



AUGUST 2007 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

KNOXVILLE, TN
MC GHEE TYSON AIRPORT (KTYS)
Lat:35° 49'N Long: 83° 59'W Elev (Ground) 962 Feet
Time Zone : EASTERN WBAN: 13891 ISSN#: 0198-4810



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST 11	1300 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
01	90	69	80	2	69	72	0	15	RA BR HZ	0		0.0	T	28.94	29.95	1.0	18	3.0	18	13	14	13	01	
02	92	69	81	3	69	72	0	16	TS TSRA RA FG BR HZ	0		0.0	1.35	28.98	30.01	0.3	35	1.5	46*	07	37*	08	02	
03	91	67	79	1	68	71	0	14	TS RA FG+ FG BR HZ	0		0.0	0.02	29.00	30.02	0.3	35	1.1	21	32	16	32	03	
04	92	70	81	3	67	72	0	16	BR HZ	0		0.0	0.00	29.00	30.02	1.1	31	1.6	10	25	8	26	04	
05	91	70	81	3	69	73	0	16	RA BR HZ	0		0.0	T	28.97	29.97	3.1	23	3.4	13	22	10	27	05	
06	92	75	84	6	72	75	0	19	HZ	0		0.0	0.00	28.94	29.94	4.1	23	4.6	17	23	15	22	06	
07	94	74	84	6	72	76	0	19	BR HZ	0		0.0	0.00	28.92	29.92	1.7	24	2.2	14	23	10	23	07	
08	96	76	86	8	71	76	0	21	BR HZ	0		0.0	0.00	28.90	29.90	2.3	24	3.1	16	21	12	20	08	
09	96	74	85	8	70	75	0	20		0		0.0	0.00	28.90	29.90	4.4	21	4.7	17	21	12	22	09	
10	96	75	86	9	67	73	0	21	HZ	0		0.0	0.00	28.85	29.86	3.5	29	6.2	18	29	15	29	10	
11	94	74	84	7	65	71	0	19		0		0.0	0.00	28.92	29.94	5.6	02	6.3	21	05	16	04	11	
12	97	71	84	7	65	71	0	19		0		0.0	0.00	28.99	30.00	3.6	02	4.0	16	09	12	35	12	
13	94	68	81	4	65	71	0	16	BR HZ	0		0.0	0.00	28.97	29.98	1.7	03	2.9	14	05	9	36	13	
14	96	68	82	5	61	68	0	17	BR HZ	0		0.0	0.00	28.94	29.95	1.6	03	2.2	14	05	12	05	14	
15	99	66*	83	6	61	68	0	18		0		0.0	0.00	28.93	29.94	1.1	07	1.8	12	06	8	07	15	
16	101	70	86	9	64	71	0	21		0		0.0	0.00	28.95	29.95	2.8	25	3.5	18	26	15	27	16	
17	97	74	86	9	66	72	0	21	TS TSRA RA HZ	0		0.0	0.03	28.97	29.95	2.5	34	4.8	21	02	15	01	17	
18	96	68	82	5	60	68	0	17		0		0.0	0.00	29.06	30.08	5.8	04	6.2	17	03	14	03	18	
19	97	67	82	5	63	70	0	17		0		0.0	0.00	29.05	30.06	5.5	21	7.0	26	22	20	20	19	
20	97	75	86	9	64	71	0	21		0		0.0	0.00	29.02	30.03	9.9	22	10.1	36	21	24	23	20	
21	97	77	87	10	67	73	0	22	TS RA	0		0.0	0.01	29.03	30.05	3.6	24	6.9	29	26	21	24	21	
22	99	73	86	9	66	73	0	21		0		0.0	0.00	29.04	30.05	1.4	23	2.2	20	27	15	27	22	
23	102*	73	88	11	65	73	0	23		0		0.0	0.00	29.00	30.00	0.4	22	3.3	18	27	14	29	23	
24	100	77	89*	13	67	73	0	24		0		0.0	0.00	28.97	29.89	6.4	23	7.6	22	19	18	20	24	
25	95	74	85	9	65	71	0	20		0		0.0	0.00	28.92	29.93	4.3	24	5.6	23	23	18	22	25	
26	93	73	83	7	68	72	0	18	TS TSRA RA	0		0.0	0.05	28.92	29.94	2.5	02	5.2	37	10	26	03	26	
27	96	71	84	8	67	72	0	19		0		0.0	0.00	29.00	30.01	0.8	15	3.8	18	12	15	12	27	
28	94	73	84	8	68	73	0	19		0		0.0	0.00	29.05	30.06	1.1	26	4.3	15	27	10	26	28	
29	94	72	83	7	69	72	0	18	TS TSRA RA BR	0		0.0	1.91	29.04	30.05	0.5	11	3.7	35	08	26	08	29	
30	79	71	75*	0	71	72	0	10	RA BR HZ	0		0.0	0.76	28.97	29.98	2.6	05	3.5	23	34	14	03	30	
31	90	70	80	5	68	71	0	15	BR HZ	0		0.0	0.00	28.92	29.94	5.9	04	6.6	23	10	18	10	31	

