



# JANUARY 2002

## 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

JANUARY 2002  
KNOXVILLE, TN

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	35	14*	25*	-13	12	21	40	0					0.00	29.18	30.26	6.0	03	6.2	14	01	13	04	01																										
02	36	23	30	-8	13	24	35	0					0.00	29.16	30.24	4.8	04	5.6	17	04	14	04	02																										
03	34	26	30	-8	14	24	35	0					0.00	29.07	30.14	6.7	36	7.0	24	01	20	01	03																										
04	40	19	30	-8	15	25	35	0					0.00	29.25	30.33	1.2	32	3.6	12	02	9	01	04																										
05	49	18	34	-4	17	27	31	0					0.00	29.13	30.20	0.9	26	2.3	14	24	12	24	05																										
06	40	32	36	-1	32	34	29	0	RA SN PL FG BR				0.34	28.73	29.79	3.6	28	8.1	21	28	18	28	06																										
07	35	27	31	-6	28	31	34	0	SN PL BR				T	28.97	30.03	7.8	28	8.1	20	29	16	29	07																										
08	37	21	29	-8	19	26	36	0					0.00	29.12	30.19	5.1	24	5.3	13	25	10	23	08																										
09	57	30	44	7	32	39	21	0					0.00	28.98	30.04	11.9	25	12.0	26	24	23	24	09																										
10	59	49	54	17	49	52	11	0					0.00	28.96	29.99	14.2	23	14.3	28	22	24	22	10																										
11	59	35	47	10	38	43	18	0	RA BR				0.04	29.03	30.07	3.6	28	5.9	30	24	24	23	11																										
12	41	24	33	-4	30	32	32	0	FG+ FZFG BR				0.00	28.91	29.97	3.2	24	4.4	20	22	17	23	12																										
13	49	28	39	2	25	33	26	0					0.00	28.92	29.98	3.2	24	5.3	15	21	13	22	13																										
14	58	25	42	5	32	37	23	0					0.00	28.89	29.95	6.4	23	8.6	31	22	26	21	14																										
15	48	30	39	2	26	35	26	0					0.00	29.10	30.16	3.5	28	5.7	21	27	17	28	15																										
16	50	27	39	2	25	33	26	0					0.00	29.15	30.21	1.2	02	3.5	10	26	9	27	16																										
17	54	30	42	5	30	39	23	0	RA				T	29.05	30.10	4.2	25	5.7	18	01	14	01	17																										
18	45	34	40	3	33	37	25	0	RA BR				0.27	29.12	30.18	7.3	04	8.3	20	01	16	01	18																										
19	42	34	38	1	34	36	27	0	RA DZ FG BR				2.12	28.82	29.88	3.9	01	7.2	22	30	18	30	19																										
20	44	31	38	0	30	34	27	0					0.00	29.02	30.08	3.3	03	4.6	14	01	12	10	20																										
21	55	34	45	7	34	40	20	0	RA BR				0.19	28.99	30.05	6.6	25	8.1	26	24	22	24	21																										
22	55	26	41	3	29	37	24	0	RA BR				0.16	29.21	30.27	1.7	02	2.8	15	32	13	32	22																										
23	50	42	46	8	44	45	19	0	RA FG+ BR				3.40	29.05	30.11	2.5	05	3.6	16	30	14	30	23																										
24	64	44	54	16	53	54	11	0	RA BR				1.50	28.87	29.91	7.6	23	9.2	40*	30	30*	31	24																										
25	50	33	42	4	31	37	23	0	RA BR				0.04	29.14	30.20	7.6	03	8.1	21	01	17	01	25																										
26	57	26	42	4	30	36	23	0					0.00	29.23	30.30	0.7	03	1.2	8	33	6	30	26																										
27	61	29	45	7	36	41	20	0	BR				0.00	29.19	30.25	1.4	22	2.9	14	25	13	24	27																										
28	67	34	51	13	44	47	14	0	BR				0.00	29.11	30.16	4.3	24	5.8	22	24	18	23	28																										
29	73	57	65*	27	57	59	0	0	BCFG BR				0.00	29.07	30.11	8.1	25	9.2	23	23	20	24	29																										
30	75	48	62	23	54	57	3	0	FG+ BR				0.00	29.08	30.11	6.4	24	7.9	31	24	26	24	30																										
31	75*	51	63	24	55	59	2	0	BR HZ				0.00	29.05	30.08	8.3	24	8.8	31	22	25	24	31																										
51.4											31.6	41.5	■ ■	32.3	37.9	23.2	0.0	< MONTHLY AVERAGES		TOTALS-->		8.06	29.05	30.11	2.5	27	6.4	<- MONTHLY AVERAGES																					
5.1											2.7	3.9	■ ■	<-----DEPARTURE FROM NORMAL----->										3.49	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																								
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 3.56 DATE :22-23										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE :										MAXIMUM : 30.41 04 0953																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: DATE :										MINIMUM : 29.65 06 0853																													
HEATING: 719 -180										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32 : 19										PRECIPITATION ≥ 0.01 INCH : 9									
COOLING: 0 0																				MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 7									
																				THUNDERSTORMS : 0										HEAVY FOG : 3										SNOWFALL ≥ 1.0 INCH :									

