



# JUNE 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

JUNE 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	89	68	79	9	67	71	0	14					0.00	28.87	29.87	5.1	25	5.6	18	25	16	25	01																																				
02	91	68	80	10	68	72	0	15	BR HZ				0.00	28.85	29.86	5.9	24	6.8	17	25	14	25	02																																				
03	93	71	82	12	69	73	0	17	BR HZ				0.00	28.92	29.92	2.0	26	3.4	15	26	12	25	03																																				
04	95*	70	83*	13	69	72	0	18	TS TSRA RA BR HZ				0.08	28.99	30.00	2.9	24	5.4	25	25	22	25	04																																				
05	89	67	78	8	67	70	0	13	RA				T	28.99	30.00	7.4	24	9.4	32	23	28	23	05																																				
06	87	68	78	7	67	69	0	13	TS TSRA RA BR				0.09	28.90	29.91	6.0	25	8.8	25	32	23	24	06																																				
07	86	63	75	4	63	67	0	10	BR				0.00	28.97	29.98	5.0	04	6.2	15	36	13	06	07																																				
08	87	67	77	5	64	68	0	12					0.00	29.08	30.10	1.5	07	6.0	18	25	16	24	08																																				
09	88	64	76	4	62	68	0	11					0.00	29.09	30.11	1.4	03	5.2	17	27	14	26	09																																				
10	89	65	77	4	62	67	0	12	BR				0.00	29.05	30.06	1.9	27	4.1	15	34	12	29	10																																				
11	89	62	76	3	58	65	0	11					0.00	29.00	30.02	3.5	27	5.1	17	27	15	23	11																																				
12	90	63	77	4	62	67	0	12					0.00	28.93	29.94	4.1	26	5.2	16	27	14	29	12																																				
13	91	69	80	6	67	71	0	15	TSRA RA BR				0.52	28.81	29.82	7.3	24	8.1	41*	25	35*	25	13																																				
14	78	63	71	-3	64	67	0	6	TSRA RA BR				0.04	28.76	29.77	4.8	26	6.0	18	27	15	27	14																																				
15	79	58	69	-5	55	60	0	4					0.00	28.83	29.85	5.9	27	6.6	21	31	15	27	15																																				
16	77	56	67*	-8	55	61	0	2					0.00	28.89	29.91	3.2	28	4.0	14	27	12	27	16																																				
17	83	54*	69	-6	54	61	0	4					0.00	28.92	29.94	2.4	03	4.1	16	04	12	36	17																																				
18	88	61	75	0	57	64	0	10	TSRA RA				0.22	29.00	30.02	2.8	03	5.4	26	23	24	23	18																																				
19	90	64	77	2	62	67	0	12	BR HZ				0.00	29.16	30.18	0.7	04	4.4	29	10	22	12	19																																				
20	91	62	77	2	62	67	0	12	BR HZ				0.00	29.27	30.29	3.9	05	4.9	22	06	17	05	20																																				
21	89	62	76	0	58	65	0	11	BR HZ				0.00	29.26	30.28	7.0	05	7.9	25	03	21	04	21																																				
22	90	60	75	-1	58	65	0	10					0.00	29.17	30.19	6.7	05	7.1	21	02	16	04	22																																				
23	87	68	78	2	67	70	0	13	RA BR				0.06	29.13	30.15	1.2	11	5.8	24	18	22	17	23																																				
24	89	69	79	3	70	72	0	14	RA				T	29.10	30.12	0.4	07	3.6	14	07	12	10	24																																				
25	89	69	79	3	70	72	0	14	TS TSRA RA FG+ BR				1.27	29.07	30.09	0.8	29	3.3	36	12	31	13	25																																				
26	89	70	80	4	71	73	0	15	TS TSRA RA BR				0.10	29.02	30.04	4.4	23	6.5	22	21	18	24	26																																				
27	86	69	78	2	70	72	0	13	TS TSRA RA FG BR				1.18	28.95	29.97	8.6	24	9.4	36	20	30	21	27																																				
28	83	69	76	-1	68	71	0	11	RA BR				0.29	29.01	30.03	10.0	23	10.4	20	24	17	24	28																																				
29	88	72	80	3	71	73	0	15	TS RA BR				0.06	29.10	30.11	2.1	25	4.7	13	24	10	25	29																																				
30	92	70	81	4	70	73	0	16	TS BR HZ				0.00	29.12	30.14	0.9	32	3.6	15	22	13	22	30																																				
										87.7		65.4		76.6		■ ■		64.2		68.4		0.0		11.8		< MONTHLY AVERAGES		TOTALS-->		3.91		29.01		30.02		0.5		17		5.9		<- MONTHLY AVERAGES																	
										4.1		1.5		2.8		■ ■		<-----DEPARTURE FROM NORMAL----->																				- .13		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.47 DATE :27-28										SEA LEVEL PRESSURE										DATE		TIME																											
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:										MAXIMUM		DATE		TIME																									
HEATING: 0 0 3312 -625										GREATEST SNOW DEPTH:										MINIMUM		DATE		TIME																																			
COOLING: 355 73 559 134										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 9		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 11		DATE		TIME																															
																				MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 6		DATE		TIME																															
																				THUNDERSTORMS :10		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH :		DATE		TIME																															

