



# JANUARY 2001

## 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): 992 Feet  
 Time Zone: EASTERN WBAN: 13891 ISSN #:0198-4810

JANUARY 2001  
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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24													
01	27	18	23	-14	20	22	42	0	SN FZFG BR HZ				0.03	29.25	30.35	1.3	34	3.9	12	33	9	34	01													
02	32	18	25	-11	16	22	40	0	SN HZ				T	29.45	30.55	6.1	02	6.7	16	03	14	02	02													
03	33	11*	22*	-14	13	20	43	0	BR HZ				0.00	29.29	30.40	0.9	26	4.9	13	23	12	23	03													
04	41	22	32	-4	18	27	33	0					0.00	29.09	30.17	4.6	23	5.6	17	26	13	25	04													
05	49	25	37	1	25	33	28	0	HZ				0.00	28.80	29.87	12.5	24	12.8	28	22	22	24	05													
06	46	26	36	0	22	31	29	0					0.00	28.88	29.95	4.3	24	5.9	17	24	13	24	06													
07	51	26	39	3	26	34	26	0	RA				T	28.84	29.91	0.3	32	1.4	8	30	7	32	07													
08	44	30	37	1	33	35	28	0	RA SN PL BR				0.36	28.85	29.92	2.8	33	3.7	13	28	13	27	08													
09	33	21	27	-9	15	24	38	0	SN				T	29.16	30.25	6.2	01	6.7	24	33	20	33	09													
10	45	17	31	-5	17	25	34	0	HZ				0.00	29.26	30.36	4.8	03	5.0	15	06	14	03	10													
11	40	21	31	-5	24	29	34	0	RA PL BR HZ				0.29	29.13	30.21	1.6	04	1.7	12	03	12	03	11													
12	40	31	36	0	36	36	29	0	RA DZ FG+ BR				0.15	29.07	30.15	1.3	34	2.9	9	13	9	13	12													
13	38	31	35	-1	35	35	30	0	FG+ BR				0.00	29.18	30.26	2.6	05	3.0	9	09	8	09	13													
14	43	34	39	3	38	38	26	0	RA FG+ BR				0.01	29.09	30.17	1.4	05	2.9	13	10	13	10	14													
15	57	40	49	14	41	44	16	0	FG+ BR HZ				0.00	29.04	30.10	7.2	25	7.7	24	24	21	25	15													
16	43	32	38	3	30	35	27	0					0.00	29.14	30.22	1.4	33	3.7	15	27	13	27	16													
17	45	29	37	2	33	36	28	0	RA SN BR HZ				0.05	29.12	30.20	3.7	02	4.6	13	03	12	01	17													
18	46	40	43	7	43	43	22	0	RA DZ BR				1.33	28.95	30.01	3.6	04	4.4	13	31	12	31	18													
19	49	36	43	7	43	44	22	0	RA DZ BR				1.91	28.72	29.77	3.1	35	4.2	16	34	14	34	19													
20	36	25	31	-5	27	30	34	0	RA DZ SN BR HZ				0.08	29.00	30.07	9.6	28	10.2	26	28	21	29	20													
21	36	22	29	-7	19	25	36	0					0.00	29.30	30.39	2.4	02	3.8	12	04	10	04	21													
22	42	25	34	-2	23	29	31	0	BR HZ				0.00	29.31	30.41	2.9	04	3.5	13	04	12	05	22													
23	48	21	35	-1	23	30	30	0	BR				0.00	29.19	30.28	0.4	26	1.4	8	27	7	27	23													
24	49	29	39	3	28	34	26	0					0.00	29.08	30.16	5.5	24	5.9	18	24	15	25	24													
25	36	24	30	-6	17	26	35	0	SN				T	29.27	30.35	4.2	01	7.2	21	33	16	01	25													
26	43	18	31	-5	21	29	34	0	RA SN GS BR				T	29.13	30.22	4.8	25	6.5	23	23	18	24	26													
27	45	28	37	1	28	35	28	0	HZ				0.00	29.17	30.24	4.4	28	9.5	23	22	20	23	27													
28	45	22	34	-2	23	29	31	0	BR HZ				0.00	29.27	30.35	4.7	03	5.3	12	10	10	06	28													
29	62*	30	46	10	32	40	19	0	RA BR HZ				0.34	28.96	30.02	1.9	06	6.3	30	17	24	16	29													
30	61	47	54*	17	40	48	11	0	RA BR				0.19	28.63	29.67	20.3	22	20.7	45*	23	38*	23	30													
31	57	37	47	10	35	43	18	0					0.00	28.81	29.85	13.4	25	14.8	32	24	26	22	31													
43.9											27.0	35.5	■ ■	27.2	32.6	29.3	0.0	< MONTHLY AVERAGES		TOTALS-->		4.74	29.08	30.16	1.9	28	6.0	<-- MONTHLY AVERAGES								
-2.0											1.0	- .5	■ ■	<-----DEPARTURE FROM NORMAL----->											0.57	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 2.60				DATE: 18-19		SEA LEVEL PRESSURE				DATE		TIME														
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL:				DATE:		MAXIMUM		DATE:		MINIMUM		DATE:		TIME												
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH:				DATE:		:		:		:		:		:												
HEATING:		908		9		2568		152		NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90:		0		MINIMUM TEMP ≤ 32:		25		PRECIPITATION ≥ 0.01 INCH:		11														
COOLING:		0		0		0		0		THUNDERSTORMS		:		0		MINIMUM TEMP ≤ 0:		0		PRECIPITATION ≥ 0.10 INCH:		7														
																				SNOWFALL ≥ 1.0 INCH:																

