



MAY 2001

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 2001
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	79	59	69	8	57	61	0	4	TS TSRA RA BR HZ				0.04	29.12	30.15	1.7	25	4.1	23	19	17	18	01																		
02	81	55	68	6	57	61	0	3	BR HZ				0.00	29.08	30.11	1.0	21	2.9	9	23	9	22	02																		
03	83	57	70	8	55	61	0	5	BR HZ				0.00	29.17	30.20	1.0	25	2.9	14	36	10	23	03																		
04	85	59	72	10	51	60	0	7					0.00	29.13	30.16	2.7	27	4.5	14	05	10	25	04																		
05	88	58	73	10	54	62	0	8	BR HZ				0.00	29.03	30.05	0.5	01	2.6	13	05	10	02	05																		
06	85	64	75	12	61	64	0	10	TS RA BR HZ				0.14	29.07	30.09	0.4	03	4.2	28	22	25	22	06																		
07	70	62	66	3	61	62	0	1	RA BR HZ				0.19	29.21	30.24	4.0	02	4.8	12	05	10	06	07																		
08	63	56	60*	-3	56	58	5	0	RA BR				0.07	29.24	30.27	2.1	25	4.6	13	25	12	29	08																		
09	72	54	63	0	56	59	2	0	TS RA FG+ BR HZ				T	29.17	30.21	1.7	04	4.2	13	07	10	06	09																		
10	78	55	67	3	57	61	0	2	BR HZ				0.00	29.10	30.13	1.4	27	3.1	12	27	9	31	10																		
11	81	57	69	5	58	62	0	4	BR HZ				0.00	29.07	30.09	6.5	26	6.9	21	26	17	26	11																		
12	76	61	69	5	57	62	0	4	RA				T	29.06	30.08	5.4	26	8.3	17	25	15	24	12																		
13	74	53	64	-1	42	52	1	0					0.00	29.14	30.17	6.4	02	6.9	18	02	15	02	13																		
14	78	45*	62	-3	43	52	3	0					0.00	29.14	30.17	1.0	22	4.6	17	08	10	24	14																		
15	87	57	72	7	53	61	0	7					0.00	28.95	29.97	8.8	24	9.3	23	26	21	24	15																		
16	88	63	76	11	57	64	0	11					0.00	28.81	29.82	8.7	24	9.3	24	24	18	24	16																		
17	89	67	78*	13	57	65	0	13					0.00	28.85	29.86	8.9	24	9.2	22	24	18	25	17																		
18	89*	65	77	11	58	65	0	12					0.00	28.88	29.89	9.6	24	10.3	31	25	25	23	18																		
19	85	67	76	10	61	66	0	11	TS TSRA RA DZ BR				0.33	28.82	29.83	8.6	23	9.3	28	28	21	28	19																		
20	80	67	74	8	65	68	0	9	RA BR				T	28.77	29.78	2.4	23	6.0	16	22	14	22	20																		
21	87	66	77	10	65	68	0	12	TS TSRA RA BR HZ				0.78	28.74	29.75	10.2	24	10.6	47*	24	39*	23	21																		
22	73	53	63	-4	56	60	2	0	TS TSRA RA BR				0.77	28.81	29.83	8.9	24	10.1	35	28	28	28	22																		
23	73	48	61	-6	48	53	4	0	RA				0.03	28.86	29.89	4.1	25	5.6	38	29	33	29	23																		
24	74	49	62	-6	54	57	3	0	TSRA RA BR				0.43	28.81	29.83	9.9	22	11.8	38	21	32	21	24																		
25	70	56	63	-5	50	56	2	0	TSRA RA BR				0.09	28.90	29.93	9.3	24	9.5	24	25	18	24	25																		
26	73	50	62	-6	48	55	3	0					0.00	28.91	29.94	5.6	22	6.2	21	22	17	24	26																		
27	80	56	68	0	50	59	0	3					0.00	28.83	29.84	10.5	24	11.1	29	23	24	24	27																		
28	70	60	65	-4	60	62	0	0	RA BR				0.45	28.87	29.89	3.6	23	6.2	20	23	17	22	28																		
29	79	61	70	1	57	62	0	5	BR				0.00	28.94	29.96	3.5	03	4.4	16	33	14	03	29																		
30	80	55	68	-1	54	60	0	3	BR				0.00	29.01	30.04	2.5	06	4.6	16	04	14	06	30																		
31	77	58	68	-2	61	63	0	3	TSRA RA BR HZ				0.14	28.94	29.97	1.6	10	4.2	16	21	15	27	31																		
78.9										57.8		68.4		■ ■		55.5		60.7		0.8		4.4		< MONTHLY AVERAGES		TOTALS-->		3.46		28.98		30.00		3.6		24		6.5		<- MONTHLY AVERAGES	
1.3		4.7		3.0		■ ■		<-----DEPARTURE FROM NORMAL----->										-		.67		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.42 DATE :21-22										SEA LEVEL PRESSURE										DATE		TIME									
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL:					MAXIMUM					MINIMUM					30.32		08		1153												
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH:					NUMBER OF DAYS WITH					MAXIMUM TEMP ≥ 90:					MINIMUM TEMP ≤ 32:					PRECIPITATION ≥ 0.01 INCH:					12						
HEATING: 25					-69					3849					-88					0					0					PRECIPITATION ≥ 0.10 INCH:					8						
COOLING: 137					31					199					84					9					1					SNOWFALL ≥ 1.0 INCH:											

