



JANUARY 2003

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										
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24								
01	60	47	54*	16	51	52	11	0	RA FG+ BCFG BR				0.36	28.65	29.68	6.5	23	7.5	17	21	15	24	01								
02	53	45	49	11	47	48	16	0	RA DZ BR				0.26	28.78	29.81	8.1	25	8.6	21	26	17	26	02								
03	46	31	39	1	31	34	26	0	RA DZ SN BR				0.06	28.92	29.98	9.6	28	10.0	21	27	17	28	03								
04	41	30	36	-2	23	30	29	0	SN				T	29.05	30.12	1.9	31	3.8	12	27	9	27	04								
05	50	32	41	3	34	38	24	0	RA BR				0.05	28.95	30.01	2.2	27	4.4	22	25	18	26	05								
06	43	32	38	1	30	35	27	0	SN				T	29.14	30.20	7.4	28	8.7	22	28	17	29	06								
07	41	25	33	-4	20	29	32	0					0.00	29.19	30.26	5.4	23	8.5	22	22	18	22	07								
08	52	32	42	5	30	38	23	0					0.00	28.84	29.89	14.9	23	15.0	25	22	21	22	08								
09	60*	43	52	15	41	47	13	0	DZ				T	28.66	29.69	12.1	23	12.3	24	22	22	22	09								
10	52	29	41	4	23	33	24	0					0.00	28.90	29.95	9.0	28	10.4	28	24	21	26	10								
11	36	21	29	-8	12	24	36	0					0.00	29.18	30.26	4.3	28	5.3	17	20	15	27	11								
12	32	18	25	-12	4	19	40	0					0.00	29.34	30.43	5.5	03	6.2	18	01	16	01	12								
13	42	19	31	-6	14	25	34	0					0.00	29.19	30.26	3.7	23	4.6	14	26	12	25	13								
14	49	25	37	0	24	31	28	0					0.00	29.13	30.20	6.5	26	8.4	28	30	23	25	14								
15	36	20	28	-9	12	23	37	0					0.00	29.30	30.38	3.0	36	3.9	14	36	12	01	15								
16	33	25	29	-8	20	26	36	0	SN FG+ FZFG BR				0.27	29.03	30.10	2.3	33	5.8	25	28	21	28	16								
17	29	16	23	-14	13	21	42	0	SN BR				T	29.12	30.20	7.4	28	8.4	23	28	20	28	17								
18	28	5	17	-20	11	17	48	0	SN BR				T	29.09	30.18	8.4	24	8.6	30	25	25*	25	18								
19	35	20	28	-9	16	25	37	0	SN BR				T	29.12	30.20	12.9	24	13.5	29	23	24	24	19								
20	56	35	46	8	31	40	19	0					0.00	28.98	30.03	15.8	23	15.9	31*	23	24	23	20								
21	50	32	41	3	39	42	24	0	RA BR				0.56	28.92	29.97	6.1	36	7.9	17	01	14	36	21								
22	41	22	32	-6	19	27	33	0	SN FZFG BR				0.03	29.04	30.11	8.7	01	8.9	23	36	20	35	22								
23	22	9	16	-22	5	13	49	0	SN FZFG BR				0.18	29.24	30.33	9.1	35	9.6	25	03	20	02	23								
24	24	4*	14*	-24	4	12	51	0					0.00	29.45	30.56	6.3	03	7.1	18	02	15	02	24								
25	34	19	27	-11	14	22	38	0					0.00	29.29	30.38	1.5	04	2.1	9	34	7	34	25								
26	38	21	30	-8	20	26	35	0	SN BR				T	29.19	30.26	4.5	28	7.7	22	35	18	35	26								
27	31	12	22	-16	9	19	43	0	SN				T	29.37	30.46	3.8	01	4.5	20	02	16	01	27								
28	46	24	35	-3	20	29	30	0	RA DZ BR				0.05	29.21	30.29	1.8	26	2.3	20	26	16	26	28								
29	50	38	44	6	44	44	21	0	RA DZ BR				1.32	29.05	30.11	4.1	30	8.3	21	24	18	24	29								
30	42	36	39	0	37	38	26	0	RA BR				0.01	29.13	30.19	6.8	01	7.0	16	03	13	03	30								
31	44	35	40	1	35	37	25	0	RA BR				0.02	29.03	30.09	1.4	29	3.5	18	26	15	26	31								
41.8 25.9 33.9 ■■										23.7 30.5 30.9 0.0		< MONTHLY AVERAGES TOTALS->		3.17 29.08 30.15		3.9 27 7.7		<- MONTHLY AVERAGES													
-4.5 -3.0 -3.7 ■■										<-----DEPARTURE FROM NORMAL----->		-1.40		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																	
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.36 DATE: 28-29				SEA LEVEL PRESSURE				DATE TIME														
MONTHLY TOTAL DEPARTURE									SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL:				MAXIMUM				DATE TIME										
HEATING: 957 116 2389 113									GREATEST SNOW DEPTH:				MINIMUM				DATE TIME														
COOLING: 0 0 0 0									NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 24				PRECIPITATION ≥ 0.01 INCH : 12										
													MAXIMUM TEMP ≤ 32 : 6				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 6										
													THUNDERSTORMS : 0				HEAVY FOG : 2				SNOWFALL ≥ 1.0 INCH :										