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

JANUARY 2001

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	.01	T	T	T	T	T	T	.01	T	T	01		0.03		
02	T				T	T							02			T	T	T	T	T	T				02		T		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		T		
08	0.02	0.08	0.09	0.08	0.04	0.04	T						08		T	T	T	0.01	T	T	T	T		T	08		0.36		
09	T	T	T	T	T	T	T	T	T	T	T	T	09											T	09		T		
10													10												10		0.00		
11													11		T	T					T	0.01	0.10	0.18	11		0.29		
12	0.07	T	0.01	0.01	T	T	0.01	0.02	T	T	0.01	0.02	12	T											12		0.15		
13													13												13		0.00		
14													14		0.01	T	T	T							14		0.01		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.05		
18		T	T	0.02	0.01	0.07	0.07	0.02	0.01	0.04	0.10	0.06	18	0.06	0.03	0.04	0.03	T	0.05	0.06	0.06	0.07	0.04	0.17	0.32	18		1.33	
19	0.16	0.13	0.10	0.25	0.18	0.26	0.09	0.11	0.05	0.09	0.10	0.10	19	0.10	0.04	T		T	0.08	0.04	0.01	0.02	T	T	T	19		1.91	
20	T	T	T		T	0.01	0.01	0.02	0.01	0.01	0.01	T	20	T	0.01	T		T	T	T	T	T	T	T	20		0.08		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25								T	T	T		T	25												25		T		
26													26			T	T	T	T						26		T		
27													27												27		0.00		
28													28												28		0.00		
29													29									T	0.03	0.01	0.15	0.15	29		0.34
30	0.08	0.06	0.02	T		0.01	0.02						30												30		0.19		
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)	.06	.11	.14	.17	.22	.29	.35	.41	.47	.53	.64	.71
Ending Date	18	18	18	18	19	18	18	19	19	19	19	19
Ending Time (Hour/Min)	2252	2257	2304	2305	0520	2333	2347	0007	0026	0037	0531	0540

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 1961 – 1990

## 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 2001

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							.50	7.00	
02							5.00	10.00	
03							2.50	10.00	
04							8.00	10.00	
05							5.00	10.00	
06							10.00	10.00	
07							7.00	10.00	
08							.75	10.00	
09							6.00	10.00	
10							6.00	10.00	
11							3.00	10.00	
12							<.25	4.00	
13							<.25	2.50	
14							<.25	3.00	
15							.06	10.00	
16							7.00	10.00	
17							3.00	7.00	
18							.75	3.00	
19							.75	10.00	
20							.75	10.00	
21							7.00	10.00	
22							5.00	10.00	
23							5.00	10.00	
24							7.00	10.00	
25							2.50	10.00	
26							6.00	10.00	
27							5.00	10.00	
28							3.00	9.00	
29							2.50	10.00	
30							3.00	10.00	
31							10.00	10.00	
<b>MONTHLY AVGS</b>							4.24	8.82	
<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 4              13              7									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2001

