



MAY 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

MAY 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						
01	82	59	71	9	60	63	0	6	RA BR				0.06	28.90	29.91	4.4	26	7.0	39	28	30	28	01						
02	75	57	66	4	60	62	0	1	TSRA RA BCFG BR VCTS				0.10	28.87	29.89	3.4	24	5.6	35	31	29	31	02						
03	75	57	66	4	58	61	0	1	BR				0.00	28.94	29.96	3.8	27	5.9	17	26	13	29	03						
04	77	50	64	2	51	56	1	0	BR HZ				0.00	28.95	29.97	3.1	02	4.6	14	02	12	04	04						
05	72	61	67	4	61	63	0	2	TSRA RA BR VCTS				3.04	28.82	29.84	7.9	20	11.0	32	16	28	19	05						
06	72	61	67	4	63	64	0	2	TSRA RA BR				1.73	28.90	29.92	5.7	21	8.1	37	14	30	13	06						
07	70	62	66	3	64	65	0	1	TS TSRA RA BR				1.08	28.94	29.96	2.6	25	7.6	22	24	17	32	07						
08	82	63	73	10	68	69	0	8	BCFG BR HZ				0.00	28.96	29.98	7.1	24	7.6	22	25	18	24	08						
09	84	66	75	11	69	71	0	10	BR				0.00	28.94	29.95	10.6	23	11.4	29	25	24	22	09						
10	85*	69	77*	13	68	71	0	12	BR				0.00	28.87	29.88	11.0	23	11.4	31	23	26	23	10						
11	76	61	69	5	63	66	0	4	TSRA RA BR				0.45	28.82	29.83	14.5	23	15.0	54*	25	37*	26	11						
12	71	53	62	-2	46	54	3	0					0.00	28.97	30.00	11.2	26	12.2	29	25	23	27	12						
13	75	49*	62*	-3	47	55	3	0					0.00	29.02	30.05	5.0	27	6.6	18	28	16	28	13						
14	74	54	64	-2	55	59	1	0	RA				T	28.93	29.96	4.8	24	5.5	22	23	18	23	14						
15	76	60	68	2	60	62	0	3	TS TSRA RA BR				0.53	28.88	29.91	5.7	23	8.3	29	34	26	33	15						
16	80	58	69	3	63	65	0	4	RA FG+ BR				T	28.93	29.96	2.1	04	4.1	24	01	18	01	16						
17	83	61	72	6	64	66	0	7	TS TSRA RA BR HZ				0.17	28.95	29.97	1.4	05	6.3	28	28	23	29	17						
18	79	61	70	3	65	66	0	5	RA DZ BR				0.08	28.96	29.98	4.0	03	5.7	17	25	15	26	18						
19	81	60	71	4	64	66	0	6	RA				0.02	29.04	30.06	2.1	34	5.6	15	03	13	23	19						
20	73	62	68	1	61	63	0	3	RA				T	29.14	30.16	3.3	28	5.2	10	27	9	30	20						
21	72	63	68	0	63	64	0	3	RA BR				0.54	29.06	30.09	1.7	02	4.4	14	04	12	02	21						
22	75	61	68	0	62	63	0	3	RA BR				0.02	28.97	30.00	5.1	04	6.1	15	01	13	36	22						
23	76	56	66	-2	59	62	0	1	BCFG BR HZ				0.00	28.95	29.97	3.5	35	5.6	20	29	17	29	23						
24	74	57	66	-3	51	58	0	1					0.00	28.93	29.95	3.5	33	5.2	14	28	9	29	24						
25	73	53	63	-6	55	58	2	0	RA BR				0.04	28.88	29.91	1.9	02	4.6	22	31	18	32	25						
26	74	58	66	-3	56	60	0	1	BR				0.00	28.93	29.95	5.2	01	5.8	16	36	14	35	26						
27	74	57	66	-3	54	59	0	1	HZ				0.00	29.00	30.02	3.7	35	5.8	16	31	12	06	27						
28	77	52	65	-5	54	59	0	0	RA BR				0.02	28.95	29.97	6.7	25	7.8	20	25	15	27	28						
29	70	57	64	-6	57	59	1	0	RA BR				0.21	28.75	29.77	8.4	26	9.9	26	29	20	29	29						
30	78	54	66	-4	54	59	0	1	BR				0.00	28.76	29.77	7.3	24	7.9	23	26	18	24	30						
31	83	61	72	2	58	63	0	7	TS RA				T	28.64	29.65	11.0	27	15.4	37	28	28	27	31						
MONTHLY AVERAGES										TOTALS-->				<-- MONTHLY AVERAGES															
DEPARTURE FROM NORMAL														SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 4.35 DATE :05-06				SEA LEVEL PRESSURE				DATE TIME											
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.21 20 0853											
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:				MINIMUM				: 29.54 31 1053											
HEATING: 11 -54 3575 -112										NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 15							
COOLING: 93 -17 114 -29														MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 9							
																		THUNDERSTORMS: 8				HEAVY FOG: 1				SNOWFALL ≥ 1.0 INCH: :			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