94.7	71.7	83.2	☼	66.7	72.0	0.0	18.5	< MONTHLY AVERAGES TOTALS >				0.0	4.13	28.97	29.97	0.8	26	4.3	< MONTHLY AVERAGES			
8.3	4.4	6.3		<----- DEPARTURE FROM NORMAL ----->								1.24	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 2.67 DATE : 29-30				SEA LEVEL PRESSURE			
MONTHLY				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.14 18 1039			
TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 28.96 17 0053			
SEASON TO DATE				NUMBER OF -> DAYS WITH				PRECIPITATION >= 0.01 INCH: 7			
HEATING : 0 0 0 0				MAXIMUM TEMP >= 90 : 30				MINIMUM TEMP <= 32 : 0			
COOLING : 572 191 1573 359				MAXIMUM TEMP <= 32 : 0				PRECIPITATION >= 0.10 INCH: 3			
				THUNDERSTORMS : 6				HEAVY FOG : 1			
								SNOWFALL >= 1.0 INCH : 0			

AUGUST 2007
KNOXVILLE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
AUGUST 2007

WBAN # 13891

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	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													01				T								01	T	T	
02													02				0.89	0.45	0.01						02	1.35	1.35	
03													03					T	0.02						03	0.02	0.02	
04													04												04	0.00	0.00	
05												T	05												05	T	T	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17	0.02	0.01											17												17	0.03	0.03	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21												0.01	21												21	0.01	0.01	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26				T	T	T							26							0.05	T				26	0.05	0.05	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29				T	0.26	1.65						29	1.91	1.91	
30						T				0.14	0.58	0.04	30	T											30	0.76	0.76	
31													31												31	0.00	0.00	

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.33	0.65	0.94	1.18	1.56	1.85	1.90	1.91	1.91	1.91	1.91	1.91
Ending Date	29	29	29	29	29	29	29	29	29	29	29	29
Ending Time (Hr/Min)	1716	1720	1724	1729	1728	1732	1743	1747	1747	1747	1747	1747

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

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		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

KNOXVILLE, TN AUGUST 2007

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:

Station Augmentation-CONTRACTOR ON AIRPORT
Lat/Lon:/ Elevation:
Distance:2200 FT Dir:W
Augmented Elements:Temp,Precip,Snow
Equipment:SRG, PSY, Snow Board, Snow stick

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							3.00	10.00	
02							0.50	8.00	
03							0.12	6.00	
04							1.50	6.00	
05							2.50	6.00	
06							4.00	6.00	
07							1.50	10.00	
08							5.00	10.00	
09							7.00	10.00	
10							10.00	10.00	
11							7.00	10.00	
12							9.00	10.00	
13							5.00	10.00	
14							5.00	10.00	
15							9.00	10.00	
16							9.00	10.00	
17							5.00	10.00	
18							8.00	10.00	
19							7.00	10.00	
20							8.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							8.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							4.00	10.00	
27							8.00	10.00	
28							8.00	10.00	
29							1.50	10.00	
30							1.75	10.00	
31							0.75	7.00	
MONTHLY AVGS							5.78	9.32	
SUNSHINE (Minutes)									
Total : 0					Possible : 25084				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0				>= 7.0		
1			9				16		

