



AUGUST 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

AUGUST 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	87	65	76	-1	67	70	0	11	BR HZ	0		0.0	0.00	29.12	30.14	3.9	04	6.0	16	03	11	26	01																																														
02	84	64	74	-3	65	68	0	9	BR HZ	0		0.0	0.00	29.12	30.14	3.7	05	5.5	16	10	14	09	02																																														
03	84	59*	72*	-5	61	65	0	7	BR	0		0.0	0.00	29.10	30.12	1.6	09	2.3	14	06	11	06	03																																														
04	87	61	74	-3	61	66	0	9		0		0.0	0.00	29.11	30.13	1.6	05	2.6	11	30	9	29	04																																														
05	88	63	76	-1	65	69	0	11	BR	0		0.0	0.00	29.09	30.11	1.3	07	3.0	10	09	9	09	05																																														
06	90	65	78	1	66	70	0	13	BR HZ	0		0.0	0.00	29.04	30.06	1.3	07	3.2	10	07	8	08	06																																														
07	89	66	78	1	66	70	0	13	BR HZ	0		0.0	0.00	29.06	30.07	2.8	12	4.5	16	14	13	16	07																																														
08	89	70	80	3	68	72	0	15	RA BR HZ	0		0.0	0.11	29.12	30.13	1.7	25	3.7	15	21	11	22	08																																														
09	85	73	79	2	70	73	0	14	RA BR	0		0.0	0.07	29.09	30.11	2.5	25	4.6	11	15	9	15	09																																														
10	86	70	78	1	68	72	0	13	RA BR	0		0.0	T	28.97	29.98	5.9	26	6.5	18	30	16	29	10																																														
11	87	69	78	1	69	71	0	13	TS TSRA BR HZ	0		0.0	0.25	28.95	29.96	2.8	21	4.2	34	09	26	09	11																																														
12	87	66	77	1	69	71	0	12	FG+ BR HZ	0		0.0	0.00	29.01	30.02	1.8	36	2.9	9	05	8	04	12																																														
13	89	68	79	3	69	72	0	14	RA BR HZ	0		0.0	T	28.99	30.00	2.1	05	3.8	14	19	11	15	13																																														
14	81	70	76	0	70	71	0	11	TSRA RA BR HZ	0		1.06	0.00	28.90	29.91	0.9	02	4.0	24	20	18	21	14																																														
15	81	71	76	0	71	72	0	11	RA BR HZ	0		0.0	0.01	28.88	29.89	2.0	03	2.5	8	05	7	05	15																																														
16	86	71	79	3	71	72	0	14	TS TSRA RA FG+ BR HZ	0		0.0	0.57	28.95	29.96	2.5	24	4.9	40*	27	31*	27	16																																														
17	86	71	79	3	69	72	0	14	BR HZ	0		0.0	0.00	29.05	30.06	4.6	25	5.5	15	25	14	25	17																																														
18	88	67	78	2	70	72	0	13	BR HZ	0		0.0	0.00	29.06	30.07	1.3	01	2.1	13	04	11	04	18																																														
19	88	70	79	3	69	72	0	14	FG BR HZ	0		0.0	0.00	29.04	30.05	6.5	04	6.7	18	05	16	05	19																																														
20	87	67	77	1	67	70	0	12	BR HZ	0		0.0	0.00	29.13	30.15	3.5	05	5.9	16	03	13	06	20																																														
21	87	68	78	2	67	71	0	13	BR HZ	0		0.0	0.00	29.18	30.20	2.0	05	2.9	14	03	10	02	21																																														
22	90	64	77	1	66	70	0	12	BR HZ	0		0.0	0.00	29.09	30.11	1.2	05	2.0	11	01	9	02	22																																														
23	92	66	79	4	69	72	0	14	BR HZ	0		0.0	0.00	28.97	29.98	2.6	26	3.7	13	31	10	26	23																																														
24	91	70	81	6	66	71	0	16	BR HZ	0		0.0	0.00	28.93	29.94	2.8	27	4.2	13	34	11	30	24																																														
25	91	65	78	3	66	70	0	13	BR HZ	0		0.0	0.00	28.89	29.90	0.9	03	3.0	11	32	9	32	25																																														
26	93	68	81	6	69	73	0	16	BR HZ	0		0.0	0.00	28.87	29.87	5.4	02	6.7	20	01	15	36	26																																														
27	91	67	79	4	65	70	0	14	BR HZ	0		0.0	0.00	28.94	29.95	7.6	03	8.0	22	04	15	04	27																																														
28	94*	67	81	6	65	70	0	16	BR HZ	0		0.0	0.00	28.94	29.95	2.8	32	4.5	18	27	14	27	28																																														
29	92	68	80	5	67	71	0	15	BR HZ	0		0.0	0.00	28.93	29.94	1.6	36	3.4	11	33	10	29	29																																														
30	92	69	81*	7	66	71	0	16	BR HZ	0		0.0	0.00	28.95	29.96	2.9	01	3.9	15	28	10	04	30																																														
31	92	66	79	5	63	69	0	14	BR HZ	0		0.0	0.00	28.94	29.95	4.8	05	5.5	20	08	14	07	31																																														
88.2 67.2 77.7 ■■										67.1 70.6		0.0 13.0		< MONTHLY AVERAGES		TOTALS-->		0.0 2.07		29.01 30.03		0.8 03		4.3		-- MONTHLY AVERAGES																																											
1.5 1.9 1.7 ■■										<----- DEPARTURE FROM NORMAL ----->										-1.06		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																															
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.07 DATE: 14-15										SEA LEVEL PRESSURE DATE TIME																																																	
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: 0.0 DATE:										MAXIMUM : 30.27 21 1024																																							
HEATING: 0 0										GREATEST SNOW DEPTH: 0 DATE:										MINIMUM : 29.82 26 0302																																																	
COOLING: 402 61										1446 384										NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 11										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH : 6																			
																														MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 4																			
																																								THUNDERSTORMS : 3										HEAVY FOG : 2										SNOWFALL ≥ 1.0 INCH : 0									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