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	SEA LEVEL	
SUNRISE: 0746				JAN 01				SUNSET: 1733				SUNRISE: 0746				JAN 07				SUNSET: 1738								
01	BKN	110		5.00	BR	19	15	18	85	3	07	29.21	30.32	01	CLR	NC		10.00	33	20	28	59	3	27	28.86	29.93		
04	BKN	080		6.00	BR	20	16	19	85	5	06	29.24	30.34	04	FEW	NC		8.00	29	22	27	75	0	00	28.87	29.93		
07	OVC	075		7.00		21	17	20	85	6	05	29.23	30.33	07	CLR	NC		8.00	28	21	26	75	0	00	28.88	29.96		
10	OVC	031		4.00	-SN	24	17	22	75	0	00	29.25	30.35	10	SCT	NC		7.00	33	25	30	72	0	00	28.90	29.98		
13	OVC	026		2.00	-SN	25	21	24	85	0	00	29.21	30.32	13	BKN	120		10.00	44	27	37	51	3	VR	28.84	29.91		
16	OVC	027		1.50	-SN	26	22	25	84	7	23	29.22	30.32	16	SCT	NC		10.00	50	29	41	44	5	03	28.79	29.85		
19	OVC	019		1.25	-SN	25	24	25	96	0	00	29.27	30.37	19	OVC	042		10.00	47	28	39	48	0	00	28.79	29.86		
22	OVC	045		2.00	-SN BR	24	22	23	91	3	27	29.31	30.41	22	BKN	033		9.00	42	31	37	65	0	00	28.81	29.88		
SUNRISE: 0746				JAN 02				SUNSET: 1734				SUNRISE: 0746				JAN 08				SUNSET: 1739								
01	OVC	029		8.00		25	19	23	78	6	35	29.34	30.45	01	OVC	014		3.00	-RA	BR	40	38	39	93	0	00	28.78	29.85
04	OVC	033		7.00		25	18	23	75	7	02	29.39	30.49	04	OVC	036		1.00	-RA	BR	39	39	39	100	3	04	28.77	29.82
07	OVC	080		8.00		22	17	20	82	7	36	29.44	30.54	07	OVC	024		3.00	BR		38	38	38	100	5	01	28.77	29.83
10	FEW	NC		8.00		25	17	23	72	10	02	29.51	30.62	10	OVC	032		6.00	BR		37	33	35	86	5	36	28.84	29.91
13	SCT	NC		10.00		30	18	26	61	0	00	29.48	30.59	13	OVC	019		4.00	BR		37	34	36	89	6	31	28.83	29.89
16	BKN	045		10.00		30	16	26	56	12	02	29.45	30.56	16	OVC	015		1.75	-PL	BR	34	33	34	97	7	31	28.85	29.92
19	CLR	NC		10.00		26	14	22	60	7	03	29.45	30.56	19	OVC	038		2.50	BR		32	30	31	92	0	00	28.92	29.99
22	CLR	NC		10.00		21	12	19	68	5	06	29.45	30.57	22	OVC	047		10.00	31	23	28	72	0	00	28.95	30.03		
SUNRISE: 0746				JAN 03				SUNSET: 1735				SUNRISE: 0746				JAN 09				SUNSET: 1740								
01	CLR	NC		7.00		19	13	17	77	5	04	29.44	30.56	01	OVC	044		9.00	-SN		30	20	27	66	0	00	28.98	30.06
04	CLR	NC		7.00		16	11	15	80	3	07	29.40	30.51	04	OVC	042		10.00	-SN		29	18	25	64	14	01	28.99	30.07
07	CLR	NC		7.00		13	10	12	88	5	07	29.39	30.50	07	OVC	050		10.00			26	18	23	71	12	36	29.07	30.15
10	CLR	NC		7.00		18	14	17	84	3	VR	29.37	30.48	10	BKN	042		10.00			26	15	23	63	10	01	29.18	30.28
13	CLR	NC		9.00		28	16	24	61	5	VR	29.31	30.41	13	BKN	039		10.00			29	15	25	56	13	02	29.20	30.29
16	CLR	NC		10.00		33	11	26	40	6	21	29.20	30.30	16	FEW	NC		10.00			32	13	26	45	5	VR	29.20	30.29
19	CLR	NC		10.00		27	12	23	53	7	22	29.16	30.27	19	FEW	NC		10.00			29	13	24	51	5	03	29.25	30.35
22	CLR	NC		9.00		24	11	20	57	7	27	29.16	30.27	22	CLR	NC		10.00			25	12	21	58	3	05	29.28	30.38
