



SEPTEMBER 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

SEPTEMBER 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	87	71	79*	5	71	73	0	14	RA BR				0.33	29.12	30.14	2.0	21	4.7	25	16	21	15	01																															
02	87*	67	77	3	70	72	0	12	BR				0.00	29.06	30.08	2.8	25	4.0	15	26	13	26	02																															
03	85	70	78	4	71	72	0	13	TS TSRA RA DZ BR HZ				0.66	28.99	30.00	0.6	28	4.3	18	01	16	22	03																															
04	84	69	77	3	69	71	0	12	TSRA RA BR				0.68	28.90	29.91	3.4	36	5.0	17	01	12	02	04																															
05	81	63	72	-2	61	65	0	7					0.00	28.97	29.99	7.9	04	8.4	20	06	16	05	05																															
06	83	61	72	-2	63	66	0	7	BR				0.00	29.00	30.02	4.9	02	5.6	13	03	12	02	06																															
07	73	64	69	-5	65	66	0	4	RA BR HZ				0.09	28.99	30.01	1.4	31	3.6	9	21	8	21	07																															
08	79	63	71	-3	63	66	0	6	FG+ BR HZ				0.00	29.00	30.02	1.0	36	3.4	12	16	9	16	08																															
09	82	63	73	0	64	67	0	8	BR				0.00	29.06	30.09	0.5	08	3.6	14	09	10	05	09																															
10	82	61	72	-1	63	65	0	7	BR HZ				0.00	29.12	30.14	3.7	04	4.4	14	10	12	06	10																															
11	81	60	71	-2	63	65	0	6	BR HZ				0.00	29.08	30.11	1.0	04	2.2	10	06	8	04	11																															
12	81	62	72	-1	62	65	0	7	BR HZ				0.00	29.02	30.04	2.6	04	3.9	13	05	9	08	12																															
13	83	60	72	0	64	66	0	7	BR HZ				0.00	29.04	30.06	1.3	36	2.2	12	30	9	29	13																															
14	77	63	70	-2	66	68	0	5	RA BR HZ				0.02	29.05	30.07	0.4	31	3.2	14	21	13	21	14																															
15	78	59	69	-2	62	65	0	4	TS RA BR				0.35	29.06	30.09	2.8	32	5.9	17	25	14	26	15																															
16	79	56	68	-3	56	61	0	3					0.00	29.10	30.13	8.9	04	9.3	22	06	18	07	16																															
17	82	58	70	-1	58	62	0	5					0.00	29.09	30.11	5.8	04	6.3	16	08	14	08	17																															
18	81	55	68	-2	57	61	0	3					0.00	28.95	29.97	4.4	01	5.7	16	01	13	03	18																															
19	81	58	70	0	60	64	0	5					0.00	28.96	29.98	5.2	23	6.1	16	23	15	24	19																															
20	85	61	73	3	65	68	0	8	BR HZ				0.00	29.09	30.11	1.4	35	2.5	16	34	9	36	20																															
21	83	63	73	3	64	67	0	8	RA FG+ BR HZ				T	29.09	30.11	1.3	07	3.0	12	13	10	20	21																															
22	73	60	67	-2	65	66	0	2	RA DZ FG+ BR				2.19	28.90	29.92	1.8	19	5.3	29	27	23	27	22																															
23	76	57	67	-1	59	62	0	2	FG+ BR				0.00	28.99	30.02	3.4	25	4.7	20	25	15	25	23																															
24	79	51	65	-3	58	61	0	0	FG+ BR				0.00	29.03	30.06	1.0	30	3.5	12	24	10	24	24																															
25	81	57	69	1	61	64	0	4	BR HZ				0.00	28.99	30.01	3.0	24	4.5	20	25	17	24	25																															
26	82	57	70	3	62	65	0	5	BR HZ				0.00	28.89	29.91	2.1	21	4.6	14	21	10	20	26																															
27	80	57	69	2	62	63	0	4	TS TSRA RA BR HZ				0.82	28.83	29.84	4.4	24	5.5	37*	29	30*	29	27																															
28	67	48	58	-8	48	53	7	0	FG+ BR				0.00	28.92	29.95	5.7	28	6.9	24	28	20	28	28																															
29	64	42	53*	-13	42	48	12	0					0.00	29.13	30.18	1.1	36	3.4	12	07	8	03	29																															
30	68	41*	55	-10	43	49	10	0					0.00	29.23	30.28	0.8	03	2.4	16	03	13	03	30																															
< MONTHLY AVERAGES											TOTALS-->				5.14	29.02	30.04	1.1	35	4.6	<-- MONTHLY AVERAGES																																	
-1.2											-1.6		-1.4		<-----DEPARTURE FROM NORMAL----->											2.10		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																										
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 2.19 DATE: 22											SEA LEVEL PRESSURE DATE TIME																																
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL: DATE:											MAXIMUM : 30.36 30 0853																																
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH: DATE:											MINIMUM : 29.77 27 1253																																
HEATING: 29 7 29 7											NUMBER OF DAYS WITH =>											MAXIMUM TEMP ≥ 90: 0											MINIMUM TEMP ≤ 32: 0											PRECIPITATION ≥ 0.01 INCH: 8										
COOLING: 168 -37 1273 -146																						MAXIMUM TEMP ≤ 32: 0											MINIMUM TEMP ≤ 0: 0											PRECIPITATION ≥ 0.10 INCH: 6										
																						THUNDERSTORMS: 4											HEAVY FOG: 6											SNOWFALL ≥ 1.0 INCH: :										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

