



MAY 2002

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 2002
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	75	59	67	5	63	65	0	2	TSRA RA BR HZ				0.91	28.75	29.76	6.2	24	8.2	28	22	20	22	01						
02	83	61	72	10	65	68	0	7	TS TSRA RA BR HZ				1.03	28.72	29.73	16.1	23	16.5	48*	24	36*	23	02						
03	61	54	58	-4	52	54	7	0	TS RA DZ BR				0.18	28.98	30.01	7.0	04	8.1	20	01	16	01	03						
04	62	52	57	-5	55	56	8	0	RA DZ BR				0.77	29.05	30.09	4.2	02	4.6	14	04	12	04	04						
05	76	58	67	4	55	59	0	2	DZ BR				T	29.21	30.25	4.0	04	5.1	15	05	13	04	05						
06	80	52	66	3	57	61	0	1					0.00	29.15	30.18	6.3	25	7.4	25	23	21	23	06						
07	84	62	73	10	64	68	0	8	TS RA HZ				T	29.05	30.07	8.7	24	9.9	29	28	24	21	07						
08	86	65	76	13	65	68	0	11	BR HZ				0.00	28.99	30.00	8.4	23	10.2	30	22	25	23	08						
09	82	68	75	11	65	68	0	10	TS TSRA RA				T	28.99	30.00	10.6	23	11.4	33	23	25	23	09						
10	71	61	66	2	61	63	0	1	TSRA RA BR				0.33	29.18	30.21	4.3	02	6.8	29	36	22	36	10						
11	83	60	72	8	63	66	0	7					0.00	29.19	30.22	1.2	02	6.2	16	20	14	21	11						
12	83	65	74	10	66	68	0	9	BR HZ				0.00	29.12	30.14	8.2	24	9.1	30	22	24	22	12						
13	75	51	63	-2	58	61	2	0	TSRA RA BR				0.91	28.89	29.91	8.9	26	13.2	36	23	30	23	13						
14	69	42	56	-10	43	49	9	0					0.00	29.03	30.07	3.9	28	5.9	22	26	17	28	14						
15	74	46	60	-6	47	53	5	0					0.00	29.16	30.19	0.5	26	1.3	10	33	9	30	15						
16	79	52	66	0	54	59	0	1					0.00	29.10	30.13	7.0	23	8.1	26	22	24	23	16						
17	83	58	71	5	61	65	0	6	TSRA RA BR				0.24	28.86	29.87	10.5	23	11.3	31	23	25	21	17						
18	69	45	57	-10	45	49	8	0	RA BR				0.26	28.97	30.01	8.3	01	10.5	25	26	22	28	18						
19	61	40	51	-16	37	45	14	0					0.00	29.13	30.18	6.9	02	7.5	21	03	15	02	19						
20	62	38*	50*	-17	38	45	15	0					0.00	29.17	30.22	3.3	01	4.7	17	02	14	36	20						
21	60	41	51	-17	39	46	14	0					0.00	29.22	30.27	7.2	03	7.6	17	02	15	02	21						
22	68	41	55	-13	42	49	10	0					0.00	29.24	30.29	3.5	04	4.6	13	05	10	03	22						
23	74	44	59	-9	49	54	6	0	BR				0.00	29.14	30.18	0.9	28	3.2	13	34	10	34	23						
24	79	48	64	-5	53	58	1	0	BR				0.00	29.06	30.09	2.7	24	4.3	15	28	12	29	24						
25	82	53	68	-1	57	62	0	3	BR				0.00	29.04	30.06	3.5	25	4.5	17	23	15	24	25						
26	84	59	72	3	61	65	0	7	BR HZ				0.00	29.05	30.07	1.7	29	4.4	23	31	17	32	26						
27	83	59	71	2	62	65	0	6	TSRA RA BR				0.03	29.04	30.06	0.8	09	3.4	18	12	15	26	27						
28	81	59	70	0	63	66	0	5	BR HZ				0.00	29.02	30.04	1.6	03	3.2	12	06	10	03	28						
29	84	58	71	1	61	65	0	6	BCFG BR HZ				0.00	28.94	29.95	1.4	02	3.4	16	24	13	24	29						
30	87	61	74	4	62	66	0	9	RA BR HZ				T	28.86	29.87	2.1	05	4.6	16	05	13	03	30						
31	87*	66	77*	7	65	69	0	12	HZ				0.00	28.85	29.86	3.3	26	4.5	13	31	12	25	31						
MONTHLY AVERAGES										TOTALS-->				<-- MONTHLY AVERAGES															
76.4 54.1 65.3										0.1 -1.5 -0.7				0.1 -1.5 -0.7															
DEPARTURE FROM NORMAL										->				->															
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.17 DATE :02-03				SEA LEVEL PRESSURE DATE TIME															
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE :				MAXIMUM : 30.37 22 0753															
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: DATE :				MINIMUM : 29.61 02 1753															
HEATING: 99 5 3312 -625										NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 9							
COOLING: 113 3 204 61														MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 8							
																		THUNDERSTORMS : 9				HEAVY FOG : 0				SNOWFALL ≥ 1.0 INCH :			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

