

1999

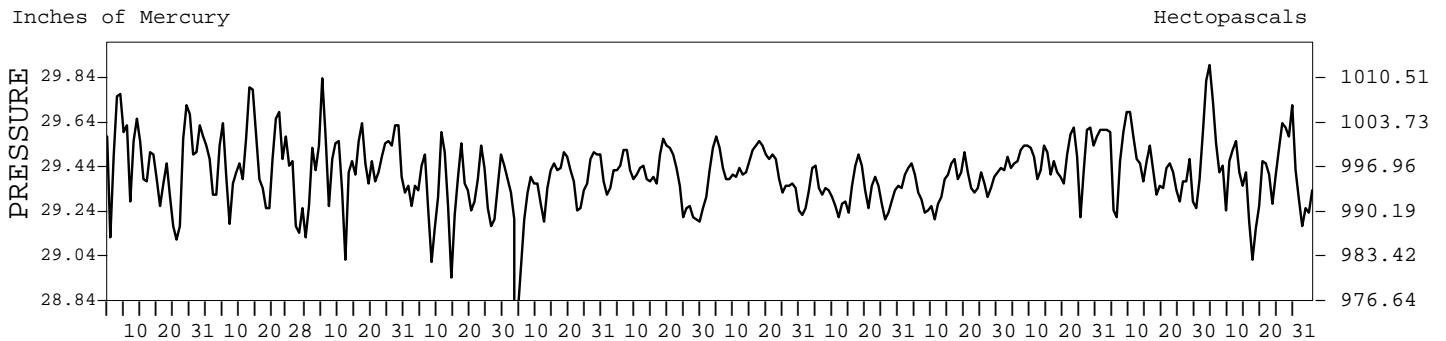
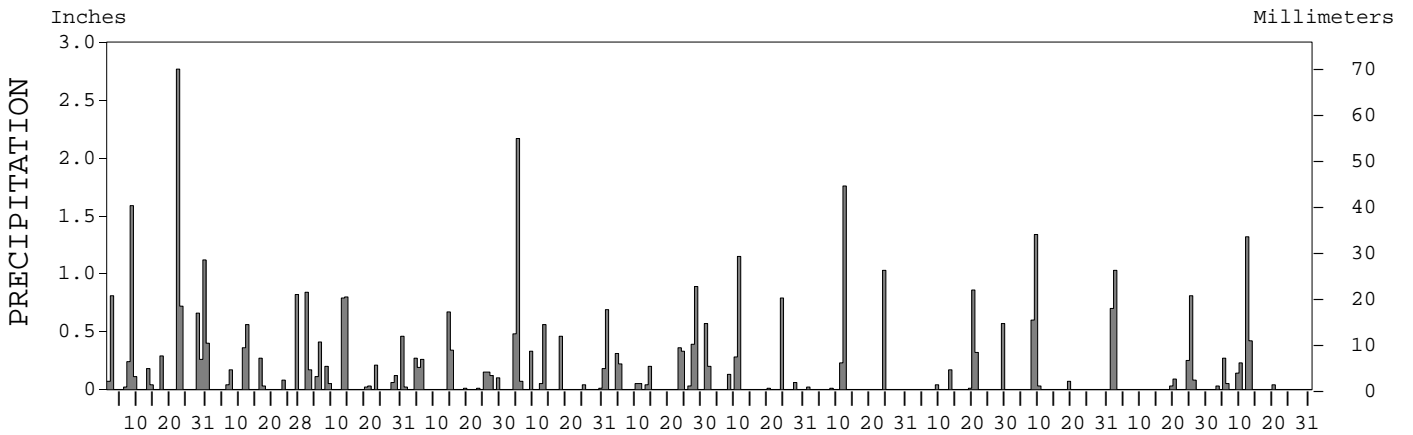
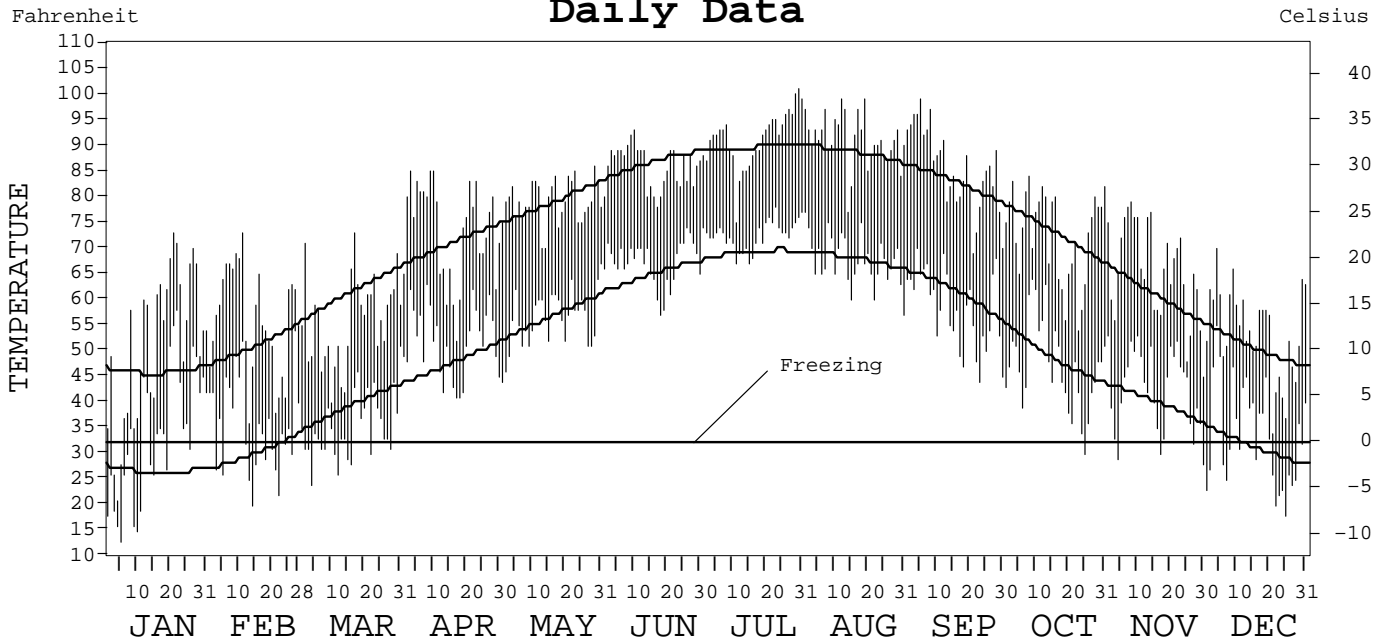
# LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4845