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

MAY 2001

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												T	01					0.02	0.02	T					01		0.04		
02													02													02		0.00	
03													03													03		0.00	
04													04													04		0.00	
05													05													05		0.00	
06													06					0.11	0.03	T	T					06		0.14	
07		T	0.02	0.04	0.04	0.05	0.01	T	0.01	0.01	T	T	07	0.01												07		0.19	
08				T					0.01	T	T	T	08	0.02	T	0.02	0.02	T								08		0.07	
09													09					T	T							09		T	
10													10													10		0.00	
11													11													11		0.00	
12					T								12													12		T	
13					T								13													13		0.00	
14													14													14		0.00	
15													15													15		0.00	
16													16													16		0.00	
17													17													17		0.00	
18													18													18		0.00	
19													19													19		0.00	
20	T												20					0.26	0.01	0.04	0.02	T	T	T	20		0.33		
21													21													21		T	
22			0.10	0.01	0.23	0.02	0.01	T			T	0.13	22	0.10	0.01				0.09	0.12	0.44				22		0.78		
23												0.16	23					0.02	0.01	T					23		0.77		
24					0.01	0.03	0.01	0.04	0.01	0.01			24									0.05	0.12	0.01	0.12	0.02	24		0.03
25	0.01	0.01	T	0.01	0.03	0.03							25													25		0.43	
26													26													26		0.09	
27													27													27		0.00	
28				0.02	0.05	0.23	0.09	0.01	T				28		T		0.01	0.01	0.02	T	0.01				28		0.00		
29													29													29		0.45	
30													30													30		0.00	
31								0.03	0.06	0.03	0.02	T	31												T	31		0.00	
																													0.14

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.16	.23	.35	.37	.50	.52	.54	.54	.64	.65	.65	.65
Ending Date	21	19	21	21	21	21	21	21	21	21	21	21
Ending Time (Hour/Min)	1905	1729	1905	1910	1920	1920	1928	1928	1928	1928	1928	1928

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 1961–1990

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 MAY 2001

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							4.00	10.00	
02							1.75	10.00	
03							2.50	10.00	
04							7.00	10.00	
05							4.00	10.00	
06							3.00	8.00	
07							1.25	8.00	
08							4.00	10.00	
09							.25	9.00	
10							1.00	10.00	
11							4.00	10.00	
12							7.00	10.00	
13							10.00	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							9.00	10.00	
18							9.00	10.00	
19							1.50	10.00	
20							4.00	10.00	
21							.75	10.00	
22							1.50	10.00	
23							7.00	10.00	
24							2.00	10.00	
25							3.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							2.00	10.00	
29							3.00	10.00	
30							5.00	10.00	
31							2.00	10.00	
MONTHLY AVGS							4.98	9.84	
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 13 11									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 2001