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

JANUARY 2002

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													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06		T	T	0.01	0.04	0.03	T	T	T	0.01	0.01	0.06	06	0.07	0.06	0.05	0.07	0.04		0.02				06	0.47	0.34			
07			T	T	T	T					T	T	07	T	T	T	T	T		T	T	T		07		T			
08													08											08		0.00			
09													09											09		0.00			
10													10											10		0.00			
11			T	0.01	0.03	T	T						11											11		0.04			
12													12											12		0.00			
13													13											13		0.00			
14													14											14		0.00			
15													15											15		0.00			
16													16											16		0.00			
17													17											17		T			
18	0.01	0.10	0.06	0.07	0.03	T							18											18		T			
19			T	0.04	0.10	0.19	0.32	0.36	0.20	0.15	0.20	0.05	19	0.15	0.17	0.11	0.03	0.04	0.01	T	T	T		19		2.12			
20													20											20		0.00			
21			T	0.04	0.07	0.07	0.01						21											21		0.19			
22													22								0.01	0.12	.02	0.01	22		0.16		
23	0.02	0.03	0.10	0.29	0.21	0.20	0.38	0.27	0.33	0.16	0.14	0.25	23	0.35	0.10	0.38	0.15	0.04	T				23		3.40				
24								0.52	0.10	0.07	0.05	0.03	24	0.04	0.01	0.02	0.01	0.08	0.04	0.09	0.09	0.11	0.10	0.10	0.04	24	1.50		
25	0.03	0.01	T										25											25		0.04			
26													26											26		0.00			
27													27											27		0.00			
28													28											28		0.00			
29													29											29		0.00			
30													30											30		0.00			
31													31											31		0.00			

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.32	.45	.49	.51	.54	.57	.59	.62	.65	.69	.84	.98
Ending Date	24	24	24	24	24	24	24	24	24	23	23	23
Ending Time (Hour/Min)	0737	0741	0746	0751	0759	0812	0828	0850	0909	0807	0807	0905

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 2002

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							8.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							8.00	10.00	
05							8.00	10.00	
06							.50	10.00	
07							2.00	10.00	
08							8.00	10.00	
09							10.00	10.00	
10							8.00	10.00	
11							2.50	10.00	
12							<.25	10.00	
13							9.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							8.00	10.00	
17							8.00	10.00	
18							2.50	10.00	
19							.50	10.00	
20							7.00	10.00	
21							2.50	10.00	
22							6.00	10.00	
23							.25	10.00	
24							.75	10.00	
25							2.00	10.00	
26							8.00	10.00	
27							5.00	10.00	
28							1.25	10.00	
29							4.00	10.00	
30							<.25	10.00	
31							5.00	10.00	
<b>MONTHLY AVGS</b>							5.61	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 3            11           15									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## KNOXVILLE, TN

