



# APRIL 1998

## 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

APRIL 1998  
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	70	52	61	7	47	54	4	0	TSRA RA BR	0		0.0	1.05	28.83	29.86	12.5	23	13.1	33	26	29	26	01						
02	76	50	63	9	40	52	2	0		0		0.0	0.00	28.91	29.94	9.0	25	9.6	26	24	20	25	02						
03	62	46	54	0	49	52	11	0	TS TSRA RA BR	0		0.0	0.96	28.71	29.74	0.4	36	6.0	43*	28	34*	28	03						
04	56	46	51	-4	43	46	14	0	RA BR HZ	0		0.0	T	28.74	29.78	5.9	31	10.6	23	28	18	27	04						
05	61	36	49	-6	36	43	16	0	BR	0		0.0	0.00	28.92	29.96	4.1	06	4.6	16	04	14	05	05						
06	69	37	53	-2	34	44	12	0		0		0.0	0.00	28.88	29.92	0.3	08	1.7	15	01	9	28	06						
07	77	41	59	4	44	52	6	0		0		0.0	0.00	28.79	29.82	5.5	26	7.7	25	26	22	24	07						
08	80*	58	69	13	58	62	0	4	TS TSRA RA BR	0		0.0	0.65	28.68	29.69	5.4	25	11.9	25	23	21	23	08						
09	63	48	56	0	48	52	9	0	TSRA RA DZ BR	0		0.0	0.36	28.57	29.59	15.1	25	16.1	37	27	32	26	09						
10	48	42	45*	-11	41	43	20	0	RA DZ BR	0		0.0	0.01	28.85	29.89	8.0	28	.2	28	29	22	29	10						
11	63	34	49	-7	37	43	16	0	FG+ BR HZ	0		0.0	0.00	29.12	30.17	0.9	07	2.3	16	05	13	01	11						
12	70	34*	52	-5	36	46	13	0		0		0.0	0.00	29.14	30.18	4.6	05	5.3	18	06	16	08	12						
13	73	44	59	2	41	51	6	0	RA	0		0.0	T	29.03	30.06	6.5	20	8.7	29	20	24	23	13						
14	73	56	65	8	56	59	0	0	RA BR	0		0.0	0.33	28.86	29.88	10.4	24	10.8	25	23	22	22	14						
15	77	53	65	8	59	62	0	0	FG+ BR	0		0.0	0.00	28.78	29.80	8.3	23	9.1	28	23	24	24	15						
16	75	63	69*	11	61	64	0	4	TS TSRA RA BR	0		0.0	2.39	28.71	29.72	9.6	22	11.6	36	22	26	22	16						
17	65	53	59	1	54	56	6	0	TSRA RA BR	0		0.0	0.13	28.90	29.93	3.9	29	7.3	29	23	22	24	17						
18	58	50	54	-4	52	53	11	0	TS TSRA RA BR	0		0.0	1.44	29.02	30.06	6.2	03	7.3	22	32	17	01	18						
19	62	49	56	-2	53	55	9	0	TSRA RA BR	0		0.0	2.38	28.88	29.91	3.9	27	6.8	21	28	17	28	19						
20	61	46	54	-4	44	49	11	0		0		0.0	0.00	29.02	30.06	8.8	04	9.2	22	04	18	03	20						
21	68	42	55	-4	48	51	10	0	TSRA RA DZ BR	0		0.0	0.35	28.97	30.01	0.7	05	3.5	34	24	26	24	21						
22	57	48	53	-6	49	50	12	0	RA DZ BR	0		0.0	0.21	28.89	29.92	3.2	34	5.3	17	30	14	30	22						
23	58	47	53	-7	48	50	12	0	TS TSRA RA BR	0		0.0	0.20	28.90	29.93	1.7	24	3.8	20	09	17	09	23						
24	70	42	56	-4	44	50	9	0	BR	0		0.0	0.00	28.98	30.02	5.0	25	5.7	20	27	16	26	24						
25	74	45	60	0	47	53	5	0	BR	0		0.0	0.00	29.02	30.05	4.5	24	4.8	20	24	16	24	25						
26	75	55	65	5	50	56	0	0	HZ	0		0.0	0.00	28.96	29.98	12.1	24	12.1	30	25	28	25	26						
27	66	54	60	0	56	58	5	0	RA BR HZ	0		0.0	0.32	29.00	30.03	1.9	33	5.9	23	06	20	06	27						
28	65	51	58	-3	50	54	7	0		0		0.0	0.00	29.15	30.19	4.7	03	5.7	18	03	16	03	28						
29	68	50	59	-2	53	56	6	0	RA BR	0		0.0	0.02	29.14	30.18	1.8	03	2.5	9	06	8	06	29						
30	69	57	63	2	60	61	2	0	RA DZ BR	0		0.0	0.27	28.88	29.91	2.7	01	3.9	10	29	9	30	30						
< MONTHLY AVERAGES										TOTALS-->				0.0	11.07	28.91	29.94	3.0	26	7.1	<- MONTHLY AVERAGES								
-3.4										3.0				-2				<----- DEPARTURE FROM NORMAL ----->				7.35				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 3.69 DATE: 18-19				SEA LEVEL PRESSURE				DATE TIME											
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:				MAXIMUM				: 30.27 12 1012											
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 0 DATE:				MINIMUM				: 29.41 08 2134											
HEATING: 234 0 3589 -254										NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 16							
COOLING: 8 -1 32 23														MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 14							
														THUNDERSTORMS: 10				HEAVY FOG: 2				SNOWFALL ≥ 1.0 INCH: 0							