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

JUNE 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							T		0.08	T	T	04		0.08		
05		T	T										05							0.06	T			05		T			
06													06			0.03	T			0.06	T			06		0.09			
07													07											07		0.00			
08													08											08		0.00			
09													09											09		0.00			
10													10											10		0.00			
11													11											11		0.00			
12													12											12		0.00			
13													13											13		0.00			
14													14	T	T	0.49	0.01				T	0.04	0.02	14		0.52			
15													15			T								15		0.04			
16													16											16		0.00			
17													17											17		0.00			
18													18							0.20	0.02			18		0.22			
19													19											19		0.00			
20													20											20		0.00			
21													21											21		0.00			
22													22											22		0.00			
23													23			T	0.06							23		0.06			
24													24											24		T			
25													25				1.08	0.19						25		1.27			
26													26							0.06	0.04			26		0.10			
27													27			0.13	0.27	0.62	0.15			0.01	T	27		1.18			
28													28	0.01								0.01		28		0.29			
29			0.04										29											29		0.06			
30				0.02	0.26	T	T	T					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)	.28	.51	.69	.82	.98	1.12	1.25	1.27	1.27	1.27	1.27	1.27
Ending Date	25	25	25	25	25	25	25	25	25	25	25	25
Ending Time (Hour/Min)	1634	1637	1642	1644	1647	1659	1714	1721	1721	1721	1721	1721

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 JUNE 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							7.00	10.00	
02							5.00	10.00	
03							4.00	10.00	
04							3.00	10.00	
05							7.00	10.00	
06							1.75	10.00	
07							5.00	10.00	
08							8.00	10.00	
09							7.00	10.00	
10							6.00	10.00	
11							9.00	10.00	
12							10.00	10.00	
13							1.50	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							5.00	10.00	
20							5.00	10.00	
21							6.00	10.00	
22							10.00	10.00	
23							3.00	10.00	
24							9.00	10.00	
25							.25	10.00	
26							3.00	10.00	
27							.50	10.00	
28							2.50	10.00	
29							5.00	10.00	
30							4.00	10.00	
<b>MONTHLY AVGS</b>							6.56	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									
30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25      <=3.0      >=7.0									
0                      3                      15									

