



MARCH 2004

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

KNOXVILLE, TN

MC GHEE TYSON AIRPORT (TYS)
 Lat: 35° 49' N Long: 83° 59' W Elev (Ground): 979 Feet
 Time Zone: EASTERN WBAN: 13891 ISSN #:0198-4810

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES						DATE																																					
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																								
																			5-SEC		2-MIN																																						
																			SPEED	DIR	SPEED		DIR																																				
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																					
01	73	40	57	11	44	51	8	0		0	0.0	0.00	29.08	30.12	9.1	20	10.7	36	21	29	22	01																																					
02	67	48	58	12	55	56	7	0	RA DZ FG+ BR	0	0.0	0.69	29.15	30.19	8.2	23	8.9	36	20	29	21	02																																					
03	59	47	53	7	52	53	12	0	FG+ BR	0	0.0	0.00	29.22	30.27	2.0	01	2.4	10	05	9	04	03																																					
04	75	49	62	16	52	57	3	0	BR HZ	0	0.0	0.00	29.06	30.10	6.4	21	6.9	26	21	23	21	04																																					
05	76	63	70*	24	58	63	0	5	RA BR	0	0.0	0.25	28.91	29.93	20.0	21	20.4	43	20	33	22	05																																					
06	70	51	61	14	51	55	4	0	RA SHRA BR	0	0.0	1.47	28.92	29.94	11.2	26	12.7	45	20	32	21	06																																					
07	64	40	52	5	37	44	13	0	RA BR	0	0.0	0.04	29.01	30.05	7.8	26	8.8	47*	31	35*	31	07																																					
08	51	37	44	-3	22	35	21	0		0	0.0	0.00	29.06	30.11	9.0	27	9.8	28	29	20	30	08																																					
09	50	35	43	-5	30	37	22	0	RA BR	0	0.0	0.10	28.94	29.99	5.0	02	6.4	23	02	17	01	09																																					
10	51	33	42	-6	24	35	23	0		0	0.0	0.00	29.18	30.24	5.2	03	6.3	16	36	13	03	10																																					
11	62	27	45	-3	29	39	20	0		0	0.0	0.00	29.12	30.18	9.1	25	10.1	26	23	23	23	11																																					
12	56	38	47	-2	19	36	18	0		0	0.0	0.00	29.14	30.19	8.2	27	9.0	21	31	18	28	12																																					
13	59	33	46	-3	22	36	19	0		0	0.0	0.00	29.26	30.32	7.6	04	8.2	20	03	16	03	13																																					
14	69	42	56	7	38	47	9	0	RA	0	0.0	0.02	29.19	30.24	5.6	25	7.4	36	23	30	23	14																																					
15	57	48	53	4	48	50	12	0	RA BR	0	0.0	0.16	29.10	30.14	5.8	04	6.1	15	06	13	05	15																																					
16	66	44	55	5	45	50	10	0	TSRA RA FG BR	0	0.0	0.37	28.80	29.84	8.4	26	11.2	33	26	29	27	16																																					
17	56	40	48	-2	34	42	17	0		0	0.0	0.00	28.93	29.98	6.9	25	7.3	20	27	16	27	17																																					
18	60	44	52	2	46	48	13	0	TSRA RA BR	0	0.0	0.49	29.00	30.05	2.9	23	7.7	23	23	18	22	18																																					
19	65	40	53	2	36	46	12	0	FG+ BR	0	0.0	0.00	29.23	30.28	2.1	03	3.4	14	01	12	01	19																																					
20	76	38	57	6	46	51	8	0	TSRA RA	0	0.0	0.19	29.17	30.22	6.8	24	9.2	35	29	29	30	20																																					
21	59	32	46	-5	27	38	19	0	RA	0	0.0	T	29.16	30.21	8.9	34	10.5	22	33	20	01	21																																					
22	46	29	38*	-13	15	30	27	0		0	0.0	0.00	29.30	30.37	5.9	02	6.8	21	01	16	01	22																																					
23	57	25*	41	-11	18	33	24	0		0	0.0	0.00	29.37	30.44	1.3	27	4.2	17	24	14	23	23																																					
24	69	40	55	3	30	44	10	0		0	0.0	0.00	29.35	30.41	3.5	24	4.8	17	26	14	25	24																																					
25	73	47	60	8	40	51	5	0		0	0.0	0.00	29.39	30.43	4.0	25	5.6	16	25	13	24	25																																					
26	76	50	63	11	48	56	2	0		0	0.0	0.00	29.33	30.37	4.9	25	6.1	20	27	16	25	26																																					
27	77	51	64	11	49	56	1	0		0	0.0	0.00	29.22	30.26	3.6	24	4.8	21	24	17	24	27																																					
28	80*	52	66	12	50	57	0	1	HZ	0	0.0	0.00	29.12	30.16	0.4	27	1.3	9	27	7	32	28																																					
29	77	56	67	13	52	59	0	2	RA	0	0.0	T	29.05	30.08	4.1	26	6.7	22	23	21	23	29																																					
30	65	48	57	3	47	52	8	0	RA BR	0	0.0	0.41	28.93	29.96	8.6	25	10.5	29	25	25	26	30																																					
31	50	43	47	-7	40	44	18	0	RA DZ BR	0	0.0	0.42	28.84	29.88	4.8	27	8.1	22	27	18	27	31																																					
64.2										42.3		53.3		■ ■		38.8		46.8		11.8		0.3		< MONTHLY AVERAGES		TOTALS->		0.0		4.61		29.11		30.16		3.8		26		7.8		<- MONTHLY AVERAGES																	
3.9										3.2		3.6		■ ■		<-----DEPARTURE FROM NORMAL----->										-		.56		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																													
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.72 DATE :05-06										SEA LEVEL PRESSURE DATE TIME																																							
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE :										MAXIMUM : 30.53 23 0953																													
HEATING: 365 -102										3337 -58										GREATEST SNOW DEPTH: 0 DATE :										MINIMUM : 29.72 05 2353																													
COOLING: 8 3										10 4										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 4										PRECIPITATION ≥ 0.01 INCH : 12									
																														MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 10									
																														THUNDERSTORMS : 3										HEAVY FOG : 3										SNOWFALL ≥ 1.0 INCH : 0									