MAY 2002

TYS

WBAN # 13891

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST Water Equiv.
	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	0.09	0.21	0.32	0.12	0.04	0.13	T	T					01												01		0.91	
02		T	T	0.01			T	T					02												02		1.03	
03	0.02					T							03	T	T	T	0.04	0.06	0.03	0.38	0.23	0.05	0.02	0.24	0.10	0.58	1.18	
04	0.01	0.09	0.05	0.03	0.24		0.13	0.01	T				04				T	T	T	0.01	T	T		03		0.18		
05			T										05											04		0.77		
06													06											05		T		
07													07				T							06		0.00		
08													08											07		T		
09													09			T	T							08		0.00		
10													10		0.10	0.22	0.01	T						09		T		
11													11											10		0.33		
12													12											11		0.00		
13		T	T										13	T	0.29	0.07								12		0.00		
14													14											13		0.91		
15													15											14		0.00		
16													16											15		0.00		
17													17											16		0.00		
18	0.12	0.12	0.02	T	T								18								0.03	0.04	0.15	0.02	17		0.24	
19													19											18		0.26		
20													20											19		0.00		
21													21											20		0.00		
22													22											21		0.00		
23													23											22		0.00		
24													24											23		0.00		
25													25											24		0.00		
26													26											25		0.00		
27													27											26	0.01	0.00		
28													28			0.01								27		0.03		
29													29											28		0.00		
30													30											29		0.00		
31													31											30	T	T		
																								31		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)	.31	.33	.35	.37	.41	.45	.52	.55	.62	.65	.66	.66
Ending Date	02	02	02	02	13	13	13	13	02	02	02	02
Ending Time (Hour/Min)	1831	1835	1831	1835	1011	1025	1039	1047	1957	2011	2025	2025

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 MAY 2002

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							1.00	10.00	
02							.75	10.00	
03							2.50	10.00	
04							1.00	10.00	
05							1.25	10.00	
06							7.00	10.00	
07							4.00	10.00	
08							3.00	10.00	
09							8.00	10.00	
10							1.50	10.00	
11							7.00	10.00	
12							2.50	8.00	
13							.75	10.00	
14							8.00	10.00	
15							8.00	10.00	
16							8.00	10.00	
17							3.00	10.00	
18							3.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							8.00	10.00	
22							7.00	10.00	
23							4.00	10.00	
24							6.00	10.00	
25							5.00	10.00	
26							4.00	10.00	
27							4.00	10.00	
28							2.50	10.00	
29							1.75	10.00	
30							4.00	10.00	
31							4.00	10.00	
MONTHLY AVGS							4.81	9.94	
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									
0 12 10									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 2002

