5.16	53.39
1999	6.55	3.04	3.17	3.44	2.47	2.66	2.75	6.58	1.13	3.08	2.65	2.56	40.08
2000	2.63	3.53	1.94	4.97	4.33	6.80	5.69	4.38	4.92	1.07	1.47	4.35	46.08
2001	2.50	3.72	2.17	1.69	4.39	4.19	6.43	2.41	1.09	1.41	1.82	2.55	34.37
2002	4.09	1.24	7.96	4.11	5.24	4.98	5.50	1.72	3.48	6.40	3.62	4.29	52.63
2003	2.10	7.88	1.47	5.14	5.89	7.54	3.95	5.12	4.33	2.20	5.49	3.78	54.89
2004	4.23	3.77	3.87	4.01	10.78	6.18	7.02	2.39	7.55	4.96	4.36	3.27	62.39
POR= 24 YRS	3.45	4.12	4.35	3.74	5.32	4.86	4.61	3.81	3.59	3.25	4.17	4.13	49.40

WBAN : 03889

AVERAGE TEMPERATURE (°F) 2004 JACKSON, KY (JKL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	29.3	38.4	42.7	61.4	60.4	74.2	75.0	72.8	66.6	56.3	48.3	35.3	55.1
1982	30.2	37.9	49.8	53.5	70.9	69.5	76.7	72.8	66.5	58.8	49.2	45.3	56.8
1983	34.4	38.0	47.2	51.8	60.8	71.1	75.9	77.5	68.2	58.3	47.7	30.6	55.1
1984	30.9	42.8	42.0	54.0	61.2	75.0	72.8	74.0	65.5	63.7	43.9	47.2	56.1
1985	24.5	33.0	49.3	60.8	65.3	69.9	74.0	71.0	67.4	62.2	54.4	32.3	55.3
1986	34.4	40.6	48.6	60.0	66.8	73.8	78.7	73.6	70.5	59.0	46.6	37.4	57.5
1987	33.5	38.9	48.7	54.3	69.9	73.6	75.5	75.6	68.1	52.9	51.6	40.2	56.9
1988	32.4	36.4	47.6	56.3	65.0	72.6	77.8	78.0	68.3	51.3	49.3	39.2	56.2
1989	42.7	35.4	50.0	56.4	60.4	71.2	75.4	73.2	67.0	57.8	47.3	26.7	55.3
1990	42.8	46.3	52.0	56.9	63.0	72.1	75.6	73.1	68.8	58.1	52.0	42.8	58.6
1991	36.2	41.2	48.8	61.3	70.7	73.3	76.7	74.8	69.3	61.4	45.9	41.8	58.5
1992	37.5	43.4	47.4	58.2	62.7	69.6	75.6	70.7	67.5	55.9	47.1	38.1	56.1
1993	39.7	35.4	42.7	54.5	65.5	71.8	79.1	75.6	66.9	55.6	47.2	36.5	55.9
1994	27.7	40.6	45.5	60.3	60.0	74.5	75.1	72.5	65.5	58.0	52.8	42.8	56.3
1995	35.3	35.6	50.4	57.6	64.0	71.7	77.8	80.0	67.8	58.6	42.5	34.3	56.3
1996	33.2	36.9	41.2	53.7	66.1	72.0	72.7	73.3	65.7	57.7	41.4	42.0	54.7
1997	34.5	43.6	49.3	51.7	59.4	69.4	75.5	71.9	66.3	57.3	42.8	36.7	54.9
1998	42.2	43.0	47.4	55.3	67.2	71.6	74.3	74.9	73.5	59.1	50.1	41.9	58.4
1999	40.2	41.6	41.9	59.3	65.6	72.5	78.4	73.9	68.4	57.6	52.2	40.9	57.7
2000	33.3	44.4	52.1	55.2	67.4	72.5	72.9	73.0	66.2	60.2	45.2	28.2	55.9
2001	33.6	42.8	42.0	61.0	65.6	70.2	73.4	74.9	66.1	57.7	54.9	43.6	57.2
2002	40.3	39.3	47.1	60.1	62.0	73.2	76.6	75.9	71.6	57.3	43.9	37.4	57.1
2003	28.3	33.9	51.1	59.3	63.2	68.3	73.8	74.6	66.1	58.0	51.8	37.1	55.5
2004	33.3	38.6	49.6	57.0	68.3	70.4	73.2	71.1	68.5	61.4	52.7	39.7	57.0
POR= 24 YRS	34.6	39.6	47.4	57.0	64.8	71.7	75.5	74.0	67.6	58.1	48.4	38.3	56.4

