



JUNE 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

JUNE 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																																	
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25																														
01	72	54	63*	-7	49	56	2	0					0.00	28.90	29.92	4.3	04	5.8	23	01	15	03	01																															
02	76	51*	64	-6	52	57	1	0	RA				T	28.91	29.94	4.0	03	6.2	17	11	15	11	02																															
03	80	62	71	1	64	66	0	6	RA BR				0.10	28.75	29.77	7.0	23	8.9	28	21	24	22	03																															
04	70	59	65	-5	58	61	0	0	RA BR				0.15	28.82	29.84	7.9	28	8.4	21	29	17	31	04																															
05	76	52	64	-6	53	58	1	0	BR				0.00	28.97	29.99	2.4	06	3.7	14	04	12	04	05																															
06	83	56	70	-1	61	64	0	5	RA BR HZ				0.03	28.89	29.91	2.9	05	5.0	13	06	12	07	06																															
07	78	68	73	2	69	70	0	8	RA BR				0.36	28.75	29.76	4.1	25	5.4	23	26	15	29	07																															
08	85	66	76	4	65	68	0	11	RA BR				0.01	28.81	29.82	6.2	27	6.7	23	27	20	27	08																															
09	80	62	71	-1	59	64	0	6					0.00	28.94	29.96	3.3	27	4.6	17	24	13	25	09																															
10	85	59	72	-1	60	65	0	7	RA				T	28.98	29.99	5.5	24	6.1	24	18	18	17	10																															
11	90*	66	78	5	67	69	0	13	TS TSRA RA BR SQ				0.70	28.91	29.92	5.1	23	7.8	52*	24	44*	23	11																															
12	84	64	74	1	67	69	0	9	RA FG+ BR				T	28.85	29.87	5.8	24	7.6	26	24	22	21	12																															
13	82	70	76	2	68	70	0	11					0.00	28.89	29.90	11.8	24	12.1	23	23	21	23	13																															
14	84	69	77	3	68	71	0	12	RA				T	28.93	29.94	8.2	24	9.0	22	23	18	22	14																															
15	84	71	78	4	69	72	0	13	TS TSRA RA				0.01	28.94	29.96	5.6	25	7.6	23	28	18	30	15																															
16	83	67	75	0	69	70	0	10	TS TSRA RA FG+ BCFG BR HZ				0.28	28.99	30.00	0.5	23	4.1	28	26	23	26	16																															
17	83	66	75	0	68	69	0	10	TSRA RA FG+ BCFG BR				0.05	28.97	29.99	1.9	25	3.6	17	22	15	22	17																															
18	75	68	72	-3	69	70	0	7	TSRA RA BR				0.10	28.89	29.91	2.2	05	3.0	9	01	8	05	18																															
19	83	68	76	1	67	70	0	11	TSRA RA DZ BR HZ				0.21	28.84	29.85	3.3	30	5.1	13	02	10	01	19																															
20	79	60	70	-5	56	63	0	5	BR HZ				0.00	28.92	29.93	7.7	01	8.4	18	01	15	01	20																															
21	78	55	67	-9	52	58	0	2					0.00	28.96	29.99	7.0	03	7.7	22	04	17	02	21																															
22	81	54	68	-8	56	62	0	3					0.00	28.95	29.97	5.9	06	6.2	18	04	16	04	22																															
23	85	57	71	-5	59	64	0	6	BR				0.00	28.98	30.00	3.1	06	4.3	14	03	12	05	23																															
24	88	59	74	-2	62	66	0	9	BCFG BR				0.00	29.06	30.07	1.2	05	3.6	14	25	12	26	24																															
25	89	64	77	1	65	70	0	12	BCFG BR HZ				0.00	29.08	30.09	2.2	28	3.6	14	26	12	28	25																															
26	89	68	79*	3	67	71	0	14	TS RA BR HZ				0.01	29.00	30.01	6.5	24	7.2	21	27	17	21	26																															
27	75	66	71	-5	66	68	0	6	RA BR				0.02	28.97	29.99	4.1	33	6.4	22	24	17	24	27																															
28	84	63	74	-3	65	68	0	9	BR				0.00	29.00	30.02	1.4	29	2.9	16	29	13	28	28																															
29	89	67	78	1	67	71	0	13	BR HZ				0.00	29.11	30.12	1.2	29	3.4	13	32	10	28	29																															
30	79	67	73	-4	69	71	0	8	TS TSRA RA BR HZ				0.42	29.16	30.18	5.5	24	6.4	26	24	23	24	30																															
< MONTHLY AVERAGES											TOTALS-->				<- MONTHLY AVERAGES																																							
-2.0 -1.3 -1.7											<-----DEPARTURE FROM NORMAL----->											-1.59											SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																					
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 0.70 DATE :11											SEA LEVEL PRESSURE DATE TIME																																
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: DATE :											MAXIMUM : 30.22 30 1053																																
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: DATE :											MINIMUM : 29.71 03 1753																																
HEATING: 4 1 3579 -111											NUMBER OF DAYS WITH →											MAXIMUM TEMP ≥ 90: 1											MINIMUM TEMP ≤ 32: 0											PRECIPITATION ≥ 0.01 INCH : 14										
COOLING: 226 -56 340 -85																						MAXIMUM TEMP ≤ 32 : 0											MINIMUM TEMP ≤ 0 : 0											PRECIPITATION ≥ 0.10 INCH : 8										
																						THUNDERSTORMS : 8											HEAVY FOG : 3											SNOWFALL ≥ 1.0 INCH :										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