SEPTEMBER 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			0.32	0.01								01		0.33		
02													02												02		0.00		
03													03		T	0.12	0.22	0.04	0.06	0.06	0.09	0.01	T	0.01	0.05	03	0.65	0.66	
04	0.04	T		T		0.01	0.12	0.44	0.01	0.03	T		04											04		0.68			
05													05											05		0.00			
06													06											06		0.00			
07													07			0.02	0.04	0.01	0.01	T		T	0.01	T	T	07	0.09		
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	0.01					T	T	0.01	14	0.02			
15	0.07	0.23	0.05	T	T								15											15		0.35			
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		T			
22	T	0.03	0.02	0.01	0.06	0.01	0.01	0.08	0.03	0.02	0.04	0.03	22	0.49	0.99	0.29	0.07	T	0.01				T	22		2.19			
23													23											23		0.00			
24													24											24		0.00			
25													25											25		0.00			
26													26											26		0.00			
27													27		0.17	0.26	0.01			0.01	T	T		27		0.82			
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)	.25	.34	.48	.61	.86	1.19	1.36	1.43	1.49	1.62	1.75	1.79
Ending Date	01	22	22	22	22	22	22	22	22	22	22	22
Ending Time (Hour/Min)	1448	1312	1311	1318	1309	1322	1334	1356	1416	1436	1455	1529

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 SEPTEMBER 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							.75	10.00	
02							3.00	10.00	
03							.75	10.00	
04							1.00	10.00	
05							8.00	10.00	
06							5.00	10.00	
07							1.00	6.00	
08							.25	10.00	
09							2.50	10.00	
10							1.75	10.00	
11							3.00	7.00	
12							4.00	10.00	
13							1.00	10.00	
14							1.75	10.00	
15							1.50	10.00	
16							10.00	10.00	
17							8.00	10.00	
18							7.00	10.00	
19							7.00	10.00	
20							2.50	9.00	
21							.06	10.00	
22							.25	10.00	
23							.25	10.00	
24							<.25	10.00	
25							3.00	10.00	
26							1.00	10.00	
27							1.00	10.00	
28							.13	10.00	
29							10.00	10.00	
30							7.00	10.00	
MONTHLY AVGS							3.26	9.73	
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									
6 21 7									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