MARCH 2004
KNOXVILLE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

MARCH 2004

TYS

WBAN # 13891

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02					0.01	0.12	0.16	0.07	0.08	0.05	0.04	0.12	02	0.03	0.01	T	T	T							02		0.69		
03		T	T	T									03												03		0.00		
04													04												04		0.00		
05													05						T	T	0.01	0.02	0.16	0.06	05		0.25		
06	T	0.36	0.70	0.18	0.14	0.08	0.01						06		T										06		1.47		
07													07			T	0.02	0.02							07		0.04		
08													08												08		0.00		
09													09	T	T	0.02	0.07	T	T	T	0.01				09		0.10		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.02		
15			T	T	0.01								15		0.07	.01	0.01	T	0.01	0.01	0.02	T	T	T	0.01	0.03	0.16		
16	T	0.01	0.02	0.02	0.10	0.18	0.03	0.01					16												16		0.37		
17													17			T									17		0.00		
18			T	0.01	0.02	0.07	0.02	0.05	0.19	0.10	0.01		18		T									T	0.02	0.49			
19													19												19		0.00		
20										0.01			20				0.01	0.09	0.06			0.01	T	0.01	20		0.19		
21	T												21												21		T		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29												29		T		
30	0.01	0.02	0.02	0.05	0.10	0.10	0.06	0.01					30												30		0.41		
31	T	0.05	0.07	T	T	T	T				T	0.18	31	0.09	T	0.03	0.01							0.02	0.01	31		0.42	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.13	.21	.31	.39	.56	.73	.86	.99	1.09	1.14	1.23	1.32
Ending Date	06	06	06	06	06	06	06	06	06	06	06	06
Ending Time (Hour/Min)	0202	0204	0202	0204	0214	0226	0230	0251	0304	0328	0354	0424