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# KNOXVILLE, TN

APRIL 1998

TYS

WBAN # 13891

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01	0.06	0.37	0.41	0.12	0.09	0.01	T						01												01	1.06	1.05		
02													02												02		0.00		
03													03	T		0.01		T	0.04	0.03	0.02	0.17	0.04	0.01	03		0.96		
04	T												04												04		T		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08	0.64	0.65		
09	0.23	0.02	0.04	0.06			T	0.03					09								0.12	0.04	0.44	0.01	09	0.37	0.36		
10	T	T	T	T	T			0.01					10							0.01	T	T		10		0.36			
11													11												11		0.01		
12													12												12		0.00		
13													13												13		0.00		
14	T	0.02	0.03	0.08	0.09			0.08	0.02	0.01			14												14		T		
15													15												15		0.33		
16													16	0.24	T	T				0.05	0.06	0.03	0.04	0.10	1.10	0.74	2.38	2.39	
17	0.13	0.01											17												17	0.14	0.13		
18													18		0.03	0.05	0.20	T	T	T		0.03	0.33	0.58	0.16	18		1.44	
19	0.09	0.49	0.19	0.13	0.28	0.29	0.24	0.14	0.15	0.13	0.12	0.06	19	T		0.01	0.06					0.03	0.33	0.58	0.16	19		2.38	
20													20												20		0.00		
21													21												21		0.35		
22	T	T	T	0.01	0.03	0.10	0.02						22							0.01	0.14	0.11	0.07	0.02	0.01	22		0.21	
23	T	T											23	0.09	0.03	0.03	0.01	T	T	T		0.02	0.01	0.01	23		0.20		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27	0.07		0.01									27	0.12	0.32		
28													28												28		0.00		
29													29												29		0.02		
30	0.01	0.01	0.06	0.05	0.06	0.02	0.03	0.02	0.01	T			30	T	T									30		0.27			

## MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

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

Date and time are not entered for TRACE amounts.

Note 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: 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	PE 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 APRIL 1998

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 at constant pressure by evaporation of moisture into it, to 100% relative humidity.