## NASHVILLE, TENNESSEE (BNA)

### Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION  
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 ASHEVILLE, NORTH CAROLINA

# METEOROLOGICAL DATA FOR 1999

## NASHVILLE, TN (BNA)

LATITUDE: 36° 07' 08" N      LONGITUDE: 86° 41' 21" W      ELEVATION (FT): GRND: 692      BARO: 692      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 13897

ELEMENT		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR	
TEMPERATURE °F	MEAN DAILY MAXIMUM	51.4	56.0	55.9	73.4	79.0	85.9	91.3	91.1	85.5	72.7	65.6	53.7	71.8	
	HIGHEST DAILY MAXIMUM	73	73	73	85	86	93	101	99	99	84	72	70	101	
	DATE OF OCCURRENCE	21	11	17	10+	29	10	30	19+	05	08	23	04	JUL 30	
	MEAN DAILY MINIMUM	33.6	35.5	35.2	51.8	56.1	67.1	72.5	67.7	58.2	47.1	42.4	33.6	50.1	
	LOWEST DAILY MINIMUM	13	22	24	41	44	57	67	57	44	30	28	18	13	
	DATE OF OCCURRENCE	05	22	04	18+	01	18	15+	31	23	25	30	25	JAN 05	
	AVERAGE DRY BULB	42.5	45.8	45.6	62.6	67.6	76.5	81.9	79.4	71.9	59.9	54.0	43.7	61.0	
	MEAN WET BULB	39.3	41.1	39.5	55.9	60.5	68.8	74.1	69.4	62.2	53.3	48.2	39.9	54.4	
	MEAN DEW POINT	34.2	33.8	30.7	49.6	54.8	64.4	70.7	63.8	55.1	47.1	41.8	34.6	48.4	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	3	19	22	9	0	0	0	0	53
	MAXIMUM ≤ 32°	3	0	0	0	0	0	0	0	0	0	0	0	0	3
	MINIMUM ≤ 32°	14	12	11	0	0	0	0	0	0	1	4	16	58	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	686	531	595	125	10	0	0	0	18	185	322	654	3126	
	COOLING DEGREE DAYS	0	0	0	60	100	354	533	453	229	35	1	0	1765	
RH	MEAN (PERCENT)	74	65	60	64	65	68	71	62	59	66	67	72	66	
	HOUR 00 LST	76	70	68	73	80	77	81	71	69	77	74	76	74	
	HOUR 06 LST	81	76	74	79	85	84	87	83	83	83	84	79	82	
	HOUR 12 LST	68	55	50	52	49	55	58	48	45	52	52	65	54	
	HOUR 18 LST	72	57	48	52	51	58	60	47	44	54	59	65	56	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	1	2	0	1	2	1	1	1	0	2	1	1	13	
	THUNDERSTORMS	4	3	2	8	6	6	8	4	3	0	1	1	45	
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.)	29.47	29.44	29.45	29.32		29.38	29.41	29.33	29.36	29.49	29.45	29.40		
	MEAN SEA-LEVEL PRESS. (IN.)	30.12		30.10	29.96		30.01	30.04	29.96	29.99	30.14		30.15		
WINDS	RESULTANT SPEED (MPH)	3.5	1.6	2.1	2.5	0.7	1.0	0.6	1.4	1.0	0.4	1.0	2.0	0.7	
	RES. DIR. (TENS OF DEGS.)	20	23	02	22	25	18	27	36	01	16	25	21	23	
	MEAN SPEED (MPH)	9.2	8.2	8.3	8.5	6.8	6.6	5.1	5.7	5.4	6.0	6.7	7.5	7.0	
	PREVAIL. DIR. (TENS OF DEGS.)	18	18	01	19	17	18	18	01	36	17	17	17	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	35	26	39	32	26	38	31	36	22	24	26	25	39	
	DIR. (TENS OF DEGS.)	26	27	17	26	13	01	02	33	02	17	33	18	17	
	DATE OF OCCURRENCE	17	11	09	09	05+	04	24	12	15	08	02	05	MAR 09	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	61	33	48	52	35	47	45	49	29	30	37	35	61	
DIR. (TENS OF DEGS.)	26	31	16	23	23	01	31	36	03	15	34	24	26		
DATE OF OCCURRENCE	17	27+	09	09	05	04	24	12	15	08	02	15	JAN 17		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	9.28	2.33	4.27	2.29	4.35	3.56	3.19	3.05	1.97	2.04	2.99	2.50	41.82	
	GREATEST 24-HOUR (IN.)	3.49	0.82	1.17	1.00	2.65	0.89	1.40	1.76	0.87	1.93	0.89	1.52	3.49	
	DATE OF OCCURRENCE	22-23	27	13-14	14-15	04-05	28	10-11	12	19-20	08-09	25-26	12-13	JAN 22-23	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	15	8	14	12	10	12	8	5	6	4	7	8	109	
PRECIPITATION ≥ 0.10	12	5	10	9	6	8	6	3	4	2	4	5	74		
PRECIPITATION ≥ 1.00	3	0	0	0	1	0	1	2	0	1	1	1	10		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)			1.0											
	GREATEST 24-HOUR (IN.)			1.0											
	DATE OF OCCURRENCE			14											
	MAXIMUM SNOW DEPTH (IN.)			1											
	DATE OF OCCURRENCE			14											
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0			1												