JANUARY 2002

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 01				SUNSET: 1733				SUNRISE: 0746				JAN 07				SUNSET: 1738									
01	CLR	NC			10.00	22	11	19	63	0	00	29.13	30.21	01	OVC	023			10.00	34	32	33	92	10	27	28.82	29.88		
04	CLR	NC			10.00	19	10	17	68	3	03	29.15	30.23	04	OVC	019			6.00	-PL BR	33	32	33	96	8	28	28.84	29.90	
07	CLR	NC			9.00	15	11	14	84	5	03	29.17	30.25	07	OVC	039			10.00	33	29	31	85	7	27	28.87	29.93		
10	CLR	NC			10.00	23	15	21	72	9	03	29.21	30.31	10	OVC	029			3.00	-SN BR	33	31	32	92	6	26	28.94	30.00	
13	FEW	NC			10.00	32	14	26	47	8	04	29.18	30.25	13	OVC	029			9.00	-SN	35	30	33	82	6	29	28.95	30.01	
16	FEW	NC			10.00	34	12	27	40	7	01	29.17	30.25	16	OVC	047			7.00	-SN	33	29	31	85	12	29	29.02	30.09	
19	CLR	NC			10.00	29	12	24	49	5	05	29.20	30.28	19	OVC	048			10.00	-SN	32	26	30	79	7	26	29.08	30.14	
22	CLR	NC			10.00	24	12	21	60	7	05	29.21	30.30	22	BKN	046			10.00	30	22	27	72	8	29	29.13	30.19		
SUNRISE: 0746				JAN 02				SUNSET: 1734				SUNRISE: 0746				JAN 08				SUNSET: 1739									
01	CLR	NC			10.00	25	11	21	55	10	03	29.20	30.27	01	CLR	NC			10.00	26	17	23	69	6	27	29.15	30.22		
04	CLR	NC			10.00	24	11	20	57	7	04	29.24	30.32	04	BKN	031			10.00	23	17	21	78	6	19	29.16	30.23		
07	CLR	NC			10.00	24	12	21	60	8	04	29.21	30.29	07	CLR	NC			10.00	22	17	20	82	3	21	29.17	30.25		
10	SCT	NC			10.00	25	12	21	58	8	05	29.22	30.31	10	SCT	NC			8.00	26	20	24	78	0	00	29.20	30.27		
13	SCT	NC			10.00	34	12	27	40	5	03	29.17	30.24	13	SCT	NC			10.00	33	21	29	61	6	23	29.12	30.19		
16	SCT	NC			10.00	35	13	28	40	3	35	29.13	30.20	16	SCT	NC			10.00	37	21	31	52	8	25	29.08	30.14		
19	OVC	080			10.00	34	16	28	48	0	00	29.10	30.17	19	CLR	NC			10.00	32	22	28	66	7	24	29.06	30.14		
22	BKN	075			10.00	32	15	27	50	9	36	29.07	30.15	22	CLR	NC			10.00	31	20	27	64	7	23	29.05	30.12		
SUNRISE: 0746				JAN 03				SUNSET: 1735				SUNRISE: 0746				JAN 09				SUNSET: 1740									
01	OVC	060			10.00	31	14	26	49	6	03	29.03	30.09	01	CLR	NC			10.00	34	21	29	59	12	24	29.04	30.11		
04	OVC	110			10.00	29	15	25	56	6	36	29.00	30.07	04	CLR	NC			10.00	31	23	28	72	12	24	29.02	30.09		
07	BKN	090			10.00	27	15	23	61	9	01	28.99	30.06	07	CLR	NC			10.00	33	23	29	67	5	25	29.02	30.08		
10	BKN	085			10.00	28	14	24	56	8	36	29.04	30.11	10	FEW	NC			10.00	41	29	36	62	8	26	29.02	30.08		
13	SCT	NC			10.00	32	15	26	50	9	04	29.01	30.08	13	FEW	NC			10.00	54	37	46	53	21	25	28.96	30.01		
16	SCT	NC			10.00	29	14	24	54	13	35	29.06	30.13	16	BKN	250			10.00	57	40	49	53	17	24	28.91	29.96		
19	FEW	NC			10.00	26	13	22	57	6	36	29.15	30.23	19	FEW	NC			10.00	46	37	42	71	7	24	28.93	29.99		
22	OVC	042			10.00	28	14	24	56	3	36	29.21	30.29	22	CLR	NC			10.00	50	40	45	68	14	25	28.96	30.01		