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)
 T = Trace precipitation amount
 + = also occurs on earlier date
 FG+ = Heavy fog, visibility .25 miles or less
 BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971–2000

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
 '+ ' = Heavy ' ' = Moderate '- ' = Light

KNOXVILLE, TN MARCH 2004

Ceilorometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							.25	10.00	
03							.06	10.00	
04							.75	10.00	
05							3.00	10.00	
06							1.25	10.00	
07							.50	10.00	
08							10.00	10.00	
09							2.00	10.00	
10							10.00	10.00	
11							8.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							9.00	10.00	
15							1.25	10.00	
16							.50	10.00	
17							10.00	10.00	
18							2.00	10.00	
19							.25	10.00	
20							3.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							10.00	10.00	
27							7.00	10.00	
28							3.00	10.00	
29							9.00	10.00	
30							3.00	10.00	
31							2.50	10.00	
MONTHLY AVGS							5.80	10.00	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING									
31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0									
1 14 16									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MARCH 2004

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0705					MAR 01					SUNSET: 1831					SUNRISE: 0657					MAR 07					SUNSET: 1837				
01	BKN	250		10.00		46	31	40	56	3	VR	29.16	30.20	01	FEW	NC		10.00		50	44	47	80	5	02	29.05	30.09		
04	BKN	250		10.00		41	34	38	76	6	36	29.13	30.18	04	FEW	NC		10.00		46	42	44	86	0	00	29.02	30.06		
07	OVC	065		10.00		43	35	40	74	0	00	29.17	30.21	07	BKN	001		0.75	BR	42	41	42	96	5	33	29.03	30.07		
10	BKN	250		10.00		63	46	54	54	16	18	29.15	30.18	10	FEW	NC		10.00		52	47	49	83	7	22	29.04	30.08		
13	BKN	060		10.00		70	49	58	47	17	21	29.07	30.11	13	FEW	NC		10.00		61	41	51	48	13	25	28.98	30.01		
16	BKN	065		10.00		69	48	57	47	17	19	29.01	30.06	16	BKN	085		10.00	-RA	61	39	50	44	15	26	28.87	29.90		
19	OVC	060		10.00		66	50	57	56	16	20	29.03	30.07	19	SCT	NC		10.00		48	32	41	54	13	28	29.01	30.06		
22	OVC	060		10.00		66	49	57	54	12	20	29.01	30.04	22	FEW	NC		10.00		46	23	37	40	9	26	29.04	30.08		
SUNRISE: 0704					MAR 02					SUNSET: 1832					SUNRISE: 0656					MAR 08					SUNSET: 1838				
01	OVC	050		10.00		66	52	58	61	23	22	29.02	30.04	01	CLR	NC		10.00		45	20	36	37	9	27	29.05	30.10		
04	OVC	030		10.00		61	56	58	84	16	22	29.03	30.06	04	SCT	NC		10.00		44	21	35	40	15	29	29.05	30.09		
07	OVC	017		3.00	RA BR	58	58	58	100	7	26	29.09	30.13	07	SCT	NC		10.00		38	22	32	53	9	27	29.08	30.13		
10	OVC	032		7.00	-RA	57	56	56	96	7	22	29.16	30.19	10	SCT	NC		10.00		42	23	35	47	14	28	29.12	30.17		
13	OVC	015		7.00	-RA	56	55	55	97	12	18	29.19	30.22	13	FEW	NC		10.00		46	25	38	44	12	28	29.10	30.15		
16	OVC	019		5.00	-DZ BR	56	54	55	93	8	28	29.17	30.21	16	SCT	NC		10.00		50	18	38	28	14	31	29.04	30.09		
19	BKN	110		10.00		55	55	55	100	3	23	29.20	30.24	19	SCT	NC		10.00		46	19	36	34	8	28	29.02	30.08		
22	BKN	001		1.00	BR	51	51	51	100	0	00	29.23	30.28	22	BKN	100		10.00		42	22	34	45	8	24	29.02	30.07		
SUNRISE: 0703					MAR 03					SUNSET: 1833					SUNRISE: 0655					MAR 09					SUNSET: 1839				
01	VV	001		0.06	FG	48	48	48	100	0	00	29.25	30.31	01	OVC	110		10.00		42	24	35	49	3	19	28.97	30.02		
04	OVC	001		1.25	BR	49	49	49	100	3	36	29.24	30.29	04	BKN	110		10.00		39	23	33	53	3	03	28.87	29.93		