# OBSERVATIONS AT 3-HOURLY INTERVALS

## KNOXVILLE, TN

JUNE 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	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
<b>SUNRISE: 0521 JUN 01 SUNSET: 1946</b>																											
01	SCT	NC		10.00	73	66	68	79	0	00	28.87	29.88	01	CLR	NC		10.00	67	64	65	91	6	01	28.92	29.93		
04	SCT	NC		9.00	68	65	66	90	5	22	28.87	29.88	04	OVC	048		10.00	65	62	63	90	7	02	28.93	29.95		
07	FEW	NC		8.00	72	66	68	82	0	00	28.90	29.92	07	SCT	NC		9.00	65	62	63	90	8	02	28.97	29.99		
10	FEW	NC		10.00	81	67	72	62	5	25	28.90	29.91	10	SCT	NC		10.00	74	64	68	71	7	07	28.99	30.01		
13	FEW	NC		10.00	87	67	73	51	8	29	28.88	29.89	13	SCT	NC		10.00	82	65	71	56	8	03	28.98	30.00		
16	FEW	NC		9.00	87	67	73	51	10	23	28.82	29.82	16	FEW	NC		10.00	84	63	70	49	7	35	28.95	29.97		
19	SCT	NC		10.00	85	67	73	55	7	26	28.81	29.81	19	FEW	NC		10.00	82	62	69	51	8	05	28.94	29.96		
22	SCT	NC		9.00	77	68	71	74	7	25	28.85	29.85	22	OVC	060		10.00	75	63	67	66	0	00	28.99	30.01		
<b>SUNRISE: 0521 JUN 02 SUNSET: 1947</b>																											
01	CLR	NC		8.00	73	67	69	81	6	23	28.84	29.84	01	BKN	070		10.00	74	64	68	71	6	29	29.03	30.04		
04	SCT	NC		7.00	71	66	68	84	3	23	28.85	29.85	04	SCT	NC		10.00	69	63	65	81	6	03	29.04	30.06		
07	FEW	NC		5.00	72	67	69	84	6	23	28.87	29.88	07	CLR	NC		8.00	69	62	65	78	8	08	29.10	30.11		
10	FEW	NC		8.00	82	68	73	63	10	26	28.89	29.90	10	FEW	NC		10.00	77	63	68	62	5	33	29.14	30.16		
13	SCT	NC		10.00	87	69	75	55	7	VR	28.87	29.87	13	BKN	070		10.00	83	64	71	53	5	VR	29.11	30.13		
16	SCT	NC		10.00	90	68	75	49	8	25	28.81	29.82	16	SCT	NC		10.00	86	64	71	48	3	VR	29.07	30.08		
19	SCT	NC		9.00	87	69	75	55	8	26	28.83	29.83	19	SCT	NC		10.00	82	65	71	56	6	06	29.05	30.06		
22	SCT	NC		9.00	79	69	72	72	7	18	28.86	29.86	22	BKN	080		10.00	77	65	69	66	0	00	29.11	30.12		
<b>SUNRISE: 0521 JUN 03 SUNSET: 1947</b>																											
01	SCT	NC		8.00	76	70	72	82	3	25	28.87	29.87	01	OVC	085		10.00	72	65	67	79	13	26	29.14	30.15		
04	BKN	055		6.00	73	69	70	87	5	05	28.89	29.90	04	SCT	NC		10.00	67	61	63	81	3	06	29.12	30.14		
07	CLR	NC		5.00	75	70	72	84	0	00	28.93	29.94	07	FEW	NC		7.00	68	63	65	84	0	00	29.14	30.16		
10	CLR	NC		6.00	85	70	75	61	3	VR	28.94	29.95	10	SCT	NC		10.00	77	63	68	62	6	VR	29.17	30.19		
13	SCT	NC		7.00	90	67	74	47	8	29	28.94	29.95	13	SCT	NC		10.00	85	64	71	50	7	07	29.11	30.12		
16	FEW	NC		6.00	92	67	75	44	6	25	28.90	29.91	16	FEW	NC		10.00	87	60	70	40	8	07	29.03	30.05		
19	SCT	NC		9.00	89	68	75	50	7	27	28.89	29.89	19	SCT	NC		10.00	84	60	69	44	7	05	29.03	30.04		
