



AUGUST 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

AUGUST 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	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	83	70	77	-1	71	73	0	12	TSRA RA BR				0.27	29.00	30.02	3.4	23	4.7	28	33	21	34	01		
02	88	67	78	0	70	72	0	13	TS TSRA RA BR				0.19	28.99	30.00	1.0	24	5.1	30	23	23	22	02		
03	83	69	76	-2	71	72	0	11	TS TSRA RA FG+ BR				0.71	28.95	29.96	3.5	22	5.5	17	19	14	22	03		
04	83	65	74	-4	68	70	0	9	TS TSRA RA BCFG BR				0.31	28.93	29.94	5.6	24	7.7	29	23	23	22	04		
05	85	67	76	-2	69	71	0	11	TS TSRA RA BR				0.44	28.86	29.88	3.7	24	5.8	39	28	33	28	05		
06	83	68	76	-2	70	71	0	11	BCFG BR HZ				0.00	28.86	29.87	4.0	24	4.6	21	24	17	25	06		
07	80	68	74	-4	68	70	0	9	TS TSRA RA BR HZ				1.17	28.84	29.85	0.4	29	3.5	16	08	14	08	07		
08	84	64	74	-4	67	69	0	9	BR HZ				0.00	28.86	29.88	2.7	02	3.8	14	35	10	03	08		
09	85	65	75	-2	68	70	0	10	BR HZ				0.00	28.90	29.91	1.0	34	2.3	13	30	10	31	09		
10	85	67	76	-1	68	70	0	11	TS TSRA RA BR HZ				0.55	28.92	29.94	0.6	10	2.0	23	14	20	10	10		
11	83	66	75	-2	67	69	0	10	FG+ BR HZ				0.00	28.92		1.6	36	4.1	10	09	10	09	11		
12	84	63*	74*	-3	67	69	0	9	RA FG BR HZ				T	29.02	30.03	4.1	07	4.9	15	11	12	11	12		
13	87	70	79	2	71	73	0	14	RA BR HZ				0.16	29.20	30.22	1.9	04	3.8	14	24	13	24	13		
14	91	70	81	4	72	75	0	16	BR				0.00	29.29	30.31	2.4	05	4.1	14	04	13	07	14		
15	91	72	82	5	73	75	0	17	TS TSRA BR HZ				0.11	29.17	30.19	0.4	35	3.9	41	05	29	05	15		
16	85	71	78	1	72	73	0	13	TS TSRA RA BR HZ				0.53	28.99	30.00	0.6	22	2.8	45*	01	39*	01	16		
17	88	70	79	2	72	73	0	14	TS TSRA RA FG+ BR HZ				0.04	28.93	29.94	1.0	29	4.5	21	02	20	02	17		
18	88	66	77	0	69	71	0	12	FG+ BR HZ				0.00	29.00	30.02	2.9	03	3.7	14	02	9	02	18		
19	88	67	78	1	69	72	0	13	BR HZ				0.00	29.06	30.07	3.3	05	4.1	12	01	9	08	19		
20	90	69	80	3	72	74	0	15	TS TSRA BR HZ				0.17	29.08	30.10	1.1	34	3.7	17	22	15	22	20		
21	88	73	81	4	73	75	0	16	BR HZ				0.00	29.06	30.07	2.1	27	3.2	16	26	14	25	21		
22	89	71	80	3	71	74	0	15	TS BR HZ				0.00	28.99	30.00	3.3	25	4.0	20	29	15	27	22		
23	90	69	80	3	70	73	0	15	HZ				0.00	28.98	29.99	2.6	36	4.0	14	36	12	02	23		
24	88	69	79	3	69	72	0	14	BR HZ				0.00	29.03	30.05	4.5	02	5.8	15	05	12	04	24		
25	88	68	78	2	70	73	0	13	BR HZ				0.00	29.07	30.09	1.5	29	2.7	13	34	9	33	25		
26	91	70	81	5	73	75	0	16	BR HZ				0.00	29.03	30.04	2.0	27	2.9	17	25	12	26	26		
27	92*	73	83*	7	72	75	0	18	BR HZ				0.00	29.00	30.01	3.0	25	4.0	13	24	10	25	27		
28	88	71	80	4	72	74	0	15	TS TSRA RA FG BR HZ				0.07	29.06	30.07	2.7	24	4.8	21	23	17	22	28		
29	90	69	80	4	72	74	0	15	FG+ BR HZ				0.00	29.08	30.10	4.0	24	5.4	18	21	15	22	29		
30	87	72	80	5	71	74	0	15	RA				T	29.12	30.14	7.0	25	7.6	20	24	18	22	30		
31	90	71	81	6	72	73	0	16	TS TSRA RA BR				0.76	29.14	30.16	1.2	06	5.0	35	19	28	18	31		
MONTHLY AVERAGES										TOTALS-->				<-- MONTHLY AVERAGES											
86.9 68.7 77.8										70.3 72.4 0.0 13.1				5.48 29.01 0.2 34 4.3											
0.5 1.4 0.9										<-----DEPARTURE FROM NORMAL----->				2.59											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.17 DATE :07				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.37 14 0953							
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:				MINIMUM				: 29.82 07 1653							
HEATING: 0 0 0 0										NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 8				MINIMUM TEMP ≤ 32: 0							
COOLING: 407 26 1105 -109														MAXIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 14							
														THUNDERSTORMS : 14				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 12			
																		HEAVY FOG : 5				SNOWFALL ≥ 1.0 INCH: :			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