# NORMALS, MEANS, AND EXTREMES

## NASHVILLE, TN (BNA)

LATITUDE: 36° 07' 08" N      LONGITUDE: 86° 41' 21" W      ELEVATION (FT): GRND: 692      BARO: 692      TIME ZONE: CENTRAL (UTC + 6)      WBAN: 13897

ELEMENT		POR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	YEAR
TEMPERATURE °F	NORMAL DAILY MAXIMUM	30	45.9	50.8	61.2	70.8	78.8	86.5	89.5	88.4	82.5	72.5	60.4	50.2	69.8
	MEAN DAILY MAXIMUM	52	46.9	51.6	60.3	70.8	79.1	86.6	89.8	88.8	82.8	72.4	59.6	50.4	69.9
	HIGHEST DAILY MAXIMUM	60	78	84	86	91	97	106	107	104	105	94	84	79	107
	YEAR OF OCCURRENCE		1972	1962	1982	1989	1941	1952	1952	1954	1954	1953	1971	1982	JUL 1952
	MEAN OF EXTREME MAXS.	52	68.0	72.1	79.0	85.3	89.4	95.0	97.2	96.3	93.6	85.9	76.9	69.2	84.0
	NORMAL DAILY MINIMUM	30	26.5	29.9	39.1	47.5	56.6	64.7	68.9	67.7	61.1	48.3	39.6	30.9	48.4
	MEAN DAILY MINIMUM	52	28.4	31.2	38.6	47.7	57.0	65.2	69.5	67.8	60.9	48.5	38.7	31.6	48.8
	LOWEST DAILY MINIMUM	60	-17	-13	2	23	34	42	51	47	36	26	-1	-10	-17
	YEAR OF OCCURRENCE		1985	1951	1980	1982	1976	1966	1947	1946	1983	1987	1950	1989	JAN 1985
	MEAN OF EXTREME MINS.	52	7.5	11.3	21.7	31.2	41.9	52.9	60.0	58.0	45.9	32.5	20.8	12.5	33.0
	NORMAL DRY BULB	30	36.2	40.4	50.2	59.2	67.7	75.6	79.3	78.1	71.8	60.4	50.0	40.5	59.1
	MEAN DRY BULB	52	37.6	41.5	49.5	59.4	68.1	75.9	79.7	78.4	71.9	60.5	49.1	41.1	59.4
	MEAN WET BULB	16	34.8	38.5	44.2	52.2	61.4	68.8	72.0	70.6	64.5	54.3	42.7	38.1	53.5
	MEAN DEW POINT	16	29.0	31.8	36.6	44.9	56.5	64.9	68.4	66.8	60.1	49.0	37.3	32.7	48.2
	NORMAL NO. DAYS WITH:														
MAXIMUM ≥ 90°	30	0.0	0.0	0.0	0.1	1.5	9.2	16.6	13.1	5.8	0.1	0.0	0.0	46.4	
MAXIMUM ≤ 32°	30	5.1	2.3	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	2.4	10.1	
MINIMUM ≤ 32°	30	22.2	17.1	9.2	1.8	0.0	0.0	0.0	0.0	0.0	1.2	7.7	17.8	77.0	
MINIMUM ≤ 0°	30	0.9	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.4	
H/C	NORMAL HEATING DEG. DAYS	30	893	689	469	193	59	0	0	0	21	195	450	760	3729
	NORMAL COOLING DEG. DAYS	30	0	0	10	19	143	318	443	406	225	52	0	0	1616
RH	NORMAL (PERCENT)	30	70	68	65	63	70	70	73	73	74	69	70	71	70
	HOUR 00 LST	30	75	74	71	72	81	83	85	85	85	81	77	76	79
	HOUR 06 LST	30	80	80	79	80	86	87	89	90	90	86	82	80	84
	HOUR 12 LST	30	63	60	54	51	55	55	57	57	58	53	59	63	57
	HOUR 18 LST	30	65	61	55	52	58	59	62	62	64	60	64	67	61
S	PERCENT POSSIBLE SUNSHINE	54	41	47	52	59	60	65	63	63	62	62	50	42	56
W/O	MEAN NO. DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	59	2.4	1.3	1.0	0.6	0.9	0.9	1.1	1.5	1.8	2.1	1.6	1.8	17.0
	THUNDERSTORMS	59	1.2	1.6	4.1	5.1	7.2	8.3	9.3	7.4	3.5	1.6	1.6	1.0	51.9
CLOUDINESS	MEAN:														
	SUNRISE-SUNSET (OKTAS)	56	5.7	5.4	5.3	4.9	4.8	4.5	4.4	4.2	4.2	3.9	4.8	5.3	4.8