SUNRISE: 0746				JAN 04				SUNSET: 1736				SUNRISE: 0746				JAN 10				SUNSET: 1741								
01	SCT	NC		10.00		22	14	20	71	8	21	29.12	30.22	01	CLR	NC		6.00	HZ		20	15	19	81	5	05	29.28	30.39
04	OVC	038		10.00		25	16	22	69	6	22	29.12	30.21	04	CLR	NC		7.00			21	15	19	78	5	04	29.29	30.39
07	OVC	036		10.00		26	17	23	69	7	22	29.12	30.22	07	CLR	NC		7.00			20	17	19	89	6	04	29.31	30.41
10	BKN	036		10.00		31	15	26	52	7	24	29.12	30.22	10	CLR	NC		10.00			26	19	24	75	9	05	29.32	30.42
13	FEW	NC		10.00		38	19	31	47	6	21	29.10	30.18	13	CLR	NC		10.00			37	17	30	44	6	03	29.28	30.37
16	CLR	NC		10.00		41	22	34	47	7	28	29.08	30.16	16	CLR	NC		10.00			44	19	35	37	5	04	29.21	30.30
19	CLR	NC		10.00		33	20	29	59	5	23	29.08	30.16	19	CLR	NC		10.00			39	14	31	36	3	06	29.23	30.32
22	CLR	NC		9.00		31	21	27	67	5	21	28.99	30.07	22	CLR	NC		10.00			32	16	27	52	3	35	29.18	30.27
SUNRISE: 0746				JAN 05				SUNSET: 1737				SUNRISE: 0746				JAN 11				SUNSET: 1742								
01	FEW	NC		8.00		25	20	23	81	7	24	28.94	30.01	01	CLR	NC		9.00	-RA		25	19	23	78	3	06	29.17	30.26
04	FEW	NC		9.00		34	24	30	67	16	23	28.90	29.97	04	CLR	NC		8.00			23	18	21	81	5	07	29.18	30.27
07	SCT	NC		10.00		35	24	31	64	12	26	28.83	29.90	07	CLR	NC		5.00	BR		22	18	21	85	0	00	29.18	30.27
10	BKN	090		7.00		40	26	34	58	18	23	28.80	29.88	10	SCT	NC		7.00			26	21	24	81	3	03	29.20	30.29
13	FEW	NC		5.00	HZ	44	28	37	53	16	23	28.76	29.82	13	SCT	NC		7.00			34	25	31	70	3	06	29.14	30.23
16	CLR	NC		10.00		48	26	39	42	18	25	28.70	29.76	16	OVC	060		8.00			39	27	34	62	7	05	29.07	30.15
19	CLR	NC		10.00		40	23	33	51	6	26	28.75	29.81	19	OVC	048		10.00			38	26	33	62	0	00	29.06	30.14
22	CLR	NC		10.00		35	24	31	64	10	22	28.78	29.85	22	OVC	042		5.00	-RA		36	31	34	82	0	00	29.04	30.12
SUNRISE: 0746				JAN 06				SUNSET: 1738				SUNRISE: 0746				JAN 12				SUNSET: 1743								
01	SCT	NC		10.00		35	24	31	64	9	25	28.83	29.90	01	OVC	030		3.00	-RA	BR	34	34	34	100	3	07	29.04	30.12
04	OVC	043		10.00		33	23	29	67	0	00	28.85	29.92	04	OVC	030		3.00	DZ	BR	34	34	34	100	6	02	28.99	30.06
07	SCT	NC		10.00		31	20	27	64	6	35	28.88	29.95	07	OVC	005		1.00	DZ	BR	34	34	34	100	3	36	29.03	30.10
10	CLR	NC		10.00		35	23	31	61	0	00	28.92	30.00	10	OVC	002		0.50	DZ	FG	35	35	35	100	6	30	29.06	30.13
13	CLR	NC		10.00		42	22	34	45	7	25	28.88	29.95	13	OVC	005		1.75	BR		37	37	37	100	3	21	29.08	30.15
16	CLR	NC		10.00		46	23	37	40	12	26	28.88	29.94	16	OVC	011		3.00	BR		40	39	40	97	0	00	29.08	30.15
19	CLR	NC		10.00		39	22	33	50	7	23	28.88	29.95	19	OVC	027		4.00	BR		39	39	39	100	0	00	29.12	30.20
22	CLR	NC		10.00		33	21	29	61	7	23	28.88	29.96	22	VV	001		<.25	FG		34	34	34	100	5	33	29.15	30.23