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	386	51					2.00	10.00	
02	349						10.00	10.00	
03	168						2.50	10.00	
04	30						6.00	10.00	
05	327						4.00	10.00	
06	760						9.00	10.00	
07	378						10.00	10.00	
08	564	73					7.00	10.00	
09	207	27					4.00	10.00	
10	0	0					6.00	10.00	
11	365	47					<.25	10.00	
12	772						10.00	10.00	
13	609						10.00	10.00	
14	560	72					2.50	10.00	
15	534	68					.25	10.00	
16	141						.75	10.00	
17	154						6.00	10.00	
18	39						1.50	10.00	
19	189						1.75	10.00	
20	701						8.00	10.00	
21	587	74					2.50	10.00	
22	275	34					3.00	10.00	
23	405	50					3.00	10.00	
24	683	84					5.00	10.00	
25	595						6.00	10.00	
26	620	77					7.00	10.00	
27	141	17					1.75	10.00	
28	380	47					10.00	10.00	
29	447	55					6.00	10.00	
30	327						.75	10.00	
MONTHLY AVGS							4.88	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total: 11693    Possible: 23591 Percent Possible: 50									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 30									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 2            13            9									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

APRIL 1998

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		
	SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
			SUNRISE: 0511	APR 01	SUNSET: 1745									SUNRISE: 0503	APR 07	SUNSET: 1750								
01	BKN	035	5.00	RA BR	64	63	63	96	10	23	28.74	29.74	01	CLR	NC	10.00	45	38	42	77	3	07	28.84	29.87
04	OVC	019	5.00	-RA BR	57	53	55	87	13	25	28.80	29.81	04	CLR	NC	10.00	43	40	42	89	6	06	28.83	29.86
07	BKN	080	10.00		53	50	51	89	8	23	28.87	29.89	07	FEW	NC	10.00	44	39	42	83	3	01	28.85	29.88
10	BKN	030	10.00		59	48	53	67	12	23	28.89	29.92	10	FEW	NC	10.00	59	43	51	56	0	00	28.85	29.88
13	FEW	NC	10.00		67	46	56	47	15	23	28.86	29.88	13	FEW	NC	10.00	75	49	60	40	12	29	28.75	29.78
16	CLR	NC	10.00		70	42	55	37	20	25	28.81	29.83	16	SCT	NC	10.00	75	46	59	36	18	26	28.71	29.73
19	CLR	NC	10.00		65	41	53	42	14	24	28.81	29.84	19	BKN	070	10.00	71	50	59	47	18	25	28.73	29.75
22	CLR	NC	10.00		58	40	49	51	8	21	28.87	29.89	22	SCT	NC	10.00	62	51	56	67	7	23	28.76	29.78
			SUNRISE: 0510	APR 02	SUNSET: 1746									SUNRISE: 0502	APR 08	SUNSET: 1751								
01	CLR	NC	10.00		57	40	49	53	13	23	28.88	29.91	01	CLR	NC	10.00	62	51	56	67	12	22	28.75	29.77
04	CLR	NC	10.00		52	41	47	66	9	23	28.88	29.91	04	CLR	NC	10.00	65	58	61	78	22	22	28.72	29.74
07	CLR	NC	10.00		54	42	48	64	7	29	28.93	29.96	07	BKN	040	9.00	66	58	61	75	18	29	28.81	29.83
10	CLR	NC	10.00		66	44	54	45	12	27	28.96	29.99	10	FEW	NC	8.00	72	61	65	69	16	23	28.78	29.79
13	CLR	NC	10.00		72	42	56	34	16	25	28.94	29.96	13	FEW	NC	10.00	77	60	66	56	13	26	28.71	29.72
16	CLR	NC	10.00		76	38	56	25	16	26	28.88	29.91	16	SCT	NC	10.00	80	61	68	52	5	03	28.63	29.64
19	CLR	NC	10.00		68	37	52	32	7	26	28.87	29.91	19	SCT	NC	10.00	68	56	61	66	7	06	28.58	29.60
22	CLR	NC	10.00		60	38	49	44	5	19	28.91	29.94	22	OVC	060	8.00	62	57	59	84	6	06	28.48	29.48
			SUNRISE: 0509	APR 03	SUNSET: 1747									SUNRISE: 0500	APR 09	SUNSET: 1752								
01	CLR	NC	10.00		56	40	48	55	3	06	28.90	29.93	01	OVC	036	4.00	59	58	58	96	5	10	28.47	29.48