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: 0544					MAY 01					SUNSET: 1922					SUNRISE: 0538					MAY 07					SUNSET: 1927				
01	OVC	100	7.00	-RA	60	59	59	96	5	33	28.81	29.82	01	OVC	035	7.00	66	60	62	81	10	25	29.10	30.12					
04	OVC	050	5.00	-RA BR	60	59	59	96	3	30	28.79	29.80	04	OVC	033	9.00	67	60	63	79	5	28	29.06	30.08					
07	BKN	050	5.00	BR	61	60	60	97	0	00	28.79	29.81	07	OVC	027	6.00	67	62	64	84	7	22	29.09	30.11					
10	BKN	011	10.00		68	63	65	84	0	00	28.80	29.82	10	BKN	060	5.00	75	68	70	79	17	22	29.10	30.12					
13	OVC	022	10.00		71	65	67	81	14	24	28.77	29.78	13	BKN	250	9.00	81	67	72	62	20	23	29.05	30.07					
16	OVC	050	6.00	HZ	72	66	68	82	14	23	28.71	29.72	16	BKN	250	10.00	79	68	72	69	5	28	29.01	30.03					
19	BKN	055	6.00	HZ	71	66	68	84	8	22	28.68	29.69	19	SCT	NC	10.00	77	64	69	64	9	21	29.00	30.01					
22	SCT	NC	7.00		69	64	66	84	10	26	28.66	29.67	22	FEW	NC	9.00	72	65	67	79	7	24	29.03	30.05					
SUNRISE: 0543					MAY 02					SUNSET: 1923					SUNRISE: 0537					MAY 08					SUNSET: 1928				
01	OVC	040	10.00		75	65	68	71	12	22	28.67	29.68	01	FEW	NC	10.00	70	64	66	82	3	05	29.01	30.03					
04	OVC	033	9.00		73	67	69	81	17	22	28.66	29.67	04	FEW	NC	6.00	67	64	65	91	3	36	28.99	30.01					
07	BKN	028	7.00	-RA	72	67	69	84	14	21	28.68	29.69	07	BKN	250	3.00	66	65	65	96	5	07	29.03	30.05					
10	OVC	025	6.00	HZ	74	67	69	79	20	21	28.69	29.70	10	OVC	250	6.00	76	68	71	77	12	23	29.05	30.07					
13	BKN	250	6.00	HZ	80	66	71	62	31	23	28.67	29.67	13	SCT	NC	9.00	83	67	72	59	20	24	29.01	30.02					
16	OVC	050	7.00		78	65	69	64	21	22	28.67	29.67	16	SCT	NC	10.00	85	66	72	53	18	23	28.93	29.95					
19	OVC	025	7.00	-TSRA	68	66	67	93	10	25	28.78	29.79	19	BKN	250	9.00	80	63	69	56	14	25	28.93	29.95					
22	OVC	012	5.00	-RA BR	65	63	64	93	10	26	28.86	29.87	22	FEW	NC	10.00	73	62	66	69	8	21	28.97	29.98					
SUNRISE: 0542					MAY 03					SUNSET: 1924					SUNRISE: 0536					MAY 09					SUNSET: 1929				
01	OVC	013	10.00		59	57	58	93	10	07	28.86	29.88	01	SCT	NC	9.00	72	63	66	73	8	21	28.93	29.95					
04	OVC	026	10.00		56	52	54	87	5	35	28.92	29.95	04	BKN	046	8.00	69	63	65	81	6	23	28.91	29.92					
07	OVC	024	9.00		55	51	53	87	13	04	28.95	29.98	07	SCT	NC	10.00	74	66	69	76	12	23	28.95	29.96					
10	OVC	018	10.00		56	50	53	81	13	03	28.96	29.99	10	SCT	NC	10.00	78	67	71	69	25	23	28.98	29.99					
13	OVC	024	5.00	-DZ BR	55	52	53	90	7	06	29.02	30.06	13	BKN	050	10.00	82	66	71	58	21	23	28.97	29.98					
16	OVC	031	2.50	RA BR	55	53	54	93	8	17	29.04	30.07	16	BKN	100	10.00	72	66	68	82	12	19	28.99	30.01					
19	BKN	100	2.50	BR	55	54	54	96	12	03	28.99	30.03	19	BKN	250	10.00	71	65	67	81	8	26	29.02	30.04					
22	OVC	070	9.00	-RA	55	52	53	88	0	00	29.07		22	OVC	070	10.00	69	66	67	90	7	24	29.09	30.10					