HEATING DEGREE DAYS (base 65°F) 2004 JACKSON, KY (JKL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81							1100	739	689	153	174	0	
1981-82	0	0	68	266	495	911	1075	755	467	348	6	2	4393
1982-83	0	0	61	248	479	621	942	748	557	400	145	19	4220
1983-84	1	0	71	216	512	1056	1049	638	706	353	168	5	4775
1984-85	0	0	113	82	630	548	1250	890	483	195	67	27	4285
1985-86	0	1	75	138	321	1007	945	677	511	217	73	2	3967
1986-87	0	15	9	221	545	849	970	724	499	343	35	1	4211
1987-88	0	0	29	373	401	758	1005	824	540	276	78	31	4315
1988-89	0	0	24	421	467	792	683	822	482	302	199	4	4196
1989-90	0	11	68	240	526	1179	683	520	431	290	106	8	4062
1990-91	0	2	52	243	390	682	884	658	504	161	30	1	3607
1991-92	0	0	75	182	570	712	844	621	548	261	150	14	3977
1992-93	0	3	51	282	529	826	778	820	683	314	61	25	4372
1993-94	0	0	57	292	533	876	1152	678	598	184	191	0	4561
1994-95	0	1	42	223	366	683	913	817	448	255	102	6	3856
1995-96	0	0	49	218	670	946	976	812	731	358	91	4	4855
1996-97	0	0	64	231	702	707	938	595	483	402	195	29	4346
1997-98	0	5	40	284	659	868	700	610	584	284	60	28	4122
1998-99	0	0	11	212	439	713	770	648	711	200	41	7	3752
1999-00	0	0	43	228	378	739	973	598	403	297	33	11	3703
2000-01	0	0	82	183	591	1133	964	618	706	209	72	17	4575
2001-02	0	0	82	247	299	656	762	712	551	219	162	2	3692
2002-03	0	0	17	279	629	845	1133	864	426	200	92	33	4518
2003-04	0	0	47	232	404	859	979	760	477	265	52	11	4086
2004-	0	13	23	122	376	778							

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COOLING DEGREE DAYS (base 65°F) 2004 JACKSON, KY (JKL)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1981	0	0	5	50	40	281	316	249	121	4	2	0	1068
1982	0	0	2	8	195	143	368	249	115	63	10	18	1171
1983	0	0	11	11	22	208	350	393	175	17	0	0	1187
1984	0	0	0	31	58	313	247	285	133	48	3	2	1120
1985	0	0	4	76	81	180	284	194	155	60	9	0	1043
1986	0	0	12	71	136	271	428	289	178	42	0	0	1427
1987	0	0	2	29	194	268	332	335	127	2	7	0	1296
1988	0	0	6	19	83	263	404	410	128	6	1	0	1320
1989	0	0	22	48	66	195	326	271	135	24	1	0	1088
1990	0	0	37	52	50	225	335	262	172	36	6	0	1175
1991	0	0	11	58	213	258	372	312	213	78	3	0	1518
1992	0	0	11	66	89	160	337	183	133	8	0	0	987
1993	0	0	0	7	83	233	440	337	122	7	6	0	1235
1994	0	0	1	50	45	291	321	239	62	14	8	0	1031
1995	0	0	0	42	76	213	405	473	140	24	3	0	1376
1996	0	3	0	25	130	222	246	269	89	12	0	0	996
1997	0	0	2	11	29	166	333	223	88	51	0	0	903
1998	0	0	46	1	135	230	293	313	274	33	0	3	1328
1999	3	0	0	36	65	237	424	283	150	6	2	0	1206
2000	0	4	11	10	116	243	251	255	125	42	3	0	1060
2001	0	0	0	95	95	179	268	314	122	29	4	0	1106
2002	4	0	4	77	78	254	369	344	222	46	3	0	1401
2003	0	0	3	34	42	137	280	304	90	19	15	0	924
2004	0	0	8	30	158	182	266	207	133	19	13	0	1016