SUNRISE: 0746				JAN 04				SUNSET: 1736				SUNRISE: 0746				JAN 10				SUNSET: 1741									
01	OVC	042			10.00	28	17	25	63	3	35	29.21	30.29	01	CLR	NC			10.00	50	43	47	77	15	24	28.98	30.02		
04	BKN	038			10.00	23	17	21	78	5	36	29.23	30.32	04	OVC	029			10.00	53	47	50	80	10	24	28.99	30.03		
07	FEW	NC			8.00	21	18	20	88	5	03	29.27	30.36	07	OVC	030			10.00	54	48	51	80	12	23	28.98	30.03		
10	CLR	NC			9.00	27	18	24	69	0	00	29.32	30.41	10	OVC	026			10.00	56	49	52	77	14	22	29.00	30.04		
13	CLR	NC			10.00	35	16	29	46	3	22	29.25	30.33	13	OVC	022			10.00	59	51	55	75	17	22	28.96	30.00		
16	CLR	NC			10.00	39	13	30	34	8	30	29.23	30.31	16	OVC	022			10.00	57	51	54	81	20	23	28.92	29.96		
19	CLR	NC			10.00	34	12	27	40	5	26	29.21	30.29	19	OVC	029			9.00	55	52	53	90	9	23	28.93	29.97		
22	CLR	NC			10.00	28	15	24	58	3	19	29.22	30.31	22	OVC	055			10.00	57	50	53	78	15	22	28.90	29.94		
SUNRISE: 0746				JAN 05				SUNSET: 1737				SUNRISE: 0746				JAN 11				SUNSET: 1742									
01	CLR	NC			9.00	23	15	21	72	0	00	29.20	30.27	01	OVC	080			10.00	57	49	53	75	14	23	28.86	29.89		
04	CLR	NC			9.00	24	15	21	68	0	00	29.22	30.29	04	OVC	015			6.00	-RA BR	51	49	50	92	14	32	28.91	29.95	
07	CLR	NC			9.00	20	15	19	81	0	00	29.22	30.31	07	OVC	028			10.00	45	44	45	97	5	08	29.02	30.06		
10	CLR	NC			10.00	28	20	25	72	0	00	29.24	30.32	10	BKN	250			10.00	47	39	43	74	5	VR	29.08	30.13		
13	CLR	NC			10.00	43	19	34	38	7	25	29.12	30.19	13	SCT	NC			10.00	51	29	42	43	7	33	29.08	30.12		
16	CLR	NC			10.00	49	13	36	23	8	24	29.06	30.12	16	SCT	NC			10.00	52	33	43	49	8	30	29.06	30.10		
19	FEW	NC			10.00	41	15	32	35	0	00	29.04	30.11	19	CLR	NC			10.00	45	31	39	58	5	28	29.08	30.13		
22	CLR	NC			10.00	35	19	29	52	3	03	28.97	30.04	22	CLR	NC			10.00	37	30	34	76	0	00	29.08	30.14		
SUNRISE: 0746				JAN 06				SUNSET: 1737				SUNRISE: 0746				JAN 12				SUNSET: 1743									
01	OVC	090			10.00	34	22	30	61	5	07	28.91	29.96	01	CLR	NC			10.00	32	29	31	88	0	00	29.07	30.12		
04	OVC	023			7.00	40	32	37	73	3	VR	28.84	29.88	04	CLR	NC			8.00	28	27	28	96	0	00	29.06	30.12		
07	OVC	001			2.00	32	32	32	100	12	05	28.68	29.73	07	CLR	NC			7.00	28	26	27	92	5	02	29.00	30.06		
10	BKN	005			0.50	33	33	33	100	7	35	28.60	29.66	10	BKN	001			<.25	FZFG	30	30	30	100	0	00	29.00	30.06	
13	OVC	003			1.25	33	33	33	100	7	25	28.62	29.67	13	BKN	110			10.00	40	33	37	77	6	32	28.87	29.93		
16	OVC	026			6.00	35	35	35	100	10	25	28.68	29.73	16	OVC	100			10.00	41	33	38	74	5	27	28.80	29.85		
19	BKN	013			10.00	36	33	35	89	13	26	28.76	29.81	19	SCT	NC			10.00	34	30	32	85	9	22	28.78	29.84		
22	OVC	027			10.00	35	32	34	89	13	28	28.81	29.87	22	BKN	065			10.00	35	31	33	85	9	22	28.79	29.84		

