

2000

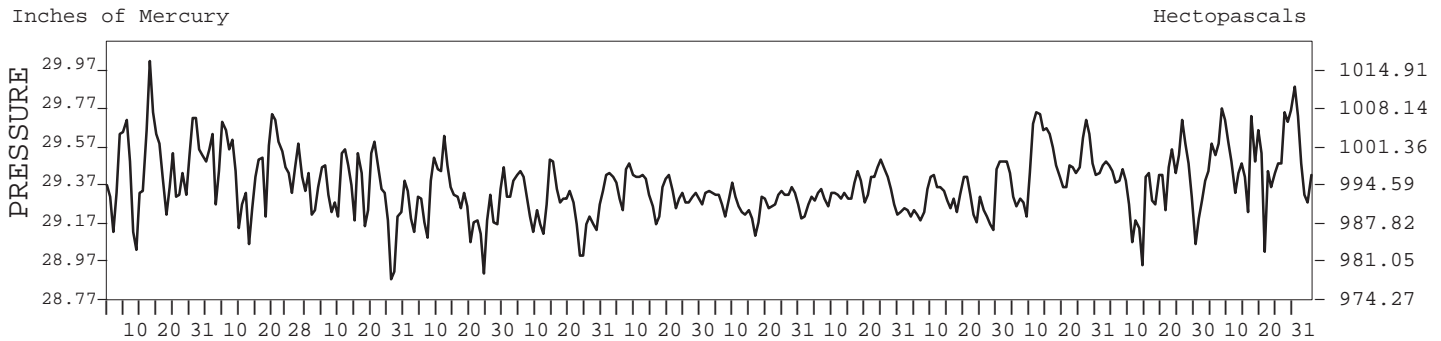
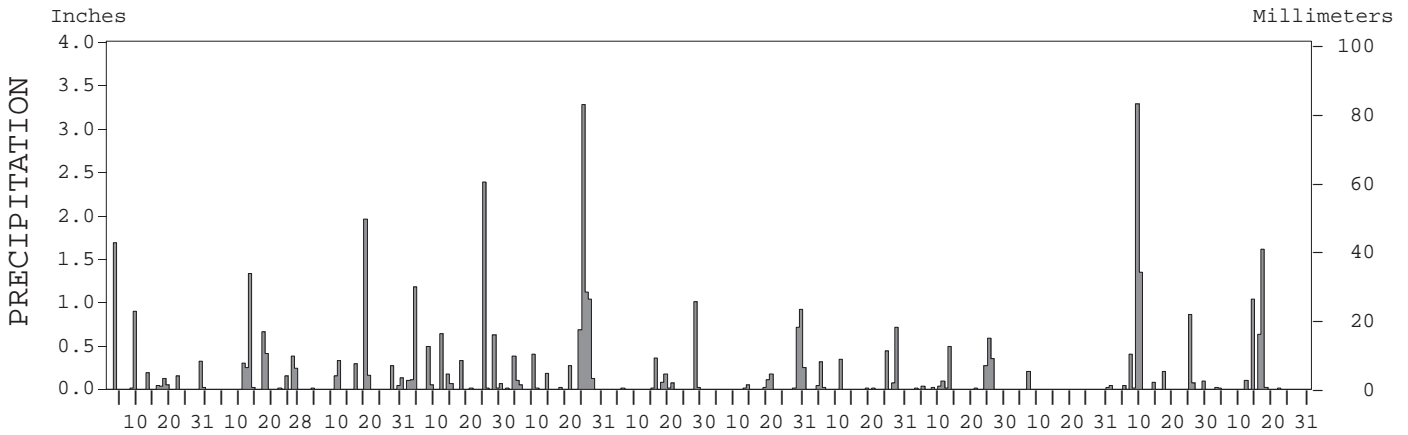
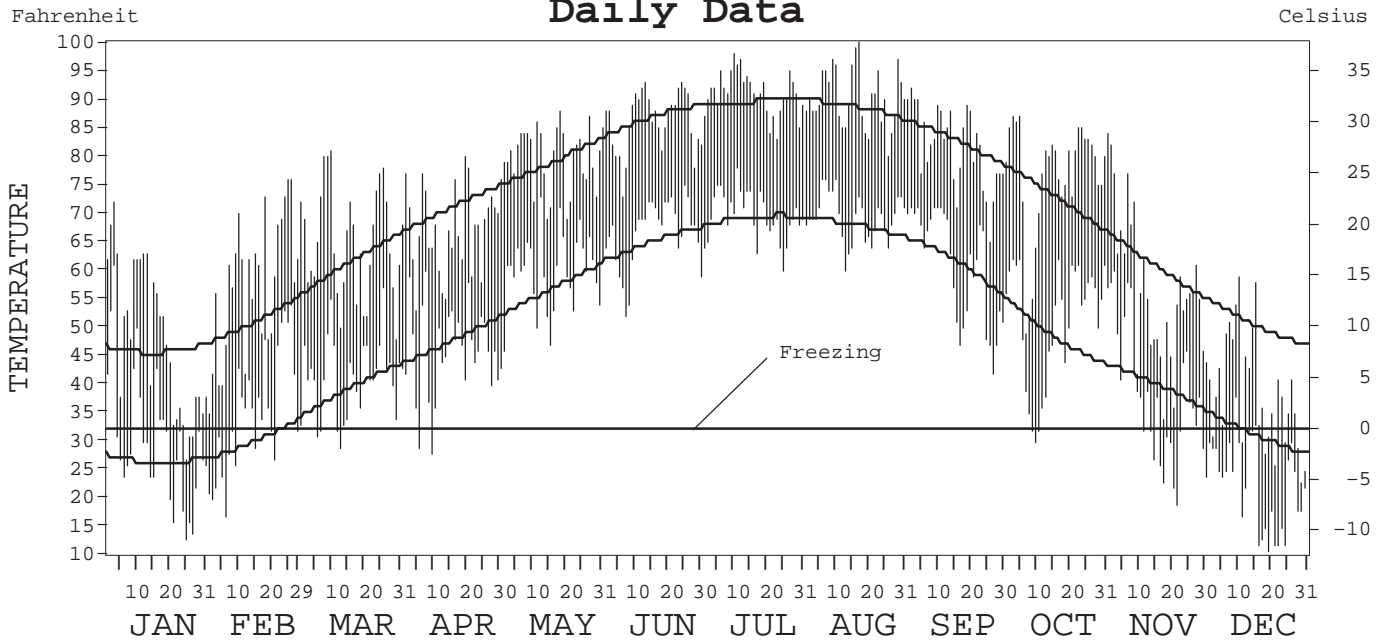
LOCAL CLIMATOLOGICAL DATA ANNUAL SUMMARY WITH COMPARATIVE DATA