JUNE 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			0.00	
02													02												02			T	
03													03				T								03			0.10	
04													04				T	0.01		T					04			0.15	
05													05												05			0.00	
06													06						T						06			0.03	
07													07					T		T					07			0.36	
08													08												08			0.01	
09													09												09			0.00	
10													10												10			T	
11													11												11			0.70	
12													12												12			T	
13													13												13			0.00	
14													14												14			T	
15													15												15			0.01	
16													16												16			0.28	
17													17												17			0.05	
18													18												18			0.10	
19													19												19			0.21	
20													20												20			0.00	
21													21												21			0.00	
22													22												22			0.00	
23													23												23			0.00	
24													24												24			0.00	
25													25												25			0.00	
26													26												26			0.01	
27													27												27			0.02	
28													28												28			0.00	
29													29												29			0.00	
30													30												30			0.42	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.26	.34	.37	.38	.40	.45	.50	.54	.56	.56	.56	.56
Ending Date	11	11	11	11	11	11	11	11	11	11	11	11
Ending Time (Hour/Min)	1826	1830	1832	1836	1848	1906	1920	1940	1953	1953	1953	1953

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 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							10.00	10.00	
03							2.00	10.00	
04							2.50	10.00	
05							2.00	10.00	
06							2.50	10.00	
07							1.25	10.00	
08							2.50	10.00	
09							7.00	10.00	
10							9.00	10.00	
11							.50	10.00	
12							<.25	10.00	
13							10.00	10.00	
14							9.00	10.00	
15							7.00	10.00	
16							.13	10.00	
17							<.25	10.00	
18							1.50	10.00	
19							2.00	10.00	
20							5.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							6.00	10.00	
24							5.00	10.00	
25							2.50	8.00	
26							2.50	7.00	
27							4.00	10.00	
28							3.00	10.00	
29							5.00	10.00	
30							1.75	10.00	
MONTHLY AVGS							4.51	9.83	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 3 16 9									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JUNE 2003