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2001

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	SEA LEVEL
SUNRISE: 0746				JAN 13				SUNSET: 1744				SUNRISE: 0744				JAN 19				SUNSET: 1750							
01	VV	001	< .25	FG	32	32	32	100	0	00	29.16	30.25	01	OVC	007	1.25	RA BR	45	45	45	100	3	03	28.76	29.80		
04	VV	001	< .25	FG	33	33	33	100	3	29	29.16	30.24	04	OVC	010	1.25	RA BR	45	45	45	100	6	33	28.71	29.76		
07	OVC	001	0.75	BR	33	33	33	100	7	05	29.18	30.27	07	OVC	005	1.75	-RA BR	46	46	46	100	0	00	28.67	29.71		
10	OVC	001	0.50	FG	34	34	34	100	6	09	29.23	30.32	10	OVC	004	1.50	-RA BR	48	48	48	100	0	00	28.70	29.75		
13	OVC	001	1.50	BR	36	36	36	100	3	34	29.20	30.29	13	OVC	007	1.50	RA BR	48	48	48	100	0	00	28.68	29.73		
16	OVC	005	2.50	BR	38	37	38	97	7	04	29.14	30.23	16	OVC	011	6.00	BR	44	43	44	96	5	02	28.67	29.72		
19	OVC	003	2.50	BR	37	37	37	100	0	00	29.14	30.23	19	OVC	009	4.00	BR	42	41	42	96	7	35	28.73	29.78		
22	VV	001	< .25	FG	36	36	36	100	6	06	29.15	30.24	22	OVC	017	2.50	BR	37	35	36	93	5	36	28.81	29.88		
SUNRISE: 0745				JAN 14				SUNSET: 1745				SUNRISE: 0743				JAN 20				SUNSET: 1751							
01	VV	001	< .25	FG	35	35	35	100	0	00	29.13	30.21	01	OVC	019	3.00	DZ BR	36	34	35	93	6	35	28.82	29.88		
04	VV	001	< .25	FG	34	34	34	100	0	00	29.12	30.21	04	OVC	023	10.00		35	33	34	93	5	26	28.85	29.92		
07	OVC	001	0.25	FG	34	34	34	100	3	27	29.15	30.23	07	OVC	004	1.50	-SN BR	32	32	32	100	7	28	28.90	29.97		
10	VV	001	< .25	FG	34	34	34	100	7	12	29.14	30.22	10	OVC	004	1.50	-DZSN BR	32	32	32	100	7	27	28.95	30.03		
13	OVC	004	2.50	BR	39	38	39	96	7	05	29.07	30.14	13	OVC	014	1.50	-SN BR	33	31	32	92	13	28	28.96	30.03		
16	OVC	009	2.00	-RA BR	43	41	42	93	3	01	29.05	30.11	16	OVC	046	10.00		33	24	30	70	13	29	29.02	30.09		
19	OVC	030	3.00	BR	43	41	42	93	0	00	29.05	30.12	19	OVC	040	9.00	-SN	29	20	26	69	15	29	29.12	30.21		
22	OVC	029	3.00	BR	42	41	42	96	3	08	29.05	30.12	22	OVC	032	9.00	-SN	26	17	23	69	17	27	29.21	30.30		
SUNRISE: 0745				JAN 15				SUNSET: 1746				SUNRISE: 0743				JAN 21				SUNSET: 1752							
01	OVC	007	2.00	BR	40	40	40	100	0	00	29.05	30.12	01	OVC	034	10.00		24	18	22	77	5	35	29.20	30.29		
04	OVC	023	2.00	BR	40	40	40	100	0	00	29.03	30.10	04	OVC	030	10.00		25	15	22	66	7	32	29.24	30.33		
07	OVC	006	2.00	BR	40	40	40	100	0	00	29.05	30.11	07	SCT	NC	10.00		24	17	22	75	5	06	29.28	30.37		
10	VV	001	0.06	FG	45	45	45	100	6	25	29.06	30.13	10	SCT	NC	10.00		25	17	23	72	8	04	29.35	30.44		
13	SCT	NC	7.00		55	45	50	69	15	24	29.02	30.08	13	FEW	NC	10.00		30	18	26	61	0	00	29.33	30.43		
16	CLR	NC	9.00		57	43	50	60	16	23	28.99	30.05	16	CLR	NC	10.00		35	20	30	54	5	VR	29.30	30.39		
19	CLR	NC	10.00		47	38	43	71	9	25	29.01	30.08	19	CLR	NC	10.00		31	23	28	72	3	11	29.31	30.41		
