



# NOVEMBER 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

NOVEMBER 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																																																																								
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	51	40	46	-7	40	44	19	0	BR				0.00	29.19	30.24	2.7	27	4.8	15	27	12	28	01																																																																						
02	52	30	41	-12	30	37	24	0					0.00	29.18	30.24	0.6	31	2.5	12	06	9	07	02																																																																						
03	50	41	46	-7	38	42	19	0	RA BR				0.11	29.10	30.15	1.1	01	3.1	10	05	9	05	03																																																																						
04	54	45	50	-2	48	49	15	0	RA DZ BR				0.20	29.02	30.06	2.4	04	5.2	14	04	12	03	04																																																																						
05	58	47	53	1	51	51	12	0	RA DZ BR				0.67	28.77	29.81	3.7	01	5.2	20	28	15	27	05																																																																						
06	58	43	51	-1	41	45	14	0	RA BR				T	28.90	29.95	10.4	28	10.7	28	26	22	29	06																																																																						
07	55	37	46	-5	36	42	19	0					0.00	29.17	30.23	0.5	36	2.3	13	06	10	08	07																																																																						
08	65	31	48	-3	40	43	17	0	BR				0.00	29.11	30.16	3.0	25	5.1	22	24	18	23	08																																																																						
09	69	40	55	4	47	52	10	0					0.00	28.96	29.99	8.3	22	9.2	36	21	29	19	09																																																																						
10	77*	63	70*	19	62	66	0	5	TSRA RA BR				0.38	28.66	29.67	17.5	21	17.7	51*	29	39*	28	10																																																																						
11	70	55	63	13	55	57	2	0	TSRA RA BR				0.97	28.85	29.87	4.7	27	6.2	30	29	25	29	11																																																																						
12	60	46	53	3	49	51	12	0	RA BR				0.38	29.01	30.05	6.4	01	7.1	21	01	17	01	12																																																																						
13	54	38	46	-4	35	41	19	0					0.00	29.18	30.23	3.1	35	4.8	17	32	13	33	13																																																																						
14	58	32	45	-4	35	40	20	0	FG+ BR				0.00	29.09	30.15	0.9	26	2.5	15	26	13	28	14																																																																						
15	56	36	46	-3	42	44	19	0	RA BR				0.23	28.92	29.96	2.6	02	4.0	15	28	13	28	15																																																																						
16	50	39	45	-4	45	46	20	0	RA BR				0.34	28.84	29.88	6.4	36	6.8	16	01	13	36	16																																																																						
17	39	32	36	-13	33	35	29	0	RA SN BR				0.10	28.93	29.99	4.7	30	5.9	17	28	15	27	17																																																																						
18	53	27	40	-8	31	36	25	0					0.00	29.22	30.29	0.9	27	1.7	12	24	9	23	18																																																																						
19	56	36	46	-2	44	45	19	0	RA FG+ BR				0.22	29.18	30.24	0.3	28	2.8	13	22	12	24	19																																																																						
20	51	41	46	-2	44	45	19	0	RA FG+ BR				0.09	29.11	30.16	2.8	06	3.9	13	06	10	05	20																																																																						
21	59	46	53	5	46	48	12	0	RA DZ BR				0.66	28.82	29.86	6.7	23	8.8	30	28	23	28	21																																																																						
22	46	38	42	-6	30	36	23	0	RA DZ SN				0.02	28.92	29.97	8.2	29	9.2	28	28	23	29	22																																																																						
23	49	30	40	-7	27	35	25	0					0.00	29.12	30.18	3.6	27	5.3	13	25	12	24	23																																																																						
24	60	31	46	0	34	40	19	0					0.00	29.14	30.19	0.3	26	1.0	9	23	7	25	24																																																																						
25	61	34	48	2	37	42	17	0					0.00	29.11	30.16	1.1	34	1.9	15	32	14	32	25																																																																						
26	56	41	49	3	42	45	16	0	RA BR				0.20	29.10	30.16	4.3	30	5.5	17	28	14	28	26																																																																						
27	41	30	36	-10	26	32	29	0	SN				T	29.21	30.27	7.8	01	8.1	20	01	16	36	27																																																																						
28	37	26	32*	-13	22	28	33	0					0.00	29.22	30.29	1.4	31	4.6	12	26	10	28	28																																																																						
29	52	24*	38	-7	27	35	27	0					0.00	28.97	30.03	15.5	23	15.8	36	23	30	23	29																																																																						
30	57	30	44	-1	28	38	21	0					0.00	28.80	29.84	14.7	25	16.7	35	24	29	26	30																																																																						
< MONTHLY AVERAGES										TOTALS-->				<- MONTHLY AVERAGES																																																																															
-3.9										-1.3				-2.6										<-----DEPARTURE FROM NORMAL----->																																																																					
55.1										37.6				46.4										38.8										43.0				18.5										0.2				4.57										29.03				30.08										2.7				27				6.3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.34										DATE: 10-11										SEA LEVEL PRESSURE										DATE										TIME																																											
MONTHLY										GREATEST 24-HR SNOWFALL:										DATE:										MAXIMUM										:										30.37										18										1053																							
TOTAL DEPARTURE										SEASON TO DATE										DATE:										MINIMUM										:										29.53										10										2053																							
HEATING: 555										85										683										-19										NUMBER OF										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 11										PRECIPITATION ≥ 0.01 INCH: 14																							
COOLING: 5										2										1823										373										DAYS WITH										MAXIMUM TEMP ≤ 32: 0										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 12																							
																																								THUNDERSTORMS: 2										HEAVY FOG: 3										SNOWFALL ≥ 1.0 INCH: :																																	