SUNRISE: 0541					MAY 04					SUNSET: 1925					SUNRISE: 0535					MAY 10					SUNSET: 1930				
01	OVC	065	4.00	-RA BR	54	53	53	97	7	03	29.02	30.06	01	SCT	NC	8.00	67	65	66	93	6	25	29.08	30.10					
04	OVC	027	4.00	-RA BR	53	52	52	96	8	02	29.00	30.04	04	OVC	030	6.00	67	65	66	93	0	00	29.09	30.11					
07	OVC	003	1.00	-RA BR	52	52	52	100	9	05	29.00	30.03	07	OVC	045	8.00	66	62	64	87	6	04	29.16	30.19					
10	OVC	005	4.00	-RA BR	54	53	53	97	8	01	29.03	30.07	10	OVC	021	10.00	65	57	60	76	8	01	29.21	30.24					
13	OVC	005	7.00		58	55	56	90	0	00	29.05	30.08	13	OVC	023	10.00	71	61	65	71	8	03	29.21	30.24					
16	OVC	013	10.00		60	57	58	90	3	33	29.04	30.08	16	OVC	050	10.00	64	60	62	87	12	33	29.23	30.27					
19	OVC	010	2.00	-DZ BR	59	58	58	96	3	34	29.08	30.11	19	BKN	110	10.00	63	60	61	90	7	35	29.20	30.23					
22	OVC	007	5.00	BR	60	58	59	93	0	00	29.14	30.18	22	OVC	019	10.00	62	58	60	86	6	05	29.22	30.26					
SUNRISE: 0540					MAY 05					SUNSET: 1925					SUNRISE: 0534					MAY 11					SUNSET: 1930				
01	OVC	005	3.00	BR	59	58	58	96	3	36	29.16	30.20	01	BKN	100	9.00	60	58	59	93	7	05	29.21	30.25					
04	OVC	015	4.00	BR	58	58	58	100	0	00	29.17	30.21	04	OVC	100	8.00	61	59	60	93	7	04	29.21	30.24					
07	BKN	025	7.00		58	56	57	93	7	04	29.24	30.28	07	BKN	042	10.00	61	57	59	87	7	06	29.22	30.27					
10	FEW	NC	10.00		63	56	59	78	8	07	29.27	30.31	10	CLR	NC	10.00	70	62	65	76	8	06	29.22	30.26					
13	FEW	NC	10.00		72	53	61	52	3	VR	29.24	30.27	13	SCT	NC	10.00	79	67	71	67	7	VR	29.20	30.22					
16	SCT	NC	10.00		75	48	60	39	6	01	29.19	30.22	16	OVC	050	10.00	82	68	73	63	8	22	29.16	30.18					
19	SCT	NC	10.00		71	55	62	57	5	08	29.18	30.22	19	OVC	250	8.00	79	67	71	67	7	23	29.15	30.18					
22	SCT	NC	10.00		62	56	59	81	7	25	29.21	30.24	22	OVC	250	8.00	73	66	69	79	3	24	29.17	30.19					
SUNRISE: 0539					MAY 06					SUNSET: 1926					SUNRISE: 0533					MAY 12					SUNSET: 1931				
01	SCT	NC	10.00		61	55	58	81	0	00	29.20	30.23	01	BKN	055	7.00	70	64	66	82	9	29	29.17	30.19					
04	SCT	NC	9.00		55	53	54	93	3	05	29.18	30.21	04	OVC	250	5.00	67	64	65	91	3	27	29.17	30.19					
07	SCT	NC	7.00		56	54	55	93	3	26	29.20	30.23	07	BKN	200	2.50	66	64	65	93	5	28	29.19	30.21					
10	BKN	250	10.00		69	53	60	57	10	23	29.20	30.23	10	BKN	200	5.00	72	66	68	82	5	VR	29.20	30.22					
13	BKN	250	10.00		78	53	63	42	13	25	29.13	30.15	13	BKN	035	8.00	81	68	72	65	20	23	29.14	30.16					
16	OVC	042	10.00		76	59	65	56	12	27	29.10	30.13	16	BKN	250	7.00	82	66	71	58	18	23	29.08	30.10					
19	OVC	035	10.00		72	62	66	71	10	27	29.11	30.14	19	BKN	250	5.00	78	67	71	69	10	22	29.04	30.06					
22	BKN	035	8.00		69	61	64	76	7	27	29.15	30.17	22	OVC	250	6.00	73	66	68	79	10	22	29.00	30.02					