22	SCT	NC	10.00		45	36	41	71	9	26	29.09	30.15	22	CLR	NC	10.00		26	24	25	92	3	05	29.32	30.42		
SUNRISE: 0745				JAN 16				SUNSET: 1747				SUNRISE: 0742				JAN 22				SUNSET: 1753							
01	CLR	NC	10.00		41	32	37	70	10	27	29.09	30.15	01	FEW	NC	7.00		28	25	27	88	6	05	29.32	30.42		
04	CLR	NC	10.00		37	29	34	73	3	24	29.11	30.18	04	CLR	NC	7.00		26	22	25	84	5	07	29.33	30.42		
07	CLR	NC	8.00		34	29	32	82	0	00	29.13	30.21	07	CLR	NC	5.00	BR	25	22	24	88	0	00	29.33	30.43		
10	FEW	NC	7.00		36	31	34	82	0	00	29.19	30.27	10	SCT	NC	10.00		29	23	27	78	8	05	29.37	30.46		
13	SCT	NC	7.00		41	31	37	67	6	06	29.14	30.22	13	SCT	NC	10.00		38	22	32	53	5	10	29.34	30.42		
16	SCT	NC	8.00		42	29	37	60	3	36	29.11	30.19	16	SCT	NC	10.00		42	24	35	49	5	08	29.28	30.37		
19	BKN	120	9.00		38	31	35	76	5	03	29.14	30.22	19	CLR	NC	10.00		39	21	32	48	0	00	29.28	30.37		
22	BKN	120	8.00		36	30	34	79	0	00	29.17	30.25	22	FEW	NC	9.00		30	24	28	79	0	00	29.29	30.38		
SUNRISE: 0745				JAN 17				SUNSET: 1748				SUNRISE: 0742				JAN 23				SUNSET: 1754							
01	FEW	NC	7.00		32	28	31	85	6	01	29.14	30.22	01	CLR	NC	6.00	BR	26	24	25	92	0	00	29.25	30.34		
04	FEW	NC	7.00		31	28	30	89	7	04	29.13	30.21	04	CLR	NC	6.00	BR	24	21	23	88	3	29	29.25	30.34		
07	OVC	080	6.00	BR	32	29	31	88	7	01	29.15	30.24	07	CLR	NC	5.00	BR	23	20	22	88	0	00	29.27	30.36		
10	OVC	065	4.00	-PLSN	35	31	33	85	6	08	29.19	30.28	10	CLR	NC	5.00	BR	30	26	29	85	5	03	29.27	30.36		
13	OVC	070	7.00	-RA	43	33	39	68	3	15	29.12	30.20	13	CLR	NC	10.00		43	25	36	49	0	00	29.20	30.28		
16	OVC	045	5.00	HZ	44	34	40	68	5	03	29.09	30.16	16	CLR	NC	10.00		47	19	36	33	0	00	29.11	30.20		
19	OVC	037	4.00	-RA	43	39	41	86	5	36	29.10	30.17	19	FEW	NC	10.00		43	22	35	43	3	25	29.11	30.19		
22	OVC	042	3.00	-RA	41	41	41	100	6	02	29.07	30.14	22	FEW	NC	9.00		38	26	33	62	3	21	29.11	30.19		
SUNRISE: 0744				JAN 18				SUNSET: 1749				SUNRISE: 0741				JAN 24				SUNSET: 1755							
01	OVC	029	3.00	BR	41	40	41	96	6	34	29.04	30.11	01	FEW	NC	8.00		36	25	32	64	3	22	29.10	30.16		
04	OVC	015	3.00	DZ BR	40	40	40	100	3	03	28.99	30.06	04	FEW	NC	8.00		32	25	29	75	3	20	29.10	30.17		
07	OVC	015	1.25	-RA BR	40	40	40	100	0	00	29.02	30.09	07	CLR	NC	7.00		29	24	27	82	3	16	29.09	30.17		
10	OVC	003	1.00	-RA BR	41	41	41	100	6	06	29.01	30.08	10	SCT	NC	10.00		33	28	31	82	0	00	29.10	30.17		
13	OVC	005	1.50	-RA BR	43	43	43	100	5	06	28.98	30.05	13	FEW	NC	8.00		46	34	41	63	12	24	29.07	30.14		
16	OVC	003	2.00	BR	45	45	45	100	10	09	28.88	29.95	16	SCT	NC	7.00		48	34	42	58	12	26	29.04	30.11		
19	OVC	008	1.50	-RA BR	45	45	45	100	6	05	28.87	29.94	19	FEW	NC	10.00		39	29	35	67	7	24	29.08	30.16		
22	OVC	007	1.75	-RA BR	45	45	45	100	3	36	28.83	29.89	22	CLR	NC	10.00		34	26	31	73	8	24	29.09	30.17		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2001