07	VV	001		0.25	FG	50	50	50	100	5	01	29.27	30.32	07	OVC	120		10.00		36	28	33	73	0	00	28.86	29.91		
10	OVC	005		2.50	BR	53	53	53	100	3	32	29.26	30.32	10	SCT	NC		10.00		44	27	37	51	3	01	28.85	29.89		
13	OVC	038		9.00		57	54	55	90	0	00	29.26	30.31	13	OVC	046		10.00		49	30	41	48	10	03	28.86	29.90		
16	OVC	060		10.00		59	55	57	87	0	00	29.19	30.23	16	OVC	013		5.00	-RA BR	39	37	38	93	12	02	28.94	29.99		
19	OVC	065		10.00		58	55	56	90	0	00	29.17	30.21	19	OVC	018		9.00	-RA	40	37	39	89	3	02	29.03	30.09		
22	SCT	NC		7.00		53	53	53	100	3	33	29.16	30.21	22	OVC	060		10.00		40	33	37	77	7	VR	29.09	30.14		
SUNRISE: 0701					MAR 04					SUNSET: 1834					SUNRISE: 0653					MAR 10					SUNSET: 1839				
01	VV	001		0.75	BR	52	52	52	100	0	00	29.14	30.18	01	OVC	075		10.00		38	30	35	73	9	36	29.11	30.17		
04	OVC	075		2.50	BR	51	51	51	100	0	00	29.13	30.18	04	OVC	034		10.00		36	29	33	76	7	02	29.12	30.18		
07	OVC	080		4.00	BR	52	51	52	97	0	00	29.16	30.20	07	SCT	NC		10.00		33	27	31	78	8	02	29.19	30.25		
10	SCT	NC		6.00	HZ	62	57	59	84	0	00	29.15	30.18	10	FEW	NC		10.00		41	25	35	53	7	06	29.21	30.28		
13	SCT	NC		7.00		74	54	62	50	14	24	29.06	30.09	13	FEW	NC		10.00		46	21	36	37	0	00	29.21	30.28		
16	BKN	120		10.00		73	50	60	44	18	20	29.01	30.04	16	CLR	NC		10.00		51	19	39	28	9	36	29.19	30.24		
19	OVC	120		10.00		66	51	58	59	6	19	28.99	30.02	19	CLR	NC		10.00		46	22	37	38	9	09	29.19	30.25		
22	BKN	070		10.00		66	51	58	59	8	18	28.98	30.01	22	CLR	NC		10.00		42	21	34	43	0	00	29.20	30.25		
SUNRISE: 0660					MAR 05					SUNSET: 1835					SUNRISE: 0652					MAR 11					SUNSET: 1840				
01	OVC	250		10.00		63	52	57	68	10	27	28.94	29.96	01	CLR	NC		10.00		36	24	32	62	0	00	29.18	30.24		
04	OVC	130		10.00		68	53	59	59	23	21	28.97	29.99	04	CLR	NC		10.00		31	27	29	85	0	00	29.19	30.25		
07	OVC	070		10.00		67	54	59	63	21	21	28.98	30.00	07	SCT	NC		8.00		29	25	28	85	0	00	29.20	30.27		
10	OVC	250		10.00		70	57	62	64	22	22	28.98	30.00	10	SCT	NC		10.00		49	29	40	46	16	23	29.19	30.24		
13	BKN	050		10.00		74	59	65	60	28	22	28.95	29.98	13	BKN	250		10.00		57	28	44	33	17	23	29.09	30.14		
16	OVC	100		9.00		71	60	64	68	21	21	28.90	29.92	16	OVC	080		10.00		60	31	47	33	15	24	29.05	30.10		
19	OVC	080		10.00	-RA	70	60	64	71	14	21	28.86	29.87	19	OVC	080		10.00		58	32	46	38	12	24	29.02	30.07		
22	OVC	039		5.00	RA	69	63	65	81	28	21	28.79	29.80	22	OVC	070		10.00		55	33	45	44	14	27	29.07	30.11		
SUNRISE: 0659					MAR 06					SUNSET: 1836					SUNRISE: 0650					MAR 12					SUNSET: 1841				
01	OVC	043		10.00	-RA	70	62	65	76	17	22	28.72	29.73	01	CLR	NC		10.00		46	26	38	46	6	25	29.09	30.14		
04	OVC	029		4.00	+RA BR	58	57	57	97	9	27	28.83	29.85	04	CLR	NC		10.00		44	24	36	45	9	27	29.09	30.14		
07	OVC	110		10.00	-RA	54	53	53	97	12	22	28.86	29.88	07	CLR	NC		10.00		38	22	32	53	7	28	29.13	30.18		
10	OVC	029		10.00		57	52	54	83	20	24	28.91	29.94	10	CLR	NC		10.00		46	20	36	35	10	24	29.16	30.21		
13	BKN	080		10.00	-SHRA	65	50	57	59	17	27	28.94	29.96	13	CLR	NC		10.00		51	18	38	27	13	24	29.15	30.19		
16	BKN	060		10.00		65	48	56	54	18	25	28.93	29.96	16	FEW	NC		10.00		55	12	39	18	9	28	29.10	30.15		
19	BKN	180		10.00		61	47	54	60	9	31	28.99	30.02	19	FEW	NC		10.00		49	16	37	27	8	30	29.13	30.19		
22	SCT	NC		10.00		55	46	50	72	3	32	29.04	30.08	22	CLR	NC		10.00		44	17	34	34	7	30	29.21	30.27		