22	CLR	NC		8.00	80	69	73	69	0	00	28.93	29.93	22	CLR	NC		10.00	76	64	68	67	0	00	29.03	30.05		
<b>SUNRISE: 0520 JUN 04 SUNSET: 1948</b>																											
01	BKN	060		8.00	77	70	72	79	0	00	28.94	29.95	01	CLR	NC		10.00	72	63	66	73	7	27	29.05	30.06		
04	SCT	NC		6.00	73	69	70	87	0	00	28.94	29.95	04	CLR	NC		10.00	68	61	64	78	3	14	29.06	30.07		
07	SCT	NC		3.00	75	70	72	84	0	00	28.99	30.00	07	CLR	NC		7.00	69	62	65	78	0	00	29.09	30.11		
10	CLR	NC		4.00	86	72	76	63	5	VR	29.00	30.01	10	FEW	NC		10.00	78	60	67	54	0	00	29.11	30.12		
13	SCT	NC		5.00	92	70	77	49	8	26	28.97	29.98	13	FEW	NC		10.00	84	61	69	46	3	VR	29.06	30.07		
16	OVC	250		6.00	82	67	72	60	13	12	28.95	29.97	16	FEW	NC		10.00	88	62	71	42	7	33	28.99	30.00		
19	OVC	250		7.00	79	66	70	65	7	31	28.96	29.98	19	CLR	NC		10.00	84	63	70	49	9	26	28.98	29.99		
22	OVC	060		5.00	70	68	69	93	7	20	29.09	30.10	22	CLR	NC		10.00	73	63	67	71	8	22	29.03	30.04		
<b>SUNRISE: 0520 JUN 05 SUNSET: 1949</b>																											
01	OVC	100		8.00	70	66	67	87	9	24	29.08	30.09	01	CLR	NC		10.00	71	62	65	73	0	00	29.03	30.05		
04	BKN	120		8.00	69	65	66	87	8	06	28.96	29.98	04	CLR	NC		9.00	64	60	62	87	0	00	29.02	30.03		
07	BKN	150		8.00	70	66	67	87	3	29	29.00	30.02	07	CLR	NC		10.00	66	60	62	81	3	05	29.06	30.08		
10	SCT	NC		10.00	79	66	70	65	13	24	29.02	30.04	10	CLR	NC		10.00	83	55	66	38	8	22	29.05	30.07		
13	SCT	NC		10.00	85	69	74	59	10	24	29.00	30.01	13	CLR	NC		10.00	88	55	67	33	12	27	29.02	30.03		
16	FEW	NC		10.00	89	68	75	50	12	25	28.93	29.94	16	FEW	NC		10.00	88	56	68	34	8	31	28.96	29.98		
19	SCT	NC		8.00	85	69	74	59	10	24	28.93	29.94	19	FEW	NC		10.00	85	57	67	39	8	28	28.94	29.96		
22	BKN	075		10.00	76	66	69	72	23	23	28.97	29.99	22	CLR	NC		10.00	75	58	65	55	0	00	28.96	29.97		
<b>SUNRISE: 0520 JUN 06 SUNSET: 1949</b>																											
01	OVC	250		10.00	73	64	67	74	8	31	28.92	29.93	01	CLR	NC		10.00	72	59	64	64	3	29	28.95	29.96		
04	BKN	250		10.00	70	64	66	82	5	29	28.91	29.92	04	CLR	NC		10.00	65	59	61	81	3	24	28.93	29.94		
07	BKN	150		10.00	70	65	67	84	5	25	28.90	29.92	07	FEW	NC		10.00	70	61	64	73	3	26	28.98	29.99		
10	BKN	250		10.00	81	68	72	65	14	23	28.90	29.91	10	BKN	085		10.00	79	60	67	52	6	24	28.98	30.00		
13	SCT	NC		10.00	86	67	73	53	20	25	28.87	29.88	13	SCT	NC		10.00	86	62	70	45	7	VR	28.95	29.96		
16	BKN	032		7.00	73	71	72	94	7	28	28.87	29.89	16	SCT	NC		10.00	88	61	70	40	10	23	28.88	29.89		
19	SCT	NC		10.00	76	69	71	79	6	24	28.87	29.89	19	SCT	NC		10.00	86	64	71	48	7	28	28.87	29.88		
22	OVC	049		10.00	71	66	68	84	9	01	28.92	29.93	22	FEW	NC		10.00	80	65	70	60	3	24	28.89	29.90		