	MIDNIGHT-MIDNIGHT (OKTAS)	32	5.3	5.1	5.0	4.6	4.6	4.1	4.0	3.8	4.0	3.6	4.7	5.0	4.5
	MEAN NO. DAYS WITH:														
	CLEAR	55	6.3	6.9	7.5	8.3	8.0	8.0	8.1	9.9	10.5	12.8	8.8	7.1	102.2
PARTLY CLOUDY	55	6.1	5.9	7.2	8.5	10.1	12.5	13.2	12.2	9.1	8.0	6.8	7.0	106.6	
CLOUDY	55	18.5	15.5	16.3	13.2	13.0	9.5	9.7	8.9	10.4	10.2	14.4	17.0	156.6	
PR	MEAN STATION PRESSURE (IN)	27	29.50	29.46	29.39	29.37	29.35	29.36	29.41	29.43	29.47	29.48	29.50	29.43	29.43
	MEAN SEA-LEVEL PRES. (IN)	16	30.16	30.11	30.06	29.99	30.00	30.01	30.02	30.03	30.06	30.11	30.12	30.17	30.07
WINDS	MEAN SPEED (MPH)	47	9.0	9.1	9.7	9.0	7.4	6.9	6.5	6.0	6.3	6.7	8.3	8.8	7.8
	PREVAIL. DIR (TENS OF DEGS)	31	18	18	18	18	18	18	18	18	18	18	18	18	18
	MAXIMUM 2-MINUTE:														
	SPEED (MPH)	3	38	36	39	40	33	38	31	36	22	28	36	29	40
	DIR. (TENS OF DEGS)		26	02	17	25	33	01	02	33	02	18	26	30	25
	YEAR OF OCCURRENCE		1997	1998	1999	1998	1998	1999	1999	1999	1999	1997	1997	1998	APR 1998
	MAXIMUM 5-SECOND:														
SPEED (MPH)	3	61	47	48	59	46	47	45	49	29	33	45	35	61	
DIR. (TENS OF DEGS)		26	19	16	23	29	01	31	36	03	18	25	24	26	
YEAR OF OCCURRENCE		1999	1997	1999	1998	1998	1999	1999	1999	1999	1997	1997	1999	JAN 1999	
PRECIPITATION	NORMAL (IN)	30	3.58	3.81	4.85	4.37	4.88	3.57	3.97	3.46	3.46	2.62	4.12	4.61	47.30
	MAXIMUM MONTHLY (IN)	60	13.92	10.31	12.35	8.41	11.04	11.95	7.75	8.31	11.44	6.13	9.04	13.63	13.92
	YEAR OF OCCURRENCE		1950	1956	1975	1984	1983	1998	1950	1942	1979	1959	1945	1978	JAN 1950
	MINIMUM MONTHLY (IN)	60	0.19	0.64	1.18	0.52	0.69	0.45	0.71	0.69	0.28	T	0.54	0.98	T
	YEAR OF OCCURRENCE		1986	1968	1987	1986	1941	1988	1954	1968	1956	1963	1949	1985	OCT 1963
	MAXIMUM IN 24 HOURS (IN)	60	4.40	4.73	4.66	3.29	4.27	5.24	4.32	5.34	6.68	3.75	4.20	5.12	6.68
	YEAR OF OCCURRENCE		1946	1989	1975	1979	1984	1998	1992	1963	1979	1975	1997	1978	SEP 1979
	NORMAL NO. DAYS WITH:														
PRECIPITATION ≥ 0.01	30	10.3	10.3	11.6	10.8	10.9	9.3	10.4	8.3	8.2	7.2	10.1	11.0	118.4	
PRECIPITATION ≥ 1.00	30	0.7	0.7	1.1	1.2	1.5	0.9	1.2	1.0	0.7	0.7	1.0	1.5	12.2	
SNOWFALL	NORMAL (IN)	30	4.4	3.5	1.1	0.*	0.0	0.0	0.0	0.0	T	0.3	1.7	11.0	
	MAXIMUM MONTHLY (IN)	57	18.8	18.9	16.1	1.1	0.0	T	0.0	T	0.0	0.4	9.2	13.2	18.9
	YEAR OF OCCURRENCE		1948	1979	1960	1971		1994		1989		1993	1950	1963	FEB 1979
	MAXIMUM IN 24 HOURS (IN)	57	8.1	8.3	8.8	1.1	0.0	T	0.0	T	0.0	0.4	9.2	10.2	10.2
	YEAR OF OCCURRENCE		1988	1979	1951	1971		1994		1989		1993	1950	1963	DEC 1963
	MAXIMUM SNOW DEPTH (IN)	48	70	8	7	0	0	0	0	0	0	0	5	7	70
	YEAR OF OCCURRENCE		1948	1979	1968								1966	1963	JAN 1948
NORMAL NO. DAYS WITH:															
SNOWFALL ≥ 1.0	30	1.2	1.4	0.3	0.*	0.0	0.0	0.0	0.0	0.0	0.0	0.*	0.5	3.4	