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: 0521 JUN 01 SUNSET: 1946																											
01	FEW	NC		10.00	59	50	54	72	6	01	28.82	29.83	01	OVC	065		3.00	BR	69	68	68	96	0	00	28.76	29.76	
04	OVC	040		10.00	58	51	54	78	3	03	28.85	29.86	04	OVC	026		3.00	-RA BR	69	68	68	96	12	20	28.73	29.74	
07	FEW	NC		9.00	58	53	55	84	0	00	28.89	29.92	07	OVC	060		10.00		71	68	69	90	8	25	28.75	29.75	
10	FEW	NC		10.00	64	47	55	54	10	02	28.92	29.95	10	OVC	007		7.00	-RA	71	70	70	96	5	33	28.75	29.76	
13	CLR	NC		10.00	68	47	56	47	7	VR	28.92	29.95	13	OVC	013		10.00		74	71	72	91	6	25	28.73	29.74	
16	CLR	NC		10.00	71	49	59	46	5	VR	28.91	29.93	16	BKN	032		10.00		77	71	73	82	9	26	28.73	29.74	
19	CLR	NC		10.00	67	48	57	51	7	07	28.89	29.92	19	OVC	033		10.00		73	70	71	90	6	32	28.75	29.76	
22	FEW	NC		10.00	60	49	54	67	5	02	28.93	29.96	22	OVC	030		8.00		72	69	70	91	0	00	28.80	29.80	
SUNRISE: 0521 JUN 02 SUNSET: 1947																											
01	CLR	NC		10.00	56	47	51	72	9	03	28.93	29.97	01	OVC	027		8.00	-RA	70	68	69	93	5	31	28.80	29.81	
04	CLR	NC		10.00	53	47	50	80	9	02	28.93	29.96	04	OVC	029		6.00	BR	68	67	67	96	0	00	28.78	29.79	
07	CLR	NC		10.00	54	48	51	80	7	04	28.95	29.98	07	BKN	049		2.50	BR	69	68	68	96	0	00	28.81	29.82	
10	BKN	150		10.00	64	50	56	61	8	04	28.97	30.00	10	BKN	017		8.00		74	69	71	85	9	27	28.82	29.83	
13	SCT	NC		10.00	73	51	60	46	5	VR	28.93	29.96	13	SCT	NC		10.00		80	67	71	64	9	25	28.81	29.81	
16	BKN	100		10.00	74	54	62	50	6	33	28.90	29.93	16	SCT	NC		10.00		83	64	70	53	15	25	28.78	29.78	
19	OVC	080		10.00	72	57	63	60	10	11	28.83	29.85	19	BKN	095		10.00		80	64	70	58	8	27	28.82	29.83	
22	OVC	070		10.00	68	59	63	73	5	30	28.85	29.86	22	FEW	NC		10.00		68	60	63	76	8	21	28.87	29.88	
SUNRISE: 0521 JUN 03 SUNSET: 1947																											
01	BKN	065		10.00	64	59	61	84	3	02	28.80	29.81	01	BKN	048		10.00		66	61	63	84	3	35	28.87	29.89	
04	BKN	120		10.00	65	57	60	76	7	31	28.79	29.80	04	SCT	NC		10.00		64	61	62	90	0	00	28.89	29.91	
07	OVC	110		4.00	63	61	62	93	0	00	28.80	29.81	07	FEW	NC		7.00		65	63	64	93	0	00	28.93	29.96	
10	OVC	055		6.00	70	66	67	87	5	VR	28.78	29.79	10	SCT	NC		10.00		73	58	64	59	8	29	28.96	29.98	
13	BKN	040		10.00	79	65	70	62	21	19	28.72	29.73	13	SCT	NC		10.00		77	55	64	47	8	30	28.96	29.98	
16	OVC	039		8.00	74	67	69	79	17	25	28.70	29.72	16	SCT	NC		10.00		79	56	65	45	12	26	28.93	29.95	
19	BKN	200		10.00	71	68	69	90	12	20	28.71	29.72	19	FEW	NC		10.00		75	58	65	55	7	24	28.94	29.96	
22	SCT	NC		10.00	68	66	67	93	8	22	28.74	29.75	22	FEW	NC		10.00		67	59	62	76	3	03	28.98	30.00	