JANUARY 2003
KNOXVILLE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

JANUARY 2003

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	T	T	0.01	0.16	0.08	0.03			0.04	T	0.01	0.02	01												01	0.35	0.36		
02	0.01	T	T	T		T		T	T	0.01			02					0.05	0.03	T	T		0.03	0.10	0.03		0.26		
03	0.01	T	0.01	T	0.03	0.01	T				T	T	03	T	T	T	T								02	0.06			
04	T	T											04												03	T			
05						0.01	0.02	0.02					05												04	0.05			
06													06			T	T								06	T			
07													07												07	0.00			
08													08												08	0.00			
09													09										T		09	T			
10													10												10	0.00			
11													11												11	0.00			
12													12												12	0.00			
13													13												13	0.00			
14													14												14	0.00			
15													15												15	0.00			
16													16												16	0.02			
17	T	T	T	T	T	T	T		T	T			17	0.02	T	T	T	T	T						17	T			
18													18													18	T		
19	T	T	T										19													19	T		
20													20													20	0.00		
21	T	T		0.03	0.03	T	0.03	0.01	0.19	0.18	0.04	0.05	21												21	0.56			
22													22													22	0.03		
23	0.03	0.04	0.05	0.03	T	T		T	T	T	T	T	23	T	T	T	T								23	0.18			
24													24													24	0.00		
25													25													25	0.00		
26													26													26	T		
27	T												27													27	T		
28													28													28	0.05		
29	T	0.01	0.03	T	0.05	0.10	0.20	0.22	0.22	0.10	0.09	0.09	29	0.06	0.02	0.03	0.02	T	0.01	0.04	0.01	0.01	0.01	T	29	1.32			
30	T	T	0.01	T	T								30													30	0.01		
31													31													31	0.02		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.06	.10	.12	.15	.20	.28	.32	.34	.40	.47	.59	.66
Ending Date	21	21	21	21	21	21	21	29	29	29	29	29
Ending Time (Hour/Min)	0908	0912	0912	0912	0915	0912	0915	0840	0840	0827	0830	0840

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 JANUARY 2003

Ceilometer (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							.25	10.00	
02							1.75	10.00	
03							3.00	10.00	
04							9.00	10.00	
05							4.00	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							.25	10.00	
17							2.50	10.00	
18							3.00	10.00	
19							1.25	10.00	
20							10.00	10.00	
21							.75	10.00	
22							.50	10.00	
23							.50	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							4.00	10.00	
27							9.00	10.00	
28							6.00	10.00	
29							.50	8.00	
30							2.00	9.00	
31							4.00	10.00	
MONTHLY AVGS							6.06	9.90	
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									
2 11 15									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JANUARY 2003