AUGUST 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													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.11		
09													09												09		0.07		
10													10												10		T		
11													11												11		T		
12													12												12		0.12		
13													13												13		0.13		
14													14												14		T		
15													15												15		T		
16													16												16		0.01		
17													17												17		0.37		
18													18												18		T		
19													19												19		0.04		
20													20												20		0.29		
21													21												21		0.31		
22													22												22		T		
23													23												23		T		
24													24												24		T		
25													25												25		T		
26													26												26		0.01		
27													27												27		T		
28													28												28		T		
29													29												29		0.25		
30													30												30		T		
31													31												31		T		

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	
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 AUGUST 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	620						4.00	10.00	
02	706	84					3.00	10.00	
03	697	84					4.00	10.00	
04	733	88					7.00	10.00	
05	717	86					6.00	10.00	
06	701						1.75	10.00	
07	703						4.00	10.00	
08	618						5.00	10.00	
09	567						9.00	10.00	
10	652	79					6.00	10.00	
11	820	61					2.00	7.00	
12	670	82					.25	9.00	
13	639						1.75	7.00	
14	339						.75	6.00	
15	432						1.25	9.00	
16	365	45					2.00	10.00	
17	630	78					5.00	10.00	
18	650	76					2.50	10.00	
19	670	83					.50	10.00	
20	647						4.00	10.00	
21	681						1.50	8.00	
22	701						1.50	10.00	
23	625						2.00	9.00	
24	700	88					4.00	10.00	
25	720	91					3.00	10.00	
26	696	88					2.00	8.00	
27	675						4.00	10.00	
28	670	84					4.00	10.00	
29	600	77					4.00	9.00	
30	620						1.25	10.00	
31	682						4.00	10.00	
MONTHLY AVGS							3.26	9.42	
SUNSHINE (MINUTES)									
Total: 19946 Possible: 25084 Percent Possible: 80									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 1 16 2									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