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
AUGUST 2007 **KTYS**

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																
			Observation Time (LST)	Eff Cl'd Amt Oktas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL															
															Observation Time (LST)	Eff Cl'd Amt Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL					
SUNRISE: 0543							AUG 01							SUNSET: 1941															
01	CLR	NC			6.00	BR	73	69	70	87	0	00	28.93	29.94	01	CLR	NC			4.00	HZ	78	73	75	85	0	00	28.91	29.92
04	CLR	NC			5.00	BR	72	68	69	87	3	36	28.92	29.93	04	CLR	NC			3.00	BR	75	72	73	90	0	00	28.90	29.91
07	CLR	NC			4.00	BR	71	68	69	90	0	00	28.95	29.97	07	FEW	001			2.00	BR	75	72	73	90	0	00	28.96	29.97
10	CLR	NC			6.00	HZ	81	70	73	69	0	00	28.97	29.98	10	CLR	NC			4.00	HZ	85	73	77	67	7	21	28.97	29.98
13	SCT	039			10.00		87	69	75	55	5	22	28.95	29.96	13	FEW	040			10.00		91	72	77	54	6	VR	28.94	29.94
16	SCT	095			10.00		84	67	73	57	10	15	28.91	29.92	16	SCT	120			10.00		92	69	76	47	7	27	28.88	29.89
19	FEW	090			10.00		83	69	73	63	6	22	28.91	29.93	19	CLR	NC			10.00		91	69	76	49	3	25	28.86	29.87
22	CLR	NC			8.00		78	70	73	77	0	00	28.96	29.97	22	CLR	NC			9.00		82	73	76	74	0	00	28.91	29.91
SUNRISE: 0544							AUG 02							SUNSET: 1940															
01	FEW	085			8.00		76	70	72	82	0	00	28.97	29.98	01	OVC	110			9.00		81	73	75	77	0	00	28.89	29.89
04	CLR	NC			6.00	BR	73	70	71	90	3	29	28.97	29.98	04	CLR	NC			7.00		78	72	74	82	5	22	28.88	29.89
07	CLR	NC			4.00	BR	73	69	70	87	0	00	29.00	30.02	07	BKN	110			5.00	HZ	78	72	74	82	0	00	28.92	29.93
10	CLR	NC			7.00		83	71	75	67	0	00	29.01	30.03	10	CLR	NC			10.00		87	72	76	61	6	25	28.94	29.94
13	SCT	037			6.00	HZ	88	69	75	53	3	VR	29.00	30.00	13	FEW	034			10.00		93	70	77	47	6	22	28.91	29.92
16	OVC	055			0.50	TS+RA FG	71	67	68	87			29.04	30.06	16	FEW	055			10.00		95	70	77	44	9	21	28.87	29.88
19	CLR	NC			4.00	BR	73	71	72	93	0	00	29.00	30.02	19	SCT	070			10.00		93	69	76	46	5	28	28.86	29.87
22	CLR	NC			5.00	BR	72	69	70	90	3	02	29.02	30.03	22	CLR	NC			10.00		84	73	76	70	0	00	28.91	29.91
SUNRISE: 0545							AUG 03							SUNSET: 1940															
01	CLR	NC			3.00	BR	70	68	69	93	0	00	29.01	30.02	01	CLR	NC			10.00		81	71	74	72	0	00	28.88	29.88
04	FEW	001			2.00	BR	69	67	68	93	0	00	29.00	30.02	04	CLR	NC			10.00		76	71	73	85	3	22	28.89	29.90
07	SCT	008			0.75	BR	68	67	67	97	0	00	29.03	30.05	07	SCT	080			9.00		77	70	72	79	3	21	28.94	29.95
10	CLR	NC			3.00	HZ	79	70	73	74	0	00	29.05	30.07	10	FEW	065			10.00		87	71	76	59	7	21	28.95	29.96
13	FEW	037			6.00	HZ	87	69	75	55	3	08	29.02	30.03	13	FEW	060			10.00		93	71	77	49	0	00	28.92	29.93
16	FEW	050			6.00	HZ	90	67	74	47	0	00	28.97	29.98	16	SCT	065			10.00		95	69	77	43	11	21	28.86	29.87
19	BKN	043			5.00	HZ	78	70	73	77	0	00	28.96	29.98	19	FEW	065			10.00		91	69	76	49	8	22	28.84	29.85
22	CLR	NC			5.00	HZ	75	69	71	82	0	00	29.01	30.03	22	CLR	NC			10.00		84	68	73	59	3	21	28.88	29.89
SUNRISE: 0546							AUG 04							SUNSET: 1939															
01	CLR	NC			3.00	BR	72	69	70	90	0	00	29.01	30.02	01	CLR	NC			10.00		82	68	73	63	3	21	28.85	29.85
04	CLR	NC			3.00	BR	71	69	70	93	0	00	29.01	30.02	04	CLR	NC			10.00		77	69	72	76	6	22	28.84	29.83
07	CLR	NC			1.50	BR	72	69	70	90	0	00	29.04	30.06	07	CLR	NC			10.00		78	70	73	77	3	22	28.88	29.88
10	CLR	NC			4.00	HZ	80	70	73	72	3	22	29.06	30.07	10	FEW	070			10.00		88	71	76	57	3	27	28.90	29.91
13	FEW	045			5.00	HZ	88	63	71	43	5	30	29.02	30.03	13	SCT	050			10.00		94	68	76	43	10	26	28.86	29.87
16	FEW	050			4.00	HZ	90	65	73	44	6	29	28.98	29.99	16	FEW	060			10.00		95	61	72	32	10	29	28.82	29.83
19	FEW	050			4.00	HZ	87	67	73	52	0	00	28.96	29.97	19	FEW	060			10.00		91	65	73	42	7	34	28.84	29.83
22	CLR	NC			4.00	HZ	79	69	72	72	0	00	28.99	30.01	22	CLR	NC			10.00		85	66	72	53	7	36	28.87	29.88
SUNRISE: 0547							AUG 05							SUNSET: 1938															
01	CLR	NC			4.00	HZ	76	67	70	74	0	00	28.98	29.99	01	CLR	NC			10.00		79	67	71	67	0	00	28.87	29.88
04	CLR	NC			4.00	HZ	73	67	69	82	0	00	28.97	29.98	04	CLR	NC			10.00		74	68	70	82	0	00	28.87	29.88
07	FEW	110			2.50	HZ	72	66	68	82	0	00	29.00	30.01	07	CLR	NC			10.00		75	67	70	76	7	02	28.92	29.93
10	SCT	110			3.00	HZ	80	69	73	69	3	26	29.00	30.01	10	CLR	NC			7.00		84	69	74	61	8	05	28.97	29.98
13	CLR	NC			4.00	HZ	85	71	75	63	5	19	28.98	29.99	13	FEW	060			10.00		90	63	72	41	6	08	28.94	29.95
16	FEW	050			6.00	HZ	91	71	77	52	7	22	28.92	29.93	16	FEW	060			10.00		93	61	72	34	10	01	28.90	29.91
19	CLR	NC			4.00	HZ	86	73	77	65	9	21	28.92	29.93	19	FEW	060			10.00		87	64	72	46	11	03	28.93	29.95
22	CLR	NC			6.00	HZ	81	72	75	74	6	21	28.93	29.94	22	CLR	NC			10.00		78	64	69	62	0	00	28.99	30.00
SUNRISE: 0547							AUG 06							SUNSET: 1937															
01	CLR	NC			6.00	HZ	78	70	73	77	8	18	28.93	29.94	01	CLR	NC			10.00		77	64	69	64	9	03	28.97	29.98
04	SCT	120			6.00	HZ	76	70	72	82	5	28	28.92	29.93	04	SCT	075			10.00		74	64	68	71	6	03	28.98	29.99
07	BKN	110			4.00	HZ	77	71	73	82	5	24	28.96	29.97	07	CLR	NC			9.00		73	64	67	74	3	01	29.02	30.03
10	FEW	090			4.00	HZ	83	73	76	72	6	21	28.98	29.99	10	FEW	080			10.00		81	66	71	60	0	00	29.05	30.06
13	SCT	040			5.00	HZ	90	72	77	56	3	VR	28.95	29.96	13	FEW	040			10.00		91	68	75	47	3	VR	29.02	30.03
16	FEW	055			4.00	HZ	89	72	77	57	14	23	28.91	29.92	16	FEW	045			10.00		96	60	72	30	8	02	28.96	29.97
19	FEW	055			4.00	HZ	87	73	77	63	5	22	28.90	29.91	19	CLR	NC			10.00		91	63	72	39	8	35	28.96	29.96
22	CLR	NC			5.00	HZ	83	72	75	70	0	00	28.92	29.93	22	CLR	NC			10.00		85	64	71	49	0	00	29.00	30.01

