



# OCTOBER 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

OCTOBER 2003  
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	60	43	52	-13	47	50	13	0	RA			T	29.19	30.23	3.8	02	5.3	16	02	13	02	01											
02	62	38	50	-15	39	45	15	0	FG BR			0.00	29.15	30.20	5.8	03	6.1	18	01	13	36	02											
03	66	39	53	-11	41	46	12	0				0.00	29.05	30.10	3.6	26	8.2	25	22	22	22	03											
04	72	48	60	-4	51	55	5	0	RA BR			T	28.94	29.97	7.8	24	8.4	23	25	20	24	04											
05	67	46	57	-6	52	55	8	0	BCFG BR			0.00	29.02	30.06	1.3	36	3.5	10	05	9	04	05											
06	69	56	63	0	56	58	2	0	RA BR			T	29.03	30.06	0.7	02	2.2	9	01	8	01	06											
07	77	50	64	2	55	58	1	0	FG+ BR			0.00	29.06	30.09	1.9	01	3.4	13	03	9	03	07											
08	77	54	66	4	58	61	0	1	BR HZ			0.00	29.09	30.12	3.4	03	4.0	13	06	10	06	08											
09	75	55	65	4	60	62	0	0	BR			0.00	29.03	30.05	0.8	03	2.0	8	25	7	25	09											
10	73	59	66	5	62	63	0	1	RA BR			0.15	28.97	29.99	3.9	03	4.8	12	05	9	02	10											
11	76	59	68	7	61	63	0	3	RA DZ BR			0.04	28.98	30.00	0.4	29	3.9	10	07	9	22	11											
12	77	60	69	9	61	63	0	4				0.00	28.98	30.01	2.4	23	3.5	9	22	8	23	12											
13	78*	59	69*	9	62	64	0	4	BR HZ			0.00	28.92	29.94	0.9	28	1.6	10	28	7	30	13											
14	73	50	62	3	57	60	3	0	TSRA RA BR HZ			0.31	28.74	29.75	9.8	25	12.0	41*	29	35*	28	14											
15	66	44	55	-4	42	48	10	0				0.00	29.01	30.05	3.4	25	4.5	17	32	14	31	15											
16	69	41	55	-4	43	49	10	0	FG+ BR			0.00	29.11	30.15	2.1	24	3.0	17	24	15	24	16											
17	57	42	50	-8	47	49	15	0				0.00	29.06	30.11	1.1	06	2.2	7	33	7	13	17											
18	67	47	57	-1	47	51	8	0	BR			0.00	29.05	30.09	2.2	03	3.2	14	04	13	03	18											
19	73	42	58	1	46	51	7	0				0.00	29.06	30.10	0.2	02	.7	9	27	7	20	19											
20	76	44	60	3	49	54	5	0	BR			0.00	29.09	30.13	2.1	23	3.0	13	22	12	22	20											
21	77	55	66	9	51	58	0	1				0.00	28.87	29.89	11.2	25	12.0	24	22	22	23	21											
22	71	50	61	5	43	51	4	0	RA			T	28.80	29.82	3.0	33	5.8	17	01	15	36	22											
23	66	43	55	-1	43	48	10	0				0.00	28.81	29.85	1.3	01	4.5	13	06	10	03	23											
24	69	40	55	-1	46	50	10	0				0.00	29.04	30.08	3.0	04	3.5	10	04	9	05	24											
25	75	45	60	5	51	55	5	0	BR			0.00	29.17	30.22	1.0	01	1.8	8	34	7	28	25											
26	63	54	59	4	57	58	6	0	RA BR HZ			0.32	29.03	30.06	1.0	02	2.3	10	30	9	30	26											
27	59	39	49	-6	48	49	16	0	RA BR			0.42	28.85	29.88	1.8	36	4.5	13	33	10	01	27											
28	50	37*	44*	-10	43	44	21	0	RA FG+ BR			T	28.78	29.82	2.6	05	3.5	13	02	10	03	28											
29	64	45	55	1	44	49	10	0	BR			0.00	28.87	29.91	3.4	24	4.2	16	24	15	28	29											
30	77	40	59	5	46	52	6	0				0.00	29.10	30.14	0.6	33	2.7	14	27	13	27	30											
31	74	47	61	7	52	56	4	0	BR			0.00	29.23	30.27	1.0	28	1.9	15	27	13	25	31											
										69.5		47.5	58.5	■ ■	50.3	54.0	6.6	0.5	< MONTHLY AVERAGES		TOTALS-->		1.24	29.00	30.04	1.1	30	4.3	<- MONTHLY AVERAGES				
										-.4		-.2	-.3	■ ■	<-----DEPARTURE FROM NORMAL----->										-1.41	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.74				DATE : 26-27		SEA LEVEL PRESSURE		DATE		TIME														
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL:				DATE :		MAXIMUM		30.33		31 0953														
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH:				DATE :		MINIMUM		29.55		14 1353														
HEATING: 206									NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 5																
COOLING: 14									->				MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 4																
													THUNDERSTORMS: 1		HEAVY FOG: 3		SNOWFALL ≥ 1.0 INCH: :																