AUGUST 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	OBSERVATION TIME (LST)		EFF CLD AMT Otktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL	SKY COVER		CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Otktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<div style="display: flex; justify-content: space-between;"> SUNRISE: 0553 AUG 13 SUNSET: 1929 SUNRISE: 0558 AUG 19 SUNSET: 1922 </div>																													
01	CLR	NC		6.00	HZ	74	69	71	85	7	03	29.00	30.01	01	BKN	045		4.00	BR	74	72	73	94	0	00	29.03	30.04		
04	FEW	NC		4.00	BR	69	68	68	96	0	00	29.00	30.02	04	FEW	NC		2.00	BR	72	71	71	97	3	03	29.01	30.02		
07	FEW	NC		1.75	BR	69	68	68	96	0	00	29.02	30.04	07	CLR	NC		2.50	BR	72	70	71	94	5	06	29.04	30.05		
10	CLR	NC		5.00	HZ	79	69	72	72	3	01	29.03	30.04	10	SCT	NC		4.00	HZ	80	71	74	74	13	04	29.07	30.08		
13	SCT	NC		7.00	HZ	86	69	74	57	6	VR	29.00	30.01	13	FEW	NC		4.00	HZ	84	71	75	65	13	04	29.06	30.07		
16	FEW	NC		6.00	HZ	88	69	75	54	5	10	28.93	29.95	16	FEW	NC		7.00	HZ	87	69	75	55	10	06	29.02	30.03		
19	SCT	NC		6.00	HZ	81	70	73	69	6	01	28.94	29.96	19	CLR	NC		10.00	HZ	83	65	71	55	6	03	29.02	30.03		
22	FEW	NC		7.00	HZ	75	69	71	82	8	02	28.97	29.98	22	CLR	NC		10.00	HZ	74	65	68	74	5	06	29.07	30.08		
<div style="display: flex; justify-content: space-between;"> SUNRISE: 0554 AUG 14 SUNSET: 1928 SUNRISE: 0558 AUG 20 SUNSET: 1921 </div>																													
01	BKN	110		6.00	BR	73	69	70	87	6	03	28.95	29.96	01	CLR	NC		10.00	HZ	71	64	67	79	8	03	29.08	30.09		
04	SCT	NC		4.00	BR	71	69	70	94	5	32	28.93	29.94	04	CLR	NC		9.00	HZ	67	63	64	87	6	07	29.09	30.10		
07	SCT	NC		1.75	BR	71	69	70	94	5	07	28.92	29.94	07	SCT	NC		9.00	HZ	68	61	64	78	6	04	29.14	30.15		
10	BKN	065		4.00	HZ	76	70	72	82	0	00	28.93	29.94	10	CLR	NC		9.00	HZ	76	66	69	72	7	03	29.17	30.19		
13	BKN	055		5.00	HZ	81	72	75	74	7	VR	28.89	29.91	13	CLR	NC		6.00	HZ	84	70	74	63	6	VR	29.14	30.15		
16	OVC	027		0.75	+RA BR	73	70	71	90	13	18	28.87	29.89	16	FEW	NC		6.00	HZ	87	69	75	55	6	03	29.11	30.12		
19	BKN	120		4.00	BR	72	71	71	97	7	07	28.86	29.87	19	FEW	NC		5.00	HZ	81	70	73	69	5	07	29.11	30.13		
22	CLR	NC		3.00	BR	71	70	70	96	5	07	28.87	29.89	22	CLR	NC		6.00	BR	75	71	72	88	9	21	29.18	30.19		
<div style="display: flex; justify-content: space-between;"> SUNRISE: 0554 AUG 15 SUNSET: 1927 SUNRISE: 0559 AUG 21 SUNSET: 1919 </div>																													
01	OVC	005		4.00	BR	71	70	70	96	7	04	28.86	29.87	01	CLR	NC		4.00	BR	73	70	71	90	5	24	29.19	30.20		
04	OVC	005		2.50	BR	71	70	70	96	0	00	28.86	29.87	04	CLR	NC		2.50	BR	70	69	69	97	3	16	29.21	30.22		
07	OVC	003		1.25	BR	72	70	71	94	0	00	28.87	29.89	07	SCT	NC		1.50	BR	69	68	68	96	3	08	29.22	30.25		
10	OVC	007		2.50	-RA BR	74	71	72	91	0	00	28.91	29.93	10	FEW	NC		6.00	HZ	78	67	71	69	0	00	29.24	30.27		
13	OVC	020		4.00	-RA BR	76	72	73	88	5	34	28.89	29.91	13	SCT	NC		5.00	HZ	84	67	73	57	8	05	29.21	30.22		
16	BKN	013		6.00	HZ	79	71	74	77	0	00	28.86	29.87	16	FEW	NC		7.00	HZ	86	65	72	50	7	02	29.15	30.16		
19	CLR	NC		7.00	HZ	78	71	73	79	5	06	28.87	29.88	19	CLR	NC		7.00	HZ	82	65	71	56	5	06	29.13	30.14		