SUNRISE: 0520 JUN 04 SUNSET: 1948																											
01	SCT	NC		10.00	66	63	64	90	5	24	28.72	29.72	01	SCT	NC		10.00		65	58	61	78	0	00	28.97	29.99	
04	OVC	004		6.00	65	64	64	97	5	19	28.73	29.74	04	BKN	065		10.00		63	57	59	81	0	00	29.00	30.02	
07	OVC	022		6.00	63	61	62	93	7	27	28.77	29.79	07	CLR	NC		10.00		64	57	60	78	0	00	29.02	30.05	
10	OVC	025		8.00	64	60	62	87	13	28	28.81	29.82	10	SCT	NC		10.00		75	60	66	60	3	VR	29.03	30.05	
13	BKN	043		10.00	68	56	61	66	10	28	28.83	29.84	13	SCT	NC		10.00		82	62	69	51	12	25	28.98	29.99	
16	BKN	042		10.00	69	55	61	61	10	29	28.83	29.85	16	BKN	250		10.00		84	59	68	43	15	25	28.96	29.98	
19	OVC	046		10.00	65	53	58	66	7	29	28.88	29.91	19	BKN	100		10.00		79	62	68	56	13	19	28.93	29.95	
22	OVC	050		10.00	63	53	57	70	5	28	28.93	29.96	22	BKN	250		10.00		75	62	67	64	3	32	28.92	29.93	
SUNRISE: 0520 JUN 05 SUNSET: 1948																											
01	BKN	055		10.00	59	53	56	81	0	00	28.93	29.96	01	SCT	NC		10.00		71	63	66	76	7	25	28.94	29.96	
04	CLR	NC		10.00	56	53	54	90	0	00	28.94	29.97	04	BKN	047		10.00		68	64	66	87	0	00	28.94	29.95	
07	CLR	NC		4.00	56	54	55	93	0	00	28.98	30.02	07	OVC	250		10.00		69	65	66	87	0	00	28.95	29.97	
10	SCT	NC		10.00	66	53	59	63	5	VR	28.99	30.02	10	OVC	250		8.00		79	69	72	72	8	24	28.94	29.95	
13	SCT	NC		10.00	70	52	60	53	6	VR	28.99	30.02	13	SCT	NC		9.00		88	70	75	55	20	23	28.88	29.89	
16	SCT	NC		10.00	75	52	62	45	3	VR	28.95	29.97	16	BKN	250		9.00		87	69	75	55	14	25	28.85	29.85	
19	FEW	NC		9.00	72	53	61	52	6	11	28.94	29.96	19	OVC	028		2.50	TSRA BR	68	65	66	90	28	24	28.92	29.94	
22	CLR	NC		10.00	64	54	58	70	0	00	28.97	30.00	22	OVC	150		10.00		67	66	66	97	6	02	28.88	29.90	
SUNRISE: 0520 JUN 06 SUNSET: 1949																											
01	CLR	NC		7.00	58	55	56	90	3	04	28.96	29.98	01	SCT	NC		6.00	BR	65	65	65	100	7	08	28.86	29.86	
04	OVC	250		7.00	58	54	56	87	6	04	28.95	29.98	04	OVC	002		1.00	BR	65	64	64	97	0	00	28.86	29.86	
07	BKN	150		5.00	61	57	59	87	6	05	28.98	30.01	07	OVC	001		1.00	BR	65	65	65	100	0	00	28.87	29.90	
10	BKN	150		9.00	70	58	63	66	10	09	28.95	29.98	10	OVC	036		8.00	-RA	73	70	71	90	7	28	28.89	29.91	
13	BKN	150		10.00	79	61	68	54	7	VR	28.89	29.91	13	BKN	040		10.00		80	70	73	71	15	22	28.86	29.87	
16	BKN	250		10.00	81	64	70	57	3	VR	28.83	29.84	16	BKN	250		10.00		83	68	73	61	16	22	28.83	29.84	
19	OVC	055		6.00	73	69	70	87	7	31	28.83	29.85	19	BKN	090		10.00		78	68	71	71	10	24	28.83	29.84	
22	OVC	070		3.00	70	68	69	93	6	04	28.80	29.82	22	BKN	250		10.00		74	68	70	82	5	24	28.84	29.84	