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: 0746					JAN 01					SUNSET: 1733					SUNRISE: 0746					JAN 07					SUNSET: 1738				
01	OVC	085	10.00	-RA	53	51	52	93	9	22	28.63	29.65	01	SCT	NC	10.00		32	21	28	64	8	01	29.27	30.35				
04	OVC	001	0.50	+RA FG	50	50	50	100	7	24	28.59	29.62	04	FEW	NC	10.00		28	19	25	69	5	03	29.30	30.38				
07	BKN	001	0.25	FG	48	48	48	100	3	23	28.58	29.61	07	FEW	NC	10.00		26	18	23	71	0	00	29.30	30.39				
10	BKN	028	5.00	BCFG	52	52	52	100	3	29	28.63	29.66	10	SCT	NC	10.00		30	19	26	64	6	16	29.31	30.39				
13	BKN	009	5.00	BR	55	53	54	93	10	24	28.63	29.66	13	SCT	NC	10.00		36	22	31	57	8	24	29.21	30.29				
16	BKN	029	10.00		60	52	56	75	12	22	28.65	29.68	16	CLR	NC	10.00		41	23	34	49	13	23	29.11	30.18				
19	SCT	NC	10.00		52	49	50	89	10	23	28.71	29.75	19	CLR	NC	10.00		36	20	30	52	12	23	29.07	30.14				
22	OVC	032	10.00		54	51	52	90	8	21	28.75	29.78	22	SCT	NC	10.00		36	21	31	55	14	22	29.01	30.08				
SUNRISE: 0746					JAN 02					SUNSET: 1734					SUNRISE: 0746					JAN 08					SUNSET: 1739				
01	OVC	008	3.00	-RA BR	52	51	52	97	13	25	28.77	29.80	01	CLR	NC	10.00		36	21	31	55	15	23	28.95	30.01				
04	OVC	006	6.00	BR	50	49	49	96	9	24	28.77	29.80	04	CLR	NC	10.00		36	21	31	55	18	22	28.92	29.98				
07	OVC	007	7.00		49	48	48	97	9	23	28.79	29.82	07	FEW	NC	10.00		34	24	30	67	10	22	28.91	29.97				
10	OVC	007	7.00		49	48	48	97	10	23	28.83	29.86	10	SCT	NC	10.00		42	31	37	65	14	22	28.92	29.98				
13	SCT	NC	10.00		53	47	50	80	14	28	28.78	29.81	13	SCT	NC	10.00		49	34	42	57	15	23	28.84	29.88				
16	BKN	090	10.00		51	43	47	74	7	29	28.75	29.78	16	SCT	NC	10.00		52	36	45	55	22	23	28.77	29.81				
19	OVC	045	6.00	-RA BR	47	45	46	93	7	26	28.79	29.82	19	FEW	NC	10.00		49	35	43	59	15	23	28.74	29.78				
22	OVC	024	5.00	-RA BR	46	45	46	96	6	27	28.76	29.79	22	FEW	NC	10.00		49	36	43	61	14	23	28.71	29.74				
SUNRISE: 0746					JAN 03					SUNSET: 1735					SUNRISE: 0746					JAN 09					SUNSET: 1740				
01	BKN	006	3.00	BR	46	45	46	96	5	21	28.74	29.77	01	CLR	NC	10.00		48	36	43	63	14	23	28.69	29.73				
04	OVC	026	10.00	DZ	42	40	41	92	15	28	28.78	29.82	04	CLR	NC	10.00		46	36	41	68	12	23	28.68	29.72				
07	OVC	021	10.00		37	33	35	86	9	27	28.87	29.92	07	CLR	NC	10.00		44	37	41	76	9	23	28.70	29.74				
10	OVC	020	10.00		35	32	34	89	8	29	28.93	29.99	10	CLR	NC	10.00		54	43	48	67	15	23	28.71	29.74				
13	OVC	012	10.00		34	30	32	85	12	27	28.93	29.98	13	SCT	NC	10.00		59	44	51	58	14	24	28.63	29.66				
16	OVC	021	10.00		33	27	31	78	12	28	28.97	30.03	16	SCT	NC	10.00		59	45	52	60	15	23	28.59	29.62				
19	OVC	035	10.00		32	24	29	73	10	31	29.01	30.08	19	OVC	050	10.00		57	45	51	64	14	24	28.62	29.65				
22	OVC	026	10.00		32	23	29	69	5	30	29.04	30.11	22	OVC	048	10.00		53	45	49	74	8	22	28.64	29.67				