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

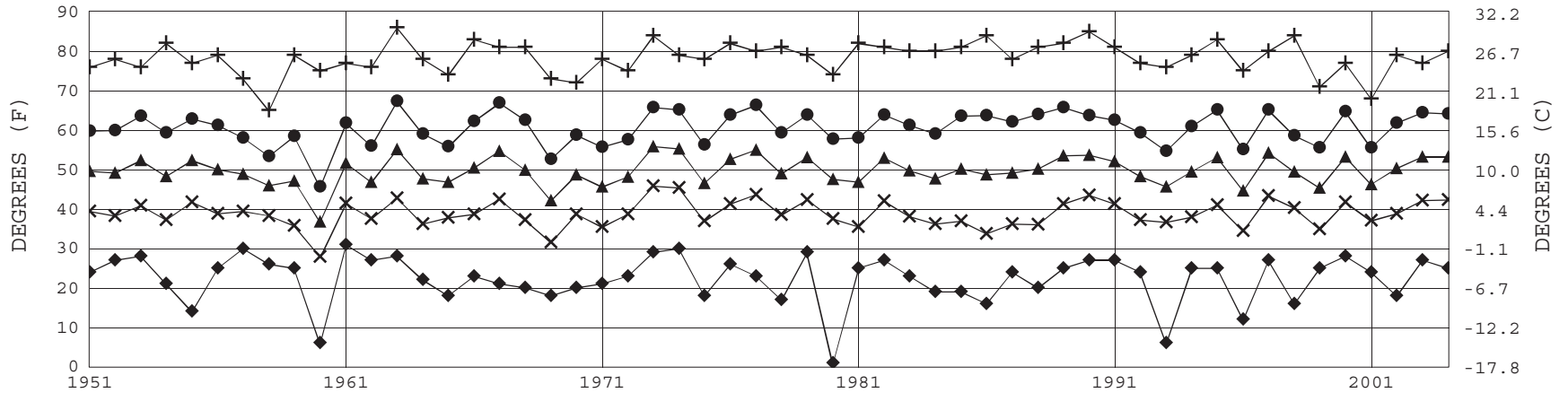
MARCH 2004

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION
SUNRISE: 0649				MAR 13				SUNSET: 1842				SUNRISE: 0640				MAR 19				SUNSET: 1847						
01	CLR	NC		10.00	37	19	31	48	5	05	29.24	30.31	01	FEW	NC		6.00	BR	51	50	51	96	3	27	29.10	30.15
04	CLR	NC		10.00	34	20	29	56	9	05	29.25	30.31	04	CLR	NC		1.25	BR	49	49	49	100	0	00	29.14	30.19
07	BKN	250		10.00	34	19	29	54	7	03	29.28	30.34	07	SCT	NC		4.00	BR	40	40	40	100	5	03	29.21	30.27
10	BKN	250		10.00	43	20	34	40	12	03	29.34	30.41	10	FEW	NC		10.00		53	34	44	49	7	03	29.28	30.33
13	SCT	NC		10.00	53	22	40	30	10	04	29.30	30.37	13	CLR	NC		10.00		59	32	47	36	7	05	29.28	30.33
16	SCT	NC		10.00	58	24	44	27	12	04	29.21	30.27	16	CLR	NC		10.00		64	28	48	26	0	00	29.25	30.30
19	BKN	200		10.00	53	23	41	31	7	03	29.21	30.27	19	CLR	NC		10.00		60	28	46	30	5	06	29.24	30.30
22	OVC	250		10.00	49	27	40	43	3	24	29.26	30.32	22	CLR	NC		10.00		53	31	43	43	5	08	29.26	30.32
SUNRISE: 0648				MAR 14				SUNSET: 1843				SUNRISE: 0639				MAR 20				SUNSET: 1848						
01	BKN	250		10.00	48	29	40	48	9	29	29.21	30.26	01	CLR	NC		10.00		46	37	42	71	0	00	29.27	30.32
04	OVC	150		10.00	46	29	39	51	5	01	29.22	30.27	04	CLR	NC		10.00		39	36	38	89	5	05	29.23	30.29
07	SCT	NC		10.00	43	29	37	58	3	01	29.24	30.30	07	BKN	110		10.00		41	36	39	82	0	00	29.27	30.33
10	BKN	200		10.00	56	28	44	34	0	00	29.24	30.29	10	BKN	090		10.00		50	41	46	71	6	17	29.28	30.34
13	SCT	NC		10.00	69	38	53	32	22	22	29.18	30.22	13	BKN	055		10.00		70	48	58	46	12	23	29.18	30.22
16	OVC	250		10.00	65	40	52	40	15	25	29.13	30.16	16	BKN	250		10.00		74	51	61	45	25	24	29.05	30.09
19	OVC	075		9.00	56	49	52	77	6	23	29.16	30.21	19	OVC	050		3.00	TSRA	59	57	58	93	8	34	29.13	30.17