SEPTEMBER 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
SUNRISE: 0608					SEP 01	SUNSET: 1905					SUNRISE: 0612					SEP 07	SUNSET: 1855												
01	SCT	NC	6.00	BR	71	70	70	96	5	09	29.16	30.18	01	FEW	NC	6.00	BR	68	65	66	90	3	36	28.99	30.01				
04	OVC	002	3.00	BR	71	71	71	100	3	35	29.13	30.15	04	OVC	NC	4.00	BR	66	64	65	93	0	00	28.98	29.99				
07	OVC	002	1.50	BR	71	70	70	96	0	00	29.16	30.18	07	SCT	016	1.25	BR	65	64	64	97	3	07	29.00	30.02				
10	SCT	NC	10.00		78	72	74	82	0	00	29.19	30.20	10	OVC	009	2.00	BR	69	66	67	90	3	02	29.02	30.04				
13	BKN	250	10.00		87	72	76	61	12	20	29.12	30.13	13	OVC	019	4.00	HZ	73	67	69	81	6	35	29.00	30.02				
16	BKN	042	7.00		82	72	75	72	8	17	29.07	30.08	16	BKN	016	1.75	-RA BR	70	68	69	93	6	28	28.98	30.01				
19	BKN	200	10.00		80	71	74	74	6	23	29.06	30.07	19	OVC	130	2.50	BR	68	66	67	93	0	00	28.98	30.00				
22	SCT	NC	9.00		77	71	73	82	0	00	29.10	30.12	22	OVC	100	5.00	-RA BR	65	63	64	93	3	22	28.99	30.02				
SUNRISE: 0608					SEP 02	SUNSET: 1904					SUNRISE: 0613					SEP 08	SUNSET: 1854												
01	CLR	NC	7.00		71	69	70	94	5	05	29.10	30.11	01	OVC	060	4.00	BR	64	63	63	96	3	05	28.99	30.01				
04	CLR	NC	6.00	BR	70	69	69	97	3	34	29.07	30.09	04	OVC	070	4.00	BR	65	63	64	93	0	00	28.98	30.01				
07	BKN	250	3.00	BR	69	68	68	96	3	05	29.10	30.12	07	SCT	NC	0.25	FG	64	63	63	96	3	34	29.01	30.03				
10	BKN	250	8.00		78	70	73	76	5	26	29.11	30.13	10	SCT	NC	7.00		73	62	66	69	3	34	29.03	30.05				
13	BKN	250	8.00		84	70	74	63	9	27	29.06	30.08	13	BKN	060	9.00		75	62	67	64	0	00	29.01	30.03				
16	BKN	200	10.00		87	68	74	53	10	25	29.01	30.02	16	SCT	NC	10.00		78	62	68	58	3	VR	28.97	29.99				
19	BKN	250	9.00		81	69	73	67	5	24	29.01	30.02	19	OVC	110	9.00		73	65	68	76	7	32	28.99	30.01				
22	BKN	250	6.00	BR	76	72	73	88	0	00	29.04	30.06	22	OVC	080	8.00		70	65	67	84	3	32	29.01	30.03				
SUNRISE: 0609					SEP 03	SUNSET: 1902					SUNRISE: 0614					SEP 09	SUNSET: 1852												
01	BKN	045	6.00	BR	73	71	72	94	3	22	29.03	30.04	01	BKN	110	8.00		67	65	66	93	0	00	29.02	30.04				
04	BKN	150	5.00	BR	72	71	71	97	0	00	29.00	30.01	04	BKN	110	4.00	BR	64	64	64	100	3	15	29.03	30.05				
07	BKN	150	3.00	BR	73	70	71	90	0	00	29.02	30.03	07	SCT	NC	3.00	BR	64	63	63	96	0	00	29.07	30.10				
10	BKN	120	7.00		80	72	74	76	3	VR	29.02	30.04	10	SCT	NC	9.00		71	65	67	81	5	VR	29.11	30.13				
13	BKN	080	10.00		84	72	76	67	8	24	28.98	29.99	13	SCT	NC	10.00		79	65	70	62	0	00	29.08	30.10				
16	OVC	023	3.00	-RA BR	72	72	72	100	7	09	28.95	29.97	16	BKN	080	10.00		82	63	70	53	6	VR	29.04	30.06				
19	OVC	023	3.00	-RA BR	72	72	72	100	7	28	28.96	29.98	19	SCT	NC	10.00		76	63	68	64	6	13	29.05	30.08				
22	BKN	080	6.00	-RA BR	72	71	71	97	3	05	28.94	29.96	22	FEW	NC	8.00		68	65	66	90	3	06	29.08	30.11				