SUNRISE: 0746					JAN 04					SUNSET: 1736					SUNRISE: 0746					JAN 10					SUNSET: 1741				
01	OVC	026	9.00	-SN	31	22	28	69	6	35	29.04	30.11	01	OVC	075	10.00		51	30	42	45	8	29	28.65	29.68				
04	OVC	034	10.00		31	22	28	69	3	30	29.06	30.13	04	BKN	110	10.00		43	27	37	53	14	32	28.66	29.79				
07	BKN	032	10.00		30	24	28	79	5	28	29.07	30.14	07	CLR	NC	10.00		34	23	30	64	6	27	28.83	29.87				
10	SCT	NC	10.00		31	20	27	64	6	35	29.15	30.22	10	CLR	NC	10.00		36	23	31	59	5	28	28.92	29.98				
13	BKN	250	10.00		35	23	31	61	3	VR	29.07	30.14	13	CLR	NC	10.00		41	23	34	49	13	23	28.90	29.95				
16	CLR	NC	10.00		40	24	34	53	6	25	29.04	30.10	16	FEW	NC	10.00		44	23	36	43	14	25	28.90	29.95				
19	CLR	NC	10.00		37	24	32	60	0	00	29.02	30.09	19	CLR	NC	10.00		37	21	31	52	13	27	28.98	30.04				
22	OVC	110	10.00		33	27	31	78	5	06	28.98	30.05	22	CLR	NC	10.00		32	15	27	50	10	28	29.08	30.14				
SUNRISE: 0746					JAN 05					SUNSET: 1736					SUNRISE: 0746					JAN 11					SUNSET: 1742				
01	OVC	130	9.00		33	27	31	78	0	00	28.96	30.03	01	CLR	NC	10.00		26	15	23	63	7	28	29.08	30.15				
04	OVC	050	9.00		34	29	32	82	5	06	28.92	29.98	04	CLR	NC	10.00		26	15	23	63	0	00	29.11	30.18				
07	OVC	037	6.00	-RA BR	34	32	33	92	7	10	28.90	29.96	07	CLR	NC	10.00		24	15	21	68	0	00	29.18	30.25				
10	OVC	031	5.00	BR	37	36	37	96	3	36	28.95	30.01	10	CLR	NC	10.00		27	17	24	66	3	29	29.21	30.28				
13	OVC	028	10.00		46	38	42	73	12	27	28.92	29.97	13	FEW	NC	10.00		32	14	26	47	5	VR	29.17	30.24				
16	BKN	034	10.00		49	38	44	66	8	28	28.94	29.99	16	FEW	NC	10.00		35	6	26	29	10	26	29.17	30.24				
19	BKN	250	10.00		45	36	41	71	5	27	28.97	30.03	19	SCT	NC	10.00		32	8	25	36	12	29	29.21	30.28				
22	OVC	065	10.00		41	36	39	82	3	22	29.00	30.06	22	SCT	NC	10.00		28	7	22	41	5	31	29.27	30.35				
SUNRISE: 0746					JAN 06					SUNSET: 1737					SUNRISE: 0746					JAN 12					SUNSET: 1743				
01	OVC	044	10.00		41	37	39	86	7	25	29.00	30.05	01	SCT	NC	10.00		26	4	20	38	7	35	29.31	30.40				
04	OVC	050	10.00		41	36	39	82	7	27	29.02	30.07	04	SCT	NC	10.00		22	2	17	42	10	36	29.36	30.44				
07	OVC	034	10.00		40	33	37	77	15	28	29.04	30.10	07	CLR	NC	10.00		18	4	15	54	8	05	29.37	30.46				
10	OVC	045	10.00		39	28	35	65	13	30	29.12	30.17	10	BKN	250	10.00		22	4	17	46	10	03	29.40	30.49				
13	OVC	030	10.00		38	29	34	70	10	28	29.14	30.20	13	SCT	NC	10.00		28	5	22	37	7	09	29.36	30.45				
16	OVC	039	10.00		37	28	34	70	7	30	29.19	30.24	16	BKN	250	10.00		31	4	23	32	6	01	29.32	30.41				
19	OVC	045	10.00	-SN	34	28	32	79	6	23	29.23	30.30	19	BKN	250	10.00		27	6	21	41	5	07	29.29	30.38				
22	BKN	048	10.00		35	23	31	61	0	00	29.27	30.35	22	BKN	250	10.00		26	5	20	40	3	32	29.29	30.39				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JANUARY 2003