04	CLR	NC	10.00		51	39	45	64	3	08	28.85	29.87	04	OVC	090	7.00	61	60	60	97	9	22	28.45	29.45
07	SCT	NC	10.00		50	41	46	71	0	00	28.83	29.85	07	FEW	NC	10.00	59	56	57	90	14	25	28.49	29.49
10	OVC	028	2.50	RA BR	49	47	48	93	8	09	28.83	29.86	10	BKN	060	10.00	61	50	55	67	23	23	28.53	29.54
13	OVC	043	7.00		56	53	54	90	6	36	28.72	29.74	13	BKN	060	10.00	56	42	49	60	30	27	28.58	29.61
16	OVC	036	10.00		60	55	57	84	5	VR	28.61	29.63	16	OVC	035	10.00	52	40	46	64	24	25	28.62	29.65
19	SCT	NC	7.00		57	56	56	96	9	14	28.51	29.52	19	OVC	035	10.00	51	42	47	71	16	25	28.66	29.69
22	OVC	080	10.00	-RA	57	54	55	90	9	24	28.59	29.62	22	OVC	038	10.00	49	42	46	77	18	25	28.70	29.73
			SUNRISE: 0507	APR 04	SUNSET: 1748									SUNRISE: 0457	APR 10	SUNSET: 1753								
01	SCT	NC	10.00		54	51	52	90	14	25	28.53	29.56	01	OVC	026	10.00	48	44	46	86	20	24	28.69	29.72
04	OVC	021	10.00		53	48	50	83	12	25	28.55	29.58	04	OVC	021	9.00	46	41	44	83	21	28	28.70	29.73
07	OVC	020	10.00		51	45	48	80	14	26	28.61	29.64	07	OVC	022	10.00	46	39	43	77	14	28	28.74	29.78
10	OVC	034	10.00		50	45	47	83	10	30	28.70	29.73	10	OVC	033	10.00	46	40	43	79	13	29	28.80	29.83
13	OVC	021	10.00		48	40	44	74	13	01	28.77	29.80	13	OVC	018	10.00	46	39	43	77	7	30	28.85	29.89
16	OVC	019	9.00		46	40	43	79	12	01	28.84	29.88	16	OVC	020	10.00	46	39	43	77	5	30	28.90	29.95
19	OVC	025	10.00		47	39	43	74	6	01	28.88	29.92	19	OVC	038	10.00	45	40	43	83	0	00	28.96	30.01
22	OVC	023	10.00		46	39	43	77	7	02	28.92	29.97	22	OVC	065	8.00	44	41	43	89	5	19	29.02	30.07
			SUNRISE: 0506	APR 05	SUNSET: 1749									SUNRISE: 0456	APR 11	SUNSET: 1754								
01	SCT	NC	10.00		44	38	41	79	5	02	28.90	29.95	01	CLR	NC	5.00	41	40	41	96	0	00	29.04	30.09
04	CLR	NC	10.00		42	36	39	79	0	00	28.92	29.97	04	OVC	001	<.25	34	34	34	100	0	00	29.07	30.13
07	CLR	NC	4.00	BR	36	35	36	97	3	07	28.96	30.01	07	VV	001	<.25	34	34	34	100	0	00	29.12	30.18
10	FEW	NC	10.00		48	36	43	63	10	07	28.97	30.02	10	SCT	NC	3.00	45	44	45	97	3	08	29.17	30.22
13	CLR	NC	10.00		55	38	47	53	7	10	28.95	29.99	13	CLR	NC	10.00	57	36	47	45	7	VR	29.15	30.20
16	CLR	NC	10.00		61	34	48	36	6	02	28.87	29.91	16	CLR	NC	10.00	61	36	49	39	5	VR	29.10	30.15
19	CLR	NC	10.00		56	33	45	42	5	09	28.87	29.91	19	CLR	NC	10.00	60	36	48	41	0	00	29.10	30.15
22	CLR	NC	10.00		51	32	43	48	0	00	28.89	29.93	22	CLR	NC	10.00	51	37	45	59	0	00	29.15	30.20
			SUNRISE: 0504	APR 06	SUNSET: 1750									SUNRISE: 0455	APR 12	SUNSET: 1755								
01	CLR	NC	10.00		42	37	40	82	3	05	28.88	29.92	01	CLR	NC	10.00	44	38	41	79	0	00	29.16	30.21
04	CLR	NC	10.00		40	35	38	83	0	00	28.88	29.93	04	CLR	NC	10.00	38	35	37	89	5	05	29.17	30.21
07	CLR	NC	9.00		38	35	37	89	0	00	28.94	29.98	07	CLR	NC	10.00	39	35	37	86	0	00	29.21	30.26
10	CLR	NC	10.00		53	38	46	57	3	VR	28.93	29.97	10	CLR	NC	10.00	59	39	49	48	10	07	29.21	30.26
13	CLR	NC	10.00		64	34	50	33	3	VR	28.92	29.96	13	CLR	NC	10.00	66	36	51	33	10	05	29.18	30.22
16	CLR	NC	10.00		67	27	49	22	0	00	28.85	29.88	16	CLR	NC	10.00	69	35	52	29	6	03	29.09	30.13
19	CLR	NC	10.00		64	30	48	28	6	22	28.83	29.86	19	CLR	NC	10.00	64	34	50	33	6	05	29.06	30.11
22	CLR	NC	10.00		54	35	45	49	0	00	28.85	29.88	22	CLR	NC	10.00	54	36	46	51	0	00	29.07	30.10