ISSN 0198-4845

NASHVILLE, TENNESSEE (BNA)

Daily Data



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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION	NATIONAL ENVIRONMENTAL SATELLITE, DATA, AND INFORMATION SERVICE	NATIONAL CLIMATIC DATA CENTER ASHEVILLE, NORTH CAROLINA	DIRECTOR NATIONAL CLIMATIC DATA CENTER
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METEOROLOGICAL DATA FOR 2000

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	48.1	58.2	64.7	67.4	79.8	86.2	91.0	90.3	81.6	76.6	57.2	38.8	70.0	
	HIGHEST DAILY MAXIMUM	72	76	81	80	88	93	98	100	92	87	84	59	100	
	DATE OF OCCURRENCE	03	26+	09	19	18	13+	10	17	02	05+	01	11	AUG 17	
	MEAN DAILY MINIMUM	30.2	35.2	41.5	45.9	59.9	66.5	69.6	69.3	61.0	51.0	38.8	22.7	49.3	
	LOWEST DAILY MINIMUM	13	17	29	28	46	52	60	60	42	30	19	11	11	
	DATE OF OCCURRENCE	25	06	12	09	01	07	25	13	27	10	22	20	DEC 20	
	AVERAGE DRY BULB	39.2	46.7	53.1	56.7	69.9	76.4	80.3	79.8	71.3	63.8	48.0	30.8	59.7	
	MEAN WET BULB	35.9	41.6	46.8	50.8	63.8	68.2	69.8	70.7	63.8	55.4	43.5	28.4	53.2	
	MEAN DEW POINT	30.3	34.7	38.8	44.6	59.3	63.4	64.7	66.1	59.0	48.6	37.5	22.9	47.5	
	NUMBER OF DAYS WITH:														
	MAXIMUM ≥ 90°	0	0	0	0	0	9	22	16	4	0	0	0	0	51
	MAXIMUM ≤ 32°	3	0	0	0	0	0	0	0	0	0	0	9	12	
	MINIMUM ≤ 32°	22	13	4	2	0	0	0	0	0	3	11	29	84	
	MINIMUM ≤ 0°	0	0	0	0	0	0	0	0	0	0	0	0	0	
H/C	HEATING DEGREE DAYS	796	523	364	248	14	0	0	0	32	123	518	1051	3669	
	COOLING DEGREE DAYS	2	0	6	6	172	346	483	467	227	95	18	0	1822	
RH	MEAN (PERCENT)	74	65	61	67	70	67	63	66	69	62	69	73	67	
	HOUR 00 LST	77	73	66	77	79	77	73	77	78	74	77	75	75	
	HOUR 06 LST	80	80	79	83	85	81	80	84	85	83	81	80	82	
	HOUR 12 LST	70	54	48	58	58	55	48	51	56	44	58	66	56	
	HOUR 18 LST	71	55	50	57	59	55	53	54	58	50	60	71	58	
S	PERCENT POSSIBLE SUNSHINE														
W/O	NUMBER OF DAYS WITH:														
	HEAVY FOG (VISBY ≤ 1/4 MI)	2	1	0	3	2	1	0	2	1	0	2	2	16	
	THUNDERSTORMS	1	6	4	4	8	5	8	10	5	0	1	1	53	
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.)	29.45	29.44	29.31	29.26	29.25	29.32	29.26	29.31	29.30	29.46	29.34	29.50	29.35	
	MEAN SEA-LEVEL PRESS. (IN.)	30.20	30.19	30.05	30.00	29.98	30.04	29.98	30.03	30.02	30.20	30.08	30.26	30.09	
WINDS	RESULTANT SPEED (MPH)	1.3	2.7	0.5	2.1	2.5	3.6	1.3	0.1	1.4	0.7	1.2	1.6	0.9	
	RES. DIR. (TENS OF DEGS.)	27	21	35	24	23	21	35	04	08	35	24	31	24	
	MEAN SPEED (MPH)	7.9	8.0	7.7	8.0	7.3	6.4	6.3	6.1	6.4	4.9	6.7	7.5	6.9	
	PREVAIL. DIR. (TENS OF DEGS.)	33	18	18	20	20	19	18	19	18	18	18	27	18	
	MAXIMUM 2-MINUTE WIND:														
	SPEED (MPH)	38	33	28	28	30	23	38	25	28	20	35	29	38	
	DIR. (TENS OF DEGS.)	17	18	29	21	28	02	36	03	08	01	26	27	36	
	DATE OF OCCURRENCE	03	26	27	20+	27+	06	28	27	02	08	09	11	JUL 28	
	MAXIMUM 5-SECOND WIND:														
	SPEED (MPH)	51	40	37	37	47	29	47	30	33	25	44	38	51	
DIR. (TENS OF DEGS.)	17	18	29	20	32	22	35	03	29	36	26	28	17		
DATE OF OCCURRENCE	03	26	27	20	24	20	28	27	25	08	09	11	JAN 03		