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	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	
SUNRISE: 0746				JAN 13				SUNSET: 1744				SUNRISE: 0744				JAN 19				SUNSET: 1749										
01	BKN	250			10.00	23	8	19	53	0	00	29.24	30.32	01	OVC	017			1.25	-SN	BR	25	21	24	85	14	26	29.09	30.17	
04	BKN	250			10.00	20	11	17	68	3	22	29.22	30.30	04	OVC	050			10.00			23	13	20	65	6	23	29.13	30.21	
07	CLR	NC			10.00	22	14	20	71	5	20	29.23	30.32	07	OVC	046			10.00			23	14	20	68	12	20	29.15	30.23	
10	OVC	060			10.00	27	17	24	66	6	26	29.24	30.32	10	BKN	031			10.00			25	14	22	63	13	22	29.20	30.28	
13	SCT	NC			10.00	37	14	29	39	6	VR	29.18	30.25	13	FEW	NC			10.00			31	17	26	56	18	25	29.17	30.24	
16	CLR	NC			10.00	42	16	33	35	8	24	29.10	30.17	16	FEW	NC			10.00			34	19	29	54	16	21	29.10	30.18	
19	BKN	250			10.00	36	16	29	44	5	17	29.14	30.22	19	SCT	NC			10.00			30	16	25	56	10	22	29.07	30.15	
22	BKN	250			10.00	32	17	27	54	6	23	29.15	30.22	22	SCT	NC			10.00			33	18	28	54	17	23	29.06	30.14	
SUNRISE: 0746				JAN 14				SUNSET: 1745				SUNRISE: 0744				JAN 20				SUNSET: 1750										
01	CLR	NC			10.00	31	17	26	56	0	00	29.16	30.22	01	SCT	NC			10.00			36	21	31	55	20	23	29.00	30.07	
04	OVC	100			10.00	27	19	24	72	3	15	29.13	30.20	04	SCT	NC			10.00			38	23	32	55	18	23	28.99	30.05	
07	CLR	NC			10.00	26	20	24	78	3	21	29.13	30.20	07	SCT	NC			10.00			39	25	34	57	17	23	28.98	30.05	
10	FEW	NC			10.00	36	25	32	64	7	21	29.13	30.19	10	SCT	NC			10.00			45	27	38	49	18	23	29.05	30.11	
13	BKN	250			10.00	46	30	39	54	15	22	29.04	30.10	13	CLR	NC			10.00			52	31	43	45	20	23	29.00	30.05	
16	BKN	046			10.00	48	32	41	54	16	29	29.02	30.08	16	CLR	NC			10.00			55	34	45	45	17	23	28.93	29.98	
19	OVC	034			10.00	37	28	34	70	9	28	29.16	30.23	19	CLR	NC			10.00			50	39	45	66	21	24	28.93	29.98	
22	OVC	043			10.00	34	22	30	61	5	31	29.21	30.28	22	OVC	055			10.00			49	43	46	80	9	25	28.94	29.98	
SUNRISE: 0745				JAN 15				SUNSET: 1745				SUNRISE: 0743				JAN 21				SUNSET: 1752										
01	OVC	036			10.00	31	19	27	61	5	35	29.21	30.28	01	OVC	027			10.00	-RA		50	45	47	83	9	25	28.90	29.95	
04	CLR	NC			10.00	25	14	22	63	6	33	29.27	30.34	04	OVC	023			3.00	-RA	BR	48	47	47	96	7	32	28.87	29.90	
07	FEW	NC			10.00	21	10	18	62	6	01	29.31	30.40	07	OVC	012			2.50	BR		47	47	47	100	7	32	28.86	29.89	
10	FEW	NC			10.00	25	12	21	58	3	04	29.37	30.45	10	OVC	026			1.25	RA	BR	49	49	49	100	8	01	28.87	29.91	
13	FEW	NC			10.00	32	9	25	38	0	00	29.33	30.41	13	OVC	020			4.00	BR		44	43	44	96	8	04	28.89	29.94	
16	SCT	NC			10.00	35	8	27	32	5	28	29.29	30.37	16	OVC	038			7.00			40	37	39	89	9	02	28.92	29.98	
19	BKN	250			10.00	32	9	25	38	0	00	29.29	30.38	19	SCT	NC			10.00			36	28	33	73	7	01	29.00	30.06	