22	OVC	095		6.00	BR	76	72	73	88	0	00	28.91	29.93	22	CLR	NC		6.00	HZ	76	67	70	74	0	00	29.16	30.17		
<div style="display: flex; justify-content: space-between;"> SUNRISE: 0555 AUG 16 SUNSET: 1926 SUNRISE: 0560 AUG 22 SUNSET: 1918 </div>																													
01	SCT	NC		5.00	-RA BR	74	72	73	94	0	00	28.91	29.92	01	CLR	NC		5.00	BR	70	67	68	90	0	00	29.15	30.17		
04	BKN	043		5.00	BR	72	70	71	94	0	00	28.89	29.91	04	CLR	NC		4.00	BR	66	64	65	93	0	00	29.13	30.15		
07	OVC	027		2.00	-RA BR	72	71	71	97	3	28	28.96	29.97	07	CLR	NC		1.50	BR	65	64	64	97	0	00	29.13	30.15		
10	OVC	023		3.00	BR	74	73	73	97	3	03	29.00	30.01	10	CLR	NC		3.00	HZ	77	67	70	71	3	VR	29.15	30.16		
13	BKN	018		5.00	BR	78	74	75	87	7	18	28.96	29.98	13	CLR	NC		5.00	HZ	86	66	73	51	7	04	29.10	30.11		
16	BKN	090		10.00	HZ	81	72	75	74	8	28	28.90	29.91	16	CLR	NC		6.00	HZ	89	61	71	39	6	04	29.04	30.05		
19	BKN	020		4.00	RA	73	67	69	81	7	26	28.95	29.97	19	CLR	NC		10.00	HZ	87	63	71	45	0	00	29.01	30.02		
22	BKN	045		10.00	HZ	72	70	71	94	9	23	28.97	29.98	22	CLR	NC		7.00	HZ	78	69	72	74	0	00	29.04	30.06		
<div style="display: flex; justify-content: space-between;"> SUNRISE: 0556 AUG 17 SUNSET: 1924 SUNRISE: 0601 AUG 23 SUNSET: 1917 </div>																													
01	FEW	NC		7.00	HZ	71	69	70	94	7	26	28.98	29.99	01	CLR	NC		5.00	BR	72	69	70	91	0	00	29.03	30.05		
04	OVC	006		6.00	BR	71	70	70	96	12	24	28.99	30.01	04	CLR	NC		4.00	BR	69	67	68	93	0	00	29.01	30.02		
07	OVC	020		8.00	HZ	72	69	70	91	9	24	29.07	30.09	07	CLR	NC		2.00	BR	68	67	67	96	0	00	29.01	30.02		
10	SCT	NC		10.00	HZ	77	70	72	79	9	23	29.10	30.11	10	CLR	NC		6.00	HZ	80	70	73	71	3	26	29.02	30.03		
13	SCT	NC		10.00	HZ	83	68	73	61	5	VR	29.08	30.10	13	CLR	NC		9.00	HZ	88	69	75	54	3	36	28.97	29.98		
16	FEW	NC		10.00	HZ	86	67	73	53	6	VR	29.05	30.06	16	FEW	NC		8.00	HZ	90	68	75	49	5	27	28.91	29.92		
19	CLR	NC		8.00	HZ	83	66	72	57	0	00	29.02	30.03	19	BKN	090		8.00	HZ	85	69	74	59	7	23	28.90	29.91		
22	CLR	NC		6.00	HZ	75	70	72	84	0	00	29.06	30.07	22	CLR	NC		8.00	HZ	78	70	73	76	7	24	28.94	29.95		
<div style="display: flex; justify-content: space-between;"> SUNRISE: 0557 AUG 18 SUNSET: 1923 SUNRISE: 0602 AUG 24 SUNSET: 1916 </div>																													
01	CLR	NC		5.00	BR	73	69	70	87	0	00	29.08	30.10	01	CLR	NC		7.00	HZ	74	69	71	85	5	20	28.93	29.95		
04	FEW	NC		6.00	BR	69	66	67	90	3	05	29.06	30.08	04	CLR	NC		6.00	BR	73	69	70	87	3	24	28.93	29.93		
07	FEW	NC		3.00	BR	70	68	69	93	0	00	29.10	30.11	07	CLR	NC		5.00	BR	71	69	70	94	0	00	28.95	29.96		
10	CLR	NC		6.00	HZ	80	69	73	69	0	00	29.10	30.11	10	CLR	NC		7.00	HZ	82	66	71	58	9	26	28.96	29.97		
13	SCT	NC		10.00	HZ	86	69	74	57	5	VR	29.08	30.09	13	CLR	NC		7.00	HZ	87	67	73	51	3	VR	28.93	29.94		
16	SCT	NC		10.00	HZ	87	67	73	51	7	30	29.00	30.02	16	CLR	NC		7.00	HZ	90	63	72	41	0	00	28.88	29.88		
19	SCT	NC		10.00	HZ	83	71	75	67	3	01	29.01	30.02	19	CLR	NC		10.00	HZ	86	61	70	43	6	27	28.88	29.89		
22	SCT	NC		6.00	BR	75	73	74	94	3	06	29.03	30.05	22	CLR	NC		10.00	HZ	80	60	67	51	0	00	28.94	29.95		