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 2002

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0532				MAY 13				SUNSET: 1932				SUNRISE: 0528				MAY 19				SUNSET: 1937									
01	BKN	250			7.00	73	66	68	79	12	23	28.95	29.96	01	FEW	NC			10.00	45	41	43	86	7	01	29.10	30.15		
04	SCT	NC			9.00	73	66	68	79	15	21	28.85	29.85	04	CLR	NC			10.00	42	38	40	85	7	03	29.09	30.14		
07	OVC	080			10.00	74	67	69	79	21	23	28.86	29.86	07	SCT	NC			10.00	43	39	41	86	5	09	29.15	30.20		
10	OVC	010			0.75	63	62	62	97	7	33	28.86	29.87	10	FEW	NC			10.00	52	38	45	59	8	03	29.18	30.22		
13	OVC	042			10.00	68	64	66	87	13	28	28.75	29.76	13	SCT	NC			10.00	58	36	47	44	6	08	29.15	30.19		
16	SCT	NC			10.00	66	56	60	70	20	27	28.86	29.87	16	SCT	NC			10.00	58	35	47	42	10	02	29.10	30.14		
19	BKN	035			10.00	57	51	54	81	6	30	28.95	29.97	19	FEW	NC			10.00	58	32	46	38	9	36	29.12	30.16		
22	BKN	043			10.00	53	43	48	69	12	34	29.02	30.06	22	CLR	NC			10.00	51	35	44	54	9	01	29.15	30.19		
SUNRISE: 0532				MAY 14				SUNSET: 1933				SUNRISE: 0527				MAY 20				SUNSET: 1938									
01	OVC	041			10.00	51	39	45	64	6	35	29.02	30.06	01	CLR	NC			10.00	44	37	41	76	6	05	29.14	30.19		
04	CLR	NC			10.00	47	40	44	77	0	00	29.01	30.04	04	CLR	NC			10.00	42	37	40	82	0	00	29.15	30.19		
07	CLR	NC			8.00	47	43	45	86	5	22	29.04	30.08	07	CLR	NC			10.00	44	39	42	83	0	00	29.19	30.24		
10	SCT	NC			10.00	56	45	50	67	9	23	29.02	30.06	10	FEW	NC			10.00	55	39	47	55	3	26	29.21	30.25		
13	BKN	060			10.00	64	45	54	50	6	VR	29.01	30.05	13	BKN	085			10.00	60	38	49	44	8	30	29.17	30.21		
16	SCT	NC			10.00	66	42	54	42	7	30	29.00	30.03	16	BKN	080			10.00	60	38	49	44	9	35	29.14	30.19		
19	SCT	NC			10.00	65	43	53	45	7	29	29.02	30.06	19	BKN	095			10.00	57	37	47	47	9	02	29.15	30.19		
22	FEW	NC			10.00	58	44	51	60	5	30	29.09	30.13	22	OVC	095			10.00	53	39	46	59	7	05	29.20	30.24		
SUNRISE: 0531				MAY 15				SUNSET: 1934				SUNRISE: 0527				MAY 21				SUNSET: 1938									
01	CLR	NC			10.00	50	46	48	86	0	00	29.12	30.16	01	CLR	NC			10.00	49	39	44	69	7	01	29.20	30.24		
04	CLR	NC			10.00	48	45	47	89	0	00	29.14	30.18	04	CLR	NC			10.00	45	39	42	80	3	VR	29.19	30.23		
07	CLR	NC			9.00	50	46	48	86	0	00	29.19	30.23	07	BKN	090			10.00	47	42	45	83	7	05	29.23	30.28		
10	SCT	NC			10.00	63	42	52	47	0	00	29.21	30.25	10	SCT	NC			10.00	55	39	47	55	10	05	29.25	30.30		
13	BKN	250			10.00	69	48	57	47	6	VR	29.19	30.23	13	BKN	070			10.00	57	37	47	47	7	02	29.23	30.29		
16	SCT	NC			10.00	73	44	57	36	3	VR	29.14	30.18	16	BKN	080			10.00	58	36	47	44	10	02	29.21	30.26		
19	BKN	250			10.00	69	48	57	47	0	00	29.12	30.16	19	SCT	NC			10.00	55	38	47	53	8	03	29.21	30.26		