# OBSERVATIONS AT 3-HOURLY INTERVALS

## KNOXVILLE, TN

JANUARY 2002

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	RELATIVE HUMIDITY (PCT)	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL		OBSERVATION TIME (LST)	EFF CLD AMT	RELATIVE HUMIDITY (PCT)	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
<b>SUNRISE: 0746</b>				<b>JAN 13</b>				<b>SUNSET: 1744</b>				<b>SUNRISE: 0744</b>				<b>JAN 19</b>				<b>SUNSET: 1750</b>							
01	OVC	044		10.00	38	31	35	76	6	19	28.81	29.85	01	BKN	100		10.00	38	29	34	70	10	05	28.95	30.01		
04	CLR	NC		10.00	34	27	31	76	8	25	28.87	29.92	04	OVC	046		5.00	-RA	36	31	34	82	6	05	28.87	29.93	
07	FEW	NC		10.00	32	26	30	79	5	23	28.93	30.00	07	OVC	006		2.00	+RA BR	35	34	35	96	9	35	28.85	29.90	
10	FEW	NC		10.00	38	29	34	70	8	23	28.98	30.04	10	OVC	006		2.00	+RA BR	36	35	36	97	6	34	28.86	29.91	
13	FEW	NC		10.00	45	24	37	44	6	VR	28.96	30.01	13	OVC	003		1.50	RA BR	39	38	39	96	10	31	28.71	29.76	
16	FEW	NC		10.00	49	22	38	35	7	20	28.95	30.01	16	OVC	006		2.00	-RA BR	41	40	41	96	6	31	28.68	29.72	
19	CLR	NC		10.00	41	20	33	43	5	07	28.93	29.98	19	OVC	006		7.00	-RA	42	40	41	92	6	32	28.76	29.80	
22	CLR	NC		10.00	32	21	28	64	5	25	28.92	29.98	22	OVC	020		10.00		37	31	35	79	8	35	28.96	30.03	
<b>SUNRISE: 0746</b>				<b>JAN 14</b>				<b>SUNSET: 1745</b>				<b>SUNRISE: 0743</b>				<b>JAN 20</b>				<b>SUNSET: 1751</b>							
01	CLR	NC		10.00	29	21	26	72	0	00	28.93	29.99	01	OVC	024		10.00		34	28	32	79	9	36	28.98	30.04	
04	CLR	NC		10.00	26	21	24	81	0	00	28.92	29.98	04	OVC	028		10.00		33	27	31	78	6	01	29.07	30.13	
07	BKN	038		10.00	26	20	24	78	0	00	28.94	30.00	07	OVC	025		9.00		31	27	29	85	7	06	29.05	30.11	
10	OVC	250		10.00	33	25	30	72	5	04	28.93	30.00	10	OVC	019		9.00		34	26	31	73	7	01	29.10	30.16	
13	BKN	250		10.00	52	38	45	59	13	21	28.84	29.89	13	BKN	250		10.00		39	29	35	67	0	00	29.07	30.13	
16	OVC	050		10.00	56	42	49	60	22	22	28.80	29.85	16	BKN	100		10.00		44	32	39	63	6	09	28.98	30.04	
19	BKN	041		10.00	53	43	48	69	15	23	28.84	29.89	19	OVC	250		10.00		39	32	36	76	0	00	28.96	30.03	
22	SCT	NC		10.00	50	43	47	77	13	23	28.90	29.95	22	SCT	NC		9.00		37	32	35	82	0	00	28.92	29.98	
<b>SUNRISE: 0745</b>				<b>JAN 15</b>				<b>SUNSET: 1746</b>				<b>SUNRISE: 0743</b>				<b>JAN 21</b>				<b>SUNSET: 1752</b>							
01	FEW	NC		10.00	45	31	39	58	13	30	28.96	30.00	01	OVC	250		7.00		37	33	35	86	0	00	28.88	29.94	
04	CLR	NC		10.00	39	28	35	65	5	27	29.01	30.06	04	OVC	050		4.00	-RA BR	38	36	37	93	0	00	28.89	29.94	
07	CLR	NC		10.00	35	28	32	76	0	00	29.06	30.11	07	OVC	070		4.00	BR	41	39	40	93	0	00	28.88	29.93	
10	CLR	NC		10.00	39	30	35	70	7	27	29.12	30.17	10	SCT	NC		10.00		48	45	47	89	20	22	28.94	30.00	
13	SCT	NC		10.00	46	27	38	47	8	25	29.12	30.16	13	SCT	NC		10.00		53	40	47	61	16	25	28.98	30.03	
16	CLR	NC		10.00	47	23	37	39	10	28	29.11	30.17	16	CLR	NC		10.00		54	34	45	47	15	26	29.00	30.05	
19	FEW	NC		10.00	42	24	35	49	3	28	29.17	30.23	19	CLR	NC		10.00		47	26	38	44	9	27	29.09	30.14	