AUGUST 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			0.01		T								01		0.26										01			0.27	
02													02							0.10	0.12	T	0.01	0.01	0.03	02	0.27	0.19	
03													03												03			0.71	
04	0.22	0.06	0.02	0.01							0.70	0.01	04												04			0.31	
05		T	0.42	0.02									05						T					T	05			0.44	
06													06												06			0.00	
07				T	0.29	0.18	0.67	T	T				07	T	0.03										07			1.17	
08													08												08			0.00	
09													09												09			0.00	
10													10			0.16	0.38	0.01							10			0.55	
11													11												11			0.00	
12													12								T				12		T	0.00	
13	T												13			T	0.16								13			0.16	
14													14												14			0.00	
15													15								T	0.11			15			0.11	
16												0.06	16	0.06	0.04		0.36	0.01							16			0.53	
17													17			T					0.04	T			17			0.04	
18													18						T						18			0.00	
19													19												19			0.00	
20													20								T	0.06	0.10	0.01	20			0.17	
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			0.00	
27													27												27			0.00	
28													28			0.01	0.01	0.04	0.01						28			0.07	
29													29												29			0.00	
30												T	30												30		T	0.00	
31													31		0.05	0.14				0.52	T	0.03	0.02		31			0.76	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

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 AUGUST 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							1.75	10.00	
02							1.50	10.00	
03							.25	10.00	
04							2.00	10.00	
05							1.75	10.00	
06							6.00	10.00	
07							.75	10.00	
08							1.50	7.00	
09							1.00	8.00	
10							1.00	8.00	
11							.25	10.00	
12							.50	8.00	
13							3.00	10.00	
14							5.00	10.00	
15							2.50	10.00	
16							1.25	10.00	
17							.25	6.00	
18							.25	10.00	
19							1.50	8.00	
20							1.50	7.00	
21							1.25	7.00	
22							3.00	10.00	
23							5.00	10.00	
24							3.00	9.00	
25							2.00	7.00	
26							1.50	6.00	
27							3.00	6.00	
28							.50	6.00	
29							.25	10.00	
30							9.00	10.00	
31							1.25	10.00	
MONTHLY AVGS							2.53	8.77	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 2 25 1									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