# OBSERVATIONS AT 3-HOURLY INTERVALS

## KNOXVILLE, TN

JUNE 2002

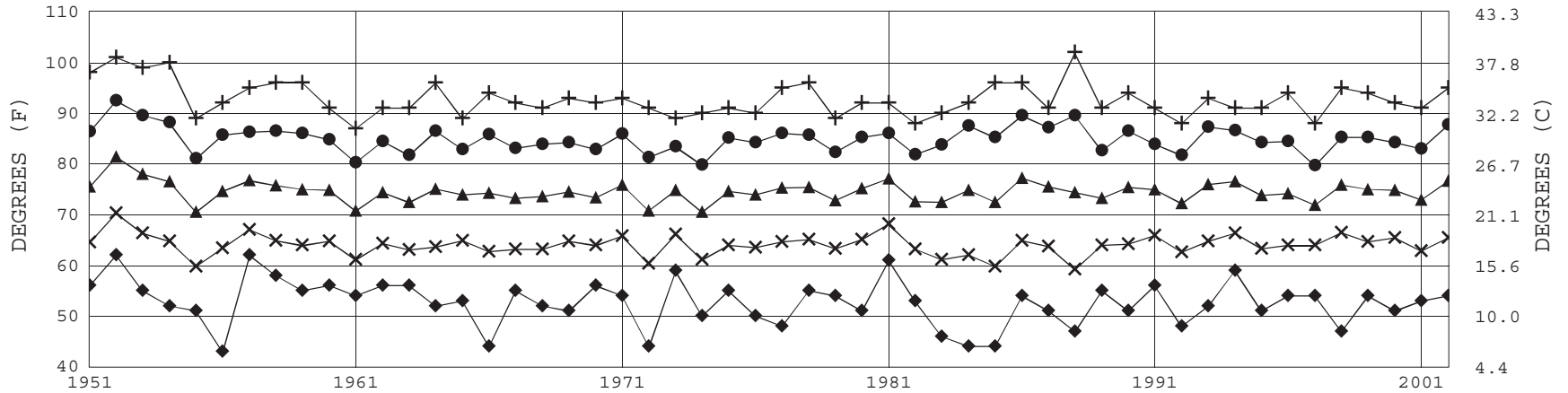
TYS

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: 0519				JUN 13	SUNSET: 1953				SUNRISE: 0520				JUN 19	SUNSET: 1955															
01	FEW	NC	10.00		74	66	69	76	5	21	28.87	29.87	01	OVC	110	10.00		72	62	66	71	5	20	29.08	30.09				
04	FEW	NC	9.00		71	65	67	81	6	29	28.87	29.87	04	CLR	NC	5.00	BR	67	65	66	93	3	02	29.10	30.12				
07	SCT	NC	7.00		73	65	68	76	3	22	28.86	29.86	07	BKN	250	6.00	HZ	69	62	65	78	6	03	29.17	30.18				
10	SCT	NC	9.00		85	65	72	51	10	23	28.84	29.84	10	SCT	NC	7.00		78	63	68	60	5	VR	29.19	30.20				
13	BKN	060	9.00		90	66	74	45	13	25	28.81	29.80	13	SCT	NC	8.00		85	63	71	48	6	31	29.18	30.19				
16	BKN	140	10.00		79	69	72	72	7	19	28.77	29.78	16	SCT	NC	10.00		88	58	69	36	5	VR	29.14	30.16				
19	FEW	NC	10.00		82	69	73	65	7	25	28.74	29.75	19	SCT	NC	10.00		79	63	69	58	7	26	29.15	30.17				
22	OVC	042	8.00		76	72	73	88	10	24	28.77	29.77	22	CLR	NC	9.00		74	63	67	69	0	00	29.21	30.23				
SUNRISE: 0519				JUN 14	SUNSET: 1953				SUNRISE: 0520				JUN 20	SUNSET: 1955															
01	OVC	070	10.00		71	63	66	76	8	21	28.79	29.79	01	CLR	NC	10.00		69	62	65	78	0	00	29.23	30.25				
04	BKN	045	10.00		70	65	67	84	0	00	28.77	29.77	04	CLR	NC	6.00	BR	63	61	62	93	3	08	29.22	30.25				
07	BKN	120	10.00		70	64	66	82	5	24	28.78	29.78	07	CLR	NC	5.00	BR	66	62	64	87	3	27	29.29	30.32				
10	OVC	220	10.00		73	66	68	79	9	29	28.77	29.78	10	CLR	NC	7.00		78	62	68	58	5	VR	29.34	30.36				
13	OVC	120	10.00		74	66	69	76	8	27	28.78	29.78	13	FEW	NC	9.00		87	63	71	45	10	03	29.28	30.31				
16	BKN	200	10.00		76	64	68	67	8	27	28.73	29.73	16	SCT	NC	10.00		89	61	71	39	10	05	29.23	30.25				
19	SCT	NC	10.00		75	60	66	60	8	27	28.73	29.73	19	SCT	NC	10.00		86	59	69	40	9	06	29.22	30.25				
22	BKN	060	10.00		67	63	64	87	7	27	28.78	29.79	22	FEW	NC	10.00		79	60	67	52	3	29	29.27	30.29				
SUNRISE: 0519				JUN 15	SUNSET: 1953				SUNRISE: 0520				JUN 21	SUNSET: 1955															
01	CLR	NC	10.00		63	59	61	87	7	23	28.78	29.80	01	FEW	NC	7.00		71	64	67	79	5	36	29.29	30.31				
04	CLR	NC	10.00		61	56	58	84	6	27	28.79	29.80	04	CLR	NC	7.00		64	60	62	87	6	07	29.27	30.30				
07	FEW	NC	10.00		62	55	58	78	6	23	28.84	29.85	07	CLR	NC	6.00	HZ	68	61	64	78	7	36	29.32	30.35				
10	SCT	NC	10.00		70	53	60	55	10	25	28.86	29.87	10	FEW	NC	10.00		79	61	68	54	8	04	29.33	30.35				
13	SCT	NC	10.00		73	52	61	48	8	29	28.85	29.86	13	SCT	NC	10.00		87	57	68	36	15	07	29.26	30.28				
16	BKN	065	10.00		78	53	63	42	10	27	28.82	29.84	16	SCT	NC	10.00		88	57	68	35	13	04	29.21	30.24				
19	SCT	NC	10.00		75	54	62	48	10	27	28.84	29.85	19	FEW	NC	10.00		85	55	66	36	13	04	29.20	30.22				