22	OVC	080		9.00	56	49	52	77	3	27	29.17	30.21	22	OVC	090		10.00	-RA	58	56	57	93	8	24	29.06	30.10
SUNRISE: 0646				MAR 15				SUNSET: 1844				SUNRISE: 0638				MAR 21				SUNSET: 1849						
01	OVC	060		7.00	54	50	52	87	0	00	29.17	30.20	01	OVC	038		10.00		58	53	55	84	15	28	29.05	30.08
04	OVC	080		9.00	50	45	47	83	9	02	29.18	30.22	04	OVC	038		10.00		53	30	43	41	12	33	29.05	30.08
07	OVC	041		10.00	49	42	46	77	8	03	29.19	30.23	07	BKN	250		10.00		46	22	37	38	7	34	29.12	30.16
10	BKN	250		9.00	54	45	49	72	9	05	29.17	30.22	10	SCT	NC		10.00		45	28	38	52	10	34	29.18	30.23
13	OVC	075		9.00	57	46	51	67	7	03	29.12	30.16	13	SCT	NC		10.00		45	25	37	46	12	02	29.19	30.23
16	OVC	047		4.00	56	51	53	84	5	07	29.05	30.10	16	SCT	NC		10.00		46	22	37	38	12	33	29.18	30.23
19	OVC	080		3.00	53	51	52	93	7	04	29.03	30.07	19	SCT	NC		10.00		38	19	31	47	10	35	29.23	30.29
22	OVC	075		2.00	52	51	52	97	5	06	28.97	30.01	22	FEW	NC		10.00		36	19	30	50	10	02	29.24	30.31
SUNRISE: 0645				MAR 16				SUNSET: 1845				SUNRISE: 0636				MAR 22				SUNSET: 1850						
01	OVC	001		1.00	52	51	52	97	3	32	28.88	29.92	01	FEW	NC		10.00		31	21	28	67	7	05	29.22	30.29
04	VV	001		0.50	51	51	51	100	0	00	28.78	29.81	04	OVC	040		10.00		32	21	28	64	6	35	29.22	30.29
07	OVC	037		6.00	53	52	52	96	8	19	28.79	29.82	07	BKN	150		10.00		31	21	28	67	6	01	29.28	30.36
10	OVC	034		10.00	59	55	57	87	21	22	28.76	29.78	10	SCT	NC		10.00		36	15	29	42	9	36	29.36	30.43
13	SCT	NC		10.00	65	49	56	56	23	26	28.75	29.77	13	CLR	NC		10.00		41	13	32	32	9	33	29.33	30.40
16	SCT	NC		10.00	61	34	48	36	15	29	28.77	29.80	16	CLR	NC		10.00		45	13	34	27	8	35	29.28	30.35
19	FEW	NC		10.00	56	35	46	46	13	31	28.81	29.84	19	CLR	NC		10.00		42	7	31	23	6	02	29.29	30.37