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

AUGUST 2007

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION				SEA LEVEL	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: 0553 AUG 13 SUNSET: 1929													SUNRISE: 0558 AUG 19 SUNSET: 1922																
01	CLR	NC			10.00		77	66	70	69	0 00	29.00	30.01	01	CLR	NC			10.00		75	57	64	54	0 00	29.07	30.08		
04	CLR	NC			9.00		72	66	68	82	0 00	28.98	29.99	04	CLR	NC			10.00		72	60	65	66	0 00	29.06	30.07		
07	CLR	NC			5.00	HZ	71	66	68	84	0 00	29.00	30.02	07	CLR	NC			10.00		69	61	64	76	3 04	29.10	30.11		
10	SCT	120			6.00	HZ	83	66	72	57	0 00	29.02	30.03	10	CLR	NC			10.00		85	66	72	53	5 VR	29.11	30.12		
13	SCT	120			7.00		91	63	72	39	6 07	28.99	30.00	13	FEW	050			9.00		95	65	75	37	15 20	29.07	30.08		
16	FEW	070			10.00		93	61	72	34	5 VR	28.94	29.95	16	FEW	060			9.00		96	64	74	35	11 24	29.00	30.01		
19	CLR	NC			10.00		89	64	72	44	5 35	28.92	29.93	19	FEW	070			9.00		89	63	72	42	9 22	28.98	29.99		
22	CLR	NC			10.00		80	67	71	65	5 07	28.94	29.95	22	CLR	NC			8.00		85	65	72	51	7 19	29.02	30.03		
SUNRISE: 0554 AUG 14 SUNSET: 1928													SUNRISE: 0558 AUG 20 SUNSET: 1921																
01	CLR	NC			10.00		76	65	69	69	0 00	28.94	29.95	01	CLR	NC			8.00		79	66	70	65	5 23	29.03	30.03		
04	CLR	NC			6.00	BR	69	65	66	87	0 00	28.94	29.95	04	CLR	NC			9.00		76	64	68	67	6 22	29.03	30.04		
07	CLR	NC			6.00	HZ	71	64	67	79	5 02	28.97	29.98	07	FEW	050			10.00		78	65	70	64	8 24	29.05	30.06		
10	CLR	NC			8.00		82	66	71	58	5 05	29.00	30.01	10	CLR	NC			10.00		88	65	73	47	14 22	29.07	30.08		
13	CLR	NC			10.00		91	58	70	33	3 VR	28.96	29.97	13	SCT	060			10.00		94	63	73	36	11 23	29.03	30.04		
16	CLR	NC			10.00		94	54	69	26	6 01	28.90	29.91	16	FEW	075			10.00		96	62	73	32	23 23	28.99	29.99		
19	CLR	NC			10.00		88	57	68	35	5 08	28.88	29.89	19	FEW	075			10.00		92	61	72	36	11 23	28.97	29.98		
22	CLR	NC			10.00		77	63	68	62	0 00	28.92	29.93	22	CLR	NC			10.00		82	63	70	53	6 22	29.01	30.02		
SUNRISE: 0554 AUG 15 SUNSET: 1927													SUNRISE: 0559 AUG 21 SUNSET: 1920																
01	CLR	NC			10.00		75	59	65	58	0 00	28.92	29.93	01	CLR	NC			10.00		80	64	70	58	5 22	29.02	30.02		
04	FEW	110			10.00		69	63	65	81	0 00	28.92	29.93	04	CLR	NC			10.00		78	64	69	62	5 26	29.02	30.03		
07	CLR	NC			9.00		68	63	65	84	0 00	28.95	29.96	07	BKN	090			10.00		78	66	70	67	3 25	29.06	30.07		
10	CLR	NC			10.00		83	63	70	51	3 09	28.97	29.98	10	FEW	065			10.00		89	67	74	48	15 23	29.09	30.10		
13	CLR	NC			10.00		95	59	71	30	3 05	28.95	29.96	13	SCT	100			10.00		93	65	74	40	15 24	29.06	30.07		
16	CLR	NC			10.00		97	58	71	27	0 00	28.91	29.92	16	BKN	085			10.00		93	67	75	43	8 36	29.03	30.04		
19	CLR	NC			10.00		92	61	72	36	3 11	28.90	29.91	19	FEW	080			10.00		90	67	74	47	5 09	29.02	30.02		