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

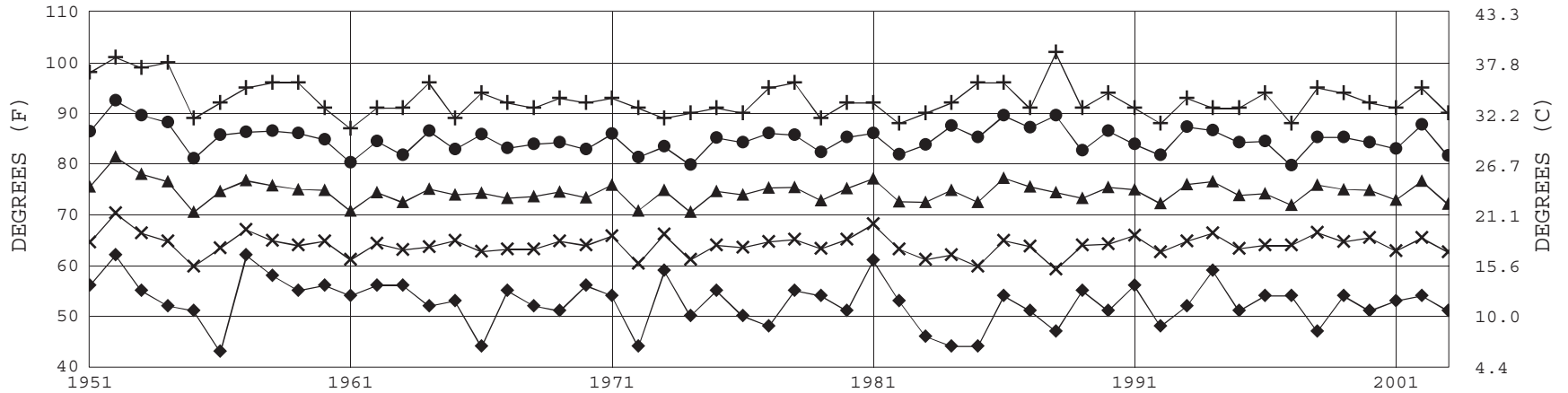
JUNE 2003

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)								
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
SUNRISE: 0519				JUN 13				SUNSET: 1952				SUNRISE: 0520				JUN 19				SUNSET: 1955										
01	OVC	200			10.00	73	67	69	81	15	26	28.87	29.87	01	OVC	030			2.50	-TSRA	BR	69	68	68	96	6	26	28.83	29.83	
04	OVC	200			10.00	71	66	68	84	12	25	28.86	29.86	04	OVC	002			4.00	BR		69	68	68	96	6	28	28.82	29.83	
07	BKN	100			10.00	72	66	68	82	9	24	28.89	29.91	07	BKN	012			4.00	BR		69	68	68	96	9	27	28.86	29.87	
10	OVC	040			10.00	75	67	70	76	17	23	28.93	29.94	10	BKN	045			10.00			75	69	71	82	6	35	28.87	29.89	
13	BKN	080			10.00	79	68	72	69	17	25	28.91	29.92	13	BKN	032			10.00			79	66	70	65	8	33	28.86	29.87	
16	BKN	250			10.00	81	69	73	67	16	23	28.86	29.86	16	BKN	250			9.00			82	65	71	56	6	VR	28.81	29.81	
19	BKN	150			10.00	78	69	72	74	10	24	28.86	29.87	19	SCT	NC			7.00			79	65	70	62	5	29	28.81	29.82	
22	SCT	NC			10.00	74	67	69	79	9	25	28.89	29.91	22	OVC	250			7.00			75	66	69	74	0	00	28.85	29.85	
SUNRISE: 0519				JUN 14				SUNSET: 1953				SUNRISE: 0520				JUN 20				SUNSET: 1955										
01	OVC	034			10.00	71	66	68	84	8	25	28.92	29.93	01	OVC	049			5.00	HZ		72	66	68	82	5	01	28.85	29.85	
04	OVC	032			10.00	70	66	67	87	6	24	28.91	29.93	04	BKN	120			8.00			68	63	65	84	3	04	28.86	29.86	
07	OVC	025			10.00	72	66	68	82	9	24	28.96	29.98	07	OVC	090			7.00			68	63	65	84	8	35	28.91	29.93	
10	OVC	025			10.00	76	67	70	74	15	24	28.98	30.00	10	SCT	NC			10.00			72	61	65	69	10	36	28.93	29.95	
13	BKN	250			10.00	80	69	73	69	8	27	28.95	29.96	13	FEW	NC			10.00			77	54	63	45	13	01	28.93	29.94	
16	BKN	250			10.00	83	70	74	65	14	22	28.89	29.91	16	FEW	NC			10.00			79	47	61	32	8	01	28.91	29.92	
19	BKN	250			10.00	79	71	74	77	6	29	28.88	29.89	19	CLR	NC			10.00			74	47	59	38	10	03	28.91	29.93	
22	OVC	250			9.00	73	71	72	94	7	23	28.93	29.95	22	CLR	NC			10.00			66	52	58	61	6	02	28.96	29.98	
SUNRISE: 0519				JUN 15				SUNSET: 1953				SUNRISE: 0520				JUN 21				SUNSET: 1955										
01	BKN	045			10.00	71	68	69	90	7	23	28.93	29.94	01	CLR	NC			10.00			59	52	55	78	6	05	28.98	30.01	
04	OVC	033			10.00	71	69	70	94	7	23	28.92	29.93	04	CLR	NC			10.00			57	51	54	81	6	03	28.97	29.99	
07	BKN	020			10.00	72	69	70	91	10	21	28.95	29.97	07	CLR	NC			10.00			60	52	56	75	7	02	29.00	30.03	
10	BKN	030			9.00	76	70	72	82	9	23	28.97	29.99	10	CLR	NC			10.00			69	50	58	51	10	06	29.00	30.03	
13	BKN	100			10.00	82	68	73	63	13	24	28.94	29.95	13	CLR	NC			10.00			74	52	61	46	6	VR	28.96	29.99	
16	BKN	090			10.00	79	70	73	74	7	30	28.92	29.93	16	FEW	NC			10.00			77	49	61	37	9	03	28.91	29.94	
19	SCT	NC			10.00	80	70	73	71	5	35	28.92	29.93	19	FEW	NC			10.00			75	52	62	45	8	04	28.92	29.94	