22	SCT	NC		10.00	49	36	43	61	0	00	28.87	29.91	22	CLR	NC		10.00		36	9	28	32	5	05	29.33	30.41
SUNRISE: 0643				MAR 17				SUNSET: 1845				SUNRISE: 0635				MAR 23				SUNSET: 1851						
01	BKN	065		10.00	44	38	41	79	7	28	28.88	29.91	01	CLR	NC		10.00		31	12	25	45	3	35	29.36	30.44
04	OVC	041		10.00	42	37	40	82	6	25	28.88	29.92	04	CLR	NC		10.00		26	18	23	71	3	12	29.37	30.45
07	BKN	041		10.00	40	36	38	86	7	24	28.91	29.96	07	CLR	NC		10.00		28	20	25	72	5	36	29.41	30.49
10	BKN	090		10.00	46	33	40	61	13	26	28.96	30.01	10	CLR	NC		10.00		40	17	32	40	0	00	29.46	30.53
13	BKN	036		10.00	51	36	44	56	9	22	28.96	30.01	13	CLR	NC		10.00		50	17	38	27	9	24	29.40	30.47
16	BKN	060		10.00	55	31	44	40	10	26	28.91	29.96	16	CLR	NC		10.00		56	14	40	19	6	28	29.32	30.39
19	SCT	NC		10.00	50	31	42	48	6	24	28.92	29.98	19	FEW	NC		10.00		54	17	40	23	0	00	29.32	30.39
22	BKN	080		10.00	50	34	43	54	6	24	28.98	30.03	22	FEW	NC		10.00		47	21	37	36	0	00	29.36	30.42
SUNRISE: 0642				MAR 18				SUNSET: 1846				SUNRISE: 0633				MAR 24				SUNSET: 1851						
01	BKN	075		10.00	50	32	42	50	0	00	28.98	30.03	01	OVC	095		10.00		47	22	37	37	0	00	29.36	30.42
04	OVC	050		10.00	46	42	44	86	6	36	28.97	30.02	04	OVC	110		10.00		45	30	39	56	0	00	29.35	30.40
07	OVC	070		5.00	45	44	45	97	6	08	29.02	30.07	07	BKN	080		10.00		44	31	39	60	0	00	29.40	30.46
10	OVC	050		4.00	46	44	45	93	5	06	29.02	30.06	10	BKN	080		10.00		51	25	40	36	3	VR	29.43	30.49
13	OVC	080		10.00	52	47	49	83	5	24	28.99	30.04	13	SCT	NC		10.00		63	29	47	28	8	23	29.37	30.42
16	BKN	047		10.00	57	50	53	78	12	19	28.96	30.00	16	SCT	NC		10.00		69	30	51	23	10	28	29.28	30.32
19	SCT	NC		10.00	57	49	53	75	12	24	29.01	30.05	19	SCT	NC		10.00		64	32	49	30	6	25	29.28	30.33
22	OVC	070		3.00	57	50	53	78	13	22	29.03	30.08	22	CLR	NC		10.00		58	32	46	38	12	22	29.35	30.40