22	CLR	NC			10.00		82	64	70	55	0 00	28.95	29.96	22	CLR	NC			10.00		83	69	73	63	3 05	29.04	30.04		
SUNRISE: 0555 AUG 16 SUNSET: 1926													SUNRISE: 0560 AUG 22 SUNSET: 1918																
01	CLR	NC			10.00		80	62	68	54	0 00	28.93	29.93	01	CLR	NC			10.00		77	69	72	76	0 00	29.02	30.03		
04	CLR	NC			10.00		74	65	68	74	0 00	28.94	29.95	04	CLR	NC			10.00		76	71	73	85	0 00	29.04	30.05		
07	FEW	110			10.00		73	65	68	76	0 00	28.98	29.99	07	BKN	080			10.00		76	70	72	82	0 00	29.09	30.10		
10	CLR	NC			10.00		88	67	74	50	9 23	28.99	30.00	10	SCT	100			10.00		89	67	74	48	3 24	29.12	30.13		
13	CLR	NC			10.00		97	64	74	34	3 VR	28.98	29.98	13	FEW	050			10.00		97	65	75	35	10 21	29.07	30.07		
16	CLR	NC			10.00		100	58	72	25	0 00	28.91	29.92	16	FEW	080			10.00		98	61	73	29	5 VR	29.00	30.01		
19	SCT	100			10.00		95	63	73	35	3 25	28.90	29.91	19	SCT	110			10.00		95	62	73	34	0 00	29.00	30.01		
22	CLR	NC			10.00		87	67	73	52	6 19	28.94	29.94	22	CLR	NC			10.00		84	67	73	57	0 00	29.02	30.02		
SUNRISE: 0556 AUG 17 SUNSET: 1925													SUNRISE: 0601 AUG 23 SUNSET: 1917																
01	BKN	100			8.00	-TSRA	84	68	73	59	9 29	28.96	28.96	01	CLR	NC			10.00		78	68	71	71	3 07	29.01	30.01		
04	CLR	NC			7.00		76	69	71	79	6 35	28.94	29.95	04	CLR	NC			10.00		78	67	71	69	0 00	29.01	30.02		
07	BKN	110			5.00	HZ	77	70	72	79	0 00	28.98	29.99	07	FEW	090			8.00		74	69	71	84	0 00	29.06	30.06		
10	SCT	100			6.00	HZ	87	69	75	55	0 00	29.02	30.03	10	CLR	NC			10.00		89	67	74	48	0 00	29.05	30.06		
13	FEW	060			10.00		93	67	75	43	3 22	29.01	30.01	13	SCT	090			10.00		98	65	75	34	5 02	28.99	30.00		
16	FEW	065			10.00		97	61	73	30	10 35	28.96	29.96	16	SCT	060			10.00		100	58	72	25	5 32	28.94	29.95		
19	CLR	NC			10.00		90	61	71	38	7 35	28.96	29.96	19	FEW	070			10.00		93	63	73	37	7 14	28.93	29.94		
22	CLR	NC			10.00		79	65	70	62	3 09	29.03	30.04	22	CLR	NC			10.00		85	66	72	53	5 21	28.97	29.97		
SUNRISE: 0557 AUG 18 SUNSET: 1923													SUNRISE: 0601 AUG 24 SUNSET: 1916																
01	CLR	NC			10.00		78	65	70	64	9 01	29.05	30.06	01	CLR	NC			10.00		82	69	73	65	7 26	28.99	29.99		
04	CLR	NC			10.00		74	63	67	69	7 01	29.05	30.06	04	CLR	NC			10.00		80	69	73	69	8 23	28.97	29.98		
07	CLR	NC			8.00		70	64	66	81	6 04	29.09	30.11	07	FEW	080			10.00		78	69	72	74	6 27	29.02	30.03		
10	CLR	NC			10.00		82	65	71	56	11 05	29.13	30.14	10	CLR	NC			10.00		89	69	75	52	11 23	29.03	30.04		
13	CLR	NC			10.00		91	61	71	37	8 05	29.10	30.10	13	SCT	100			10.00		96	68	76	40	5 VR	28.97	29.97		
16	CLR	NC			10.00		95	56	70	27	7 06	29.04	30.05	16	FEW	050			10.00		99	60	73	28	3 VR	28.90	29.90		
19	CLR	NC			10.00		88	53	66	30	8 02	29.02	30.03	19	CLR	NC			10.00		88	65	73	47	8 23	28.89	29.90		
22	CLR	NC			10.00		81	53	64	38	0 00	29.07	30.08	22	CLR	NC			10.00		82	65	71	56	10 27	28.97	29.97		