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

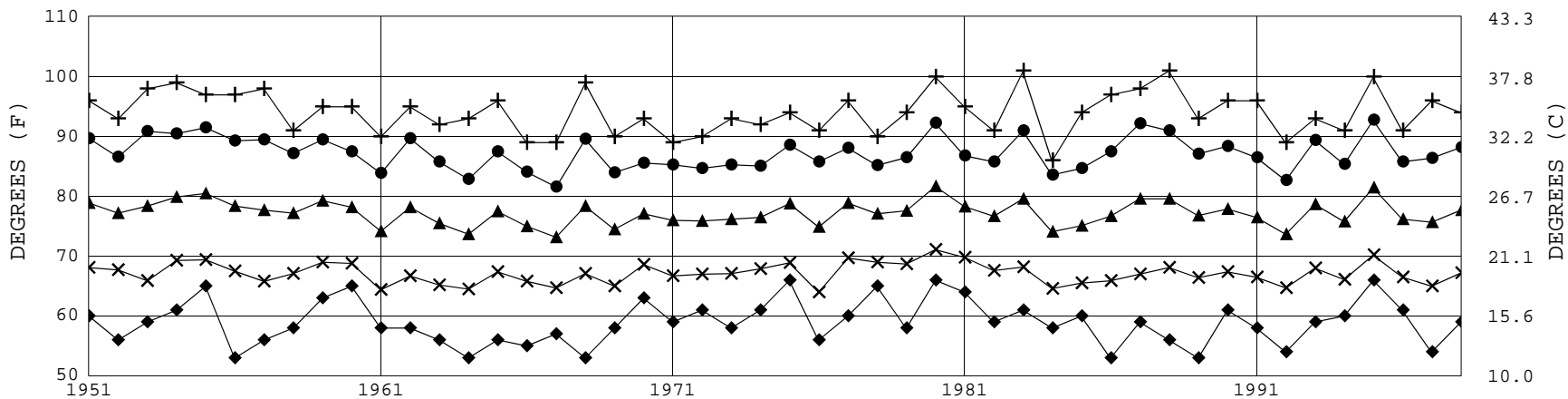
AUGUST 1998

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okltas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okltas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	DRY BULB					DEW POINT	WET BULB	SPEED (MPH)		DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB		DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG					STATION	SEA LEVEL						
SUNRISE: 0602										AUG 25			SUNSET: 1914					SUNRISE: 0607										AUG 31			SUNSET: 1906				
01	CLR	NC						8.00		73	63	67	71	3	25	28.91	29.92	01	CLR	NC						5.00	BR	70	67	68	90	3	06	28.95	29.96
04	CLR	NC						6.00	HZ	68	63	65	84	3	24	28.87	29.87	04	CLR	NC						6.00	BR	69	65	66	87	3	07	28.94	29.96
07	CLR	NC						3.00	BR	67	65	66	93	0	00	28.94	29.96	07	SCT	NC						4.00	BR	68	65	66	90	3	06	28.98	29.99
10	CLR	NC						5.00	HZ	81	66	71	61	0	00	28.95	29.96	10	CLR	NC						8.00		81	65	70	58	6	04	29.00	30.01
13	CLR	NC						5.00	HZ	88	67	74	50	6	03	28.92	29.93	13	FEW	NC						10.00		87	61	70	42	7	04	28.97	29.98
16	CLR	NC						6.00	HZ	90	64	73	42	6	VR	28.85	29.85	16	SCT	NC						10.00		91	56	69	31	13	04	28.89	29.90
19	CLR	NC						8.00		87	64	72	46	0	00	28.83	29.83	19	CLR	NC						10.00		85	61	69	45	6	02	28.90	29.91
22	CLR	NC						6.00	HZ	74	68	70	82	3	08	28.87	29.88	22	CLR	NC						10.00		78	64	69	62	3	07	28.91	29.93
SUNRISE: 0603										AUG 26			SUNSET: 1913					3-HOURLY OBSERVATION NOTES																	
01	CLR	NC						5.00	HZ	74	69	71	85	3	02	28.84	29.84	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. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.																	
04	FEW	NC						3.00	BR	71	68	69	90	5	17	28.84	29.84																		
07	CLR	NC						2.00	BR	70	68	69	93	3	08	28.88	29.89																		
10	SCT	NC						4.00	HZ	83	69	73	63	7	03	28.89	29.91																		
13	CLR	NC						3.00	HZ	90	70	76	52	10	06	28.87	29.87																		
16	FEW	NC						4.00	HZ	91	72	77	54	13	36	28.83	29.83																		
19	FEW	NC						6.00	HZ	85	68	73	57	10	01	28.85	29.85																		
22	CLR	NC						8.00		79	67	71	67	12	02	28.90	29.91																		
SUNRISE: 0604										AUG 27			SUNSET: 1912					SUMMARY BY HOUR																	
01	FEW	NC						7.00		74	67	69	79	8	03	28.89	29.90	AVERAGES																	
04	CLR	NC						8.00		70	65	67	84	6	03	28.92	29.93	RESULTANT WIND (MPH)																	
07	CLR	NC						6.00	BR	68	64	66	87	3	06	28.95	29.96	HOUR (LST)																	