22	BKN	120			10.00	74	71	72	91	3	04	28.96	29.98	22	CLR	NC			10.00			67	53	59	61	6	03	28.97	29.99	
SUNRISE: 0519				JUN 16				SUNSET: 1954				SUNRISE: 0520				JUN 22				SUNSET: 1955										
01	SCT	NC			10.00	71	69	70	94	0	00	28.96	29.98	01	CLR	NC			10.00			62	53	57	73	5	03	28.96	29.98	
04	SCT	NC			2.50	BR	69	68	68	96	5	32	28.95	29.97	04	CLR	NC			10.00			57	53	55	87	0	00	28.94	29.96
07	VV	001			0.13	FG	69	69	69	100	6	04	29.00	30.01	07	SCT	NC			10.00			60	55	57	84	0	00	28.99	30.01
10	BKN	065			7.00		77	70	72	79	0	00	29.02	30.03	10	SCT	NC			10.00			74	53	62	48	9	03	29.00	30.03
13	OVC	021			10.00	-TSRA	73	68	70	84	17	32	29.02	30.04	13	SCT	NC			10.00			78	56	65	47	12	05	28.96	29.98
16	BKN	150			10.00		78	71	73	79	7	15	28.97	29.98	16	SCT	NC			10.00			80	57	66	45	9	06	28.91	29.93
19	OVC	150			10.00		75	70	72	84	0	00	28.97	29.98	19	SCT	NC			10.00			78	58	66	50	7	09	28.91	29.93
22	OVC	035			6.00	-TSRA BR	72	71	71	97	7	23	29.03	30.04	22	CLR	NC			10.00			69	60	64	73	5	05	28.94	29.96
SUNRISE: 0520				JUN 17				SUNSET: 1954				SUNRISE: 0521				JUN 23				SUNSET: 1956										
01	SCT	NC			7.00		67	66	66	97	3	05	28.99	30.01	01	CLR	NC			10.00			62	59	60	90	3	07	28.93	29.96
04	BKN	001			0.25	FG	67	67	67	100	0	00	28.98	30.00	04	CLR	NC			9.00			60	58	59	93	0	00	28.95	29.97
07	OVC	004			2.00	BR	67	67	67	100	6	28	28.99	30.01	07	CLR	NC			8.00			62	59	60	90	3	07	29.00	30.02
10	OVC	014			6.00	BR	72	68	69	87	3	29	29.01	30.03	10	FEW	NC			10.00			76	61	67	60	3	VR	29.02	30.03
13	BKN	026			10.00		80	69	73	69	0	00	28.98	30.00	13	FEW	NC			10.00			83	59	68	44	8	06	28.98	30.01
16	OVC	070			7.00	-TSRA	78	71	73	79	6	27	28.93	29.95	16	CLR	NC			10.00			85	57	67	39	6	VR	28.97	29.98
19	OVC	049			10.00		71	68	69	90	6	22	28.95	29.97	19	CLR	NC			10.00			81	58	67	46	6	07	28.96	29.98
22	OVC	180			10.00		70	68	69	93	3	21	28.95	29.97	22	CLR	NC			10.00			69	61	64	76	6	07	28.99	30.01
SUNRISE: 0520				JUN 18				SUNSET: 1954				SUNRISE: 0521				JUN 24				SUNSET: 1956										
01	OVC	180			10.00		69	67	68	93	3	28	28.94	29.96	01	CLR	NC			9.00			64	60	62	87	0	00	28.99	30.01
04	BKN	120			1.50	BR	68	68	68	100	0	00	28.94	29.96	04	CLR	NC			9.00			63	59	61	87	0	00	29.00	30.02
07	BKN	043			6.00	BR	70	68	69	93	3	07	28.93	29.96	07	FEW	NC			7.00			64	60	62	87	3	05	29.07	30.09
10	OVC	013			6.00	-RA BR	73	69	70	87	5	06	28.93	29.95	10	CLR	NC			10.00			77	63	68	62	6	05	29.09	30.11
13	OVC	040			8.00	-RA	74	69	71	85	6	07	28.89	29.91	13	FEW	NC			10.00			84	60	69	44	7	06	29.08	30.09
16	OVC	021			7.00	-RA	74	70	71	88	5	05	28.85	29.86	16	FEW	NC			10.00			86	59	69	40	3	VR	29.04	30.06
19	OVC	150			8.00	-RA	72	70	71	94	5	02	28.82	29.83	19	CLR	NC			10.00			84	63	70	49	7	09	29.05	30.06
22	OVC	043			5.00	-RA BR	71	69	70	94	3	36	28.84	29.85	22	CLR	NC			10.00			77	64	69	64	3	32	29.08	30.10