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: 0544								MAY 01								SUNSET: 1922															
01	BKN	085				10.00		63	56	59	78	7	24	29.18	30.20	01	BKN	120				4.00	BR	64	61	62	90	3	02	29.14	30.16
04	SCT	NC				9.00		61	55	58	81	6	30	29.16	30.18	04	OVC	037				3.00	RA BR	64	62	63	93	0	00	29.16	30.19
07	SCT	NC				7.00		62	55	58	78	0	00	29.18	30.21	07	OVC	008				1.25	BR	63	62	62	97	5	34	29.21	30.25
10	BKN	070				8.00		67	56	60	68	0	00	29.18	30.21	10	BKN	100				2.50	BR	62	60	61	93	7	04	29.24	30.28
13	SCT	NC				9.00		72	57	63	60	9	27	29.12	30.15	13	BKN	100				3.00	BR	63	60	61	90	7	04	29.24	30.28
16	SCT	NC				9.00		77	57	65	50	6	29	29.05	30.07	16	BKN	120				7.00		68	61	64	78	9	05	29.21	30.23
19	OVC	060				5.00	-TSRA BR	65	59	61	81	0	00	29.08	30.11	19	SCT	NC				6.00	HZ	66	60	62	81	5	01	29.20	30.23
22	OVC	095				5.00	BR	62	59	60	90	5	08	29.10	30.12	22	FEW	NC				6.00	BR	63	60	61	90	0	00	29.21	30.26
SUNRISE: 0543								MAY 02								SUNSET: 1923															
01	CLR	NC				5.00	BR	61	58	59	90	0	00	29.05	30.07	01	CLR	NC				7.00		63	59	61	87	5	30	29.21	30.25
04	CLR	NC				3.00	BR	57	55	56	93	0	00	29.05	30.08	04	OVC	080				10.00		61	53	57	75	6	26	29.22	30.26
07	OVC	110				1.75	BR	58	56	57	93	3	08	29.10	30.13	07	OVC	048				10.00		61	53	57	75	3	20	29.25	30.29
10	BKN	100				5.00	HZ	67	59	62	76	0	00	29.12	30.15	10	BKN	090				10.00	-RA	60	54	57	80	7	25	29.27	30.31
13	SCT	NC				9.00		76	55	63	48	6	VR	29.09	30.12	13	OVC	025				7.00	-RA	61	55	58	81	8	25	29.27	30.31
16	SCT	NC				10.00		79	52	63	39	5	VR	29.05	30.08	16	OVC	011				8.00	-RA	61	56	58	84	0	00	29.23	30.27
19	SCT	NC				8.00		75	58	65	55	8	23	29.06	30.08	19	BKN	120				7.00		62	58	60	86	7	10	29.20	30.24
22	BKN	085				9.00		69	58	62	68	0	00	29.11	30.13	22	CLR	NC				4.00	BR	57	56	56	96	3	08	29.22	30.26
SUNRISE: 0542								MAY 03								SUNSET: 1924															
01	CLR	NC				6.00	HZ	65	58	61	78	3	24	29.12	30.14	01	FEW	NC				2.50	BR	55	54	54	96	0	00	29.21	30.25
04	CLR	NC				4.00	BR	59	56	57	90	0	00	29.14	30.16	04	OVC	001				0.25	FG	54	54	54	100	5	06	29.20	30.24
07	SCT	NC				3.00	BR	60	56	58	86	0	00	29.22	30.25	07	BKN	070				2.00	BR	57	56	56	96	7	04	29.21	30.26
10	FEW	NC				9.00		73	55	62	53	7	22	29.24	30.27	10	BKN	070				6.00	HZ	63	57	60	81	7	05	29.21	30.25
13	FEW	NC				10.00		80	51	63	37	9	36	29.21	30.23	13	BKN	065				7.00		69	58	62	68	5	31	29.18	30.21
16	FEW	NC				10.00		83	52	64	34	7	09	29.14	30.16	16	BKN	042				8.00		71	57	63	61	0	00	29.12	30.16
19	CLR	NC				10.00		79	53	63	41	3	28	29.12	30.14	19	BKN	100				4.00	HZ	67	61	63	81	8	20	29.13	30.16
22	CLR	NC				9.00		69	57	62	66	0	00	29.15	30.17	22	CLR	NC				6.00	BR	62	58	60	86	0	00	29.14	30.17