MAY 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			0.06	
02												T	02	0.07	0.03						0.03	0.03			02			0.10	
03													03												03			0.00	
04													04												04			0.00	
05			T	T		T	0.03	0.07	0.14	0.16	0.02	T	05			T	0.21	0.18	0.49	0.79	0.60	0.16	0.07	0.06	0.06	05		3.04	
06	0.08	0.08	T	0.09	0.15	0.07	0.10	0.13	0.21	0.23	0.29	0.26	06	0.04											06			1.73	
07		T		0.14		0.22	0.13	T		0.01			07		0.24	0.07	0.01	T							07	0.82		1.08	
08													08												08			0.00	
09													09												09			0.00	
10													10												10			0.00	
11								0.20	0.15			T	11												11	0.35		0.45	
12													12												12			0.00	
13													13												13			0.00	
14						T	T						14												14			T	
15												T	15					T	T	0.53			T	15			0.53		
16													16												16			T	
17												T	17	T											17			0.17	
18					T	T		0.02	0.01				18			0.05									18			0.08	
19													19												19			0.02	
20			T	T									20								T	0.01	0.01	T	20			T	
21				0.02	0.01	0.03	0.09	0.17	0.10	0.05	0.04	0.02	21	T	0.01	T									21			0.54	
22				0.02	T	T							22												22			0.02	
23													23												23			0.00	
24													24												24			0.00	
25													25			0.03	0.01								25		T	0.04	
26													26												26			0.00	
27													27												27			0.00	
28													28												28		T	0.02	
29	0.03	0.18	T			T							29												29		0.02	0.21	
30						T							30												30			0.00	
31						T	T						31												31			T	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.32	.48	.52	.53	.60	.75	1.00	1.24	1.54	1.79	1.87	1.95
Ending Date	15	15	15	05	05	05	05	05	05	05	05	05
Ending Time (Hour/Min)	1820	1822	1826	1801	1811	1826	1841	1853	1921	1934	2003	2033

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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '-' = Light

KNOXVILLE, TN MAY 2003

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

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

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

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

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

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

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							5.00	10.00	
02							2.50	10.00	
03							.75	10.00	
04							4.00	10.00	
05							1.00	10.00	
06							1.75	10.00	
07							.00	10.00	
08							1.25	10.00	
09							3.00	10.00	
10							6.00	10.00	
11							1.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							.75	10.00	
16							.13	10.00	
17							1.00	10.00	
18							1.75	10.00	
19							9.00	10.00	
20							10.00	10.00	
21							1.25	10.00	
22							3.00	10.00	
23							2.00	10.00	
24							8.00	10.00	
25							5.00	10.00	
26							3.00	10.00	
27							6.00	10.00	
28							5.00	10.00	
29							2.50	10.00	
30							3.00	10.00	
31							7.00	10.00	
MONTHLY AVGS							4.52	10.00	
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 1 14 7									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 2003

TYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			OBSERVATION TIME (LST)	EFF CLD AMT Okta		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION				SEA LEVEL	OBSERVATION TIME (LST)		EFF CLD AMT Okta	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
			SUNRISE: 0533		MAY 13		SUNSET: 1932									SUNRISE: 0528		MAY 19		SUNSET: 1937							
01	CLR	NC		10.00		57	44	50	62	3	18	29.03	30.06	01	SCT	NC			10.00	66	63	64	90	6	31	28.98	30.00
			SUNRISE: 0532		MAY 14		SUNSET: 1933									SUNRISE: 0527		MAY 20		SUNSET: 1937							
01	BKN	250		10.00		59	51	55	75	0	00	28.98	30.01	01	OVC	009			10.00	67	64	65	91	6	27	29.09	30.11
			SUNRISE: 0531		MAY 15		SUNSET: 1933									SUNRISE: 0527		MAY 21		SUNSET: 1938							
01	OVC	037		10.00		62	58	60	86	8	25	28.90	29.93	01	OVC	039			7.00	65	62	63	90	5	23	29.11	30.14
			SUNRISE: 0530		MAY 16		SUNSET: 1934									SUNRISE: 0526		MAY 22		SUNSET: 1939							
01	OVC	001		0.25	FG	59	59	59	100	0	00	28.90	29.93	01	SCT	NC			9.00	63	62	62	97	5	05	28.99	30.02
			SUNRISE: 0529		MAY 17		SUNSET: 1935									SUNRISE: 0526		MAY 23		SUNSET: 1940							
01	BKN	110		5.00	BR	65	63	64	93	5	32	28.94	29.96	01	CLR	NC			8.00	61	58	59	90	5	33	28.96	29.98
			SUNRISE: 0529		MAY 18		SUNSET: 1936									SUNRISE: 0525		MAY 24		SUNSET: 1940							
01	BKN	110		10.00		64	63	63	96	9	04	28.95	29.96	01	BKN	046			9.00	63	54	58	73	6	35	28.93	29.96