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

OCTOBER 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													01												01		T		
02		T	T		T	T							02												02		0.00		
03													03												03		0.00		
04						T							04												04		T		
05													05												05		0.00		
06	T	T	T	T									06												06		T		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10						0.01	0.02	0.02	0.06	0.04		10		0.15		
11	0.01	T		T	0.01	0.01	0.01			T	T		11												11		0.04		
12													12												12		0.00		
13													13												13		0.00		
14													14	T	0.05	0.25	0.01								14		0.31		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22	T	T											22												22		T		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26	T			0.31	0.01							26		0.32		
27				0.02	0.04	0.02	0.04	0.11	0.10	0.08	0.01	T	27												27		0.42		
28													28												28		T		
29													29								T	T	T		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)	.15	.24	.27	.30	.31	.31	.31	.31	.32	.32	.32	.32
Ending Date	14	14	26	26	26	26	26	26	26	26	26	27
Ending Time (Hour/Min)	1449	1450	1537	1540	1540	1540	1540	1642	1642	1642	1642	0817

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 OCTOBER 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							7.00	10.00	
02							.50	10.00	
03							10.00	10.00	
04							6.00	10.00	
05							2.50	10.00	
06							2.00	10.00	
07							.06	10.00	
08							3.00	10.00	
09							.75	10.00	
10							.75	10.00	
11							.75	10.00	
12							7.00	10.00	
13							2.50	10.00	
14							1.00	10.00	
15							10.00	10.00	
16							.06	10.00	
17							8.00	10.00	
18							3.00	10.00	
19							7.00	10.00	
20							6.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							7.00	10.00	
25							5.00	10.00	
26							.75	6.00	
27							.75	10.00	
28							.06	10.00	
29							6.00	10.00	
30							7.00	10.00	
31							5.00	10.00	
<b>MONTHLY AVGS</b>							4.60	9.87	
<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            15           11									



# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

OCTOBER 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
01	BKN	035	6.00	BR	63	62	62	97	0	00	28.97	29.99	01	CLR	NC	8.00	49	45	47	86	0	00	29.04	30.08					
04	FEW	NC	4.00	BR	60	59	59	96	0	00	28.96	29.98	04	CLR	NC	7.00	43	41	42	93	0	00	29.05	30.09					
07	SCT	NC	3.00	BR	60	59	59	96	0	00	28.98	30.00	07	CLR	NC	7.00	42	41	42	96	0	00	29.08	30.13					
10	BKN	250	3.00	HZ	69	64	66	84	6	VR	28.98	30.01	10	CLR	NC	10.00	57	46	51	67	0	00	29.11	30.15					
13	BKN	250	8.00		77	62	67	60	0	00	28.92	29.94	13	CLR	NC	10.00	69	47	57	45	0	00	29.05	30.09					
16	OVC	150	10.00		76	62	67	62	6	30	28.87	29.88	16	CLR	NC	10.00	73	47	58	40	0	00	29.01	30.05					
19	OVC	150	10.00		71	63	66	76	3	23	28.87	29.90	19	CLR	NC	10.00	65	48	56	54	0	00	29.04	30.08					
22	OVC	150	10.00		69	62	65	78	0	00	28.87	29.88	22	CLR	NC	10.00	57	49	53	75	0	00	29.07	30.11					
SUNRISE: 0641 OCT 14 SUNSET: 1802																													
01	OVC	150	8.00		66	63	64	90	0	00	28.81	29.82	01	CLR	NC	10.00	50	48	49	93	0	00	29.09	30.12					
04	OVC	060	10.00		66	61	63	84	7	24	28.78	29.79	04	CLR	NC	9.00	48	47	47	96	0	00	29.10	30.13					
07	OVC	070	10.00		66	61	63	84	10	21	28.75	29.76	07	CLR	NC	6.00	47	45	46	93	3	04	29.14	30.18					
10	OVC	060	6.00	HZ	71	64	67	79	13	22	28.68	29.69	10	CLR	NC	10.00	59	51	55	75	0	00	29.18	30.22					
13	OVC	040	5.00	-RA	70	63	66	79	21	23	28.59	29.61	13	FEW	NC	10.00	72	53	61	52	3	VR	29.12	30.16					
16	OVC	031	10.00		64	58	60	81	25	30	28.62	29.63	16	FEW	NC	10.00	75	50	61	42	6	23	29.05	30.09					
19	BKN	060	10.00		58	46	52	65	17	30	28.79	29.80	19	FEW	NC	10.00	68	48	57	49	3	23	29.04	30.08					
22	BKN	060	10.00		54	45	49	72	7	25	28.87	29.89	22	CLR	NC	10.00	60	49	54	67	7	22	29.03	30.06					
SUNRISE: 0642 OCT 15 SUNSET: 1801																													
01	BKN	050	10.00		50	44	47	80	7	23	28.89	29.93	01	CLR	NC	10.00	58	49	53	72	12	24	28.99	30.02					
04	CLR	NC	10.00		47	43	45	86	8	24	28.91	29.95	04	CLR	NC	10.00	58	50	54	75	12	24	28.97	30.00					
07	FEW	NC	10.00		46	43	45	89	0	00	28.97	30.01	07	SCT	NC	10.00	60	52	56	75	10	23	28.91	29.94					
10	CLR	NC	10.00		56	46	51	70	5	28	29.04	30.08	10	BKN	250	10.00	69	56	61	63	18	22	28.90	29.93					
13	FEW	NC	10.00		63	40	51	43	7	VR	29.03	30.07	13	BKN	250	10.00	74	58	64	57	15	22	28.82	29.84					
16	CLR	NC	10.00		65	38	51	37	5	31	29.01	30.04	16	BKN	250	10.00	77	58	65	52	9	28	28.78	29.79					
19	CLR	NC	10.00		59	40	50	49	5	28	29.04	30.08	19	SCT	NC	10.00	70	47	57	44	7	27	28.81	29.83					
22	CLR	NC	10.00		50	43	47	77	0	00	29.08	30.13	22	BKN	150	10.00	65	43	53	45	10	27	28.82	29.84					