PRECIPITATION (inches) 1999 NASHVILLE, TN (BNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	1.16	4.36	3.87	6.81	5.90	6.73	3.61	2.99	2.76	2.94	2.20	3.60	46.93
1971	2.66	4.70	2.95	3.34	2.93	3.47	5.00	5.87	2.11	1.27	1.18	5.17	40.65
1972	5.15	3.45	4.34	3.58	3.52	2.54	6.40	4.30	3.71	4.06	5.22	8.14	54.41
1973	3.40	3.63	9.88	7.00	5.72	4.80	7.67	1.79	1.56	3.32	7.78	3.23	59.78
1974	9.45	3.01	5.25	3.97	5.04	6.80	2.10	4.13	10.44	1.47	6.23	2.81	60.70
1975	4.67	5.22	12.35	3.55	6.52	2.22	2.96	4.69	5.42	5.86	3.00	4.12	60.58
1976	4.11	2.28	5.32	1.53	6.19	4.72	4.01	8.05	5.08	5.17	1.30	1.81	49.57
1977	2.53	3.27	5.83	7.87	1.65	4.29	1.15	4.65	5.04	4.22	5.96	4.25	50.71
1978	5.95	1.57	4.88	2.42	8.03	1.46	4.03	3.81	1.37	2.28	4.01	13.63	53.44
1979	7.13	4.01	4.92	7.80	8.18	2.79	4.27	4.59	11.44	3.97	5.98	5.04	70.12
1980	2.59	1.38	7.27	3.67	6.14	2.89	3.53	1.24	1.09	1.17	2.55	1.40	34.92
1981	1.60	3.83	3.38	4.78	3.05	8.05	3.49	3.10	1.37	2.82	3.83	2.38	41.68
1982	6.50	4.80	3.00	4.36	4.19	2.28	5.47	3.46	3.23	1.91	3.87	6.36	49.43
1983	2.56	2.93	3.44	6.80	11.04	3.93	1.71	1.36	0.45	2.77	6.98	7.75	51.72
1984	1.79	2.38	5.14	8.41	9.68	4.49	6.63	2.42	0.97	6.00	6.20	2.38	56.49
1985	3.02	3.30	2.70	2.91	2.65	1.53	2.00	3.91	2.52	1.59	3.81	0.98	30.92
1986	0.19	3.59	2.29	0.52	3.36	2.38	0.77	3.38	2.19	2.19	7.43	3.31	31.60
1987	1.61	4.87	1.18	1.03	4.41	2.82	2.56	0.73	1.95	0.21	3.40	5.46	30.23
1988	3.73	2.02	2.18	2.09	1.86	0.45	3.26	2.39	2.45	1.54	5.49	3.95	31.41
1989	4.52	9.36	5.31	2.68	4.61	7.87	3.18	3.67	6.30	3.62	3.94	1.97	57.03
1990	2.76	4.73	3.26	1.60	2.80	2.37	4.86	3.12	2.13	4.41	4.29	10.76	47.09
1991	2.92	5.44	4.25	3.35	5.63	1.25	2.82	1.79	5.47	3.88	2.87	7.27	46.94
1992	2.97	2.60	4.50	0.77	3.12	4.31	5.89	3.25	3.45	1.62	4.48	2.88	39.84
1993	2.76	3.33	5.50	3.33	4.50	5.31	3.64	1.76	2.90	2.20	2.53	6.62	44.38
1994	4.36	6.18	7.56	5.72	3.76	8.08	4.82	5.05	4.20	3.31	4.04	2.69	59.77
1995	5.61	1.81	3.87	3.95	7.66	3.69	1.95	3.40	5.00	5.60	3.98	2.32	48.84
1996	3.82	2.46	5.15	3.68	4.48	3.68	5.45	1.09	4.89	3.16	6.00	4.77	48.63
1997	4.19	3.10	9.64	2.42	4.92	6.66	3.26	3.52	5.75	2.71	6.59	2.19	54.95
1998	3.68	4.11	3.13	6.31	4.46	11.95	4.63	2.93	1.39	1.59	1.30	6.53	52.01
1999	9.28	2.33	4.27	2.29	4.35	3.56	3.19	3.05	1.97	2.04	2.99	2.50	41.82
POR= 129 YRS	4.58	4.09	5.08	4.14	4.11	3.89	3.87	3.28	3.30	2.50	3.62	4.01	46.47