10	CLR	NC						4.00	HZ	80	65	70	60	12	04	28.97	29.98	CEILOMETER																	
13	CLR	NC						4.00	HZ	87	67	73	51	12	05	28.95	29.96	EFF CLD AMT																	
16	FEW	NC						5.00	HZ	90	66	74	45	12	04	28.92	29.93	DRY BULB																	
19	CLR	NC						9.00		84	66	72	55	10	01	28.93	29.94	DEW POINT																	
22	CLR	NC						9.00		73	64	67	74	6	08	28.97	29.98	WET BULB																	
SUNRISE: 0605										AUG 28			SUNSET: 1910					RELATIVE HUMIDITY																	
01	CLR	NC						8.00		72	65	67	79	7	01	28.94	29.95	PRESSURE (INCHES, HG)																	
04	CLR	NC						7.00		70	64	66	82	5	03	28.94	29.95	STATION																	
07	CLR	NC						4.00	BR	67	65	66	93	0	00	28.98	29.99	SEA LEVEL																	
10	CLR	NC						7.00		79	65	70	62	3	01	29.00	30.01	VISIBILITY (MILES)																	
13	FEW	NC						7.00		91	66	74	44	9	23	28.93	29.94	WIND SPEED (MPH)																	
16	FEW	NC						8.00		93	64	73	38	9	26	28.89	29.90	SPEED																	
19	CLR	NC						9.00		87	64	72	46	5	35	28.88	29.90	DIRECTION																	
22	CLR	NC						10.00		81	62	69	53	0	00	28.92	29.93																		
SUNRISE: 0605										AUG 29			SUNSET: 1909					HOUR (LST)																	
01	CLR	NC						6.00	HZ	73	65	68	76	0	00	28.91	29.92	CEILOMETER																	
04	CLR	NC						5.00	BR	69	66	67	90	0	00	28.91	29.92	EFF CLD AMT																	
07	CLR	NC						4.00	HZ	70	65	67	84	0	00	28.95	29.96	DRY BULB																	
10	CLR	NC						4.00	HZ	81	67	72	62	3	VR	28.96	29.97	DEW POINT																	
13	CLR	NC						4.00	HZ	88	65	73	46	6	30	28.95	29.96	WET BULB																	
16	SCT	NC						6.00	HZ	90	67	74	47	0	00	28.91	29.92	RELATIVE HUMIDITY																	
19	BKN	055						6.00	HZ	86	71	76	61	5	36	28.91	29.92	PRESSURE (INCHES, HG)																	
22	SCT	NC						7.00		78	70	73	76	0	00	28.94	29.95	STATION																	
SUNRISE: 0606										AUG 30			SUNSET: 1908					SEA LEVEL																	
01	FEW	NC						6.00	HZ	75	70	72	84	3	06	28.96	29.96	VISIBILITY (MILES)																	
04	CLR	NC						4.00	BR	73	69	70	87	5	03	28.94	29.95	WIND SPEED (MPH)																	
07	CLR	NC						1.25	BR	70	69	69	97	0	00	28.97	29.99	SPEED																	
10	CLR	NC						4.00	HZ	81	70	73	69	3	VR	28.99	30.00	DIRECTION																	
13	FEW	NC						6.00	HZ	88	64	72	45	6	36	28.95	29.96																		
16	FEW	NC						6.00	HZ	91	61	71	37	0	00	28.91	29.92																		
19	CLR	NC						8.00		85	65	72	51	7	02	28.91	29.92																		
22	CLR	NC						8.00		77	65	69	66	0	00	28.97	29.98																		