22	SCT	NC			10.00	61	49	54	65	0	00	29.13	30.16	22	CLR	NC			10.00	49	37	43	64	7	02	29.25	30.30		
SUNRISE: 0530				MAY 16				SUNSET: 1934				SUNRISE: 0526				MAY 22				SUNSET: 1939									
01	CLR	NC			10.00	56	49	52	77	0	00	29.13	30.16	01	CLR	NC			10.00	45	38	42	77	9	04	29.25	30.31		
04	BKN	150			10.00	57	50	53	78	6	22	29.15	30.18	04	CLR	NC			10.00	42	37	40	82	8	04	29.23	30.29		
07	BKN	250			8.00	54	52	53	93	3	05	29.19	30.22	07	CLR	NC			7.00	44	39	42	83	8	06	29.29	30.35		
10	BKN	250			10.00	66	52	58	61	6	24	29.17	30.20	10	CLR	NC			10.00	55	42	49	62	5	VR	29.30	30.36		
13	SCT	NC			10.00	77	56	64	48	13	23	29.11	30.14	13	FEW	NC			10.00	64	43	53	46	3	VR	29.25	30.30		
16	SCT	NC			10.00	79	55	64	44	17	23	29.04	30.07	16	FEW	NC			10.00	68	44	55	42	3	VR	29.20	30.24		
19	BKN	250			9.00	75	57	64	54	9	24	29.03	30.06	19	CLR	NC			10.00	65	47	55	52	0	00	29.18	30.22		
22	OVC	250			10.00	66	56	60	70	8	21	29.03	30.05	22	CLR	NC			10.00	58	46	52	65	0	00	29.21	30.25		
SUNRISE: 0529				MAY 17				SUNSET: 1935				SUNRISE: 0525				MAY 23				SUNSET: 1940									
01	SCT	NC			9.00	65	55	59	70	8	26	29.01	30.03	01	CLR	NC			10.00	52	46	49	80	6	21	29.18	30.22		
04	SCT	NC			10.00	62	55	58	78	6	27	28.97	29.99	04	CLR	NC			5.00	46	45	46	96	5	08	29.17	30.20		
07	SCT	NC			9.00	64	57	60	78	5	33	28.95	29.98	07	FEW	NC			4.00	48	46	47	93	3	07	29.21	30.26		
10	OVC	250			10.00	72	59	64	64	5	21	28.97	29.99	10	CLR	NC			10.00	61	48	54	63	0	00	29.22	30.27		
13	BKN	250			10.00	77	65	69	66	14	23	28.88	29.89	13	CLR	NC			10.00	70	50	59	49	0	00	29.16	30.19		
16	BKN	250			10.00	81	61	68	51	16	20	28.76	29.77	16	CLR	NC			10.00	73	51	60	46	0	00	29.09	30.12		
19	BKN	250			10.00	77	62	67	60	13	21	28.71	29.72	19	CLR	NC			10.00	71	50	59	47	6	30	29.06	30.10		
22	OVC	050			6.00	69	67	68	93	13	24	28.70	29.71	22	CLR	NC			10.00	62	52	56	70	3	20	29.08	30.11		
SUNRISE: 0529				MAY 18				SUNSET: 1936				SUNRISE: 0525				MAY 24				SUNSET: 1941									
01	OVC	019			7.00	67	66	66	97	16	22	28.69	29.69	01	CLR	NC			10.00	57	50	53	78	0	00	29.06	30.09		
04	OVC	014			10.00	52	50	51	93	8	36	28.83	29.85	04	CLR	NC			9.00	52	49	50	89	0	00	29.09	30.12		
07	OVC	014			10.00	48	44	46	86	13	03	28.95	29.98	07	SCT	NC			7.00	55	50	52	83	0	00	29.11	30.15		
10	OVC	018			10.00	50	44	47	80	9	36	28.97	30.01	10	FEW	NC			10.00	70	53	60	55	9	24	29.11	30.14		
13	OVC	026			10.00	53	43	48	69	17	04	29.02	30.05	13	SCT	NC			10.00	75	55	63	50	3	VR	29.08	30.11		
16	BKN	044			10.00	54	41	48	62	9	36	29.03	30.07	16	BKN	250			10.00	77	54	63	45	8	30	29.02	30.05		
19	BKN	055			10.00	54	41	48	62	6	03	29.07	30.11	19	BKN	250			10.00	74	57	64	56	8	21	29.00	30.03		
22	CLR	NC			10.00	48	41	45	77	6	02	29.10	30.15	22	SCT	NC			10.00	68	55	60	63	3	16	29.03	30.05		