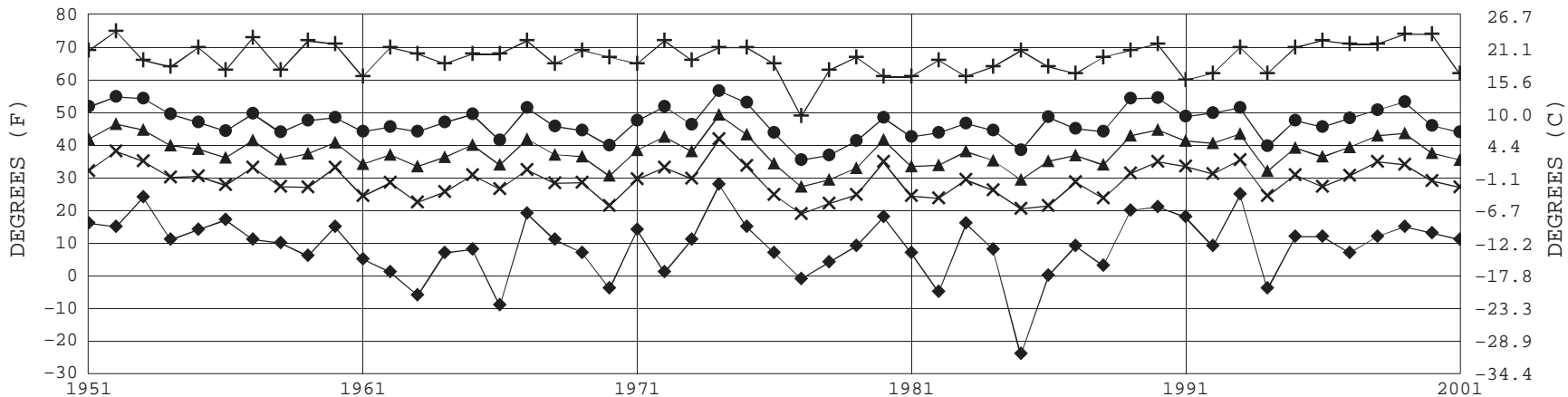
TYS

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)	
	FEW	NC		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		FEW	NC		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			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	FEW	NC			10.00			35	24	31	64	10	26	29.09	30.16	01	CLR	NC			10.00			54	39	47	57	20	22	28.64	29.68
04	FEW	NC			10.00			28	19	25	69	7	27	29.13	30.21	04	FEW	NC			10.00			52	40	46	64	20	24	28.69	29.72
07	BKN	045			10.00			27	13	23	55	5	36	29.24	30.33	07	FEW	NC			10.00			48	39	44	71	14	24	28.77	29.82
10	SCT	NC			10.00			28	17	25	63	0	00	29.32	30.42	10	FEW	NC			10.00			50	36	44	59	12	28	28.83	29.88
13	SCT	NC			10.00			33	19	28	56	8	06	29.33	30.42	13	FEW	NC			10.00			53	35	45	51	14	27	28.80	29.85
16	CLR	NC			10.00			35	17	29	48	12	03	29.31	30.40	16	FEW	NC			10.00			57	32	46	39	17	23	28.77	29.82
19	CLR	NC			10.00			31	15	26	52	3	07	29.32	30.42	19	CLR	NC			10.00			52	29	42	41	15	29	28.85	29.91
22	CLR	NC			9.00			25	16	22	69	3	06	29.31	30.40	22	FEW	NC			10.00			44	31	39	60	12	30	28.95	30.01
SUNRISE: 0740								JAN 26				SUNSET: 1757				3-HOURLY OBSERVATION NOTES															
01	CLR	NC			10.00			25	17	23	72	5	36	29.29	30.39	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. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.															
04	CLR	NC			8.00			23	16	21	74	3	03	29.26	30.35																
07	CLR	NC			10.00			20	17	19	89	0	00	29.23	30.32																
10	CLR	NC			10.00			27	19	24	72	0	00	29.21	30.31																
13	SCT	NC			10.00			41	21	34	45	10	21	29.11	30.19																
16	OVC	055			10.00		-RASN	42	19	34	40	9	27	29.04	30.11																
19	OVC	036			10.00		GS	41	24	34	51	15	26	29.03	30.11																
22	SCT	NC			10.00			41	30	36	65	15	25	29.02	30.10																
SUNRISE: 0740								JAN 27				SUNSET: 1758				SUMMARY BY HOUR															
01	OVC	065			9.00			44	34	40	68	14	24	29.01	30.07	AVERAGES															
04	OVC	030			8.00			44	36	40	73	15	23	29.02	30.08	RESULTANT WIND (MPH)															
07	BKN	035			7.00			43	36	40	76	13	25	29.07	30.13	HOUR (LST)															
10	FEW	NC			7.00			40	29	36	65	13	28	29.20	30.28	CEILOMETER															
13	CLR	NC			10.00			43	27	37	53	7	33	29.21	30.29	EFF CLD AMT															
16	CLR	NC			10.00			42	24	35	49	3	VR	29.20	30.28	DRY BULB															
19	CLR	NC			9.00			36	21	31	55	7	02	29.25	30.32	DEW POINT															
22	CLR	NC			7.00			31	22	28	69	0	00	29.30	30.39	WET BULB															
SUNRISE: 0739								JAN 28				SUNSET: 1759				RELATIVE HUMIDITY															
01	CLR	NC			5.00		HZ	26	20	24	78	5	04	29.27	30.35	PRESSURE (INCHES, HG)															
04	CLR	NC			5.00		HZ	24	19	22	81	6	03	29.27	30.35	STATION															
07	CLR	NC			5.00		BR	24	20	23	84	7	01	29.30	30.39	SEA LEVEL															
10	SCT	NC			3.00		BR HZ	29	24	27	82	10	05	29.34	30.44	VISIBILITY (MILES)															
13	BKN	120			5.00		HZ	38	25	33	60	7	01	29.29	30.37	WIND SPEED (MPH)															
16	BKN	120			7.00			44	24	36	45	5	VR	29.24	30.33	SPEED															
19	OVC	090			8.00			41	25	35	53	5	02	29.24	30.33	DIRECTION															
22	SCT	NC			7.00			35	25	31	67	5	02	29.22	30.30																
SUNRISE: 0738								JAN 29				SUNSET: 1800				HOUR (LST)															
01	CLR	NC			5.00		BR	30	26	29	85	5	03	29.18	30.27	CEILOMETER															
04	BKN	075			6.00		HZ	32	26	30	79	0	00	29.15	30.23	EFF CLD AMT															
07	CLR	NC			7.00			33	25	30	72	8	04	29.12	30.20	DRY BULB															
10	CLR	NC			10.00			41	25	35	53	5	05	29.11	30.18	DEW POINT															
13	FEW	NC			10.00			54	31	44	42	0	00	28.99	30.06	WET BULB															
16	CLR	NC			10.00			58	29	45	33	6	04	28.79	29.85	RELATIVE HUMIDITY															
19	OVC	075			8.00			61	39	50	44	9	16	28.75	29.80	PRESSURE (INCHES, HG)															
22	OVC	060			5.00		-RA	58	48	53	70	3	VR	28.69	29.74	STATION															
SUNRISE: 0737								JAN 30				SUNSET: 1801				SEA LEVEL															
01	OVC	038			4.00		-RA BR	54	52	53	93	13	20	28.70	29.74	VISIBILITY (MILES)															
04	OVC	048			7.00			53	48	50	83	23	24	28.61	29.65	WIND SPEED (MPH)															
07	BKN	100			10.00			49	43	46	80	21	23	28.70	29.73	SPEED															
10	FEW	NC			10.00			51	41	46	69	21	22	28.69	29.72	DIRECTION															
13	FEW	NC			10.00			58	37	48	46	32	23	28.61	29.65																
16	FEW	NC			10.00			61	34	48	36	26	23	28.55	29.59																
19	CLR	NC			10.00			55	35	46	47	18	23	28.59	29.63																
22	CLR	NC			10.00			54	37	46	53	18	22	28.65	29.70																