AUGUST 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)
SUNRISE: 0553 AUG 13 SUNSET: 1929																									
01	OVC	150	5.00	BR	72	69	70	91	5	03	29.10	30.12	01	CLR	NC	5.00	BR	71	69	70	94	0	00	29.02	30.04
04	OVC	100	5.00	BR	72	69	70	91	3	01	29.13	30.14	04	CLR	NC	3.00	BR	68	67	67	96	3	09	29.04	30.05
07	BKN	110	3.00	BR	72	70	71	94	3	03	29.18	30.19	07	FEW	NC	2.50	BR	68	67	67	96	5	08	29.07	30.09
10	OVC	110	4.00	HZ	77	71	73	82	3	VR	29.22	30.25	10	CLR	NC	6.00	HZ	77	69	72	77	6	06	29.09	30.10
13	BKN	065	10.00		83	71	75	67	3	06	29.22	30.24	13	FEW	NC	8.00		86	70	75	59	6	07	29.07	30.09
16	BKN	100	10.00		86	70	75	59	5	36	29.19	30.21	16	SCT	NC	8.00		88	69	75	54	6	07	29.04	30.05
19	BKN	090	10.00		79	73	75	82	3	20	29.21	30.23	19	CLR	NC	6.00	HZ	82	71	74	69	7	06	29.05	30.06
22	SCT	NC	10.00		75	73	74	94	3	25	29.26	30.29	22	CLR	NC	6.00	HZ	77	69	72	77	0	00	29.08	30.09
SUNRISE: 0554 AUG 14 SUNSET: 1928																									
01	BKN	250	10.00		73	71	72	94	0	00	29.29	30.31	01	CLR	NC	4.00	BR	74	71	72	91	0	00	29.07	30.08
04	BKN	250	8.00		72	71	71	97	3	06	29.30	30.32	04	SCT	NC	3.00	BR	70	70	71	94	5	02	29.07	30.09
07	SCT	NC	5.00	BR	72	71	71	97	3	07	29.32	30.35	07	BKN	250	2.00	BR	70	69	69	97	3	05	29.11	30.13
10	SCT	NC	10.00		83	73	76	72	8	04	29.34	30.37	10	BKN	250	4.00	HZ	79	72	74	79	0	00	29.14	30.16
13	SCT	NC	10.00		87	72	76	61	10	07	29.30	30.32	13	SCT	NC	5.00	HZ	86	72	76	63	3	VR	29.10	30.11
16	SCT	NC	10.00		90	72	77	56	0	00	29.24	30.26	16	SCT	NC	5.00	HZ	89	73	78	59	6	34	29.04	30.06
19	BKN	200	10.00		85	73	77	68	3	03	29.22	30.24	19	FEW	NC	5.00	HZ	86	73	77	65	3	02	29.03	30.05
22	SCT	NC	8.00		79	74	75	85	0	00	29.26	30.28	22	OVC	047	4.00	-TSRA	75	73	74	94	5	35	29.08	30.10
SUNRISE: 0554 AUG 15 SUNSET: 1927																									
01	BKN	110	10.00		77	73	74	88	3	24	29.26	30.28	01	OVC	085	2.00	BR	75	73	74	94	0	00	29.09	30.10
04	CLR	NC	4.00	BR	73	72	72	96	0	00	29.21	30.23	04	OVC	100	2.50	BR	74	73	73	97	3	04	29.08	30.09
07	CLR	NC	3.00	BR	74	73	73	97	3	05	29.22	30.24	07	BKN	001	1.25	BR	74	73	73	97	0	00	29.10	30.11
10	FEW	NC	7.00		83	74	77	74	6	08	29.23	30.26	10	BKN	250	4.00	HZ	80	73	75	79	0	00	29.11	30.13
13	SCT	NC	8.00		89	73	78	59	6	VR	29.20	30.21	13	SCT	NC	5.00	HZ	85	73	77	68	8	26	29.08	30.09
16	SCT	NC	7.00		90	74	78	59	6	30	29.12	30.13	16	SCT	NC	5.00	HZ	87	72	76	61	6	30	29.01	30.02
19	BKN	120	6.00	HZ	89	73	78	59	0	00	29.09	30.10	19	SCT	NC	5.00	HZ	85	72	76	65	5	26	28.99	30.01
22	OVC	065	5.00	TS BR	76	73	74	91	10	27	29.11	30.13	22	SCT	NC	7.00		77	70	72	79	5	24	29.03	30.04