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

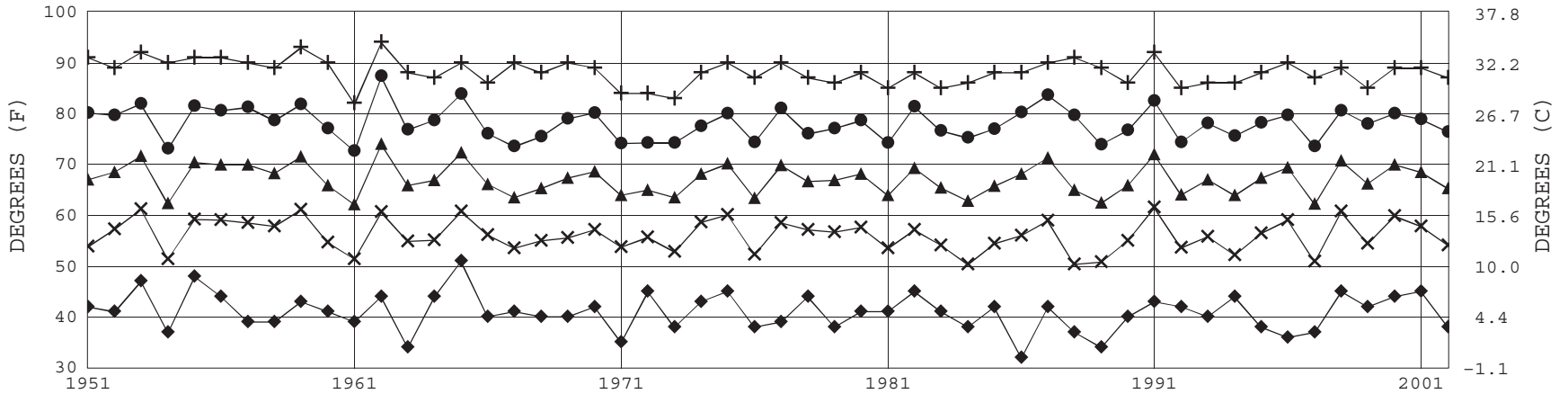
MAY 2002

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: 0524 MAY 25 SUNSET: 1941												SUNRISE: 0522 MAY 31 SUNSET: 1945																								
01	SCT	NC		7.00	60	54	57	80	0	00	29.01	30.04	01	OVC	110		10.00	71	64	67	79	8	24	28.84	29.84											
04	BKN	250		6.00	56	54	55	93	0	00	29.04	30.06	04	BKN	060		10.00	69	64	66	84	3	26	28.83	29.84											
07	FEW	NC		6.00	58	55	56	90	0	00	29.10	30.13	07	FEW	NC		10.00	69	64	66	84	6	25	28.88	29.90											
10	SCT	NC		10.00	74	59	65	60	3	23	29.09	30.11	10	SCT	NC		10.00	78	66	70	67	0	00	28.89	29.90											
13	SCT	NC		10.00	80	58	66	47	9	23	29.05	30.08	13	BKN	250		10.00	83	64	71	53	3	VR	28.87	29.87											
16	FEW	NC		10.00	81	59	67	47	8	26	29.00	30.02	16	BKN	250		10.00	84	65	71	53	7	29	28.83	29.83											
19	OVC	250		10.00	76	61	67	60	9	24	28.98	30.01	19	SCT	NC		10.00	83	66	72	57	7	26	28.81	29.82											
22	OVC	250		10.00	70	59	63	68	3	26	29.03	30.05	22	CLR	NC		10.00	76	66	69	72	0	00	28.87	29.87											
SUNRISE: 0524 MAY 26 SUNSET: 1942												3-HOURLY OBSERVATION NOTES																								
01	OVC	250		7.00	66	59	62	78	0	00	29.04	30.06	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	OVC	250		5.00	60	58	59	93	0	00	29.02	30.04	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																							
07	OVC	250		4.00	64	60	62	87	3	27	29.06	30.09	NC = No ceiling detected.																							
10	SCT	NC		9.00	76	64	68	67	5	VR	29.08	30.11	& = Original observation contained additional weather elements.																							
13	SCT	NC		10.00	82	65	71	56	9	28	29.06	30.08	See page 3 for additional notes.																							
16	OVC	250		10.00	78	64	69	62	16	28	29.02	30.05																								
19	OVC	130		10.00	73	61	66	66	8	06	29.04	30.07																								
22	BKN	150		10.00	68	61	64	78	5	02	29.06	30.08																								
SUNRISE: 0523 MAY 27 SUNSET: 1943																																				
01	FEW	NC		9.00	63	60	61	90	3	36	29.04	30.06																								
04	FEW	NC		5.00	59	59	59	100	3	05	29.03	30.06																								
07	FEW	NC		5.00	62	60	61	93	0	00	29.07	30.09																								
10	CLR	NC		8.00	73	62	66	69	3	VR	29.09	30.11																								
13	SCT	NC		8.00	80	64	70	58	0	00	29.05	30.07																								
16	BKN	180		7.00	75	67	70	76	7	12	29.01	30.03																								
19	OVC	120		10.00	72	61	65	69	0	00	29.02	30.05																								
22	OVC	130		9.00	68	62	64	81	5	07	29.04	30.06																								
SUNRISE: 0523 MAY 28 SUNSET: 1943																																				
01	BKN	150		7.00	65	62	63	90	7	26	29.04	30.06																								
04	FEW	NC		7.00	63	60	61	90	0	00	29.02	30.04																								
07	SCT	NC		3.00	63	61	62	93	0	00	29.06	30.08																								
10	BKN	095		6.00	71	63	66	76	0	00	29.07	30.10																								
13	OVC	100		9.00	77	63	68	62	8	07	29.04	30.06																								
16	BKN	110		9.00	79	65	70	62	6	06	28.97	29.99																								
19	BKN	250		10.00	77	65	69	66	3	35	28.95	29.97																								
22	SCT	NC		7.00	69	65	66	87	5	07	28.98	30.00																								
SUNRISE: 0522 MAY 29 SUNSET: 1944																																				
01	CLR	NC		9.00	67	61	63	81	0	00	28.97	29.99																								
04	SCT	NC		5.00	61	60	60	97	3	01	28.97	29.99																								
07	FEW	NC		3.00	63	61	62	93	0	00	28.99	30.01																								
10	FEW	NC		10.00	77	62	67	60	3	VR	28.98	30.00																								
13	BKN	065		10.00	82	60	68	47	7	01	28.95	29.97																								
16	SCT	NC		10.00	83	60	68	46	7	01	28.89	29.91																								
19	BKN	070		10.00	81	61	68	51	3	03	28.86	29.87																								
22	OVC	100		10.00	74	63	67	69	8	25	28.90	29.91																								
SUNRISE: 0522 MAY 30 SUNSET: 1945																																				
01	FEW	NC		10.00	68	63	65	84	0	00	28.88	29.90																								
04	CLR	NC		7.00	64	61	62	90	0	00	28.88	29.89																								
07	SCT	NC		6.00	65	61	63	87	3	16	28.90	29.93																								
10	SCT	NC		9.00	76	62	67	62	6	06	28.91	29.92																								
13	SCT	NC		10.00	83	61	69	48	10	02	28.87	29.88																								
16	SCT	NC		10.00	86	58	68	39	7	VR	28.80	29.80																								
19	SCT	NC		10.00	82	61	69	49	7	02	28.79	29.80																								
22	BKN	250		10.00	76	62	67	62	6	19	28.83	29.84																								