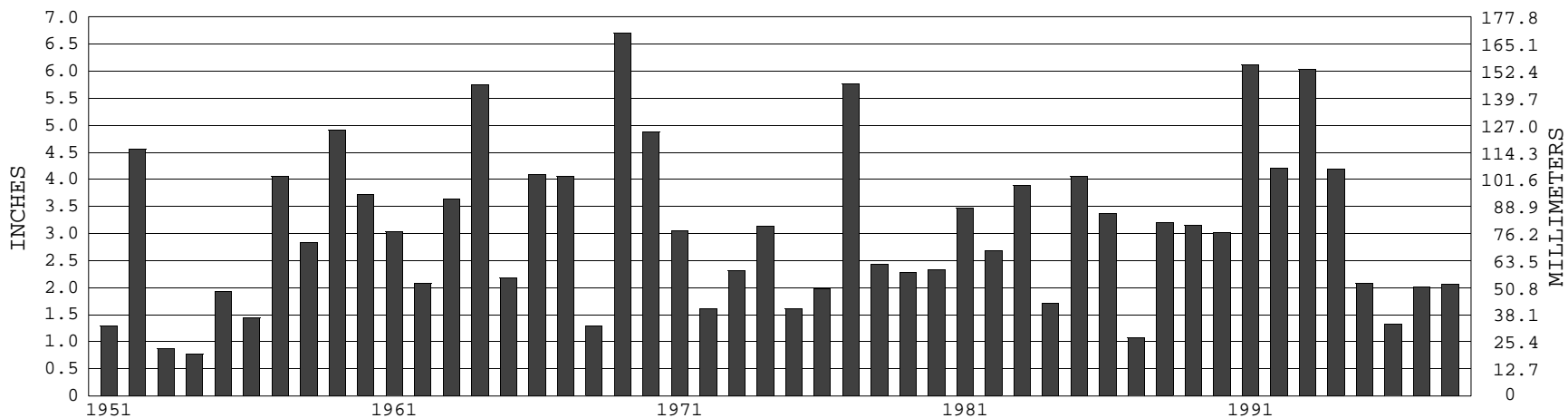
KNOXVILLE, TN AUGUST TEMPERATURES



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

Long-Term (1951-1998) Mean: 77.2 1961-1990 Normal: 76.0

KNOXVILLE, TN AUGUST PRECIPITATION



Long-Term (1951-1998) Mean Monthly Total: 3.09

1961-1990 Normal: 3.13



**AUGUST 1998
KNOXVILLE, TN**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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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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