SUNRISE: 0555 AUG 16 SUNSET: 1926																									
01	SCT	NC	10.00		73	70	71	90	3	17	29.08	30.09	01	SCT	NC	6.00	BR	74	70	71	88	0	00	29.01	30.03
04	SCT	NC	8.00	TS	71	70	70	96	3	24	29.05	30.07	04	FEW	NC	4.00	BR	73	70	71	90	0	00	29.02	30.03
07	SCT	NC	8.00		72	70	71	94	0	00	29.04	30.06	07	CLR	NC	3.00	BR	72	70	71	94	0	00	29.02	30.03
10	CLR	NC	8.00		80	72	74	76	0	00	29.04	30.05	10	CLR	NC	5.00	HZ	80	73	75	79	10	23	29.05	30.06
13	BKN	018	2.50	TSRA BR	76	73	74	91	8	31	29.00	30.02	13	SCT	NC	8.00		86	73	77	65	7	23	29.00	30.01
16	OVC	020	3.00	-TSRA	75	69	71	82	6	06	28.92	29.94	16	SCT	NC	9.00		88	72	77	59	5	21	28.92	29.93
19	BKN	200	8.00		78	71	73	79	6	24	28.91	29.93	19	OVC	200	7.00		86	72	76	63	0	00	28.93	29.94
22	BKN	130	7.00		77	71	73	82	3	16	28.93	29.94	22	OVC	250	10.00		76	68	71	77	5	22	28.92	29.93
SUNRISE: 0556 AUG 17 SUNSET: 1925																									
01	CLR	NC	5.00	BR	73	71	72	94	6	25	28.93	29.94	01	SCT	NC	10.00		72	68	69	87	6	31	28.94	29.96
04	SCT	NC	3.00	BR	71	70	70	96	3	22	28.92	29.94	04	SCT	NC	9.00		70	68	69	93	6	34	28.94	29.96
07	BKN	050	2.50	BR	71	70	70	96	5	25	28.94	29.96	07	SCT	NC	8.00		71	68	69	90	0	00	28.99	30.00
10	SCT	NC	4.00	HZ	80	74	76	82	6	21	28.95	29.96	10	FEW	NC	9.00		80	71	74	74	3	30	29.01	30.02
13	BKN	100	6.00	HZ	86	69	74	57	0	00	28.92	29.93	13	FEW	NC	10.00		85	71	75	63	5	VR	28.99	30.00
16	BKN	090	5.00	HZ	83	72	75	70	8	09	28.88	29.90	16	FEW	NC	9.00		89	71	76	55	0	00	28.94	29.95
19	OVC	110	6.00	TS HZ	76	71	73	85	9	32	28.92	29.93	19	FEW	NC	8.00		83	72	75	70	3	35	28.95	29.96
22	CLR	NC	3.00	BR	71	71	71	100	0	00	28.93	29.95	22	OVC	055	7.00		77	71	73	82	5	02	29.00	30.02
SUNRISE: 0557 AUG 18 SUNSET: 1923																									
01	FEW	NC	4.00	BR	71	69	70	94	0	00	28.96	29.97	01	CLR	NC	5.00	BR	74	70	71	88	8	03	29.02	30.03
04	BKN	001	0.25	FG	68	68	68	100	0	00	28.95	29.96	04	CLR	NC	4.00	BR	71	68	69	90	7	03	29.00	30.01
07	OVC	001	0.25	FG	66	66	66	100	3	06	29.00	30.01	07	CLR	NC	3.00	BR	69	67	68	93	5	07	29.05	30.07
10	BKN	003	3.00	BR	72	69	70	91	3	VR	29.04	30.06	10	CLR	NC	5.00	HZ	78	69	72	74	6	01	29.07	30.08
13	FEW	NC	8.00		84	70	74	63	0	00	29.02	30.04	13	FEW	NC	6.00	HZ	84	70	74	63	7	VR	29.05	30.07
16	FEW	NC	9.00		87	68	74	53	3	VR	28.98	30.00	16	FEW	NC	8.00		87	69	75	55	7	VR	29.01	30.02
19	SCT	NC	7.00		81	71	74	72	5	05	28.99	30.01	19	CLR	NC	8.00		83	69	73	63	6	36	29.01	30.03
22	CLR	NC	7.00		77	70	72	79	7	01	29.03	30.05	22	CLR	NC	6.00	BR	74	70	71	88	0	00	29.04	30.06