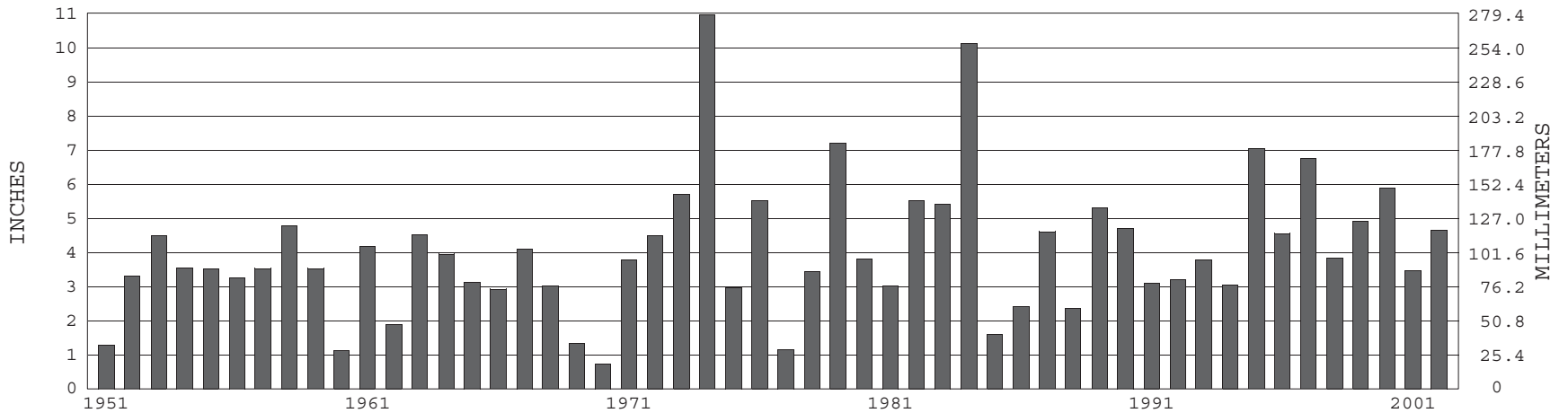
KNOXVILLE, TN MAY TEMPERATURES



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

Long-Term (1951-2002) Mean: 67.1 1961-1990 Normal: 66.0

KNOXVILLE, TN MAY PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 4.05

1961-1990 Normal: 4.68



MAY 2002

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.

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions on-line with your credit card, go to: www.ncdc.noaa.gov and choose subscriptions.

We welcome your questions or comments, please contact us at
Toll Free Number (866) 742–3322 (voice)
Fax Number :(304) 726–4409
TDD : 828–271–4010
or Email : ncdc.info@noaa.gov
Local Climatological Data is available at www.ncdc.noaa.gov

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center
310 State Route 956 Building 300
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS
POSTAGE AND FEES PAID
NOAA
PERMIT G-19