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# KNOXVILLE, TN

NOVEMBER 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				0.01	0.03	0.02	T	T	T	0.01	0.01	0.03	03		0.11			
04	0.06	0.04	0.06	0.03	T								04												04		0.20				
05					T		0.01	0.05	0.03		0.01	0.06	0.02	05	0.02	0.12	0.07	0.10	0.03		0.05	.02	0.05	0.01	0.01	0.02	05		0.67		
06														06												06		T			
07	T	T											T	07												07		0.00			
08														08												08		0.00			
09														09												09		0.00			
10					0.01	T	0.01						T	10	0.12		T					0.04	0.13		T	0.07	10		0.38		
11	0.41	0.19	0.21	0.13	0.03	T								11												11		0.97			
12	0.02	0.02	0.08	0.11	0.09	0.04	0.02	T	T					12											T	12		0.38			
13														13												13		0.00			
14														14												14		0.00			
15														15			0.01	0.02	0.04	0.06	0.07	0.03			15		0.23				
16	T		0.03	0.06	T	0.01	T			0.01	0.01	T	0.04	16	0.06	0.02	0.01	0.04	0.02	T	T	0.02	0.01	T	T	T	16		0.34		
17		T	T	T	T	0.01	T	0.01		0.03	0.01	0.01	0.01	17	0.01	T	0.01	T	T							17		0.10			
18														18													18		0.00		
19					0.02	0.02	0.10	0.07	0.01					19													19		0.22		
20														20			T	T	T	T				T	0.01	0.01	0.01	0.06	20		0.09
21	0.12	0.12	0.10	0.03	0.05	0.03	0.04	0.02	0.08	0.06	0.01	T		21	T											T	T	21		0.66	
22	T					T	T		T	0.01	0.01			22											T	T	22		0.02		
23														23													23		0.00		
24														24													24		0.00		
25														25													25		0.00		
26														26			T	0.03	0.02	0.08	0.04	0.02	0.01			26		0.20			
27														27													27		T		
28														28													28		0.00		
29														29													29		0.00		
30														30													30		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)	.12	.21	.26	.31	.37	.40	.46	.51	.58	.66	.74	.84
Ending Date	11	11	11	11	11	11	11	11	11	11	11	11
Ending Time (Hour/Min)	0031	0031	0034	0039	0042	0058	0113	0132	0147	0210	0243	0305

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 NOVEMBER 2002

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

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

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

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

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

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

### ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							5.00	10.00	
02							7.00	10.00	
03							2.50	10.00	
04							1.50	10.00	
05							1.75	9.00	
06							10.00	10.00	
07							9.00	10.00	
08							.50	10.00	
09							9.00	10.00	
10							1.50	10.00	
11							1.25	10.00	
12							3.00	10.00	
13							10.00	10.00	
14							.06	10.00	
15							2.00	10.00	
16							.75	10.00	
17							3.00	10.00	
18							8.00	10.00	
19							<.25	10.00	
20							.25	10.00	
21							.75	10.00	
22							9.00	10.00	
23							10.00	10.00	
24							9.00	10.00	
25							7.00	10.00	
26							2.50	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
<b>MONTHLY AVGS</b>							5.48	9.97	
<b>SUNSHINE (MINUTES)</b>									
Total:      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 3            13           14									



# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

NOVEMBER 2002

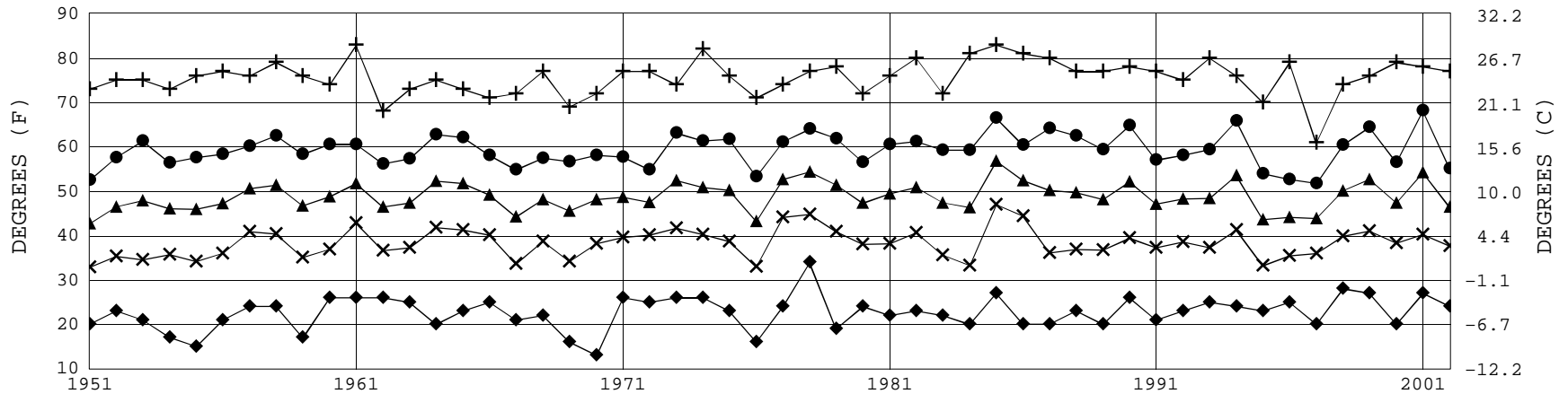
TYS

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: 0710					NOV 13				SUNSET: 1730				SUNRISE: 0716					NOV 19				SUNSET: 1727							
01	OVC	039	10.00		46	37	42	71	6	35	29.14	30.19	01	OVC	250	7.00		37	36	37	96	5	06	29.19	30.24				
04	OVC	028	10.00		43	34	39	71	9	33	29.16	30.20	04	OVC	045	10.00		41	38	40	89	5	04	29.12	30.17				
07	OVC	035	10.00		43	33	39	68	3	36	29.20	30.25	07	OVC	034	2.50	RA BR	41	40	41	96	0	00	29.17	30.22				
10	SCT	NC	10.00		45	33	40	63	8	02	29.22	30.28	10	OVC	017	2.50	BR	44	44	44	100	5	05	29.21	30.28				
13	FEW	NC	10.00		50	35	43	57	5	03	29.21	30.26	13	OVC	009	7.00		53	50	51	89	10	23	29.20	30.25				
16	CLR	NC	10.00		53	33	44	47	5	26	29.18	30.23	16	SCT	NC	10.00		55	48	51	77	0	00	29.17	30.22				
19	CLR	NC	10.00		49	34	42	57	3	21	29.17	30.22	19	CLR	NC	6.00	BR	49	47	48	93	0	00	29.18	30.24				
22	CLR	NC	10.00		42	36	39	79	0	00	29.17	30.22	22	SCT	NC	1.75	BR	45	44	45	97	0	00	29.19	30.24				
SUNRISE: 0711					NOV 14				SUNSET: 1730				SUNRISE: 0717					NOV 20				SUNSET: 1726							
01	CLR	NC	9.00		36	35	36	97	3	04	29.16	30.22	01	VV	001	0.25	FG	43	43	43	100	5	04	29.20	30.25				
04	CLR	NC	10.00		35	33	34	93	0	00	29.15	30.20	04	OVC	001	0.25	FG	42	42	42	100	6	09	29.19	30.24				
07	VV	001	0.06	FG	33	33	33	100	0	00	29.17	30.23	07	OVC	001	1.50	BR	42	41	42	96	0	00	29.19	30.24				
10	BKN	250	10.00		42	37	40	82	0	00	29.18	30.24	10	OVC	003	3.00	BR	43	42	43	97	8	02	29.18	30.23				
13	BKN	250	10.00		52	38	45	59	5	28	29.11	30.16	13	OVC	005	6.00	BR	46	42	44	86	0	00	29.11	30.17				
16	BKN	250	10.00		58	36	47	44	7	27	29.04	30.09	16	OVC	070	10.00		50	44	47	80	3	01	29.04	30.09				
19	SCT	NC	9.00		53	33	44	47	3	23	29.02	30.07	19	OVC	048	8.00		49	46	47	90	3	36	29.03	30.08				
22	FEW	NC	10.00		45	36	41	71	0	00	29.01	30.06	22	OVC	034	5.00	BR	49	47	48	93	0	00	29.02	30.06				
SUNRISE: 0712					NOV 15				SUNSET: 1729				SUNRISE: 0718					NOV 21				SUNSET: 1726							
01	SCT	NC	10.00		40	36	38	86	0	00	28.98	30.03	01	BKN	008	2.00	RA BR	47	47	47	100	3	06	28.98	30.03				
04	SCT	NC	10.00		37	36	37	96	0	00	28.97	30.02	04	OVC	011	1.75	-RA BR	47	47	47	100	3	06	28.93	29.97				
07	BKN	250	10.00		38	37	38	97	6	36	28.94	29.99	07	OVC	002	1.50	-RA BR	48	47	47	96	3	11	28.90	29.95				
10	OVC	047	10.00		44	39	42	83	3	06	28.95	30.00	10	OVC	005	1.00	-RA BR	48	48	48	100	3	14	28.88	29.93				
13	OVC	110	10.00		55	40	48	57	0	00	28.88	29.93	13	OVC	016	10.00		54	51	52	90	10	23	28.81	29.84				
16	OVC	045	3.00	-RA BR	50	47	48	89	7	27	28.89	29.94	16	FEW	NC	10.00		58	45	51	62	18	22	28.72	29.75				
19	OVC	044	4.00	RA BR	50	49	49	96	0	00	28.88	29.93	19	SCT	NC	10.00		51	42	47	71	9	22	28.69	29.73				