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

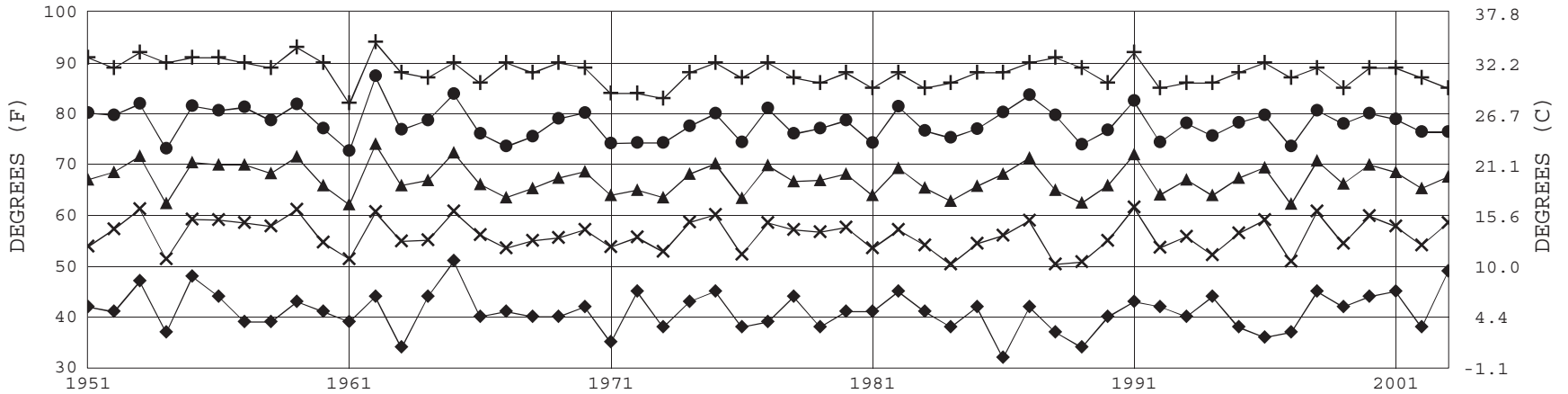
MAY 2003

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)																	
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																										
SUNRISE: 0524								MAY 25								SUNSET: 1941								SUNRISE: 0522								MAY 31								SUNSET: 1945							
01	CLR	NC				10.00		58	52	55	81	5	02	28.90	29.93	01	BKN	090					10.00		66	53	59	63	13	22	28.68	29.69															
04	OVC	180				9.00		56	53	54	90	0	00	28.88	29.91	04	BKN	100				10.00		69	54	60	59	17	23	28.57	29.58																
07	OVC	110				5.00	BR	56	53	54	90	5	05	28.88	29.91	07	SCT	NC				10.00		70	61	64	73	14	24	28.56	29.57																
10	BKN	200				10.00		64	56	59	75	3	VR	28.89	29.92	10	BKN	032				8.00		75	66	69	74	16	24	28.54	29.55																
13	BKN	200				10.00		72	57	63	60	9	25	28.86	29.88	13	SCT	NC				10.00		80	60	67	51	24	29	28.57	29.57																
16	OVC	080				5.00	-RA BR	60	56	58	86	8	32	28.87	29.91	16	BKN	080				10.00		75	55	63	50	21	29	28.66	29.67																
19	OVC	037				7.00		60	57	58	90	7	10	28.86	29.88	19	SCT	NC				10.00		71	56	62	59	12	28	28.71	29.71																
22	OVC	033				8.00		60	58	59	93	6	02	28.89	29.92	22	BKN	075				10.00		66	55	60	68	14	36	28.79	29.80																
SUNRISE: 0524								MAY 26								SUNSET: 1942								3-HOURLY OBSERVATION NOTES																							
01	OVC	023				6.00	BR	60	57	58	90	3	05	28.89	29.91	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.																															
04	BKN	019				4.00	BR	59	58	58	96	0	00	28.88	29.92	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	BKN	031				5.00	BR	60	58	59	93	5	04	28.92	29.96	NC = No ceiling detected.																															
10	BKN	019				8.00		63	58	60	84	7	35	28.95	29.98	& = Original observation contained additional weather elements.																															
13	SCT	NC				10.00		68	57	61	68	9	35	28.94	29.97	See page 3 for additional notes.																															
16	SCT	NC				10.00		73	57	63	57	7	30	28.91	29.93																																
19	SCT	NC				10.00		70	55	61	59	6	04	28.90	29.93																																
22	OVC	070				10.00		63	56	59	78	5	36	28.97	30.00																																
SUNRISE: 0523								MAY 27								SUNSET: 1943								SUMMARY BY HOUR																							
01	OVC	042				9.00		61	53	57	75	5	31	28.96	29.98	AVERAGES																															
04	OVC	047				8.00		59	53	56	81	8	35	28.95	29.97	RESULTANT WIND (MPH)																															
07	BKN	070				6.00	HZ	59	54	56	83	3	03	29.00	30.03	HOUR (LST)																															
10	BKN	080				8.00		66	56	60	70	6	04	29.03	30.06	CEILOMETER																															
13	BKN	050				10.00		71	52	60	51	10	01	29.01	30.03	EFF CLD AMT																															
16	SCT	NC				10.00		73	53	61	50	8	26	28.99	30.02	DRY BULB																															
19	BKN	090				10.00		70	54	61	57	10	03	28.98	30.01	DEW POINT																															
22	BKN	060				10.00		65	53	58	66	0	00	29.02	30.05	WET BULB																															
SUNRISE: 0523								MAY 28								SUNSET: 1943								PRESSURE (INCHES, HG)																							
01	SCT	NC				8.00		60	54	57	80	0	00	29.02	30.05	STATION																															
04	CLR	NC				6.00	BR	54	52	53	93	6	22	29.01	30.03	SEA LEVEL																															
07	CLR	NC				9.00		57	53	55	87	8	22	29.02	30.05	VISIBILITY (MILES)																															
10	FEW	NC				10.00		69	57	62	66	9	24	29.02	30.04	WIND SPEED (MPH)																															
13	BKN	080				10.00		75	55	63	50	12	28	28.97	29.99	SPEED																															
16	BKN	250				10.00		77	52	62	42	10	28	28.90	29.92	DIRECTION																															
19	SCT	NC				10.00		71	55	62	57	7	24	28.86	29.88																																
22	OVC	110				10.00		66	56	60	70	12	22	28.85	29.87																																
SUNRISE: 0522								MAY 29								SUNSET: 1944																															
01	OVC	095				10.00		62	58	60	86	8	21	28.76	29.77																																
04	BKN	085				6.00	BR	59	58	58	96	7	22	28.74	29.75																																
07	BKN	100				7.00		61	59	60	93	10	23	28.73	29.75																																
10	SCT	NC				10.00		67	60	63	79	15	25	28.73	29.75																																
13	OVC	060				10.00		67	52	58	59	14	29	28.73	29.75																																
16	OVC	065				10.00		65	55	59	70	12	28	28.75	29.77																																
19	OVC	070				10.00		64	56	59	75	9	29	28.78	29.80																																
22	BKN	090				9.00		60	58	59	93	6	21	28.81	29.82																																
SUNRISE: 0522								MAY 30								SUNSET: 1945																															
01	CLR	NC				6.00	BR	56	54	55	93	5	22	28.78	29.80																																
04	BKN	080				5.00	BR	55	54	54	96	0	00	28.78	29.80																																
07	SCT	NC				6.00	BR	57	55	56	93	3	24	28.79	29.81																																
10	SCT	NC				10.00		69	55	61	61	7	23	28.80	29.82																																
13	BKN	250				10.00		75	55	63	50	14	24	28.78	29.79																																
16	BKN	250				10.00		77	52	62	42	14	27	28.74	29.76																																
19	SCT	NC				10.00		73	54	62	51	6	27	28.71	29.73																																
22	FEW	NC				10.00		63	57	59	81	6	23	28.72	29.73																																