SUNRISE: 0643 OCT 16 SUNSET: 1760																													
01	CLR	NC	10.00		46	41	44	83	0	00	29.11	30.15	01	OVC	100	10.00	-RA	62	44	53	52	6	26	28.81	29.82				
04	CLR	NC	10.00		45	41	43	86	0	00	29.10	30.14	04	BKN	110	10.00		55	45	50	69	6	25	28.79	29.80				
07	VV	001	0.06	FG	41	41	41	100	0	00	29.15	30.19	07	SCT	NC	10.00		53	44	49	72	6	23	28.81	29.83				
10	SCT	NC	10.00		53	48	50	83	0	00	29.18	30.23	10	SCT	NC	10.00		62	46	54	56	7	03	28.83	29.85				
13	CLR	NC	10.00		66	44	54	45	7	24	29.12	30.16	13	SCT	NC	10.00		67	45	55	45	5	VR	28.78	29.80				
16	CLR	NC	10.00		69	43	55	39	13	24	29.08	30.11	16	SCT	NC	10.00		69	43	55	39	9	33	28.73	29.75				
19	CLR	NC	10.00		62	42	52	48	5	24	29.07	30.11	19	CLR	NC	10.00		60	38	49	44	7	35	28.79	29.82				
22	CLR	NC	10.00		54	44	49	69	0	00	29.07	30.11	22	CLR	NC	10.00		54	40	47	59	7	01	28.83	29.86				
SUNRISE: 0644 OCT 17 SUNSET: 1758																													
01	CLR	NC	10.00		49	44	47	83	0	00	29.06	30.09	01	CLR	NC	10.00		49	39	44	69	3	03	28.80	29.83				
04	CLR	NC	10.00		44	42	43	93	0	00	29.07	30.11	04	FEW	NC	10.00		43	40	42	89	0	00	28.80	29.83				
07	SCT	NC	9.00		44	42	43	93	3	04	29.04	30.09	07	BKN	110	10.00		45	40	43	83	0	00	28.82	29.85				
10	OVC	110	10.00		52	48	50	86	5	33	29.08	30.12	10	OVC	065	10.00		51	44	48	77	7	27	28.84	29.87				
13	OVC	070	10.00		55	50	52	83	3	25	29.07	30.12	13	OVC	065	10.00		59	44	51	58	7	23	28.78	29.81				
16	OVC	065	10.00		56	49	52	77	5	14	29.06	30.11	16	FEW	NC	10.00		65	45	54	49	0	00	28.75	29.78				
19	OVC	065	10.00		55	50	52	83	0	00	29.06	30.11	19	FEW	NC	10.00		55	45	50	69	9	05	28.81	29.84				
22	CLR	NC	9.00		52	49	50	89	0	00	29.08	30.13	22	FEW	NC	10.00		52	43	48	72	7	04	28.89	29.93				
SUNRISE: 0645 OCT 18 SUNSET: 1757																													
01	SCT	NC	8.00		50	49	49	96	6	36	29.07	30.12	01	CLR	NC	10.00		48	43	46	83	7	03	28.92	29.96				
04	OVC	041	7.00		52	50	51	93	0	00	29.05	30.09	04	BKN	250	10.00		46	42	44	86	5	01	28.96	30.00				
07	BKN	250	3.00	BR	48	47	47	96	0	00	29.08	30.12	07	FEW	NC	9.00		42	41	42	96	6	03	29.02	30.06				
10	SCT	NC	10.00		57	50	53	78	7	VR	29.10	30.14	10	CLR	NC	10.00		54	45	49	72	5	09	29.09	30.13				
13	SCT	NC	10.00		64	47	55	54	5	02	29.06	30.10	13	CLR	NC	10.00		65	46	55	51	3	VR	29.07	30.10				
16	CLR	NC	10.00		66	43	54	43	5	VR	29.02	30.05	16	CLR	NC	10.00		69	48	57	47	0	00	29.04	30.08				
19	CLR	NC	10.00		59	44	51	58	3	06	29.03	30.07	19	FEW	NC	10.00		61	49	54	65	3	06	29.07	30.11				
22	CLR	NC	9.00		52	44	48	75	0	00	29.03	30.08	22	SCT	NC	8.00		55	48	51	77	0	00	29.11	30.15				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