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

APRIL 1998

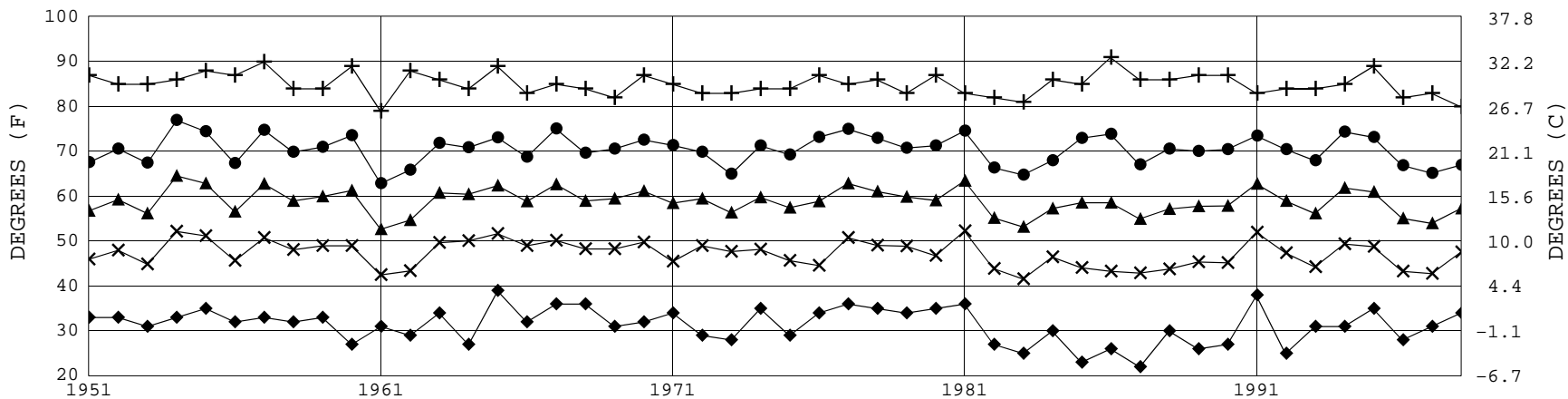
TYS

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)			
	SKY COVER	CEILING 100'S OF FT		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	SKY COVER		CEILING 100'S OF FT	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: 0453								APR 13								SUNSET: 1755															
01	CLR	NC				10.00		47	39	43	74	3	13	29.08	30.12	01	OVC	045				3.00	+RA BR	56	56	56	100	7	06	28.86	29.88
04	CLR	NC				10.00		50	35	43	57	3	11	29.08	30.11	04	OVC	026				2.50	+RA BR	56	55	55	97	3	26	28.87	29.91
07	SCT	NC				10.00		47	40	44	77	3	02	29.11	30.15	07	OVC	024				3.00	RA BR	56	55	55	97	0	00	28.85	29.87
10	SCT	NC				10.00		61	43	52	52	3	VR	29.11	30.14	10	OVC	013				3.00	RA BR	56	55	55	97	7	23	28.86	29.88
13	BKN	120				10.00		68	39	53	35	16	17	29.06	30.10	13	BKN	020				7.00		58	56	57	93	8	27	28.83	29.86
16	SCT	NC				10.00		70	42	55	37	21	22	28.96	30.00	16	BKN	038				10.00		61	55	58	81	10	29	28.82	29.85
19	SCT	NC				10.00		67	42	54	41	13	20	28.91	29.95	19	OVC	020				10.00		55	50	52	83	13	29	28.90	29.93
22	BKN	080				10.00		66	43	54	43	7	20	28.91	29.94	22	BKN	055				10.00		51	46	49	83	0	00	28.99	30.03
SUNRISE: 0452								APR 14								SUNSET: 1756															
01	OVC	060				7.00		63	48	55	58	14	22	28.91	29.93	01	OVC	046				10.00		50	45	47	83	5	36	29.01	30.05
04	OVC	044				4.00	RA BR	56	54	55	93	10	25	28.88	29.91	04	OVC	040				10.00		50	44	47	80	8	01	29.02	30.06
07	OVC	032				2.50	RA BR	56	55	55	97	12	26	28.91	29.94	07	FEW	NC				8.00		47	44	46	90	9	03	29.04	30.09
10	SCT	NC				10.00		63	58	60	84	12	23	28.87	29.90	10	SCT	NC				10.00		55	43	49	64	16	04	29.05	30.09
13	BKN	032				10.00		66	57	61	73	12	25	28.87	29.88	13	FEW	NC				10.00		60	44	52	56	10	04	29.02	30.06
16	SCT	NC				10.00		73	59	64	62	14	24	28.81	29.83	16	FEW	NC				10.00		60	42	51	52	14	03	28.99	30.03