22	OVC	002	2.50	BR	49	49	49	100	7	03	28.87	29.92	22	BKN	060	10.00		52	41	47	66	12	22	28.68	29.71				
SUNRISE: 0713					NOV 16				SUNSET: 1728				SUNRISE: 0719					NOV 22				SUNSET: 1725							
01	OVC	029	2.50	BR	49	49	49	100	6	36	28.86	29.89	01	OVC	027	10.00		44	37	41	76	14	29	28.77	29.81				
04	OVC	017	2.50	RA BR	49	49	49	100	3	06	28.84	29.87	04	OVC	038	10.00		42	33	38	71	9	27	28.81	29.84				
07	OVC	005	2.00	BR	50	50	50	100	6	02	28.85	29.88	07	OVC	036	10.00		40	32	37	73	9	29	28.84	29.88				
10	OVC	004	1.75	BR	50	49	49	96	7	34	28.87	29.91	10	OVC	045	10.00	DZ	39	31	36	73	6	33	28.90	29.95				
13	OVC	004	1.50	RA BR	47	46	46	97	8	35	28.83	29.87	13	BKN	055	10.00		40	29	35	65	9	29	28.92	29.97				
16	OVC	006	1.50	-RA BR	44	43	44	96	9	34	28.81	29.85	16	OVC	065	10.00		40	27	35	60	9	30	28.95	30.00				
19	OVC	021	3.00	-RA BR	42	40	41	92	12	35	28.84	29.88	19	OVC	065	10.00		39	27	34	62	9	27	29.02	30.08				
22	OVC	013	10.00		40	39	40	97	7	02	28.86	29.91	22	OVC	055	10.00		38	30	35	73	6	08	29.08	30.14				
SUNRISE: 0714					NOV 17				SUNSET: 1728				SUNRISE: 0720					NOV 23				SUNSET: 1725							
01	OVC	011	10.00		39	37	38	93	6	36	28.84	29.88	01	OVC	042	10.00		38	26	33	62	3	01	29.07	30.13				
04	OVC	023	6.00	-RASN BR	37	36	37	96	6	35	28.83	29.88	04	SCT	NC	10.00		34	24	30	67	5	34	29.08	30.14				
07	OVC	015	10.00		38	36	37	93	0	00	28.86	29.91	07	FEW	NC	10.00		32	24	29	73	0	00	29.13	30.19				
10	OVC	006	5.00	-RA BR	37	35	36	93	0	00	28.88	29.94	10	CLR	NC	10.00		37	28	34	70	0	00	29.17	30.23				
13	OVC	008	5.00	-RA BR	37	35	36	93	5	33	28.88	29.94	13	CLR	NC	10.00		45	28	38	52	8	27	29.14	30.20				
16	OVC	008	5.00	BR	37	34	36	89	8	28	28.94	30.00	16	CLR	NC	10.00		49	26	39	41	9	26	29.11	30.16				
19	OVC	050	10.00		37	31	35	79	9	26	29.03	30.09	19	CLR	NC	10.00		42	28	36	58	5	26	29.11	30.17				
22	OVC	047	10.00		36	24	32	62	9	27	29.10	30.16	22	CLR	NC	10.00		41	28	36	60	7	26	29.12	30.18				
SUNRISE: 0715					NOV 18				SUNSET: 1727				SUNRISE: 0721					NOV 24				SUNSET: 1724							
01	CLR	NC	10.00		30	24	28	79	5	21	29.14	30.21	01	CLR	NC	10.00		37	28	34	70	0	00	29.15	30.21				
04	CLR	NC	10.00		29	25	28	85	0	00	29.18	30.25	04	CLR	NC	10.00		34	30	32	85	0	00	29.17	30.22				
07	CLR	NC	9.00		28	25	27	88	0	00	29.23	30.31	07	CLR	NC	10.00		33	29	31	85	0	00	29.18	30.24				
10	CLR	NC	10.00		37	29	34	73	0	00	29.29	30.36	10	CLR	NC	9.00		42	33	38	71	0	00	29.20	30.26				
13	CLR	NC	10.00		48	32	41	54	3	VR	29.27	30.34	13	CLR	NC	10.00		54	37	46	53	3	VR	29.15	30.19				
16	SCT	NC	10.00		53	36	45	52	6	26	29.21	30.28	16	CLR	NC	10.00		59	38	49	46	0	00	29.09	30.14				
19	SCT	NC	10.00		46	37	42	71	6	02	29.21	30.28	19	CLR	NC	10.00		50	38	44	63	0	00	29.08	30.14				
22	SCT	NC	10.00		41	37	39	86	0	00	29.21	30.27	22	CLR	NC	10.00		45	38	42	77	0	00	29.09	30.14				