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

AUGUST 2003

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING		OBSERVATION TIME (LST)	EFF CLD AMT Ok/as			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
SUNRISE: 0602								AUG 25								SUNSET: 1915																	
01	CLR	NC			4.00	BR		72	69	70	91	0	00	29.04	30.06	01	OVC	090			10.00			76	72	73	88	5	28	29.15	30.16		
04	CLR	NC			4.00	BR		69	68	68	96	0	00	29.06	30.07	04	SCT	NC			7.00			72	71	71	97	0	00	29.14	30.15		
07	CLR	NC			2.50	BR		69	68	68	96	0	00	29.10	30.11	07	BKN	055			7.00			73	72	72	96	3	36	29.17	30.18		
10	SCT	NC			4.00	HZ		78	73	75	85	7	VR	29.13	30.14	10	SCT	NC			10.00			81	71	74	72	5	22	29.19	30.20		
13	SCT	NC			5.00	HZ		84	72	76	67	8	29	29.09	30.11	13	SCT	NC			10.00			85	73	77	68	5	29	29.14	30.15		
16	FEW	NC			6.00	HZ		88	70	75	55	8	35	29.04	30.06	16	BKN	040			10.00			83	73	76	72	6	13	29.08	30.10		
19	CLR	NC			6.00	HZ		83	70	74	65	3	20	29.03	30.05	19	BKN	035			6.00	-TSRA	BR	72	70	71	94	0	00	29.14	30.16		
22	CLR	NC			4.00	BR		77	73	74	88	0	00	29.07	30.09	22	OVC	150			9.00			72	71	71	97	5	03	29.18	30.19		
SUNRISE: 0603								AUG 26								SUNSET: 1913																	
01	CLR	NC			4.00	BR		75	71	72	88	0	00	29.05	30.06	01	CLR	NC															
04	CLR	NC			3.00	BR		71	70	70	96	0	00	29.06	30.07	04	SCT	NC															
07	SCT	NC			1.50	BR		72	71	71	97	0	00	29.08	30.09	07	CLR	NC															
10	CLR	NC			4.00	HZ		82	72	75	72	0	00	29.08	30.09	10	CLR	NC															
13	FEW	NC			5.00	HZ		88	75	79	66	8	25	29.04	30.05	13	SCT	NC															
16	SCT	NC			6.00	HZ		91	72	77	54	3	VR	28.99	30.00	16	SCT	NC															
19	FEW	NC			5.00	HZ		86	74	77	67	5	28	28.96	29.97	19	FEW	NC															
22	CLR	NC			4.00	HZ		80	75	77	85	7	25	29.01	30.02	22	CLR	NC															
SUNRISE: 0604								AUG 27								SUNSET: 1912																	
01	CLR	NC			5.00	BR		77	73	74	88	0	00	29.02	30.02	01	CLR	NC															
04	CLR	NC			4.00	BR		74	73	73	97	0	00	29.00	30.01	04	SCT	NC															
07	SCT	NC			4.00	BR		75	71	72	88	0	00	29.04	30.05	07	SCT	NC															
10	SCT	NC			5.00	HZ		84	73	76	70	8	24	29.05	30.06	10	SCT	NC															
13	SCT	NC			5.00	HZ		88	72	77	59	7	27	29.01	30.02	13	SCT	NC															