19	FEW	NC				10.00		66	58	61	75	10	23	28.81	29.83	19	CLR	NC				10.00		57	44	50	62	8	07	28.99	30.03
22	CLR	NC				9.00		63	56	59	78	5	25	28.86	29.88	22	SCT	NC				10.00		53	43	48	69	8	36	29.00	30.04
SUNRISE: 0451								APR 15								SUNSET: 1757															
01	SCT	NC				8.00		59	56	57	90	5	28	27.84	28.84	01	BKN	065				10.00		50	45	47	83	0	00	29.00	30.04
04	SCT	NC				4.00	BR	56	55	55	97	0	00	28.87	29.91	04	FEW	NC				9.00		46	45	46	96	0	00	28.99	30.03
07	OVC	001				0.50	BR	55	55	55	100	3	13	28.88	29.93	07	FEW	NC				7.00		45	44	45	97	0	00	29.02	30.06
10	FEW	NC				7.00		66	59	62	78	0	00	28.86	29.88	10	FEW	NC				10.00		58	47	52	67	0	00	29.00	30.04
13	BKN	041				8.00		74	63	67	69	18	23	28.85	29.86	13	BKN	095				10.00		65	45	54	49	0	00	28.96	30.00
16	SCT	NC				10.00		77	63	68	62	20	23	28.77	29.78	16	SCT	NC				10.00		66	47	56	50	6	11	28.89	29.93
19	SCT	NC				10.00		70	60	64	71	9	23	28.75	29.77	19	OVC	032				2.50	RA BR	52	51	52	97	8	24	28.97	30.01
22	FEW	NC				10.00		69	59	63	70	13	22	28.75	29.77	22	OVC	065				5.00	-RA BR	51	51	51	100	6	07	28.96	30.01
SUNRISE: 0449								APR 16								SUNSET: 1758															
01	CLR	NC				10.00		69	58	62	68	14	22	28.73	29.74	01	OVC	060				8.00	-RA	50	50	50	100	3	01	28.94	29.98
04	SCT	NC				10.00		67	58	62	73	13	22	28.73	29.74	04	OVC	048				8.00	DZ	50	49	49	96	6	05	28.89	29.93
07	OVC	060				10.00		68	58	62	70	15	21	28.72	29.73	07	BKN	048				3.00	BR	50	50	50	100	3	11	28.89	29.93
10	BKN	055				9.00		69	58	62	68	18	21	28.73	29.74	10	OVC	015				7.00		52	49	50	89	3	34	28.90	29.94
13	OVC	030				2.50	+TSRA BR	64	61	62	90	7	26	28.78	29.80	13	BKN	017				10.00		55	50	52	83	5	32	28.87	29.91
16	BKN	036				7.00		71	66	68	84	6	07	28.68	29.69	16	OVC	060				10.00		56	49	52	77	10	32	28.85	29.88
19	OVC	042				3.00	RA BR	69	65	66	87	15	22	28.66	29.67	19	OVC	023				10.00	-RA	52	47	49	83	7	02	28.87	29.90