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

AUGUST 2007

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0602 AUG 25 SUNSET: 1914													
01	CLR	NC				80	64	70	58	11	25	28.96	29.97
04	CLR	NC				77	66	70	69	13	20	28.97	29.98
07	CLR	NC				77	66	70	69	5	14	28.96	29.97
10	CLR	NC				84	64	71	51	7	26	28.98	29.99
13	SCT	080				93	64	73	38	15	26	28.93	29.94
16	SCT	110				94	63	73	36	0	00	28.86	29.86
19	SCT	110				90	63	72	41	0	00	28.85	29.85
22	CLR	NC				83	66	72	57	0	00	28.87	29.88
SUNRISE: 0603 AUG 26 SUNSET: 1913													
01	SCT	120				80	67	71	65	6	24	28.89	29.89
04	OVC	080			-TSRA	76	68	71	76	3	28	28.92	29.93
07	BKN	100				74	70	71	87	7	35	28.94	29.95
10	SCT	120				81	71	74	72	8	03	28.98	29.98
13	SCT	039				89	67	74	48	3	VR	28.95	29.96
16	SCT	110				92	63	73	38	0	00	28.89	29.90
19	BKN	120				87	66	73	50	13	04	28.90	29.91
22	BKN	110				76	70	72	82	0	00	28.95	29.96
SUNRISE: 0604 AUG 27 SUNSET: 1912													
01	OVC	060				75	70	72	85	0	00	28.97	29.98
04	CLR	NC				73	69	70	87	0	00	28.99	30.00
07	CLR	NC				72	68	69	87	0	00	29.03	30.04
10	CLR	NC				83	68	73	61	0	00	29.05	30.06
13	SCT	060				92	65	74	41	5	07	29.01	30.02
16	FEW	065				95	64	74	36	9	04	28.96	29.96
19	SCT	090				88	66	73	48	7	18	28.97	29.98
22	SCT	095				83	68	73	61	6	26	29.03	30.04
SUNRISE: 0605 AUG 28 SUNSET: 1911													
01	SCT	100				79	68	72	69	6	24	29.05	30.06
04	BKN	100				77	68	71	74	0	00	29.05	30.06
07	SCT	100				74	69	71	84	3	05	29.09	30.10
10	CLR	NC				85	69	74	59	0	00	29.10	30.11
13	SCT	055				93	66	75	41	6	VR	29.07	30.08
16	SCT	100				93	66	75	41	9	08	29.00	30.01
19	SCT	120				86	66	73	51	7	25	29.00	30.01
22	SCT	065				81	69	73	67	6	23	29.06	30.07
SUNRISE: 0605 AUG 29 SUNSET: 1909													
01	CLR	NC				79	69	72	72	6	24	29.05	30.06
04	CLR	NC				75	70	72	85	0	00	29.07	30.08
07	CLR	NC				74	69	71	84	5	14	29.10	30.11
10	SCT	080				84	70	74	63	3	VR	29.10	30.11
13	SCT	100				92	68	75	45	0	00	29.04	30.05
16	BKN	090			-RA	89	67	74	48	8	13	28.98	29.98
19	SCT	100				75	69	71	82	5	21	28.99	30.01
22	CLR	NC				73	70	71	90	3	07	29.03	30.05
SUNRISE: 0606 AUG 30 SUNSET: 1908													
01	SCT	060				73	70	71	90	3	14	29.01	30.01
04	CLR	NC				73	70	71	90	6	03	28.98	30.00
07	OVC	100				73	70	71	90	0	00	29.00	30.02
10	OVC	038			-RA BR	72	70	71	93	0	00	29.02	30.04
13	FEW	007				75	71	72	87	6	36	28.99	30.01
16	BKN	110				78	70	73	77	6	08	28.92	29.93
19	SCT	120				77	71	73	82	3	08	28.92	29.93
22	SCT	110			BR	75	71	72	87	5	03	28.92	29.94