22	BKN	250			10.00	29	12	24	49	3	05	29.27	30.36	22	FEW	NC			10.00			34	23	30	64	12	03	29.00	30.06	
SUNRISE: 0745				JAN 16				SUNSET: 1746				SUNRISE: 0743				JAN 22				SUNSET: 1753										
01	SCT	NC			10.00	27	12	23	53	7	01	29.23	30.31	01	FEW	NC			10.00			30	22	27	72	7	03	28.99	30.05	
04	BKN	120			10.00	26	14	22	60	5	36	29.21	30.28	04	FEW	NC			10.00			29	21	26	72	9	03	29.03	30.09	
07	OVC	100			10.00	27	14	23	58	3	03	29.18	30.25	07	FEW	NC			10.00			26	19	24	75	8	03	29.06	30.13	
10	OVC	110			10.00	29	14	24	54	6	04	29.09	30.16	10	FEW	NC			10.00			30	20	27	66	10	03	29.08	30.15	
13	OVC	042			10.00	32	14	26	47	5	35	28.96	30.03	13	SCT	NC			10.00			37	22	32	54	9	02	29.05	30.11	
16	OVC	005			0.25	+SN	FZFG			0	00	28.87	29.93	16	BKN	250			10.00			40	17	32	40	5	01	28.98	30.04	
19	OVC	010			0.75	-SN	BR			6	17	28.88	29.95	19	BKN	200			10.00			33	13	27	43	14	01	29.03	30.10	
22	OVC	025			2.50	-SN	BR			12	26	28.91	29.98	22	OVC	038			5.00	-SN		25	19	23	78	12	01	29.07	30.14	
SUNRISE: 0745				JAN 17				SUNSET: 1747				SUNRISE: 0742				JAN 23				SUNSET: 1754										
01	OVC	013			7.00	-SN				28	24	27	85	13	29	28.97	30.04	01	OVC	004			21	19	20	92	8	35	29.08	30.15
04	OVC	032			10.00	-SN				26	20	24	78	7	33	29.03	30.11	04	OVC	050			20	13	18	74	12	34	29.09	30.16
07	BKN	031			10.00					24	17	22	75	6	32	29.08	30.16	07	BKN	070			16	6	14	65	8	35	29.16	30.24
10	SCT	NC			10.00					24	15	21	68	10	28	29.13	30.21	10	BKN	037			15	4	12	61	8	31	29.21	30.31
13	FEW	NC			10.00					25	10	21	53	13	26	29.14	30.22	13	OVC	042			16	2	13	54	8	35	29.21	30.31
16	FEW	NC			10.00					27	6	21	41	7	25	29.12	30.19	16	BKN	040			15	3	12	59	13	33	29.26	30.36
19	CLR	NC			10.00					23	6	19	48	12	29	29.19	30.27	19	FEW	NC			12	-1	9	56	9	36	29.35	30.45
22	CLR	NC			10.00					19	6	16	57	6	30	29.21	30.30	22	SCT	NC			10	7	8	61	7	36	29.42	30.53
SUNRISE: 0744				JAN 18				SUNSET: 1748				SUNRISE: 0742				JAN 24				SUNSET: 1755										
01	FEW	NC			10.00	13	7	12	77	0	00	29.19	30.28	01	BKN	045			10.00			8	-2	6	63	6	36	29.46	30.57	
04	CLR	NC			9.00					9	6	8	88	0	00	29.19	30.28	04	FEW	NC			6	-2	5	69	8	04	29.44	30.55
07	CLR	NC			8.00					8	5	7	87	0	00	29.16	30.26	07	CLR	NC			5	-4	3	66	8	33	29.52	30.64
10	CLR	NC			7.00					11	8	10	88	6	23	29.16	30.25	10	SCT	NC			9	0	7	67	9	05	29.54	30.66
13	FEW	NC			10.00					22	11	19	63	9	22	29.06	30.14	13	SCT	NC			18	7	15	62	12	04	29.47	30.58
16	BKN	200			10.00					27	11	22	51	14	26	28.99	30.08	16	CLR	NC			23	9	19	55	8	02	29.40	30.50
19	OVC	075			10.00					27	13	23	55	13	23	28.99	30.08	19	CLR	NC			20	8	17	60	7	02	29.40	30.51
22	OVC	046			9.00	-SN				27	17	24	66	20	24	29.05	30.14	22	OVC	120			19	9	16	65	5	06	29.38	30.48