16	SCT	NC			4.00	HZ		90	70	76	52	7	27	28.95	29.96	16	SCT	NC															
19	BKN	200			3.00	HZ		85	73	77	68	3	28	28.95	29.96	19	BKN	200															
22	FEW	NC			4.00	HZ		79	73	75	82	5	21	28.99	30.00	22	FEW	NC															
SUNRISE: 0604								AUG 28								SUNSET: 1911																	
01	BKN	250			3.00	BR		77	73	74	88	6	28	29.04	30.04	01	BKN	250															
04	SCT	NC			3.00	BR		75	73	74	94	8	21	29.03	30.04	04	SCT	NC															
07	SCT	NC			2.00	BR		74	72	73	94	3	32	29.06	30.08	07	SCT	NC															
10	SCT	NC			3.00	HZ		81	74	76	79	3	13	29.11	30.12	10	SCT	NC															
13	BKN	250			4.00	HZ		86	74	77	67	5	33	29.07	30.07	13	BKN	250															
16	OVC	019			4.00	-RA BR		74	70	71	88	10	22	29.07	30.09	16	OVC	019															
19	BKN	200			4.00	BR		75	72	73	90	5	13	29.02	30.04	19	BKN	200															
22	SCT	NC			2.50	BR		73	72	72	96	0	00	29.08	30.09	22	SCT	NC															
SUNRISE: 0605								AUG 29								SUNSET: 1909																	
01	SCT	NC			2.00	BR		71	70	70	96	0	00	29.07	30.08	01	SCT	NC															
04	BKN	001			0.50	FG		69	69	69	100	0	00	29.07	30.09	04	BKN	001															
07	BKN	250			2.00	BR		71	70	70	96	0	00	29.12	30.14	07	BKN	250															
10	BKN	035			4.00	HZ		78	73	75	85	3	VR	29.14	30.16	10	BKN	035															
13	SCT	NC			7.00			87	73	77	63	8	22	29.08	30.10	13	SCT	NC															
16	SCT	NC			8.00			89	71	76	55	9	25	29.03	30.04	16	SCT	NC															
19	BKN	200			10.00			83	73	76	72	6	23	29.03	30.05	19	BKN	200															
22	FEW	NC			7.00			78	73	75	85	8	24	29.09	30.10	22	FEW	NC															
SUNRISE: 0606								AUG 30								SUNSET: 1908																	
01	BKN	060			10.00			76	70	72	82	6	29	29.10	30.11	01	BKN	060															
04	OVC	041			10.00			75	70	72	84	5	28	29.11	30.12	04	OVC	041															
07	SCT	NC			9.00			74	71	72	91	0	00	29.14	30.15	07	SCT	NC															
10	SCT	NC			10.00			80	71	74	74	16	23	29.17	30.19	10	SCT	NC															
13	CLR	NC			10.00			83	73	76	72	12	26	29.14	30.15	13	CLR	NC															
16	BKN	047			10.00			87	71	76	59	9	23	29.09	30.10	16	BKN	047															
19	SCT	NC			10.00			83	72	75	70	7	24	29.10	30.11	19	SCT	NC															
22	SCT	NC			10.00			77	72	74	85	8	21	29.14	30.16	22	SCT	NC															