SUNRISE: 0541								MAY 04								SUNSET: 1925															
01	CLR	NC				10.00		67	52	58	59	8	25	29.18	30.20	01	CLR	NC				3.00	BR	58	57	57	97	3	16	29.13	30.16
04	CLR	NC				10.00		63	53	57	70	8	26	29.19	30.21	04	SCT	NC				2.50	BR	55	54	54	96	0	00	29.11	30.15
07	CLR	NC				7.00		61	53	57	75	0	00	29.21	30.24	07	BKN	075				2.00	BR	56	54	55	93	0	00	29.16	30.19
10	FEW	NC				10.00		75	52	62	45	5	VR	29.21	30.23	10	SCT	NC				5.00	HZ	69	60	64	73	0	00	29.17	30.19
13	FEW	NC				10.00		82	51	64	34	7	33	29.14	30.16	13	SCT	NC				10.00		75	58	65	55	5	VR	29.12	30.14
16	FEW	NC				10.00		85	47	63	27	7	32	29.07	30.09	16	FEW	NC				10.00		77	56	64	48	8	32	29.06	30.09
19	CLR	NC				10.00		80	49	62	34	7	26	29.05	30.07	19	CLR	NC				10.00		75	56	64	52	6	31	29.04	30.06
22	CLR	NC				10.00		71	51	60	49	0	00	29.07	30.09	22	CLR	NC				9.00		66	58	61	75	5	16	29.07	30.10
SUNRISE: 0540								MAY 05								SUNSET: 1926															
01	OVC	100				10.00		67	55	60	66	5	24	29.07	30.09	01	CLR	NC				8.00		62	58	60	86	3	19	29.06	30.08
04	CLR	NC				7.00		61	54	57	78	0	00	29.06	30.08	04	CLR	NC				6.00	BR	58	55	56	90	0	00	29.07	30.10
07	FEW	NC				4.00	BR	59	55	57	87	3	08	29.08	30.10	07	CLR	NC				4.00	BR	59	56	57	90	0	00	29.11	30.14
10	CLR	NC				10.00		74	55	63	52	5	28	29.09	30.11	10	SCT	NC				10.00		74	60	65	62	10	23	29.11	30.14
13	CLR	NC				9.00		83	56	66	40	0	00	29.04	30.06	13	BKN	100				10.00		75	62	67	64	14	26	29.09	30.11
16	CLR	NC				10.00		87	50	65	28	9	34	28.97	29.99	16	SCT	NC				10.00		80	55	65	42	9	29	29.02	30.04
19	CLR	NC				10.00		81	52	64	37	3	09	28.96	29.99	19	BKN	120				10.00		75	60	66	60	8	24	29.02	30.04
22	FEW	NC				9.00		74	58	64	57	0	00	29.00	30.02	22	CLR	NC				10.00		66	57	61	73	10	24	29.06	30.09
SUNRISE: 0539								MAY 06								SUNSET: 1926															
01	BKN	110				7.00		70	59	63	68	0	00	29.01	30.02	01	BKN	120				10.00		64	59	61	84	6	24	29.05	30.07
04	BKN	100				6.00	HZ	67	60	63	79	0	00	29.02	30.03	04	BKN	055				10.00		64	59	61	84	10	24	29.05	30.07
07	SCT	NC				3.00	BR HZ	66	61	63	84	3	04	29.06	30.07	07	BKN	095				10.00		63	61	62	93	5	22	29.07	30.10
10	BKN	110				4.00	HZ	74	60	65	62	3	01	29.09	30.10	10	OVC	023				10.00		67	60	63	79	9	24	29.08	30.11
13	SCT	NC				6.00	HZ	80	59	67	49	0	00	29.06	30.07	13	BKN	030				7.00		70	61	64	73	7	24	29.08	30.10
16	OVC	080				8.00	TS	68	58	62	70	16	22	29.06	30.09	16	SCT	NC				10.00		76	60	66	58	10	26	29.01	30.04
19	OVC	080				7.00	-RA	66	63	64	90	7	01	29.07	30.10	19	FEW	NC				10.00		73	50	60	44	9	34	29.02	30.04
22	OVC	055				4.00	BR	65	62	63	90	0	00	29.15	30.18	22	CLR	NC				10.00		66	49	57	54	8	01	29.08	30.10