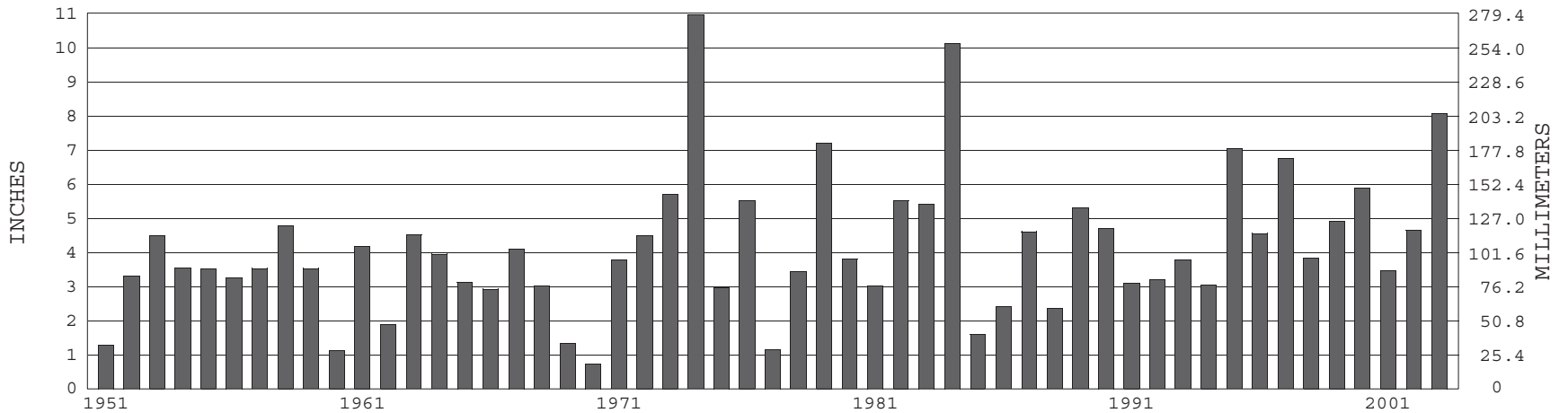
KNOXVILLE, TN MAY TEMPERATURES



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

Long-Term (1951-2003) Mean: 67.1 1961-1990 Normal: 66.0

KNOXVILLE, TN MAY PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 4.13

1961-1990 Normal: 4.68



MAY 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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