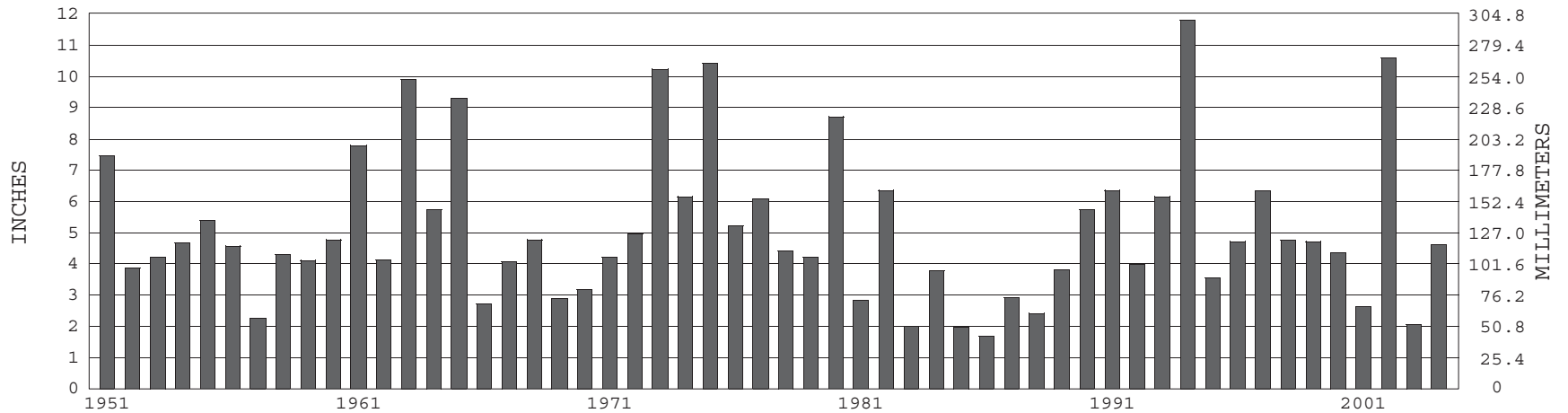
KNOXVILLE, TN MARCH TEMPERATURES



+ Extreme Max. ● Mean Max. ▲ Mean × Mean Min. ◆ Extreme Min.

Long-Term (1951-2004) Mean: 49.7 1971-2000 Normal: 49.7

KNOXVILLE, TN MARCH PRECIPITATION



Long-Term (1951-2004) Mean Monthly Total: 5.09

1971-2000 Normal: 5.17



MARCH 2004

KNOXVILLE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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