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 2001

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: 0532				MAY 13				SUNSET: 1932				SUNRISE: 0528				MAY 19				SUNSET: 1937								
01	CLR	NC			10.00	59	49	54	69	6	36	29.10	30.13	01	CLR	NC			10.00	70	56	62	61	8	23	28.86	29.86	
04	CLR	NC			10.00	55	49	52	80	8	36	29.10	30.13	04	CLR	NC			10.00	69	56	61	63	8	23	28.85	29.85	
07	CLR	NC			10.00	55	49	52	80	6	06	29.16	30.19	07	BKN	050			10.00	72	58	63	61	7	22	28.87	29.87	
10	FEW	NC			10.00	64	46	54	52	7	05	29.19	30.22	10	FEW	NC			10.00	81	61	68	51	13	25	28.85	29.85	
13	CLR	NC			10.00	70	38	54	31	8	03	29.17	30.20	13	BKN	110			10.00	83	62	69	49	15	26	28.82	29.82	
16	CLR	NC			10.00	74	34	54	23	10	04	29.12	30.15	16	SCT	NC			10.00	80	64	70	58	10	19	28.76	29.77	
19	CLR	NC			10.00	69	36	53	30	8	05	29.13	30.16	19	BKN	039			10.00	71	64	67	79	5	22	28.78	29.79	
22	CLR	NC			10.00	60	39	50	46	0	00	29.15	30.18	22	BKN	050			10.00	68	65	66	90	10	21	28.78	29.79	
SUNRISE: 0531				MAY 14				SUNSET: 1933				SUNRISE: 0527				MAY 20				SUNSET: 1938								
01	CLR	NC			10.00	52	42	47	69	5	07	29.15	30.18	01	OVC	040			9.00	68	65	66	90	5	32	28.79	29.79	
04	CLR	NC			10.00	47	43	45	86	0	00	29.16	30.19	04	BKN	065			8.00	67	65	66	93	6	03	28.77	29.78	
07	CLR	NC			10.00	49	43	46	80	0	00	29.20	30.24	07	OVC	039			4.00	BR	67	65	66	93	5	02	28.80	29.81
10	CLR	NC			10.00	65	45	54	49	3	VR	29.21	30.24	10	FEW	NC			10.00	75	66	69	74	6	30	28.79	29.79	
13	CLR	NC			10.00	74	39	56	28	7	10	29.17	30.20	13	OVC	055			10.00	76	65	69	69	5	VR	28.76	29.77	
16	CLR	NC			10.00	76	40	57	27	6	25	29.10	30.13	16	BKN	085			10.00	78	65	69	64	8	23	28.73	29.74	
19	FEW	NC			10.00	72	45	57	38	8	21	29.07	30.10	19	BKN	075			10.00	76	64	68	67	8	21	28.73	29.74	
22	FEW	NC			10.00	65	47	55	52	6	22	29.08	30.11	22	OVC	100			10.00	73	64	67	74	6	21	28.77	29.77	
SUNRISE: 0531				MAY 15				SUNSET: 1934				SUNRISE: 0526				MAY 21				SUNSET: 1939								
01	FEW	NC			10.00	60	49	54	67	3	25	29.06	30.09	01	BKN	040			10.00	71	64	67	79	0	00	28.75	29.75	
04	BKN	060			10.00	59	50	54	72	0	00	29.02	30.05	04	FEW	NC			10.00	68	63	65	84	0	00	28.71	29.72	
07	BKN	090			10.00	61	50	55	67	9	24	29.03	30.06	07	SCT	NC			7.00	70	65	67	84	0	00	28.75	29.76	
10	FEW	NC			10.00	76	53	62	45	13	22	29.02	30.04	10	OVC	042			9.00	-TSRA	76	65	69	69	15	24	28.78	29.79
13	FEW	NC			10.00	83	55	66	38	14	27	28.94	29.96	13	BKN	070			8.00	TS	81	69	73	67	16	24	28.74	29.74
16	FEW	NC			10.00	86	52	65	31	15	25	28.87	29.88	16	BKN	090			10.00	86	62	70	45	23	22	28.67	29.67	
19	CLR	NC			10.00	82	53	65	37	12	26	28.84	29.85	19	OVC	047			1.50	+TSRA BR	72	68	69	87	25	23	28.76	29.76