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

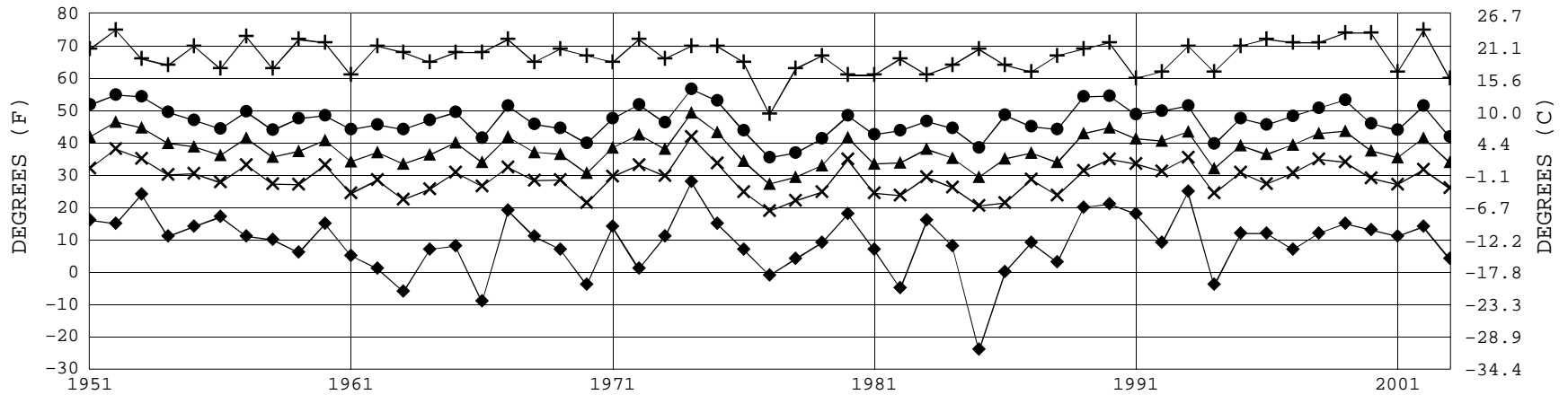
JANUARY 2003

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																										
SUNRISE: 0741								JAN 25								SUNSET: 1756								SUNRISE: 0737								JAN 31								SUNSET: 1802							
01	BKN	080				10.00		20	11	17	68	0	00	29.35	30.45	01	OVC	010				5.00	BR	36	34	35	93	3	33	29.16	30.22																
04	OVC	070				10.00		20	12	18	71	5	07	29.36	30.45	04	OVC	008				5.00	BR	36	34	35	93	3	33	29.14	30.20																
07	OVC	065				10.00		20	13	18	74	5	08	29.35	30.45	07	OVC	006				6.00	BR	35	34	35	96	5	30	29.14	30.20																
10	BKN	070				10.00		24	13	21	62	0	00	29.33	30.43	10	OVC	015				5.00	BR	37	34	36	89	0	00	29.11	30.17																
13	OVC	055				10.00		29	15	25	56	0	00	29.28	30.37	13	OVC	017				10.00		39	34	37	82	6	22	29.03	30.09																
16	BKN	250				10.00		33	16	27	49	0	00	29.23	30.31	16	BKN	110				10.00		44	36	40	73	6	31	28.94	30.00																
19	SCT	NC				10.00		30	15	25	54	0	00	29.23	30.32	19	BKN	110				10.00		41	37	39	86	7	08	28.91	29.97																
22	CLR	NC				10.00		26	16	23	66	0	00	29.21	30.29	22	BKN	100				10.00		39	36	38	89	5	16	28.90	29.96																
SUNRISE: 0740								JAN 26								SUNSET: 1757								3-HOURLY OBSERVATION NOTES																							
01	SCT	NC				10.00		23	16	21	74	0	00	29.19	30.26	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.																															
04	SCT	NC				9.00		23	19	22	85	0	00	29.20	30.27	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	BKN	080				9.00		25	21	24	85	3	21	29.17	30.24	NC = No ceiling detected.																															
10	BKN	070				10.00		31	24	28	76	9	24	29.20	30.27	& = Original observation contained additional weather elements.																															
13	OVC	043				10.00		35	18	29	50	14	23	29.16	30.23	See page 3 for additional notes.																															
16	BKN	150				10.00		38	21	32	51	12	22	29.12	30.19																																
19	OVC	055				10.00		36	21	31	55	12	31	29.17	30.24																																
22	OVC	016				6.00	-SN	27	21	25	78	17	36	29.26	30.34																																
SUNRISE: 0740								JAN 27								SUNSET: 1758																															
01	OVC	026				9.00		23	14	20	68	10	34	29.31	30.40																																
04	CLR	NC				10.00		18	8	15	65	10	36	29.36	30.45																																
07	FEW	NC				10.00		14	6	12	71	10	36	29.40	30.49																																
10	SCT	NC				10.00		17	8	15	68	6	07	29.45	30.55																																
13	BKN	250				10.00		24	8	20	50	0	00	29.42	30.51																																
16	BKN	090				10.00		30	8	24	39	0	00	29.36	30.45																																
19	OVC	100				10.00		29	10	23	45	0	00	29.33	30.43																																
22	OVC	100				10.00		29	12	24	49	0	00	29.31	30.40																																
SUNRISE: 0739								JAN 28								SUNSET: 1759																															
01	SCT	NC				10.00		26	15	23	63	3	25	29.27	30.36																																
04	CLR	NC				10.00		25	12	21	58	0	00	29.26	30.35																																
07	OVC	037				10.00		27	11	22	51	3	22	29.27	30.35																																
10	OVC	050				10.00		30	12	25	47	0	00	29.28	30.36																																
13	OVC	033				10.00		36	16	29	44	0	00	29.22	30.30																																
16	OVC	031				10.00		41	22	34	47	0	00	29.15	30.22																																
19	OVC	028				10.00	DZ	45	23	36	42	13	29	29.15	30.22																																
22	OVC	029				6.00	-RA	39	34	37	82	3	24	29.13	30.19																																
SUNRISE: 0739								JAN 29								SUNSET: 1760																															
01	OVC	035				4.00	BR	38	37	38	97	5	08	29.08	30.14																																
04	OVC	039				4.00	BR	39	38	39	96	0	00	29.04	30.09																																
07	OVC	024				2.00	+RA BR	42	42	42	100	7	30	29.01	30.07																																
10	OVC	008				2.50	RA BR	47	47	47	100	10	25	29.04	30.09																																
13	OVC	008				7.00	-RA	50	49	49	96	14	23	29.01	30.07																																
16	OVC	004				2.50	-RA BR	49	49	49	100	8	27	29.02	30.08																																
19	OVC	016				3.00	-RA BR	46	46	46	100	8	01	29.06	30.11																																
22	OVC	004				2.50	-RA BR	44	43	44	96	13	01	29.10	30.15																																
SUNRISE: 0738								JAN 30								SUNSET: 1801																															
01	OVC	008				2.50	-RA BR	42	41	42	96	12	02	29.09	30.14																																
04	OVC	006				2.50	-RA BR	40	40	40	100	7	03	29.09	30.14																																
07	OVC	008				6.00	BR	39	38	39	96	8	02	29.10	30.16																																
10	OVC	008				5.00	BR	38	36	37	93	8	35	29.14	30.20																																
13	OVC	008				8.00		38	36	37	93	7	36	29.14	30.20																																
16	OVC	008				2.50	BR	38	37	38	97	6	36	29.15	30.21																																
19	OVC	012				6.00	BR	37	35	36	93	6	02	29.16	30.22																																
22	OVC	012				7.00		36	34	35	93	5	01	29.17	30.24																																