SUNRISE: 0610					SEP 04	SUNSET: 1859					SUNRISE: 0614					SEP 10	SUNSET: 1851												
01	BKN	027	3.00	-RA BR	72	71	71	97	0	00	28.91	29.93	01	BKN	055	4.00	BR	63	63	63	100	3	03	29.09	30.11				
04	OVC	110	6.00	BR	71	70	70	96	0	00	28.87	29.88	04	BKN	060	5.00	BR	64	62	63	93	5	36	29.09	30.11				
07	BKN	031	1.75	+RA BR	71	70	70	96	5	25	28.88	29.90	07	BKN	250	4.00	BR	62	61	61	96	3	06	29.15	30.18				
10	OVC	014	1.25	-RA BR	72	71	71	97	7	24	28.91	29.93	10	SCT	NC	6.00	HZ	70	62	65	76	0	00	29.19	30.21				
13	BKN	250	10.00		80	69	73	69	12	01	28.90	29.91	13	SCT	NC	9.00		78	64	69	62	3	VR	29.14	30.16				
16	SCT	NC	10.00		83	65	71	55	6	02	28.87	29.88	16	SCT	NC	10.00		79	63	69	58	6	05	29.08	30.10				
19	BKN	090	10.00		77	66	70	69	6	03	28.89	29.90	19	FEW	NC	10.00		75	62	67	64	5	04	29.09	30.11				
22	CLR	NC	10.00		73	65	68	76	8	35	28.92	29.94	22	CLR	NC	7.00		69	62	65	78	0	00	29.12	30.14				
SUNRISE: 0611					SEP 05	SUNSET: 1858					SUNRISE: 0615					SEP 11	SUNSET: 1849												
01	BKN	047	10.00		69	63	65	81	5	02	28.95	29.97	01	CLR	NC	4.00	BR	63	62	62	97	0	00	29.11	30.13				
04	FEW	NC	10.00		66	62	64	87	8	02	28.94	29.96	04	CLR	NC	5.00	BR	62	61	61	96	0	00	29.10	30.12				
07	CLR	NC	8.00		64	61	62	90	8	03	28.99	30.01	07	CLR	NC	3.00	BR	61	60	60	97	0	00	29.14	30.16				
10	FEW	NC	10.00		72	61	65	69	13	05	29.00	30.02	10	BKN	050	6.00	HZ	69	64	66	84	0	00	29.17	30.20				
13	SCT	NC	10.00		78	62	68	58	8	07	28.98	30.00	13	BKN	042	7.00		76	65	69	69	0	00	29.11	30.13				
16	SCT	NC	10.00		80	61	68	52	8	06	28.93	29.96	16	FEW	NC	7.00		80	63	69	56	5	06	29.03	30.05				
19	SCT	NC	10.00		74	61	66	64	8	02	28.94	29.96	19	CLR	NC	6.00	HZ	75	64	68	69	3	06	29.01	30.03				
22	SCT	NC	10.00		68	59	63	73	9	03	28.99	30.01	22	CLR	NC	3.00	BR	67	65	66	93	3	05	29.02	30.04				
SUNRISE: 0611					SEP 06	SUNSET: 1857					SUNRISE: 0616					SEP 12	SUNSET: 1848												
01	OVC	250	10.00		65	59	61	81	8	03	28.99	30.01	01	BKN	110	4.00	BR	64	63	63	96	3	03	29.02	30.05				
04	OVC	150	10.00		63	58	60	84	6	03	28.97	29.99	04	OVC	065	6.00	BR	65	62	63	90	5	03	29.02	30.03				
07	FEW	NC	9.00		62	59	60	90	6	03	29.01	30.04	07	FEW	NC	5.00	BR	63	60	61	90	3	36	29.04	30.06				
10	BKN	250	10.00		71	62	65	73	0	00	29.04	30.06	10	CLR	NC	10.00		71	60	64	68	3	35	29.07	30.09				
13	SCT	NC	10.00		78	65	70	64	7	34	29.01	30.03	13	SCT	NC	10.00		77	62	68	60	5	06	29.04	30.06				
16	BKN	050	8.00		82	66	71	58	9	32	28.97	29.99	16	FEW	NC	10.00		80	63	69	56	3	VR	28.98	30.00				
19	BKN	250	7.00		75	67	70	76	6	05	28.97	30.00	19	FEW	NC	8.00		74	63	67	69	5	10	28.97	29.99				
22	BKN	250	6.00	BR	70	66	67	87	5	05	28.99	30.01	22	CLR	NC	5.00	BR	68	65	66	90	0	00	29.02	30.04				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