22	CLR	NC			10.00	70	54	61	57	7	22	28.86	29.87	22	CLR	NC			6.00	BR	69	66	67	90	7	25	28.78	29.78
SUNRISE: 0530				MAY 16				SUNSET: 1935				SUNRISE: 0526				MAY 22				SUNSET: 1939								
01	BKN	085			10.00	67	56	60	68	7	22	28.86	29.86	01	FEW	NC			10.00	69	61	64	76	6	19	28.76	29.76	
04	CLR	NC			10.00	66	56	60	70	9	24	28.84	29.84	04	OVC	055			7.00	-RA	69	63	65	81	13	22	28.73	29.73
07	CLR	NC			10.00	67	56	60	68	9	24	28.85	29.86	07	OVC	030			7.00		68	64	66	87	14	21	28.76	29.77
10	CLR	NC			10.00	79	58	66	49	8	23	28.86	29.86	10	BKN	050			10.00	72	63	66	73	23	22	28.72	29.73	
13	SCT	NC			10.00	86	59	69	40	8	30	28.81	29.81	13	OVC	008			6.00	RA BR	57	54	55	90	13	23	28.86	29.88
16	SCT	NC			10.00	87	55	67	34	14	26	28.75	29.75	16	BKN	050			10.00	66	52	58	61	9	24	28.85	29.86	
19	CLR	NC			10.00	81	57	66	44	8	24	28.75	29.75	19	SCT	NC			10.00	66	45	55	47	8	30	28.86	29.88	
22	CLR	NC			10.00	73	57	63	57	6	22	28.80	29.80	22	FEW	NC			10.00	58	46	52	65	5	29	28.90	29.93	
SUNRISE: 0529				MAY 17				SUNSET: 1935				SUNRISE: 0525				MAY 23				SUNSET: 1940								
01	CLR	NC			10.00	70	56	62	61	6	22	28.81	29.82	01	FEW	NC			10.00	52	47	49	83	0	00	28.90	29.94	
04	SCT	NC			10.00	69	56	61	63	5	24	28.82	29.83	04	CLR	NC			10.00	51	47	49	86	0	00	28.87	29.91	
07	SCT	NC			9.00	71	57	63	61	3	25	28.86	29.86	07	CLR	NC			10.00	51	48	50	89	3	24	28.89	29.93	
10	BKN	070			10.00	79	57	65	47	13	23	28.90	29.92	10	FEW	NC			10.00	64	45	54	50	7	25	28.89	29.92	
13	FEW	NC			10.00	86	57	68	37	12	26	28.87	29.88	13	SCT	NC			10.00	69	42	55	38	12	25	28.86	29.88	
16	FEW	NC			10.00	88	58	69	36	12	24	28.84	29.84	16	SCT	NC			10.00	70	43	56	38	12	27	28.80	29.82	
19	CLR	NC			10.00	83	56	66	40	12	24	28.82	29.82	19	BKN	095			10.00	61	53	57	75	7	13	28.81	29.84	
22	CLR	NC			10.00	74	59	65	60	6	23	28.87	29.87	22	FEW	NC			10.00	56	52	54	87	0	00	28.84	29.86	
SUNRISE: 0528				MAY 18				SUNSET: 1936				SUNRISE: 0525				MAY 24				SUNSET: 1941								
01	CLR	NC			10.00	69	60	64	73	7	23	28.88	29.89	01	FEW	NC			7.00	52	50	51	93	3	07	28.83	29.85	
04	CLR	NC			10.00	66	58	61	75	9	23	28.87	29.88	04	FEW	NC			10.00	50	48	49	93	5	06	28.76	29.78	
07	CLR	NC			10.00	69	58	62	68	5	27	28.90	29.92	07	OVC	055			4.00	-RA BR	54	52	53	93	0	00	28.83	29.86
10	SCT	NC			10.00	81	60	68	49	13	23	28.93	29.95	10	OVC	080			10.00	62	55	58	78	21	21	28.81	29.83	
13	SCT	NC			10.00	86	58	68	39	14	21	28.90	29.91	13	BKN	080			10.00	69	54	60	59	25	23	28.80	29.82	
16	FEW	NC			10.00	88	54	67	31	20	26	28.85	29.85	16	SCT	NC			10.00	71	57	63	61	22	21	28.80	29.82	
19	CLR	NC			10.00	83	58	67	43	13	22	28.82	29.83	19	BKN	085			10.00	69	54	60	59	10	23	28.79	29.80	
22	CLR	NC			10.00	72	59	64	64	7	22	28.87	29.87	22	FEW	NC			10.00	60	57	58	90	0	00	28.84	29.86	