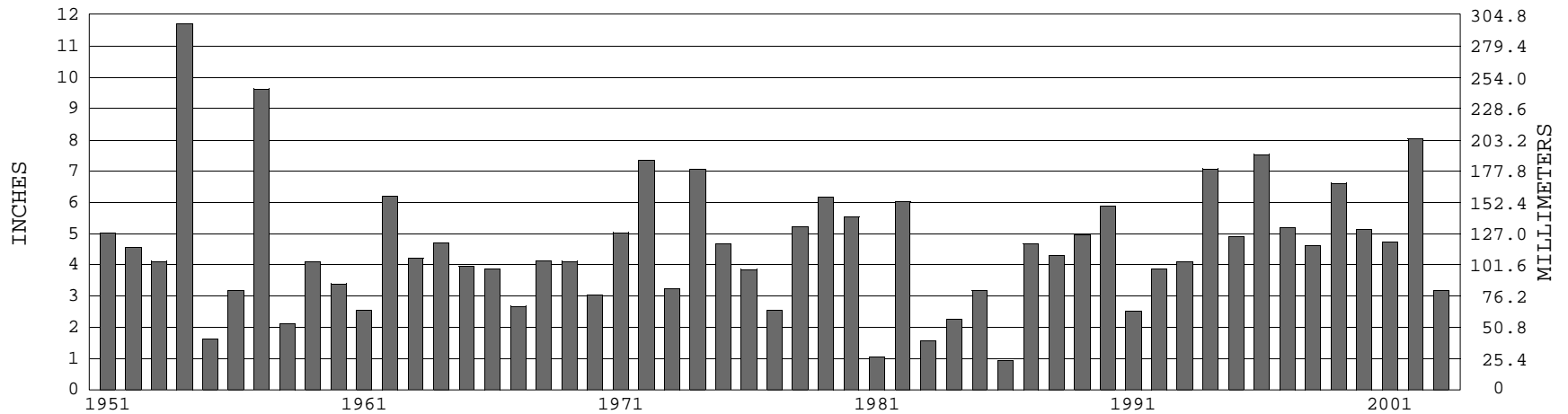
KNOXVILLE, TN JANUARY TEMPERATURES



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

Long-Term (1951-2003) Mean: 37.9 1961-1990 Normal: 37.6

KNOXVILLE, TN JANUARY PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 4.57

1961-1990 Normal: 4.57



JANUARY 2003

KNOXVILLE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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