22	CLR	NC		10.00	36	22	31	57	5	02	29.19	30.26	22	CLR	NC		10.00		44	23	36	43	7	30	29.15	30.20	
<b>SUNRISE: 0745</b>				<b>JAN 16</b>				<b>SUNSET: 1747</b>				<b>SUNRISE: 0743</b>				<b>JAN 22</b>				<b>SUNSET: 1753</b>							
01	CLR	NC		10.00	31	22	28	69	3	06	29.19	30.25	01	CLR	NC		10.00		36	27	33	70	0	00	29.19	30.24	
04	FEW	NC		9.00	27	23	26	85	5	06	29.21	30.27	04	CLR	NC		10.00		32	27	30	82	0	00	29.21	30.28	
07	CLR	NC		10.00	28	22	26	78	6	03	29.21	30.28	07	CLR	NC		10.00		30	25	28	82	3	02	29.24	30.31	
10	OVC	250		10.00	32	27	30	82	3	06	29.22	30.29	10	FEW	NC		10.00		36	30	34	79	5	07	29.29	30.36	
13	BKN	250		10.00	45	27	38	49	3	26	29.19	30.25	13	SCT	NC		10.00		52	29	42	41	5	VR	29.24	30.30	
16	SCT	NC		10.00	50	24	39	36	3	27	29.09	30.15	16	OVC	250		10.00		54	24	42	31	3	25	29.20	30.25	
19	BKN	250		10.00	45	25	37	46	6	15	29.07	30.13	19	BKN	110		10.00		50	29	41	44	5	05	29.15	30.21	
22	CLR	NC		10.00	38	26	33	62	0	00	29.05	30.11	22	OVC	054		7.00	-RA	44	38	41	79	12	32	29.18	30.24	
<b>SUNRISE: 0745</b>				<b>JAN 17</b>				<b>SUNSET: 1748</b>				<b>SUNRISE: 0742</b>				<b>JAN 23</b>				<b>SUNSET: 1754</b>							
01	SCT	NC		10.00	34	27	31	76	0	00	29.06	30.12	01	OVC	042		10.00	-RA	43	41	42	93	5	03	29.14	30.19	
04	BKN	070		10.00	34	25	31	70	0	00	29.06	30.12	04	OVC	037		3.00	RA BR	42	41	42	96	6	06	29.12	30.17	
07	OVC	060		10.00	41	27	35	57	3	24	29.05	30.11	07	OVC	004		1.75	+RA BR	42	41	42	96	5	36	29.09	30.14	
10	OVC	060		10.00	46	29	39	51	8	25	29.10	30.15	10	OVC	011		2.50	-RA BR	43	42	43	97	0	00	29.09	30.14	
13	SCT	NC		10.00	52	29	42	41	5	22	29.07	30.12	13	OVC	014		1.50	+RA BR	44	43	44	96	0	00	29.07	30.13	
16	OVC	055		10.00	53	32	44	45	9	23	29.04	30.09	16	OVC	014		1.50	-RA BR	48	47	47	96	0	00	29.03	30.08	
19	OVC	050		10.00	49	33	42	55	6	22	29.03	30.09	19	OVC	001		1.00	BR	50	49	49	96	3	35	29.01	30.06	
22	OVC	060		10.00	48	34	42	58	6	30	28.99	30.04	22	OVC	001		0.50	FG	48	47	47	96	3	02	28.97	30.02	
<b>SUNRISE: 0744</b>				<b>JAN 18</b>				<b>SUNSET: 1749</b>				<b>SUNRISE: 0742</b>				<b>JAN 24</b>				<b>SUNSET: 1755</b>							
01	OVC	050		5.00	-RA	41	35	38	79	9	36	29.04	30.09	01	BKN	110		2.00	BR	47	46	46	97	3	36	28.93	29.98
04	OVC	055		3.00	-RA BR	39	38	39	96	5	05	29.08	30.13	04	FEW	NC		9.00		55	54	54	96	10	20	28.84	29.87
07	OVC	026		10.00	34	31	33	89	9	02	29.14	30.19	07	OVC	100		10.00		63	56	59	78	26	22	28.80	29.83	
10	OVC	040		10.00	36	31	34	82	14	04	29.20	30.26	10	OVC	025		4.00	-RA BR	57	56	56	96	7	18	28.92	29.96	
13	SCT	NC		10.00	41	32	37	70	12	08	29.17	30.23	13	OVC	031		7.00	-RA	59	57	58	93	8	25	28.85	29.89	
16	BKN	250		10.00	45	34	40	66	9	10	29.14	30.19	16	OVC	060		10.00	-RA	59	56	57	90	9	24	28.83	29.85	
19	SCT	NC		10.00	37	32	35	82	5	06	29.14	30.21	19	OVC	060		6.00	-RA BR	55	52	53	90	9	28	28.88	29.92	
22	OVC	090		10.00	39	33	37	79	6	03	29.09	30.15	22	OVC	040		5.00	-RA BR	51	50	51	96	8	28	28.90	29.94	