22	FEW	NC	10.00		68	54	60	61	5	29	28.87	29.89	22	FEW	NC	10.00		76	55	63	48	7	05	29.21	30.24				
SUNRISE: 0519				JUN 16	SUNSET: 1954				SUNRISE: 0520				JUN 22	SUNSET: 1955															
01	CLR	NC	10.00		62	55	58	78	0	00	28.87	29.89	01	CLR	NC	10.00		69	55	61	61	8	02	29.20	30.22				
04	CLR	NC	10.00		58	54	56	87	0	00	28.87	29.89	04	CLR	NC	10.00		63	53	57	70	5	03	29.20	30.22				
07	FEW	NC	10.00		60	56	58	86	5	26	28.89	29.91	07	FEW	NC	10.00		65	53	58	66	3	04	29.25	30.28				
10	FEW	NC	10.00		74	59	65	60	7	29	28.88	29.91	10	SCT	NC	10.00		79	59	67	50	12	05	29.25	30.27				
13	BKN	150	10.00		77	57	65	50	7	32	28.89	29.91	13	SCT	NC	10.00		84	59	68	43	8	07	29.19	30.20				
16	BKN	180	10.00		75	58	65	55	7	27	28.87	29.90	16	SCT	NC	10.00		89	60	70	38	15	03	29.11	30.12				
19	OVC	150	10.00		72	52	60	50	7	31	28.89	29.92	19	BKN	200	10.00		85	60	69	43	8	08	29.09	30.11				
22	BKN	150	10.00		68	52	59	57	0	00	28.90	29.92	22	SCT	NC	10.00		78	60	67	54	3	10	29.14	30.15				
SUNRISE: 0520				JUN 17	SUNSET: 1954				SUNRISE: 0521				JUN 23	SUNSET: 1956															
01	SCT	NC	10.00		59	55	57	87	0	00	28.91	29.93	01	SCT	NC	10.00		72	62	66	71	5	03	29.14	30.16				
04	SCT	NC	10.00		58	54	56	87	0	00	28.90	29.93	04	BKN	100	10.00		72	62	66	71	6	36	29.14	30.15				
07	CLR	NC	10.00		61	55	58	81	0	00	28.93	29.96	07	SCT	NC	10.00		72	64	67	76	5	04	29.15	30.16				
10	FEW	NC	10.00		74	56	63	54	5	VR	28.94	29.96	10	BKN	200	10.00		82	66	71	58	6	VR	29.17	30.19				
13	SCT	NC	10.00		79	53	63	41	7	VR	28.92	29.94	13	BKN	110	10.00		85	67	73	55	12	23	29.14	30.16				
16	SCT	NC	10.00		82	53	65	37	7	04	28.88	29.90	16	BKN	090	10.00		78	74	75	87	7	09	29.11	30.13				
19	SCT	NC	10.00		80	54	64	41	8	03	28.89	29.91	19	BKN	200	10.00		77	70	72	79	3	14	29.11	30.12				
22	SCT	NC	10.00		71	53	61	53	7	02	28.94	29.96	22	BKN	200	10.00		74	70	71	88	0	00	29.14	30.15				
SUNRISE: 0520				JUN 18	SUNSET: 1954				SUNRISE: 0521				JUN 24	SUNSET: 1956															
01	SCT	NC	10.00		68	53	59	59	6	03	28.94	29.96	01	BKN	200	10.00		71	69	70	94	0	00	29.13	30.14				
04	OVC	100	10.00		63	55	58	76	6	05	28.95	29.97	04	OVC	075	10.00		70	69	69	97	0	00	29.11	30.13				
07	BKN	100	10.00		65	55	59	70	7	02	29.00	30.02	07	BKN	090	9.00		70	69	69	97	5	06	29.14	30.16				
10	FEW	NC	10.00		77	58	65	52	7	05	29.04	30.05	10	BKN	250	10.00		80	71	74	74	3	VR	29.15	30.17				
13	SCT	NC	10.00		84	56	67	38	7	34	29.01	30.02	13	BKN	060	10.00		85	68	73	57	5	34	29.11	30.12				
16	SCT	NC	10.00		85	55	66	36	0	00	28.98	30.00	16	BKN	150	10.00		86	68	74	55	8	10	29.07	30.08				
19	OVC	080	10.00		83	58	67	43	5	08	28.98	30.00	19	BKN	200	10.00		81	69	73	67	6	17	29.04	30.06				
22	BKN	075	10.00		73	62	66	69	6	13	29.03	30.05	22	SCT	NC	10.00		76	70	72	82	0	00	29.08	30.10				