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0607 AUG 31 SUNSET: 1906													
01	SCT	055				73	71	72	93	5	04	28.92	29.93
04	FEW	002				72	70	71	93	6	01	28.90	29.92
07	FEW	002				71	68	69	90	7	03	28.93	29.95
10	CLR	NC				78	67	71	69	11	02	28.95	29.96
13	FEW	033				85	68	73	57	8	03	28.93	29.94
16	SCT	070				89	65	73	45	8	01	28.88	29.89
19	BKN	070				83	65	71	55	13	10	28.91	29.92
22	FEW	070				76	67	70	74	0	00	28.96	29.97

3-HOURLY OBSERVATION NOTES

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, W = 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.

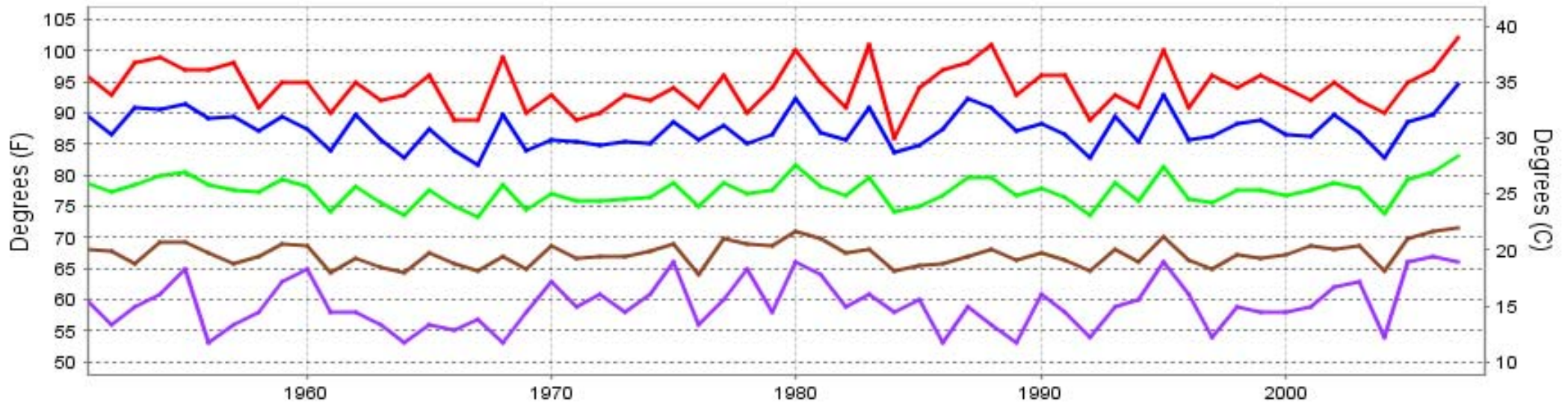
& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			78	67	71	72	28.97	29.94	8.48	3	2	26
02			76	67	70	75	28.96	29.94	8.35	2	1	25
03			75	67	70	77	28.96	29.94	8.18	3	3	26
04			74	68	70	80	28.97	29.98	8.06	3	2	26
05			73	67	69	82	28.97	29.98	7.55	3	0	17
06			73	67	69	84	28.99	30.00	7.41	2	1	21
07			74	68	70	82	29.00	30.01	6.96	3	1	19
08			77	68	71	75	29.01	30.02	7.34	3	1	22
09			80	68	72	67	29.02	30.03	7.49	5	2	26
10			84	68	73	61	29.02	30.03	7.94	5	2	26
11			87	68	74	55	29.02	30.03	8.00	4	2	26
12			89	67	74	50	29.00	30.01	8.52	5	3	26
13			91	66	74	45	28.99	30.00	8.84	6	2	26
14			92	65	74	42	28.97	29.98	8.81	6	2	26
15			93	65	74	40	28.95	29.96	8.87	6	2	26
16			93	64	73	41	28.94	29.94	8.76	7	2	26
17			92	65	74	43	28.93	29.94	8.69	7	2	26
18			90	65	73	45	28.92	29.93	8.81	7	0	22
19			88	65	73	50	28.93	29.94	8.74	6	1	24
20			85	66	72	55	28.94	29.95	8.63	4	1	24
21			83	67	72	60	28.96	29.97	8.81	3	1	25
22			81	67	72	65	28.97	29.98	8.81	3	1	24
23			80	67	71	67	28.97	29.98	8.71	3	1	25
24			78	67	71	70	28.97	29.98	8.47	3	2	25