3-HOURLY OBSERVATION NOTES

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.

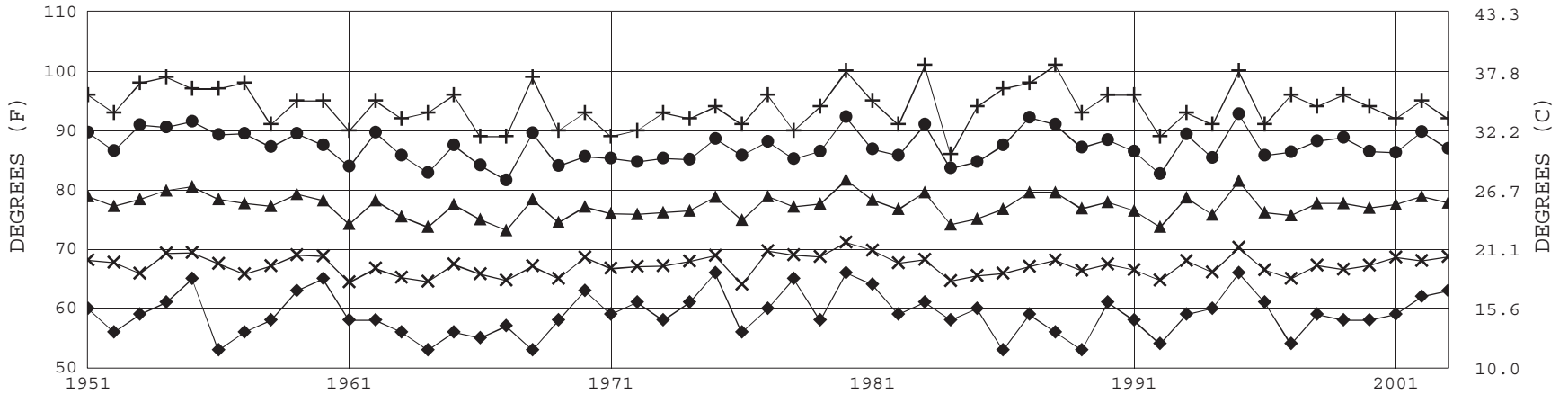
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES											RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	DIRECTION	SPEED	DIRECTION
							STATION	SEA LEVEL					
01			72	70	70	92	29.01	30.02	5.92	3	1	25	
02			71	70	70	94	29.00	30.01	5.60	3	1	27	
03			71	69	70	95	29.00	30.01	5.10	3	1	30	
04			70	69	69	95	29.00	30.02	5.33	3	1	28	
05			70	68	69	96	29.01	30.02	4.83	3	0	0	
06			69	68	69	96	29.02	30.03	4.16	2	0	0	
07			70	69	69	96	29.03	30.05	3.88	2	1	6	
08			72	69	70	92	29.04	30.06	4.81	3	0	0	
09			74	70	72	88	29.05	30.06	5.49	3	1	23	
10			78	71	73	80	29.05	30.07	6.32	4	1	23	

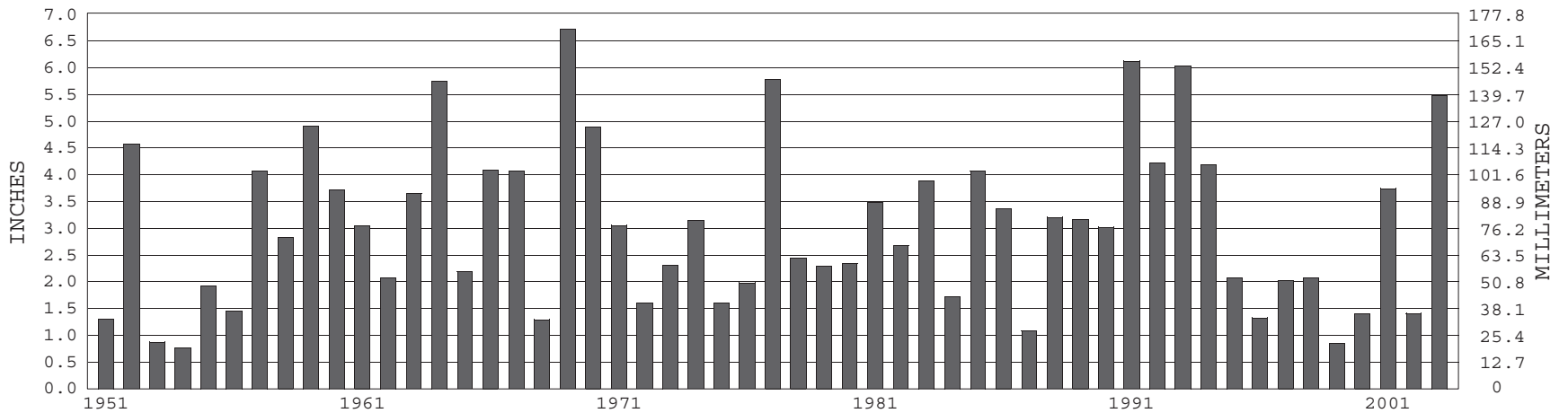
KNOXVILLE, TN AUGUST TEMPERATURES



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

Long-Term (1951-2003) Mean: 77.3 1961-1990 Normal: 76.9

KNOXVILLE, TN AUGUST PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.04

1961-1990 Normal: 2.89



AUGUST 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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