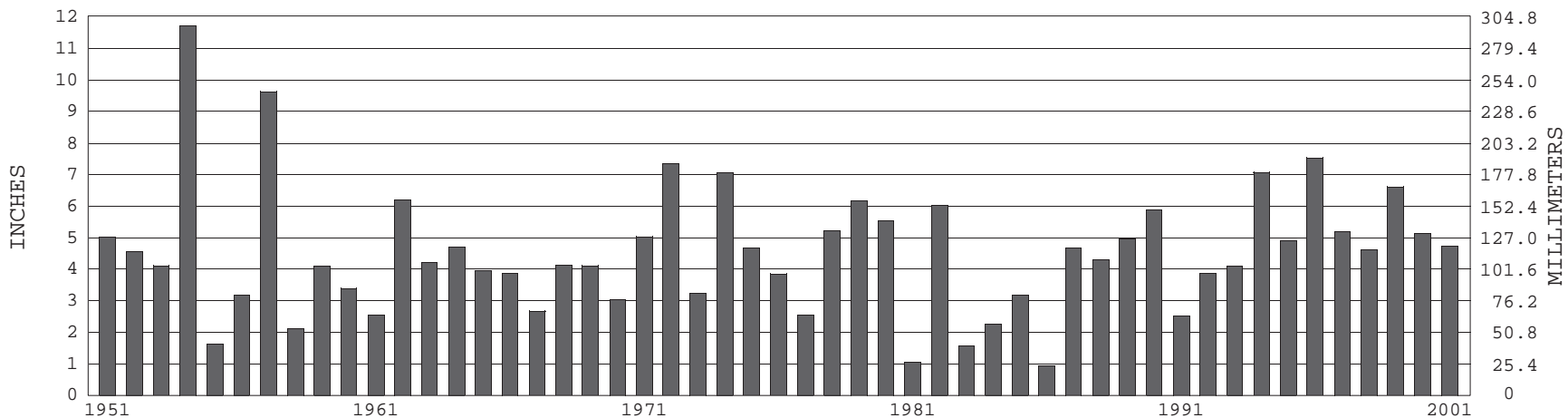
### KNOXVILLE, TN JANUARY TEMPERATURES



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

Long-Term (1951-2001) Mean: 38.0      1961-1990 Normal: 36.0

### KNOXVILLE, TN JANUARY PRECIPITATION



Long-Term (1951-2001) Mean Monthly Total: 4.53

1961-1990 Normal: 4.17



**JANUARY 2001  
KNOXVILLE, TN**

# LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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