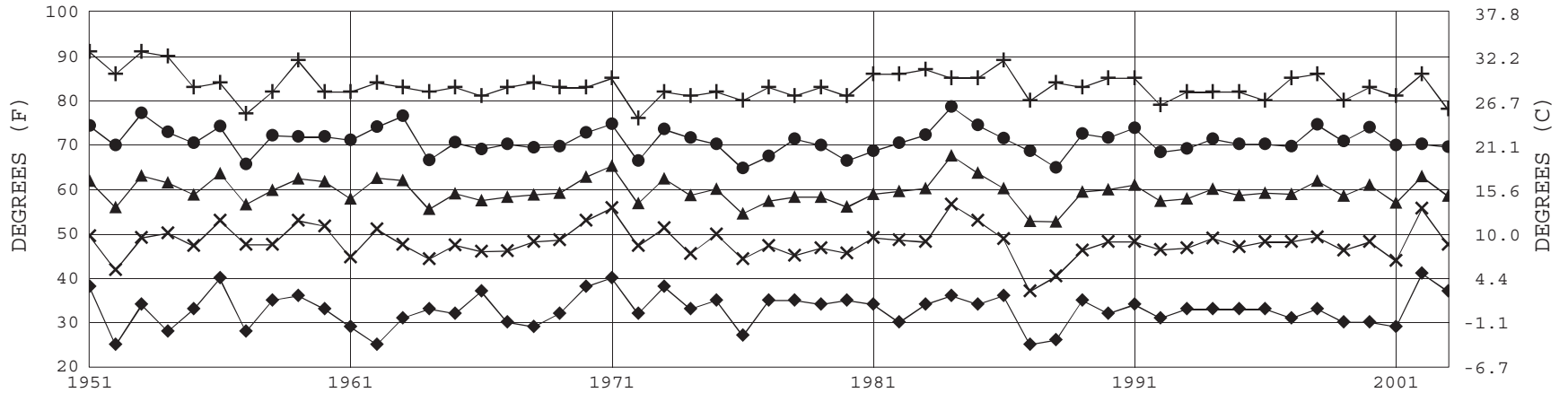
OCTOBER 2003

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)	
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as			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 Ok/as			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0651								OCT 25								SUNSET: 1748															
01	SCT	NC			7.00		BR	50	47	48	89	5	05	29.14	30.18	01	FEW	NC			10.00			60	49	54	67	10	25	29.17	30.20
04	CLR	NC			6.00		BR	46	45	46	96	3	08	29.17	30.20	04	CLR	NC			10.00			50	47	48	89	3	07	29.20	30.23
07	SCT	NC			7.00			47	45	46	93	0	00	29.20	30.24	07	SCT	NC			10.00			50	46	48	86	0	00	29.23	30.28
10	BKN	250			10.00			57	48	52	72	5	06	29.24	30.29	10	FEW	NC			10.00			63	51	56	65	0	00	29.29	30.33
13	SCT	NC			10.00			68	50	58	53	0	00	29.20	30.24	13	BKN	250			10.00			71	54	61	55	0	00	29.24	30.28
16	BKN	250			10.00			73	55	62	53	5	34	29.14	30.18	16	BKN	250			10.00			73	55	62	53	6	29	29.21	30.24
19	BKN	200			10.00			67	55	60	66	0	00	29.14	30.17	19	SCT	NC			10.00			66	54	59	65	0	00	29.21	30.25
22	SCT	NC			8.00			62	56	59	81	0	00	29.16	30.20	22	FEW	NC			8.00			58	53	55	84	0	00	29.23	30.28
SUNRISE: 0652								OCT 26								SUNSET: 1747															
01	SCT	NC			6.00		BR	57	54	55	90	3	16	29.16	30.19	3-HOURLY OBSERVATION NOTES															
04	BKN	200			5.00		BR	56	54	55	93	3	01	29.11	30.14	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8,															
07	BKN	200			5.00		BR	55	53	54	93	7	32	29.09	30.12	SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.															
10	BKN	055			4.00		BR	58	56	57	93	3	03	29.08	30.12	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
13	BKN	060			4.00		BR	63	59	61	87	5	12	29.01	30.04	NC= No ceiling detected.															
16	OVC	010			1.00		BR	61	60	60	97	3	09	28.97	30.01	& = Original observation contained additional weather elements.															
19	SCT	NC			0.75		BR	59	59	59	100	3	01	28.95	29.99	See page 3 for additional notes.															
22	OVC	006			1.00		BR	60	60	60	100	0	00	28.92	29.96																
SUNRISE: 0653								OCT 27								SUNSET: 1746															
01	OVC	004			1.50		BR	59	59	59	100	6	27	28.87	29.89																
04	OVC	005			2.50		RA BR	53	53	53	100	6	34	28.85	29.88																
07	OVC	005			2.50		RA BR	49	49	49	100	5	03	28.86	29.88																
10	OVC	024			10.00			48	46	47	93	3	03	28.89	29.93																
13	OVC	017			10.00			50	46	48	86	3	36	28.87	29.91																
16	BKN	050			10.00			52	47	49	83	7	15	28.83	29.86																
19	SCT	NC			10.00			49	45	47	86	3	16	28.82	29.86																
22	CLR	NC			7.00			45	44	45	97	0	00	28.84	29.88																
SUNRISE: 0654								OCT 28								SUNSET: 1745															
01	OVC	001			0.25		FG	40	40	40	100	0	00	28.83	29.87																
04	OVC	001			0.06		FG	37	37	37	100	5	15	28.83	29.87																
07	VV	001			0.06		FG	40	40	40	100	8	02	28.82	29.86																
10	OVC	003			3.00		BR	43	42	43	97	0	00	28.84	29.88																
13	OVC	007			8.00			46	44	45	93	5	01	28.77	29.82																
16	OVC	250			10.00			50	45	47	83	6	08	28.74	29.78																
19	OVC	100			8.00			48	46	47	93	0	00	28.75	29.79																
22	OVC	080			9.00		-RA	48	47	47	96	3	11	28.73	29.76																
SUNRISE: 0655								OCT 29								SUNSET: 1744															
01	OVC	075			8.00			49	47	48	93	0	00	28.73	29.76																
04	OVC	050			10.00			49	47	48	93	5	27	28.73	29.76																
07	FEW	NC			9.00			46	44	45	93	6	26	28.80	29.84																
10	FEW	NC			10.00			54	49	51	83	6	25	28.87	29.91																
13	SCT	NC			10.00			61	42	51	50	7	VR	28.89	29.93																
16	SCT	NC			10.00			63	42	52	47	12	22	28.91	29.95																
19	CLR	NC			10.00			57	41	49	55	0	00	28.95	29.99																
22	FEW	NC			10.00			51	41	46	69	0	00	28.95	30.00																
SUNRISE: 0656								OCT 30								SUNSET: 1743															
01	CLR	NC			10.00			45	42	44	90	0	00	29.01	30.05																
04	CLR	NC			10.00			44	40	42	85	0	00	29.05	30.09																
07	CLR	NC			10.00			42	39	41	89	0	00	29.11	30.16																
10	CLR	NC			10.00			55	45	50	69	3	01	29.16	30.21																
13	FEW	NC			10.00			71	50	59	47	0	00	29.12	30.16																
16	FEW	NC			10.00			76	54	63	47	5	06	29.07	30.11																
19	SCT	NC			10.00			70	50	59	49	0	00	29.09	30.12																
22	SCT	NC			9.00			63	47	54	56	7	24	29.12	30.16																