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2002

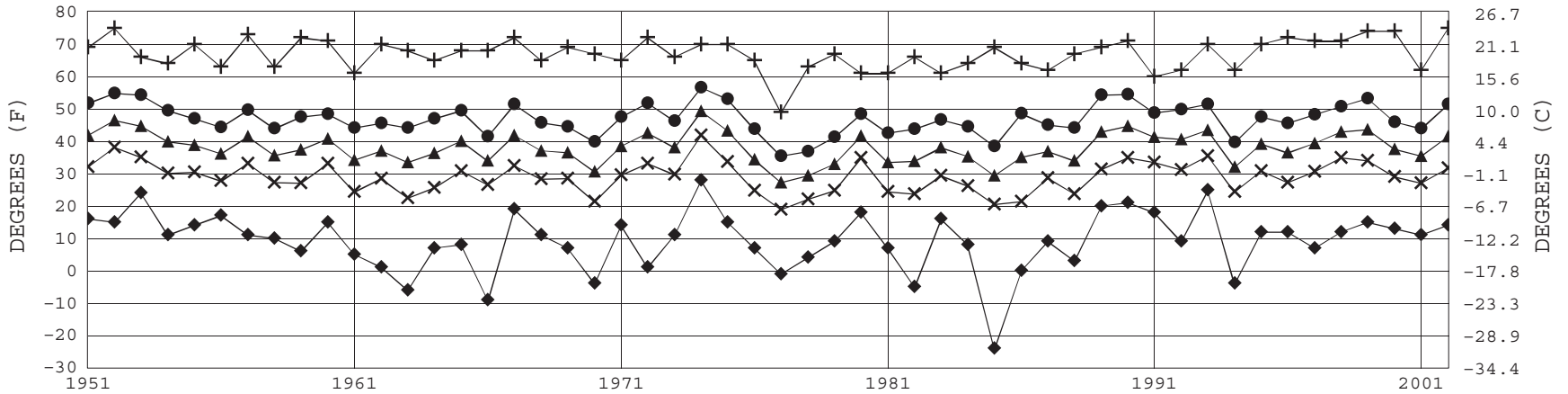
TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)													
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Okltas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER		CEILING	OBSERVATION TIME (LST)		EFF CLD AMT Okltas	VISIBILITY (MILES)	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	OVC	007			2.00	-RA BR	47	45	46	93	16	36	28.93	29.98	01	CLR	NC				10.00	61	53	57	75	6	24	29.06	30.09												
04	OVC	070			10.00		41	34	38	76	9	01	29.07	30.12	04	CLR	NC				10.00	60	53	56	78	5	28	29.05	30.07												
07	SCT	NC			10.00		37	31	35	79	7	02	29.11	30.16	07	BKN	047				7.00	54	51	52	90	0	00	29.07	30.11												
10	FEW	NC			10.00		38	32	36	79	10	05	29.17	30.23	10	OVC	047				9.00	64	56	59	75	10	29	29.12	30.15												
13	FEW	NC			10.00		47	32	40	56	14	04	29.19	30.24	13	SCT	NC				10.00	74	58	64	57	21	24	29.08	30.11												
16	FEW	NC			10.00		50	25	40	38	10	04	29.18	30.23	16	SCT	NC				10.00	73	58	64	59	17	23	29.02	30.05												
19	CLR	NC			10.00		45	25	37	46	5	05	29.19	30.25	19	FEW	NC				10.00	67	58	62	73	9	26	29.02	30.05												
22	CLR	NC			10.00		38	27	34	65	0	00	29.21	30.27	22	FEW	NC				10.00	61	57	59	87	9	26	28.99	30.02												
SUNRISE: 0740							JAN 26							SUNSET: 1757							3-HOURLY OBSERVATION NOTES																				
01	CLR	NC			10.00		31	28	30	89	0	00	29.21	30.27	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	CLR	NC			10.00		30	27	29	88	0	00	29.23	30.30	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																										
07	CLR	NC			8.00		27	24	26	89	5	08	29.26	30.33	NC = No ceiling detected.																										
10	CLR	NC			10.00		36	30	34	79	0	00	29.30	30.37	& = Original observation contained additional weather elements.																										
13	CLR	NC			10.00		50	30	41	46	3	36	29.24	30.32	See page 3 for additional notes.																										
16	CLR	NC			10.00		56	31	45	39	0	00	29.20	30.25																											
19	CLR	NC			10.00		51	33	43	50	0	00	29.20	30.26																											
22	CLR	NC			10.00		42	34	39	73	0	00	29.21	30.27																											
SUNRISE: 0740							JAN 27							SUNSET: 1758							SUMMARY BY HOUR																				
01	CLR	NC			10.00		37	32	35	82	0	00	29.21	30.26	AVERAGES																										
04	CLR	NC			5.00	BR	32	30	31	92	3	07	29.21	30.26	RESULTANT WIND (MPH)																										
07	CLR	NC			7.00		31	28	30	89	3	01	29.22	30.29	HOUR (LST)																										
10	CLR	NC			7.00		38	34	36	86	5	07	29.26	30.33	CEILOMETER																										
13	FEW	NC			10.00		55	38	47	53	0	00	29.21	30.26	EFF CLD AMT																										
16	CLR	NC			10.00		61	42	51	50	8	26	29.14	30.19	DRY BULB																										
19	BKN	250			10.00		53	42	48	66	0	00	29.13	30.18	DEW POINT																										
22	BKN	250			10.00		49	42	46	77	5	21	29.16	30.21	WET BULB																										
SUNRISE: 0739							JAN 28							SUNSET: 1759							RELATIVE HUMIDITY																				
01	CLR	NC			8.00		42	40	41	92	0	00	29.14	30.19	PRESSURE (INCHES, HG)																										
04	CLR	NC			5.00	BR	36	35	36	97	0	00	29.14	30.19	STATION																										
07	SCT	NC			3.00	BR	36	34	35	93	0	00	29.16	30.22	SEA LEVEL																										
10	FEW	NC			7.00		44	40	42	85	3	07	29.16	30.21	VISIBILITY (MILES)																										
13	OVC	025			10.00		55	42	49	62	6	22	29.12	30.17	WIND SPEED (MPH)																										
16	CLR	NC			10.00		66	48	56	52	15	24	29.06	30.10	SPEED																										
19	OVC	045			10.00		61	53	57	75	9	24	29.07	30.12	DIRECTION																										
22	OVC	045			10.00		60	54	57	80	10	26	29.05	30.10																											
SUNRISE: 0738							JAN 29							SUNSET: 1800																											
01	OVC	055			10.00		59	53	56	81	7	28	29.04	30.08																											
04	OVC	060			10.00		59	54	56	83	10	29	29.05	30.08																											
07	OVC	021			10.00		60	55	57	84	5	27	29.07	30.11																											
10	OVC	024			10.00		63	57	60	81	12	24	29.11	30.14																											
13	BKN	065			10.00		71	60	64	68	14	24	29.08	30.11																											
16	BKN	060			10.00		71	59	64	66	14	22	29.05	30.08																											
19	SCT	NC			10.00		64	58	60	81	10	24	29.09	30.12																											
22	SCT	NC			8.00		61	57	59	87	5	26	29.09	30.12																											
SUNRISE: 0738							JAN 30							SUNSET: 1801																											
01	SCT	NC			3.00	BR	54	54	54	100	3	09	29.07	30.11																											
04	BKN	001			0.25	FG	50	50	50	100	3	08	29.08	30.11																											
07	BKN	001			0.25	FG	52	52	52	100	9	15	29.10	30.14																											
10	SCT	NC			4.00	BR	58	57	57	97	6	28	29.13	30.16																											
13	SCT	NC			10.00		72	56	62	57	14	26	29.09	30.12																											
16	BKN	055			10.00		73	56	63	55	13	27	29.05	30.08																											
19	BKN	095			10.00		66	55	60	68	7	24	29.07	30.10																											
22	CLR	NC			10.00		62	54	57	75	6	24	29.07	30.11																											