WBAN : 13897

AVERAGE TEMPERATURE (°F) 1999 NASHVILLE, TN (BNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	32.4	38.4	46.8	61.3	68.4	73.6	77.2	79.2	76.9	61.0	47.5	43.2	58.8
1971	35.6	38.7	44.6	57.9	63.3	77.5	76.8	76.4	74.4	66.7	49.9	49.2	59.3
1972	41.8	41.8	50.2	60.5	67.4	73.0	77.3	77.2	75.7	60.2	47.3	42.8	59.6
1973	38.0	39.7	56.8	56.4	64.2	76.1	78.7	78.1	76.2	66.2	54.7	40.5	60.5
1974	45.4	41.8	54.9	58.6	70.0	71.4	78.0	77.6	67.5	59.4	50.0	42.6	59.8
1975	43.4	44.6	47.3	58.5	70.4	76.0	78.5	79.1	67.9	62.4	52.1	42.8	60.3
1976	36.7	50.5	55.9	59.9	64.0	73.3	76.4	74.4	66.8	53.9	40.9	36.6	57.4
1977	24.5	40.6	53.9	63.0	71.9	77.2	82.2	79.5	74.0	57.0	50.8	38.6	59.4
1978	27.6	29.2	46.9	61.0	66.7	76.2	80.5	78.7	75.5	57.4	53.6	42.4	58.0
1979	29.7	33.4	50.7	57.8	66.3	73.7	77.6	77.0	70.5	60.3	48.6	41.5	57.3
1980	39.7	35.7	46.3	57.3	67.8	75.5	82.8	81.7	76.0	57.8	48.5	41.0	59.2
1981	35.5	42.6	47.5	64.0	64.2	77.5	79.8	76.6	68.1	60.4	49.9	38.3	58.7
1982	34.0	39.5	52.5	54.6	71.0	73.3	79.8	76.1	69.6	61.1	51.4	48.2	59.3
1983	38.8	42.7	50.3	54.5	64.8	75.5	80.5	83.2	73.7	62.4	49.9	34.0	59.2
1984	32.2	43.4	46.1	58.2	64.2	77.4	76.1	76.5	68.6	66.7	46.0	49.6	58.8
1985	27.8	36.5	53.2	61.9	68.4	75.7	80.2	77.2	70.8	64.4	56.9	34.2	58.9
1986	37.2	44.7	50.8	60.8	68.6	76.5	82.4	76.7	74.9	61.0	49.9	39.9	60.3
1987	36.1	43.1	51.8	57.7	73.4	77.5	80.2	81.1	72.2	54.6	52.4	44.1	60.4
1988	34.4	38.7	49.3	57.1	67.3	77.3	81.4	81.9	72.8	54.2	51.1	42.4	59.0
1989	44.9	39.0	52.6	59.3	65.7	74.7	79.1	78.0	70.5	61.0	51.4	29.5	58.8
1990	45.8	49.9	53.6	58.4	66.4	78.2	80.4	79.6	74.7	60.1	54.3	43.7	62.1
1991	39.2	43.9	52.5	63.8	74.2	78.2	81.1	78.3	72.3	61.2	47.2	44.5	61.4
1992	40.0	45.9	50.1	59.6	65.8	72.4	79.9	74.9	70.9	59.4	49.5	41.2	59.1
1993	41.6	39.3	47.1	56.7	67.6	75.9	83.3	81.0	71.0	58.6	47.4	40.3	59.2
1994	33.4	44.0	50.7	62.5	64.1	78.1	78.5	77.1	69.1	61.0	54.5	45.3	59.9
1995	38.6	40.4		60.9	68.5	74.7	80.8	83.3	70.7	60.0	44.0	39.5	
1996	36.3	40.6	44.6	55.8	71.5	75.6	77.6	77.5	69.5	60.8	45.7	44.4	58.3
1997	37.3	45.6	53.6	54.4	63.2	72.0	79.8	76.9	71.9	59.8	45.5	39.5	58.3
1998	44.7	46.0	49.4	57.9	71.5	77.6	79.6	79.2	77.1	63.5	52.3	43.1	61.8
1999	42.5	45.8	45.6	62.6	67.6	76.5	81.9	79.4	71.9	59.9	54.0	43.7	61.0
POR= 129 YRS	38.6	41.0	49.6	59.4	68.1	76.2	78.9	78.3	72.1	60.8	49.1	41.0	59.4