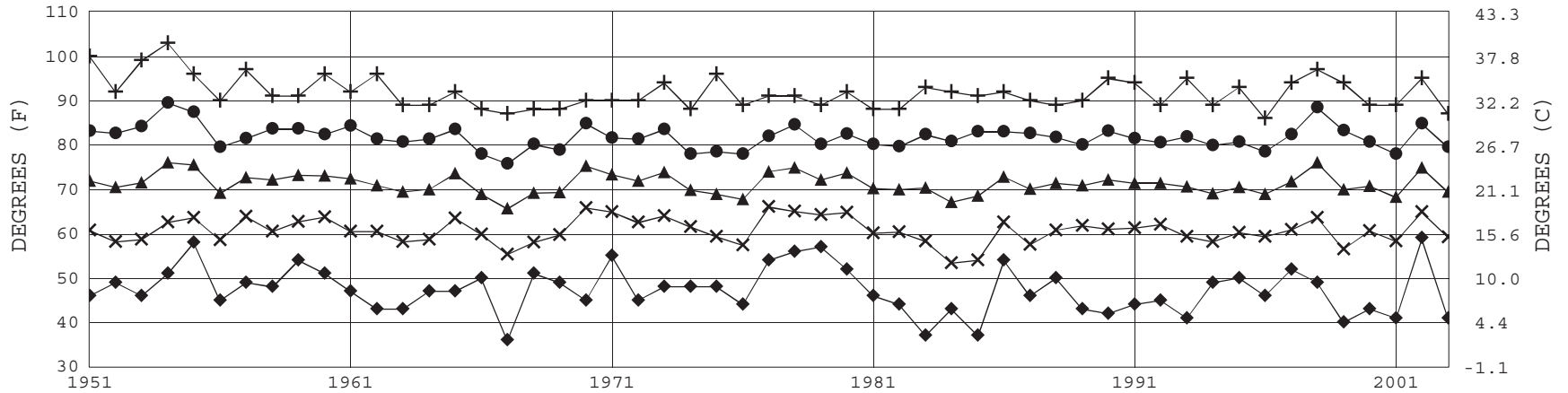
SEPTEMBER 2003

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
SUNRISE: 0617					SEP 13				SUNSET: 1846				SUNRISE: 0621					SEP 19				SUNSET: 1838							
01	CLR	NC		5.00	BR	65	63	64	93	0	00	29.02	30.04	01	SCT	NC		10.00		61	58	59	90	7	22	28.83	29.84		
04	CLR	NC		2.50	BR	62	61	61	96	3	05	29.02	30.03	04	CLR	NC		9.00		59	57	58	93	6	22	28.84	29.85		
07	FEW	NC		1.00	BR	62	61	61	96	0	00	29.06	30.08	07	CLR	NC		9.00		60	57	58	90	9	24	28.92	29.95		
10	FEW	NC		5.00	HZ	71	65	67	81	0	00	29.09	30.12	10	CLR	NC		10.00		73	61	66	66	10	24	28.99	30.01		
13	FEW	NC		10.00		80	65	70	60	8	29	29.06	30.08	13	FEW	NC		10.00		78	60	67	54	5	23	28.99	30.02		
16	FEW	NC		10.00		82	63	70	53	0	00	28.99	30.01	16	FEW	NC		10.00		81	62	69	53	10	27	28.97	29.99		
19	FEW	NC		10.00		77	64	69	64	0	00	29.01	30.03	19	CLR	NC		10.00		76	62	67	62	6	19	28.99	30.02		
22	CLR	NC		7.00		69	65	66	87	3	06	29.04	30.06	22	CLR	NC		8.00		70	62	65	76	5	07	29.04	30.06		
SUNRISE: 0617					SEP 14				SUNSET: 1845				SUNRISE: 0622					SEP 20				SUNSET: 1836							
01	CLR	NC		6.00	BR	67	64	65	91	0	00	29.04	30.06	01	CLR	NC		5.00	BR	67	64	65	91	6	32	29.06	30.08		
04	SCT	NC		3.00	BR	64	63	63	96	0	00	29.03	30.05	04	CLR	NC		3.00	BR	63	62	62	97	0	00	29.07	30.09		
07	BKN	130		2.50	BR	64	64	64	100	0	00	29.07	30.09	07	CLR	NC		2.50	BR	62	61	61	96	0	00	29.11	30.13		
10	OVC	150		6.00	HZ	71	66	68	84	3	32	29.09	30.11	10	CLR	NC		5.00	HZ	72	64	67	76	3	VR	29.14	30.16		
13	OVC	070		10.00		76	67	70	74	0	00	29.05	30.07	13	FEW	NC		7.00		81	65	70	58	3	32	29.09	30.11		
16	BKN	060		9.00		73	69	70	87	0	00	29.02	30.04	16	SCT	NC		8.00		84	67	73	57	6	31	29.05	30.07		
19	SCT	NC		10.00		74	67	69	79	3	05	29.02	30.04	19	FEW	NC		9.00		80	64	70	58	0	00	29.06	30.09		
22	OVC	050		8.00	-RA	71	68	69	90	0	00	29.05	30.07	22	BKN	055		6.00	HZ	73	68	70	84	3	02	29.10	30.13		
SUNRISE: 0618					SEP 15				SUNSET: 1844				SUNRISE: 0623					SEP 21				SUNSET: 1835							
01	OVC	037		6.00	-RA BR	67	66	66	97	10	25	29.04	30.06	01	BKN	065		4.00	BR	70	68	69	93	0	00	29.12	30.13		
04	OVC	033		7.00	-RA	67	67	67	100	5	15	29.02	30.05	04	VV	001		0.25	FG	65	65	65	100	3	03	29.11	30.13		
07	OVC	019		4.00	BR	67	67	67	100	0	00	29.05	30.07	07	VV	001		0.06	FG	64	64	64	100	3	09	29.16	30.18		
10	OVC	007		7.00		69	67	68	93	6	28	29.09	30.11	10	BKN	200		5.00	HZ	72	66	68	82	3	04	29.17	30.19		
13	BKN	070		10.00		74	61	66	64	8	33	29.10	30.12	13	BKN	250		10.00		81	62	69	53	0	00	29.11	30.12		
16	SCT	NC		10.00		76	59	65	56	6	02	29.04	30.06	16	OVC	250		10.00		82	59	67	46	7	18	29.05	30.07		
19	SCT	NC		10.00		70	56	62	61	7	36	29.05	30.07	19	OVC	250		10.00		77	62	68	60	6	14	29.04	30.06		