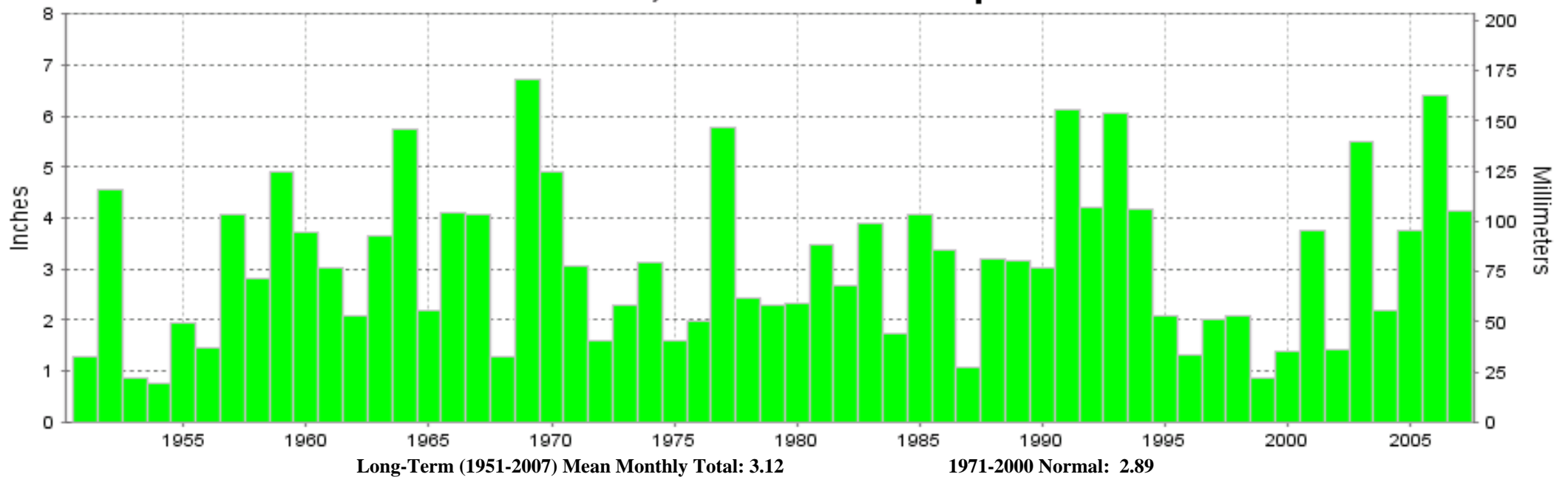
KNOXVILLE, TN AUGUST Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2007) Mean: 77.4
1971-2000 Normal: 76.9

KNOXVILLE, TN AUGUST Precipitation



Long-Term (1951-2007) Mean Monthly Total: 3.12

1971-2000 Normal: 2.89



**AUGUST 2007
KNOXVILLE, TN**

**LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center**

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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Local Climatological Data is available at www.ncdc.noaa.gov

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