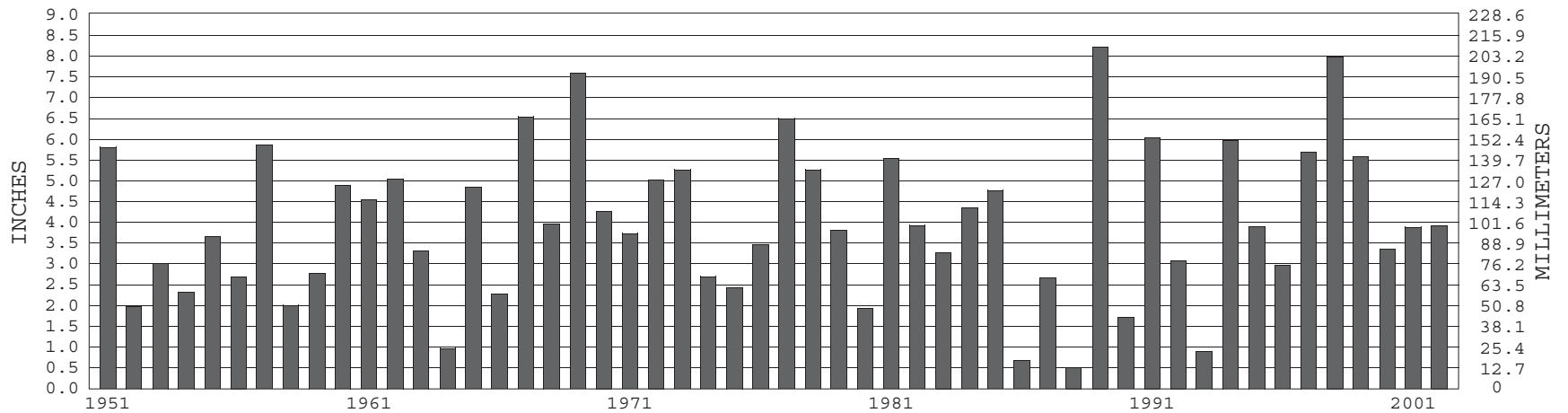
### KNOXVILLE, TN JUNE TEMPERATURES



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

Long-Term (1951-2002) Mean: 74.5      1961-1990 Normal: 73.8

### KNOXVILLE, TN JUNE PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 3.99

1961-1990 Normal: 4.04



JUNE 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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