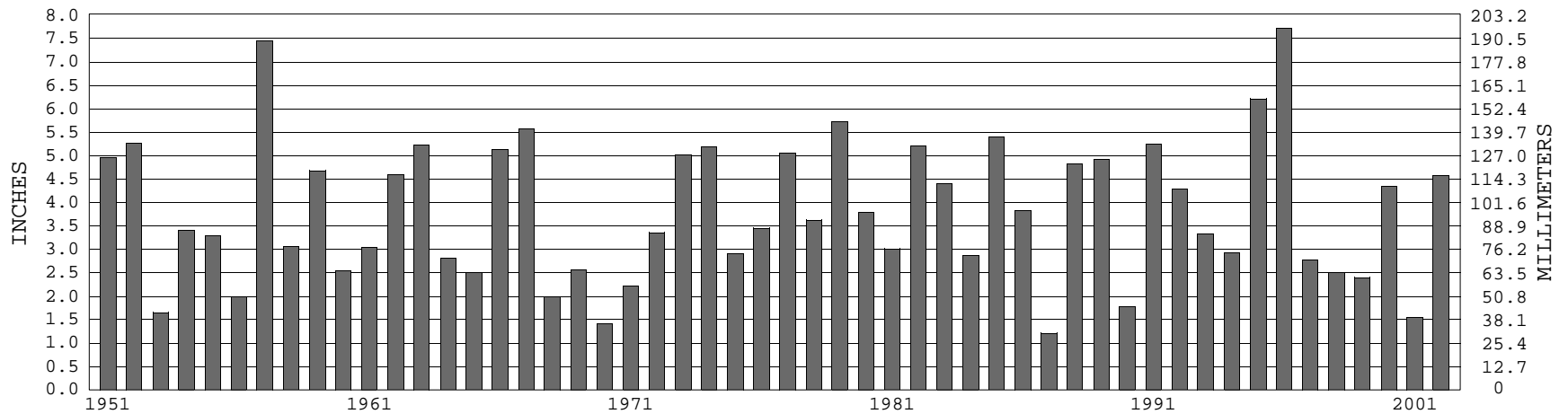
### KNOXVILLE, TN NOVEMBER TEMPERATURES



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

Long-Term (1951-2002) Mean: 48.8      1961-1990 Normal: 49.0

### KNOXVILLE, TN NOVEMBER PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 3.82

1961-1990 Normal: 3.98



NOVEMBER 2002

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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