HEATING DEGREE DAYS (base 65°F) 1999 NASHVILLE, TN (BNA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0	0	13	159	522	671	902	733	624	227	101	0	3952
1971-72	0	0	0	39	462	483	713	667	454	193	36	6	3053
1972-73	0	0	10	168	533	682	830	702	261	275	83	0	3544
1973-74	0	0	8	84	316	753	601	641	320	227	28	3	2981
1974-75	0	0	48	196	464	685	665	567	547	241	6	0	3419
1975-76	0	0	68	138	398	683	870	417	303	183	94	0	3154
1976-77	0	0	31	349	718	872	1250	679	350	129	28	1	4407
1977-78	0	0	3	255	425	813	1152	996	556	164	92	0	4456
1978-79	0	0	1	240	338	695	1088	877	449	213	57	0	3958
1979-80	0	0	5	180	487	723	777	848	571	240	38	0	3869
1980-81	0	0	9	259	487	739	909	621	537	97	96	0	3754
1981-82	0	0	42	175	445	820	956	707	416	309	8	0	3878
1982-83	0	0	30	194	413	537	806	620	458	322	71	0	3451
1983-84	0	0	45	121	447	956	1009	621	578	220	106	0	4103
1984-85	0	0	59	63	564	473	1146	794	383	145	25	6	3658
1985-86	0	0	30	91	264	948	854	561	432	171	55	0	3406
1986-87	0	3	0	175	447	773	889	608	401	242	6	0	3544
1987-88	0	0	7	317	376	640	941	756	485	242	43	2	3809
1988-89	0	0	5	343	408	693	618	721	397	258	90	0	3533
1989-90	0	0	36	158	408	1095	590	422	373	245	65	1	3393
1990-91	0	0	21	195	323	654	791	586	402	80	9	0	3061
1991-92	0	0	42	166	535	628	768	544	456	217	85	2	3443
1992-93	0	0	26	181	461	731	717	713	552	252	32	4	3669
1993-94	0	0	27	227	528	759	974	585	437	134	90	0	3761
1994-95	0	0	21	144	316	605	814	683		175	42	0	
1995-96	0	0	31	184	624	783	886	702	626	292	32	0	4160
1996-97	0	0	25	160	572	634	851	538	357	319	107	4	3567
1997-98	0	0	0	227	576	785	622	527	505	209	19	5	3475
1998-99	0	0	0	111	375	671	686	531	595	125	10	0	3104
1999-	0	0	18	185	322	654							

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COOLING DEGREE DAYS (base 65°F) 1999 NASHVILLE, TN (BNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
1970	0	0	0	56	163	265	386	446	374	40	1	1	1732
1971	0	0	0	23	55	380	374	360	293	101	16	1	1603
1972	0	0	1	62	117	250	385	387	341	24	6	0	1573
1973	0	0	14	25	61	339	432	412	351	128	8	0	1770
1974	0	0	16	39	191	203	410	399	130	30	22	0	1440
1975	3	0	3	55	183	341	424	444	164	62	19	0	1698
1976	0	1	28	36	68	257	363	299	92	10	0	0	1154
1977	0	0	11	74	253	371	543	458	281	13	4	0	2008
1978	0	0	1	50	152	344	489	432	324	13	2	0	1807
1979	0	0	11	5	103	264	393	381	175	44	0	0	1376
1980	0	0	0	17	131	322	562	527	344	44	1	0	1948
1981	0	0	1	71	81	383	464	366	145	42	0	0	1553
1982	0	0	37	4	199	256	470	352	177	84	12	21	1612
1983	0	0	9	12	69	320	488	568	315	49	2	0	1832
1984	0	0	0	21	87	382	352	364	173	121	0	1	1501
1985	0	2	24	59	137	335	479	386	206	79	29	0	1736
1986	0	0	1	52	174	352	551	371	304	59	0	0	1864
1987	0	0	0	31	272	381	479	507	227	3	7	0	1907
1988	0	0	5	17	120	380	515	531	246	17	0	0	1831
1989	0	0	21	93	120	298	446	408	208	39	8	0	1641
1990	0	4	26	51	115	401	485	458	315	52	10	0	1917
1991	0	0	22	50	300	403	507	419	268	57	4	0	2030
1992	0	0	0	60	115	233	471	311	208	15	2	0	1415
1993	0	0	1	9	121	336	573	506	215	33	7	0	1801
1994	0	3	0	66	67	400	426	381	152	26	8	0	1529
1995	0	0		60	158	297	496	573	210	34	1	0	
1996	0	4	0	22	240	324	397	395	166	35	0	2	1585
1997	0	0	13	6	61	222	465	374	211	72	0	0	1424
1998	0	0	27	5	227	391	459	447	370	69	1	1	1997
1999	0	0	0	60	100	354	533	453	229	35	1	0	1765