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

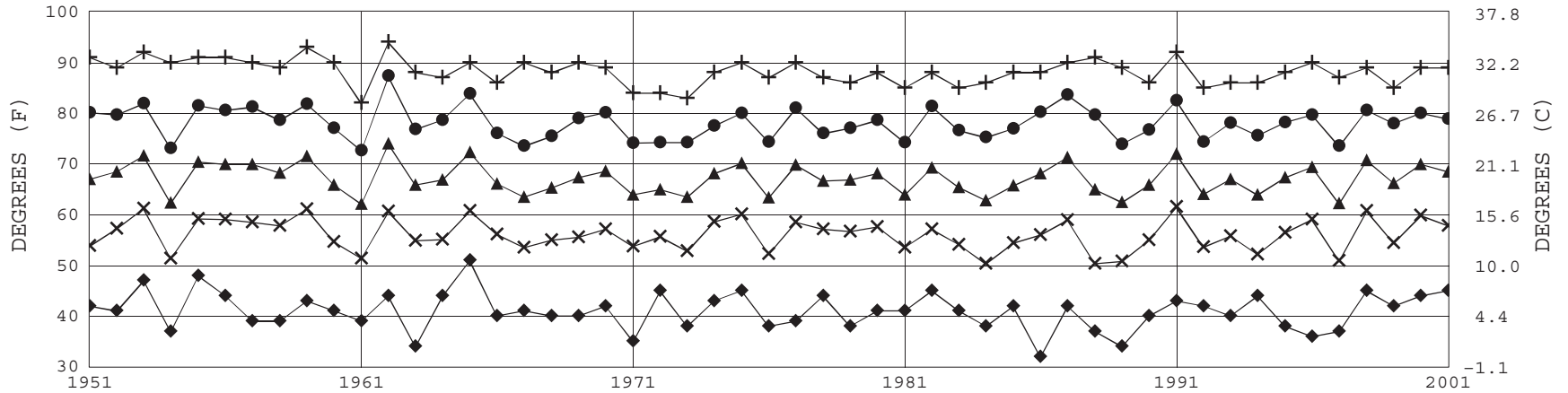
MAY 2001

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		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 Okta	VISIBILITY (MILES)		DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL														
SUNRISE: 0524							MAY 25							SUNSET: 1942							SUNRISE: 0522							MAY 31							SUNSET: 1946						
01	OVC	022			10.00	-RA	60	58	59	93	3	21	28.83	29.85	01	CLR	NC				8.00	62	57	59	84	0	00	28.99	30.01												
04	BKN	090			7.00	-RA	60	58	59	93	10	25	28.84	29.86	04	CLR	NC				8.00	60	55	57	84	0	00	28.97	30.00												
07	BKN	040			10.00		58	56	57	93	8	24	28.87	29.89	07	OVC	070				7.00	60	57	58	90	7	28	29.01	30.03												
10	SCT	NC			10.00		63	49	55	60	12	24	28.92	29.95	10	BKN	055				3.00	-RA	BR	61	59	60	93	6	08	29.01	30.04										
13	BKN	075			10.00		67	46	56	47	8	26	28.93	29.96	13	BKN	100				5.00	Hz		67	62	64	84	0	00	29.00	30.03										
16	SCT	NC			10.00		69	44	56	41	16	24	28.91	29.94	16	SCT	NC				9.00	74	63	67	69	5	30	28.90	29.92												
19	FEW	NC			10.00		66	46	55	49	10	24	28.91	29.95	19	SCT	NC				9.00	72	64	67	76	7	15	28.87	29.89												
22	FEW	NC			10.00		59	47	53	64	6	22	28.95	29.98	22	BKN	080				8.00	70	63	66	79	0	00	28.86	29.88												
SUNRISE: 0524							MAY 26							SUNSET: 1942							3-HOURLY OBSERVATION NOTES																				
01	CLR	NC			10.00		56	48	52	75	0	00	28.95	29.98	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	CLR	NC			10.00		51	48	50	89	0	00	28.93	29.96	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																										
07	SCT	NC			10.00		53	49	51	86	0	00	28.96	29.99	NC = No ceiling detected.																										
10	CLR	NC			10.00		65	48	56	54	6	27	28.96	29.99	& = Original observation contained additional weather elements.																										
13	SCT	NC			10.00		70	48	58	46	9	23	28.93	29.96	See page 3 for additional notes.																										
16	FEW	NC			10.00		72	48	59	43	13	20	28.87	29.91																											
19	FEW	NC			10.00		70	45	56	41	10	21	28.85	29.88																											
22	OVC	090			10.00		64	47	55	54	9	21	28.87	29.89																											
SUNRISE: 0523							MAY 27							SUNSET: 1943																											
01	BKN	110			10.00		61	49	54	65	6	22	28.83	29.85																											
04	FEW	NC			10.00		59	49	54	69	5	27	28.81	29.83																											
07	FEW	NC			10.00		62	53	57	73	6	23	28.86	29.87																											
10	FEW	NC			10.00		72	52	60	50	15	23	28.86	29.88																											
13	SCT	NC			10.00		78	49	61	36	17	27	28.84	29.85																											
16	SCT	NC			10.00		79	50	62	36	17	23	28.80	29.81																											
19	BKN	080			10.00		74	50	60	43	15	23	28.80	29.82																											
22	BKN	120			10.00		69	51	59	53	8	25	28.82	29.83																											
SUNRISE: 0523							MAY 28							SUNSET: 1944																											
01	SCT	NC			10.00		67	53	59	61	3	22	28.81	29.82																											
04	OVC	046			10.00	-RA	62	58	60	86	7	07	28.80	29.80																											
07	OVC	034			2.50	+RA BR	61	59	60	93	12	13	28.86	29.88																											
10	OVC	009			9.00		64	61	62	90	5	26	28.90	29.92																											
13	OVC	015			10.00		68	62	64	81	14	23	28.91	29.94																											
16	BKN	020			10.00	-RA	66	63	64	90	10	23	28.88	29.91																											
19	BKN	050			10.00		65	63	64	93	3	21	28.87	29.89																											
22	BKN	100			10.00		63	61	62	93	3	22	28.90	29.92																											
SUNRISE: 0522							MAY 29							SUNSET: 1944																											
01	OVC	007			9.00		62	61	61	96	0	00	28.88	29.91																											
04	OVC	004			5.00	BR	62	61	61	96	3	04	28.88	29.91																											
07	SCT	NC			3.00	BR	63	60	61	90	3	03	28.92	29.95																											
10	SCT	NC			10.00		69	59	63	70	6	03	28.95	29.98																											
13	SCT	NC			10.00		76	54	63	47	6	04	28.94	29.97																											
16	SCT	NC			10.00		77	52	62	42	8	02	28.95	29.97																											
19	CLR	NC			10.00		74	53	62	48	5	01	28.95	29.98																											
22	CLR	NC			9.00		64	57	60	78	5	07	28.98	30.01																											
SUNRISE: 0522							MAY 30							SUNSET: 1945																											
01	CLR	NC			8.00		61	55	58	81	0	00	29.00	30.03																											
04	CLR	NC			7.00		56	54	55	93	3	06	29.00	30.02																											
07	CLR	NC			7.00		57	54	55	90	5	06	29.02	30.05																											
10	CLR	NC			10.00		72	57	63	60	6	VR	29.04	30.06																											
13	FEW	NC			10.00		78	51	62	39	6	29	29.04	30.07																											
16	SCT	NC			10.00		77	51	62	40	8	27	29.01	30.04																											
19	CLR	NC			10.00		75	54	63	48	8	09	28.99	30.02																											
22	CLR	NC			10.00		67	57	61	71	0	00	28.99	30.02																											