PRECIPITATION	WATER EQUIVALENT:														
	TOTAL (IN.)	3.52	3.75	3.34	6.23	7.66	1.74	2.25	1.95	1.90	0.26	6.39	3.44	42.43	
	GREATEST 24-HOUR (IN.)	1.69	1.34	2.05	2.40	4.39	1.01	1.10	0.78	0.59	0.20	3.96	2.20	4.39	
	DATE OF OCCURRENCE	03	13-14	19-20	24-25	24-25	27	29-30	26-27	24	06	08-09	15-16	MAY 24-25	
	NUMBER OF DAYS WITH:														
	PRECIPITATION ≥ 0.01	11	10	9	15	14	9	9	9	11	3	10	8	118	
PRECIPITATION ≥ 0.10	6	8	7	9	10	3	5	4	4	1	5	4	66		
PRECIPITATION ≥ 1.00	1	1	1	2	3	1	0	0	0	0	2	2	13		
SNOWFALL	SNOW, ICE PELLETS, HAIL:														
	TOTAL (IN.)														
	GREATEST 24-HOUR (IN.)														
	DATE OF OCCURRENCE														
	MAXIMUM SNOW DEPTH (IN.)														
	DATE OF OCCURRENCE														
NUMBER OF DAYS WITH:															
SNOWFALL ≥ 1.0															

HEATING DEGREE DAYS (base 65°F) 2000 NASHVILLE, TN (BNA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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	437	175	42	0	3761
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
1999-00	0	0	18	185	322	654	796	523	364	248	14	0	3124
2000-	0	0	32	123	518	1051							

WBAN : 13897

COOLING DEGREE DAYS (base 65°F) 2000 NASHVILLE, TN (BNA)

YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	ANNUAL
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	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
2000	2	0	6	6	172	346	483	467	227	95	18	0	1822

SNOWFALL (inches) 2000 NASHVILLE, TN (BNA)

YEAR	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
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				
1999-00													
2000-													
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

WBAN : 13897

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 EIGHTS(OKTAS) FOR REPORTING THE AMOUNT OF SKY COVER.</p>
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2000
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.

STATION LOCATION

NASHVILLE, TENNESSEE

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	GROUND	WIND INSTRUMENT	EXTREME THERMOMETERS	PSYCHROMETER	SUNSHINE SWITCH	TRAINING GAUGE	WEIGHING RAIN GAGE	8 INCH RAIN GAGE	HYGROMETER		
*NOTE: AIRPORT																	
Government Services Bldg. Metropolitan AP	6/23/75	9/29/85	500 ft. E	36°07'	86°41'	590	i25				31	31	31	31	i5 j5		i. Not moved 6/23/75. j. Type change 10/18/84.
GENESCO Building Metropolitan Airport	9/29/85	06/15/90	Unknown	36°07'	86°41'	590	k25				103	103	103		k5		k. Not moved 9/29/85.
Airport State Fire Protection Bldg.	6/15/90	06/01/96		36°07'	86°41'	598	m33				m8	m5	m5		5		m. Relocated 6/15/90.
Metropolitan Airport	06/01/96	Present	NA	36°07'	86°41'	692										S	ASOS Commissioned 06/01/96

SUBSCRIPTION:
Price and ordering information available through : National ClimaticDataCenter, Federal building, Asheville, North Carolina 28801.

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* NOTES: For earlier station history see previous editions.