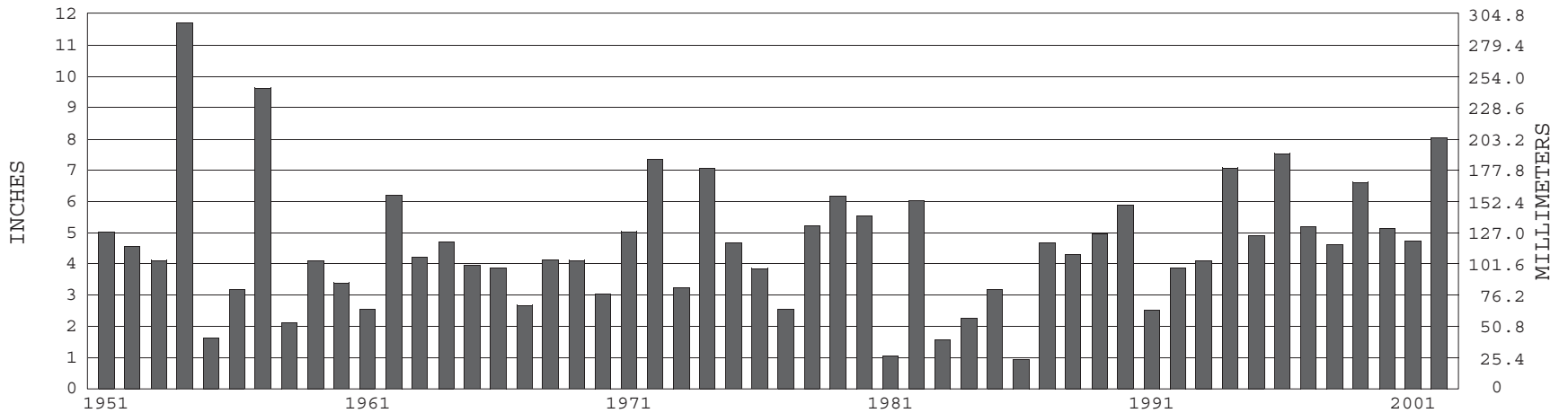
### KNOXVILLE, TN JANUARY TEMPERATURES



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

Long-Term (1951-2002) Mean: 38.0      1961-1990 Normal: 37.6

### KNOXVILLE, TN JANUARY PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 4.59

1961-1990 Normal: 4.57



JANUARY 2002

KNOXVILLE, TN

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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