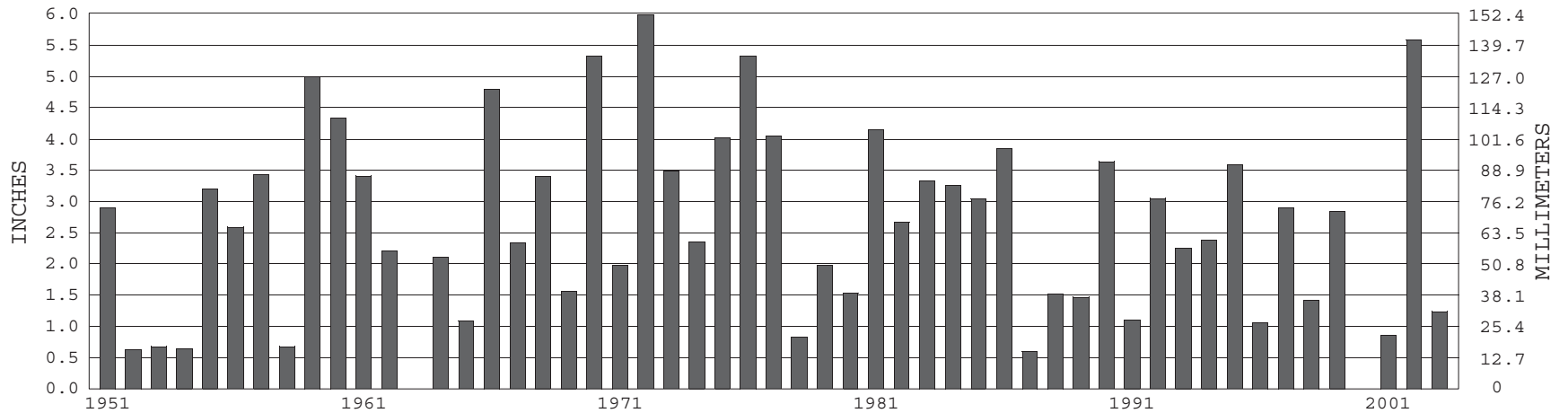
### KNOXVILLE, TN OCTOBER TEMPERATURES



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

Long-Term (1951-2003) Mean: 59.5      1961-1990 Normal: 58.8

### KNOXVILLE, TN OCTOBER PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 2.60

1961-1990 Normal: 2.65



OCTOBER 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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