22	OVC	039				3.00	TSRA BR	64	63	63	96	0	00	28.65	29.66	22	OVC	055				5.00	-RA BR	50	49	49	96	5	28	28.88	29.92
SUNRISE: 0448								APR 17								SUNSET: 1759															
01	BKN	055				9.00	-RA	64	63	63	96	8	14	28.66	29.68	01	OVC	026				3.00	-RA BR	49	49	49	100	5	25	28.86	29.89
04	BKN	022				10.00		64	63	63	96	8	23	28.72	29.74	04	OVC	050				7.00		49	48	48	97	3	36	28.85	29.88
07	OVC	005				6.00	BR	58	56	57	93	9	29	28.81	29.83	07	OVC	048				9.00		50	48	49	93	0	00	28.88	29.92
10	OVC	009				6.00	BR	58	55	56	90	7	29	28.88	29.91	10	BKN	080				10.00		53	49	51	86	5	27	28.90	29.94
13	OVC	019				10.00		61	53	57	75	5	30	28.93	29.96	13	BKN	033				4.00	-TSRA BR	52	49	50	89	5	15	28.89	29.93
16	SCT	NC				10.00		62	50	55	65	3	VR	28.96	29.99	16	BKN	060				10.00		55	48	51	77	6	20	28.88	29.92
19	BKN	040				10.00		59	48	53	67	0	00	29.02	30.06	19	SCT	NC				10.00		54	48	51	80	6	23	28.89	29.93
22	CLR	NC				10.00		55	46	50	72	9	03	29.05	30.09	22	FEW	NC				10.00		51	48	50	89	3	16	28.95	29.99
SUNRISE: 0447								APR 18								SUNSET: 1760															
01	CLR	NC				10.00		52	45	48	77	7	02	29.05	30.09	01	CLR	NC				8.00		46	45	46	96	5	25	28.96	30.01
04	SCT	NC				10.00		51	46	49	83	5	05	29.05	30.09	04	CLR	NC				5.00	BR	43	43	43	100	3	19	28.96	30.00
07	OVC	037				5.00	BR	50	48	49	93	5	04	29.09	30.13	07	CLR	NC				5.00	BR	45	44	45	97	3	20	29.00	30.04
10	OVC	025				6.00	BR	53	50	51	89	7	05	29.09	30.13	10	CLR	NC				10.00		59	48	53	67	9	23	29.02	30.06
13	OVC	023				5.00	BR	55	53	54	93	8	04	29.04	30.08	13	BKN	095				10.00		66	45	55	47	7	28	28.98	30.02
16	OVC	005				2.00	-RA BR	54	54	54	100	6	04	28.99	30.03	16	BKN	100				10.00		70	41	55	35	12	28	28.95	29.98
19	OVC	003				1.50	BR	56	55	55	97	9	04	28.92	29.96	19	CLR	NC				10.00		62	44	53	52	6	24	28.95	29.99
22	OVC	014				3.00	TSRA BR	57	56	56	96	7	05	28.94	29.98	22	CLR	NC				10.00		56	42	49	60	0	00	28.99	30.03