22	FEW	NC		10.00		64	57	60	78	3	09	29.09	30.12	22	OVC	200		10.00		74	60	65	62	0	00	29.04	30.06		
SUNRISE: 0619					SEP 16				SUNSET: 1842				SUNRISE: 0624					SEP 22				SUNSET: 1833							
01	CLR	NC		10.00		61	55	58	81	8	03	29.09	30.12	01	BKN	120		6.00	-RA BR	69	65	66	87	3	03	28.98	29.99		
04	CLR	NC		10.00		59	55	57	87	9	02	29.09	30.12	04	OVC	070		4.00	DZ BR	66	65	65	96	7	08	28.91	29.93		
07	FEW	NC		10.00		57	54	55	90	5	04	29.13	30.16	07	OVC	050		3.00	-RA BR	67	66	66	97	7	08	28.88	29.90		
10	SCT	NC		10.00		70	57	62	64	14	04	29.16	30.19	10	BKN	075		10.00	-RA	70	67	68	90	3	VR	28.84	29.85		
13	SCT	NC		10.00		76	56	64	50	15	05	29.12	30.15	13	OVC	007		1.00	+RA BR	67	67	67	100	14	28	28.83	29.85		
16	FEW	NC		10.00		78	56	65	47	9	04	29.07	30.09	16	OVC	027		3.00	-RA BR	66	66	66	100	8	18	28.87	29.90		
19	CLR	NC		10.00		71	56	62	59	7	03	29.05	30.08	19	OVC	005		10.00		66	65	65	96	6	22	28.91	29.93		
22	BKN	065		10.00		67	56	60	68	8	03	29.08	30.10	22	BKN	002		0.50	FG	61	61	61	100	0	00	28.94	29.97		
SUNRISE: 0620					SEP 17				SUNSET: 1841				SUNRISE: 0624					SEP 23				SUNSET: 1832							
01	FEW	NC		10.00		63	55	58	76	8	02	29.09	30.11	01	VV	001		0.25	FG	61	61	61	100	3	16	28.94	29.97		
04	BKN	070		10.00		59	56	57	90	3	02	29.10	30.12	04	VV	001		0.25	FG	61	61	61	100	3	22	28.95	29.98		
07	BKN	250		8.00		59	56	57	90	5	05	29.14	30.17	07	VV	001		0.25	FG	60	60	60	100	5	22	28.99	30.02		
10	SCT	NC		10.00		68	60	63	76	6	04	29.15	30.18	10	OVC	011		8.00		65	63	64	93	7	24	29.02	30.05		
13	FEW	NC		10.00		77	63	68	62	6	02	29.11	30.13	13	SCT	NC		10.00		71	62	65	73	7	25	29.01	30.03		
16	SCT	NC		10.00		81	59	67	47	9	07	29.04	30.06	16	FEW	NC		10.00		74	56	63	54	7	27	28.96	29.98		
19	CLR	NC		10.00		71	56	62	59	8	05	29.04	30.06	19	SCT	NC		10.00		69	54	60	59	6	31	28.98	30.01		
22	CLR	NC		10.00		66	54	59	65	6	04	29.06	30.08	22	CLR	NC		10.00		61	57	59	87	0	00	29.04	30.07		
SUNRISE: 0621					SEP 18				SUNSET: 1839				SUNRISE: 0625					SEP 24				SUNSET: 1830							
01	CLR	NC		10.00		61	56	58	84	7	02	29.03	30.06	01	CLR	NC		7.00		57	56	56	96	0	00	29.05	30.07		
04	CLR	NC		10.00		57	55	56	93	5	05	29.03	30.05	04	CLR	NC		6.00	BR	55	54	54	96	3	34	29.03	30.06		
07	FEW	NC		7.00		57	55	56	93	5	04	29.06	30.09	07	SCT	NC		0.50	FG	51	51	51	100	5	06	29.07	30.11		
10	SCT	NC		10.00		67	58	62	73	6	VR	29.05	30.07	10	SCT	NC		9.00		62	58	60	86	5	01	29.07	30.11		
13	SCT	NC		10.00		77	59	66	54	7	03	28.96	29.98	13	SCT	NC		10.00		74	59	65	60	0	00	29.05	30.07		
16	FEW	NC		10.00		80	56	65	44	8	34	28.87	29.89	16	FEW	NC		7.00		78	60	67	54	0	00	28.98	30.01		
19	SCT	NC		10.00		74	56	63	54	7	35	28.84	29.86	19	FEW	NC		10.00		74	60	65	62	0	00	28.98	30.01		
22	BKN	250		10.00		69	58	62	68	3	31	28.84	29.85	22	CLR	NC		10.00		67	62	64	84	9	24	29.00	30.03		