SNOWFALL (inches) 1999 NASHVILLE, TN (BNA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
1970-71	0.0	0.0	0.0	0.0	T	1.2	1.2	6.5	3.0	1.1	0.0	0.0	13.0
1971-72	0.0	0.0	0.0	0.0	0.1	T	0.4	0.5	0.9	T	0.0	0.0	1.9
1972-73	0.0	0.0	0.0	0.0	0.1	0.6	4.8	T	0.2	0.1	0.0	0.0	5.8
1973-74	0.0	0.0	0.0	0.0	0.0	2.4	T	0.3	T	0.0	0.0	0.0	2.7
1974-75	0.0	0.0	0.0	0.0	T	2.1	4.2	T	T	T	0.0	0.0	6.3
1975-76	0.0	0.0	0.0	0.0	T	T	1.1	2.3	T	0.0	0.0	0.0	3.4
1976-77	0.0	0.0	0.0	0.0	1.2	1.8	18.5	T	0.0	T	0.0	0.0	21.5
1977-78	0.0	0.0	0.0	0.0	T	0.1	12.9	9.8	2.4	0.0	0.0	0.0	25.2
1978-79	0.0	0.0	0.0	0.0	0.0	T	8.0	18.9	0.6	0.0	0.0	0.0	27.5
1979-80	0.0	0.0	0.0	0.0	T	T	0.3	6.6	3.1	0.0	0.0	0.0	10.0
1980-81	0.0	0.0	0.0	0.0	T	T	1.2	1.7	T	0.0	0.0	0.0	2.9
1981-82	0.0	0.0	0.0	0.0	0.0	0.2	4.8	3.7	1.0	0.0	0.0	0.0	9.7
1982-83	0.0	0.0	0.0	0.0	0.0	0.4	0.3	0.8	T	0.0	0.0	0.0	1.5
1983-84	0.0	0.0	0.0	0.0	0.0	0.7	5.3	3.7	T	0.0	0.0	0.0	9.7
1984-85	0.0	0.0	0.0	0.0	0.0	0.8	9.8	8.0	0.0	0.0	0.0	0.0	18.6
1985-86	0.0	0.0	0.0	0.0	0.0	0.5	0.4	2.1	T	0.0	0.0	0.0	3.0
1986-87	0.0	0.0	0.0	0.0	0.0	T	1.4	1.3	1.6	T	0.0	0.0	4.3
1987-88	0.0	0.0	0.0	0.0	T	T	8.6	1.4	T	0.0	0.0	0.0	10.0
1988-89	0.0	0.0	0.0	0.0	0.0	1.6	T	5.2	0.0	0.0	0.0	0.0	6.8
1989-90	0.0	T	0.0	T	T	0.4	T	T	0.4	0.0	0.0	0.0	0.8
1990-91	0.0	0.0	0.0	0.0	0.0	0.3	T	0.6	1.1	0.0	0.0	0.0	2.0
1991-92	0.0	0.0	0.0	0.0	T	0.0	T	0.0	1.0	0.0	0.0	0.0	1.0
1992-93	0.0	0.0	0.0	0.0	T	0.3	T	5.9	2.8	T	0.0	T	9.0
1993-94	0.0	0.0	0.0	0.4	T	0.3	2.3	1.0	T	T	0.0	T	4.0
1994-95	0.0	0.0	0.0	0.0	0.0	0.0	1.5	1.3	0.1	0.0	0.0	0.0	2.9
1995-96	0.0	0.0	0.0	0.0	T	0.4	6.2	7.8	9.3	0.0	0.0		
1996-97								0.2					
1997-98													
1998-99									1.0				
1999-													
POR= 54 YRS	0.0	T	0.0	0.0	0.4	1.4	3.7	2.9	1.5	0.0	0.0	T	9.9

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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 (1961 - 1990). 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 EIGHTHS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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1999  
NASHVILLE,  
TENNESSEE (BNA)

The city of Nashville is located on the Cumberland River, in the northwestern corner of the Central Basin of middle Tennessee near the escarpment of the Highland Rim. The Rim, as it is called, rises to the height of 300 to 400 feet above the mean elevation of the basin, forming an amphitheater about the city from the southwest to the southeast, with the south being more or less open but undulating.

Temperatures are moderate, with great extremes of either heat or cold rarely occurring, yet there are changes of sufficient amplitude and frequency to give variety.

Based on the 1951-1980 period, the average first occurrence of 32 degrees Fahrenheit in the fall is October 29 and the average last occurrence in the spring is April 5.

Humidity is an important phase of climate in relation to bodily health and comfort. The Nashville records show that the average relative humidity is moderate as compared with the general conditions east of the Mississippi River and south of the Ohio.

Nashville is not in the most frequented path of general storms that cross the country, however, it is in the zone of moderate frequency of thunderstorms. The thunderstorm season usually begins in the latter part of March and continues through September.