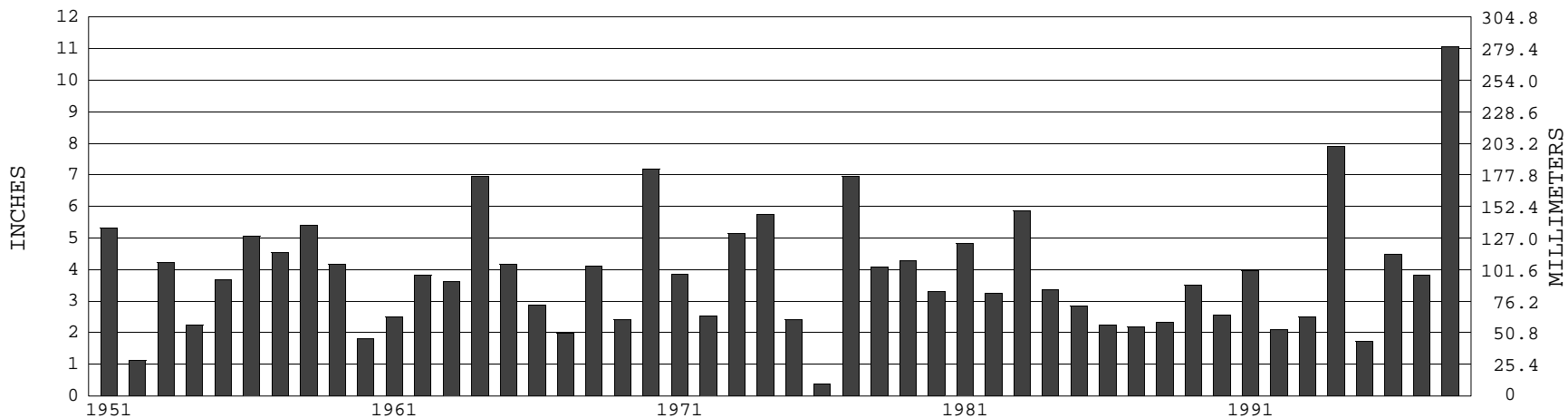
### KNOXVILLE, TN APRIL TEMPERATURES



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

Long-Term (1951-1998) Mean: 58.9      1961-1990 Normal: 57.5

### KNOXVILLE, TN APRIL PRECIPITATION



Long-Term (1951-1998) Mean Monthly Total: 3.89

1961-1990 Normal: 3.72



**APRIL 1998  
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

### **NOTICE**

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

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