SNOWFALL (inches) 2004 JACKSON, KY (JKL)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1980-81							5.1	6.8	1.8	0.0	0.0	0.0	
1981-82	0.0	0.0	0.0	0.0	T	3.8	6.0	7.6	5.0	0.4	0.0	0.0	22.8
1982-83	0.0	0.0	0.0	0.0	T	4.1	2.0	6.9	2.8	0.1	0.0	0.0	15.9
1983-84	0.0	0.0	0.0	0.0	T	3.3	8.8	2.6	1.7	T	0.0	0.0	16.4
1984-85	0.0	0.0	0.0	0.0	T	1.9	12.1	21.0	T	T	0.0	0.0	35.0
1985-86	0.0	0.0	0.0	0.0	0.0	4.6	7.7	11.6	1.0	T	0.0	0.0	24.9
1986-87	0.0	0.0	0.0	0.0	0.8	T	11.6	6.0	0.7	17.8	0.0	0.0	36.9
1987-88	0.0	0.0	0.0	0.0	T	3.7	5.4	2.0	1.9	0.0	0.0	0.0	13.0
1988-89	0.0	0.0	0.0	0.0	0.2	2.5	0.4	5.6	0.1	T	1.0	0.0	9.8
1989-90	0.0	0.0	0.0	0.5	1.8	10.1	2.5	2.3	1.4	T	0.0	0.0	18.6
1990-91	0.0	0.0	0.0	0.0	0.0	0.3	0.9	4.8	3.0	0.0	0.0	0.0	9.0
1991-92	0.0	T	0.0	0.0	T	0.4	2.1	0.7	1.5	1.7	0.0	0.0	6.4
1992-93	0.0	0.0	0.0	0.0	1.1	4.5	0.1	8.3	21.9	0.2	T	0.0	36.1
1993-94	0.0	0.0	0.0	2.3	0.1	11.5	26.3	4.2	3.9	T	0.0	0.0	48.3
1994-95	0.0	0.0	0.0	0.0	0.0	0.2	7.3	6.9	6.7	0.0	0.0	T	21.1
1995-96	0.0	0.0	0.0	0.0	5.1	8.0	23.3	12.3	10.8	2.8			
1996-97	0.0	0.0	0.0	0.0	2.5	1.6	2.3	2.9	T	T	0.0	0.0	9.3
1997-98	0.0	T	0.0	0.0	1.1	11.3	0.5	17.6	3.2	0.0	T	0.0	33.7
1998-99	0.0	0.0	0.0	0.0	T	3.1	5.1	6.8	2.2	0.0	0.0	0.0	17.2
1999-00	0.0	0.0	0.0	0.0	T	2.4	8.3	3.2	0.1	T	0.0	0.0	14.0
2000-01	T	0.0	0.0	0.0	0.9	10.0	5.1	0.9	2.3	1.6	T	0.0	20.8
2001-02	0.0	0.0	0.0	T	0.0	1.2	15.0	3.2	0.8	T	0.0	0.0	20.2
2002-03	0.0	0.0	0.0	0.0	0.1	3.7	9.7	10.5	0.2	0.0	0.0	0.0	24.2
2003-04	0.0	0.0	0.0	0.0	0.3	9.1	3.9	2.6	T	0.0	0.0	0.0	15.9
2004-	0.0	0.0	0.0	0.0	0.0	1.8							
POR= 23 YRS	0.0	T	0.0	0.2	0.6	4.4	6.8	6.2	2.6	0.9	0.2	T	21.9

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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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## 2004 JACKSON, KENTUCKY (JKL)

Jackson, County Seat of Breathitt County, is located on the leading edge of the Eastern Kentucky Coal Fields. The topography of Breathitt County is mountainous, with 80 to 90 percent of the county area on a greater than 20 percent slope. The county contains a minimal portion of level land. Almost 80 percent of the land area is composed of slopes greater than 50 percent. The highest elevation is 1,547 feet above sea level. The terrain slopes gently westward into the beautiful Kentucky Bluegrass Region. To the east the mountains rise swiftly to heights of 4,000 to 5,000 feet above sea level.

The major industry in Breathitt County is coal. In addition, the county is rich in such natural resources as timber, petroleum, natural gas, sand, and clay. The roughness of the terrain effectively limits farming to small yields of tobacco and garden vegetables.

The climate of Jackson and Eastern Kentucky is temperate and well suited to a variety of plant and animal life. There are no large bodies of water close enough to have any significant effect on the climate. The North Fork of the Kentucky River flows through Breathitt County westward into the Kentucky River and eventually into the Ohio River. There are numerous small creeks and streams in the county. The steep slopes and narrow valleys make these creeks and streams especially prone to flash flooding during periods of heavy rainfall.

Jackson is subject to sudden and large changes in temperature. Extremes of cold and heat are rare and usually of short duration. Temperatures above 100 degrees or below zero are extremely rare. Average daily temperatures range from about 32 degrees in the winter to the low 70s in the summer, and in the low 50s during the spring and fall months. January is the coldest month with an average temperature of 31 degrees. The warmest month is July, with an average temperature of 73 degrees.

Total annual precipitation for the Jackson area averages nearly 44 inches and is fairly evenly distributed throughout the year. The spring and summer seasons average nearly 12 inches each, while winter averages 11 inches and fall slightly over 8 inches. July is the wettest month with an average of nearly 5 inches of precipitation. Snowfall amounts are variable and snow cover is normally limited to only a few days at a time.

# STATION LOCATION

JACKSON, 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									
						SEA LEVEL		GROUND										WIND INSTRUMENT	EXTRUMENTHERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHINDRAIN GAUGE	8 INCH RAIN GAUGE	HYGROMETER
						GROUND	TEMPERATURE	WIND	INSTRUMENT	EXTRUMENTHERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TIPPING BUCKET	RAIN GAUGE	WINDHINDRAIN GAUGE											
<u>AIRPORT</u>																										
Julian Carroll Airport	1/1/81	12/01/95	NA	37°36'	83°19'	1354 b1365	NA a22 d30	5	5	NA	NA a18 c	2	2	NA a5 d5	NA aM	Station established 8/1/80. Obs. began 1/1/81. Partial Jan. 1981 data from nearby Quicksand COOP station. a. Installed 2/4/81. (M=RAMOS) b. Effective 2/4/81. c. Removed 12/1/82. d. Effective 12/1/82.										
Julian Carroll Airport	12/01/95	Present	NA	37°35'	83°19'	e1353									S	ASOS Commissioned 12/01/95 e. Ground Elevation										

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