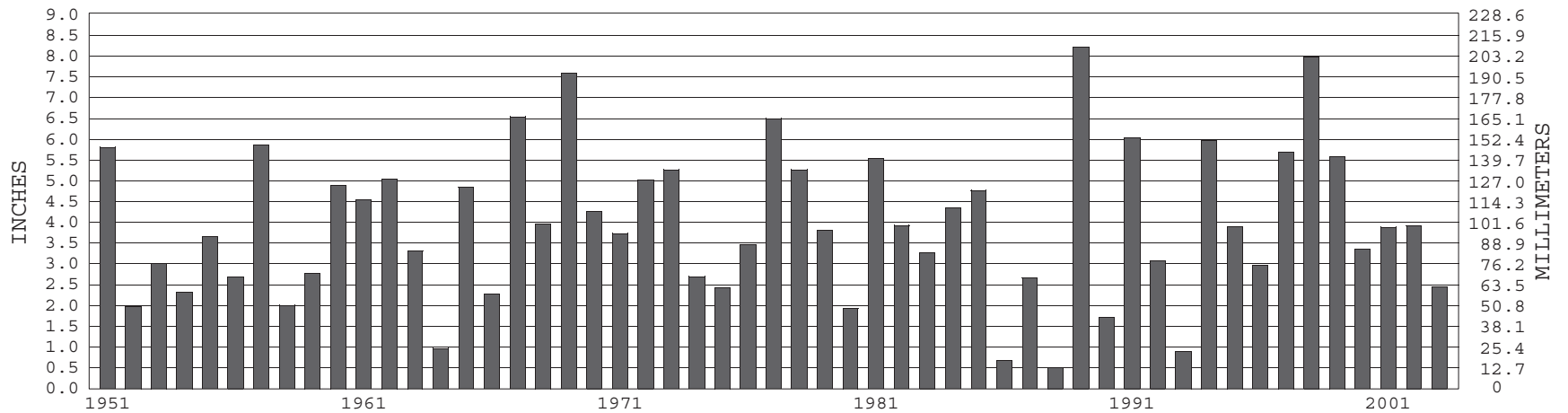
KNOXVILLE, TN JUNE TEMPERATURES



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

Long-Term (1951-2003) Mean: 74.4 1961-1990 Normal: 73.8

KNOXVILLE, TN JUNE PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.96

1961-1990 Normal: 4.04



JUNE 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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