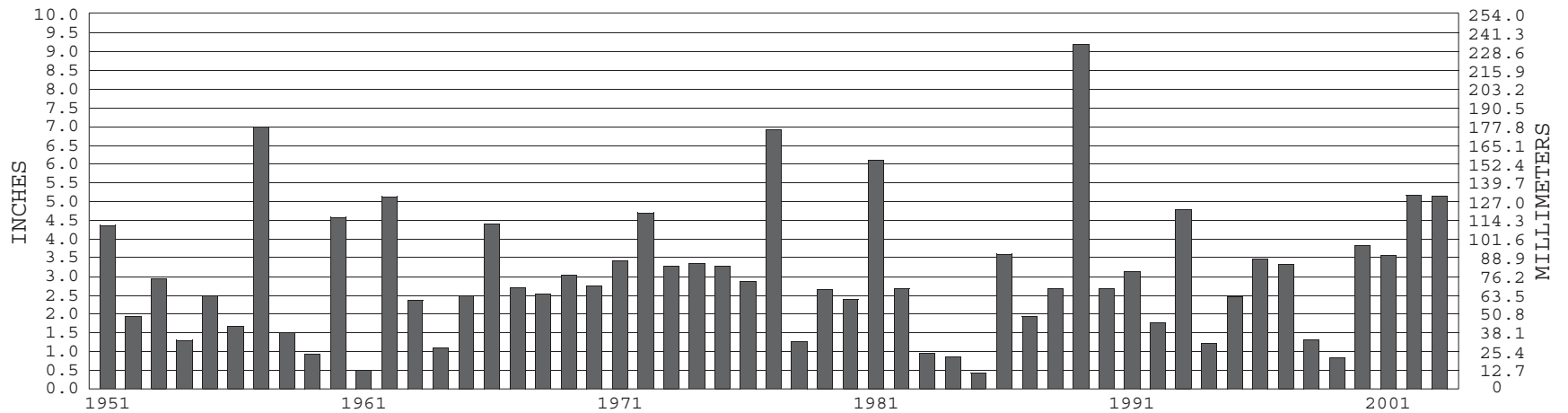
KNOXVILLE, TN SEPTEMBER TEMPERATURES



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

Long-Term (1951-2003) Mean: 71.2 1961-1990 Normal: 70.8

KNOXVILLE, TN SEPTEMBER PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.03

1961-1990 Normal: 3.04



SEPTEMBER 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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