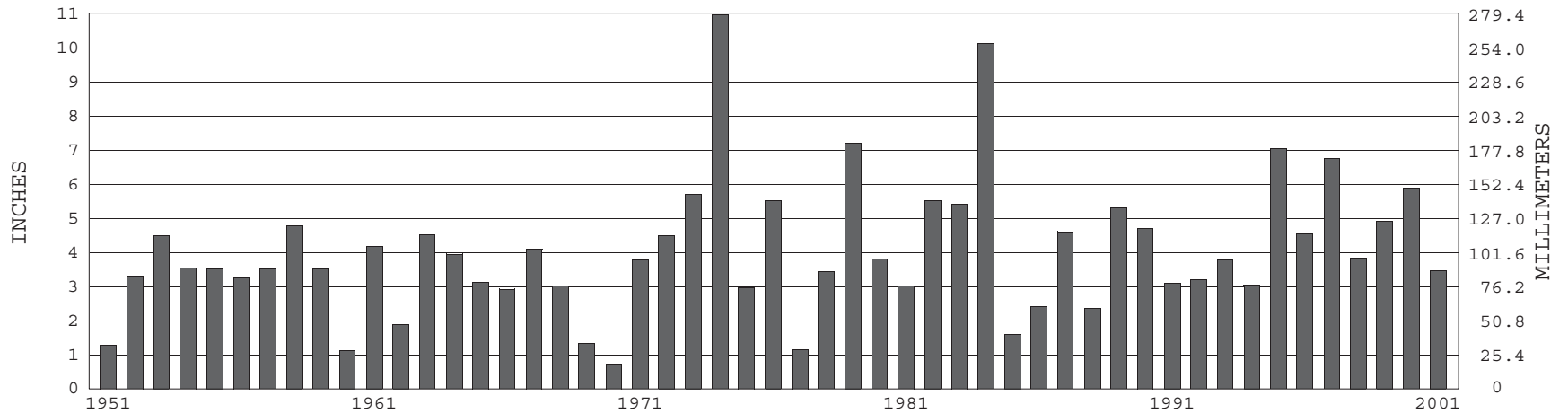
KNOXVILLE, TN MAY TEMPERATURES



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

Long-Term (1951-2001) Mean: 67.1 1961-1990 Normal: 65.4

KNOXVILLE, TN MAY PRECIPITATION



Long-Term (1951-2001) Mean Monthly Total: 4.04

1961-1990 Normal: 4.13



**MAY 2001
KNOXVILLE, TN**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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