



JULY 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	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40				
01	90	70	80	3	65	70	0	15	BR HZ	0		0.0	0.00	29.00	30.01	6.4	04	7.2	24	06	20	06	01	
02	87	71	79	2	59	66	0	14	RA	0		0.0	0.02	29.05	30.07	1.5	04	5.5	15	07	13	23	02	
03	85	65	75	-2	62	67	0	10	HZ	0		0.0	0.00	29.11	30.13	5.9	24	6.5	21	23	15	22	03	
04	89	65	77	0	61	67	0	12		0		0.0	0.00	29.08	30.10	8.1	23	8.6	22	25	16	22	04	
05	91	69	80	3	63	69	0	15	TS RA	0		0.0	T	29.03	30.03	4.4	22	7.6	28	32	20	31	05	
06	91	70	81	4	67	71	0	16	TS TSRA RA BR HZ	0		0.0	0.43	28.98	29.99	1.8	27	4.7	17	32	15	22	06	
07	89	70	80	3	67	70	0	15	BR HZ	0		0.0	0.00	28.94	29.94	3.0	22	3.5	24	23	20	21	07	
08	94	67	81	4	64	70	0	16	BR	0		0.0	0.00	28.87	29.88	1.8	03	3.9	23	01	13	05	08	
09	96*	71	84*	6	67	71	0	19	TS TSRA RA BR HZ	0		0.0	0.40	28.92	29.93	2.4	23	4.8	31	18	24	18	09	
10	88	70	79	1	68	71	0	14	RA BR	0		0.0	T	28.97	29.98	10.7	22	11.0	29	23	23	23	10	
11	83	71	77	-1	68	71	0	12	TSRA RA BR	0		0.0	0.67	28.90	29.92	8.6	22	10.1	29	20	21	23	11	
12	84	63	74	-4	56	63	0	9		0		0.0	0.00	28.99	30.01	2.7	27	3.5	21	18	14	26	12	
13	80	64	72*	-6	59	63	0	7	RA	0		0.0	T	29.01	30.03	1.9	21	2.9	20	21	14	21	13	
14	87	62	75	-3	62	67	0	10		0		0.0	0.00	28.95	29.95	2.8	22	4.2	16	24	13	24	14	
15	88	68	78	0	66	70	0	13	BR HZ	0		0.0	0.00	28.91	29.92	5.9	23	6.1	20	28	16	28	15	
16	89	68	79	1	66	70	0	14	RA	0		0.0	T	28.97	30.00	4.3	23	5.6	20	01	15	36	16	
17	90	70	80	2	67	71	0	15	TS	0		0.0	0.00	29.02	30.03	5.5	21	7.2	22	23	17	23	17	
18	86	72	79	1	70	72	0	14	TSRA RA BR HZ	0		0.0	0.65	29.02	30.04	6.6	22	7.4	33*	21	23	23	18	
19	90	70	80	2	69	72	0	15	TS RA BR	0		0.0	0.01	28.95	29.95	7.4	22	7.8	31	24	24*	26	19	
20	86	70	78	0	64	68	0	13	RA	0		0.0	T	28.92	29.94	2.9	34	5.8	18	36	15	36	20	
21	85	61*	73	-5	53	62	0	8		0		0.0	0.00	29.00	30.03	7.2	03	8.1	20	04	16	05	21	
22	87	64	76	-2	55	63	0	11		0		0.0	0.00	29.04	30.06	2.4	02	6.4	15	36	12	23	22	
23	84	67	76	-2	60	66	0	11	RA HZ	0		0.0	T	29.03	30.05	3.6	21	6.2	23	21	18	22	23	
24	81	64	73	-5	62	65	0	8	TS TSRA RA DZ BR HZ	0		0.0	0.89	29.03	30.04	1.0	12	6.3	30	30	20	33	24	
25	82	66	74	-4	65	67	0	9	TS TSRA RA FG+ FG BR	0		0.0	0.32	29.03	30.06	1.7	03	5.3	25	02	21	02	25	
26	86	66	76	-2	67	70	0	11	FG+ FG BR HZ	0		0.0	0.00	29.05	30.06	0.7	26	2.2	15	27	10	21	26	
27	85	70	78	0	68	71	0	13	RA BR HZ	0		0.0	0.01	28.95	29.96	7.1	22	7.5	23	20	17	23	27	
28	83	69	76	-2	70	72	0	11	TS RA BR HZ	0		0.0	1.11	28.82	29.83	3.4	22	5.6	20	22	14	22	28	
29	87	73	80	2	70	73	0	15	RA BR HZ	0		0.0	0.01	28.80	29.82	1.9	01	2.6	12	28	8	34	29	
30	87	70	79	1	71	73	0	14	TS TSRA RA BR HZ	0		0.0	0.19	28.84	29.87	1.6	03	3.1	24	05	18	06	30	
31	91	67	79	1	68	71	0	14	BR HZ	0		0.0	0.00	28.90	29.92	3.2	04	3.9	16	02	12	02	31	

87.1	67.8	77.5	☼	64.5	68.8	0.0	12.7	< MONTHLY AVERAGES TOTALS >				0.0	4.71	28.97	29.99	2.2	23	5.8	< MONTHLY AVERAGES			
0.2	-0.7	-0.2		----- DEPARTURE FROM NORMAL -----				0.00				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.12 DATE : 27-28				SEA LEVEL PRESSURE											
MONTHLY		SEASON TO DATE		GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.17		DATE 03		TIME 0853							
TOTAL DEPARTURE		TOTAL DEPARTURE		GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.78		DATE 29		TIME 1753							
HEATING :	0	0	0	0	NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 8		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 12						
COOLING :	393	-15	1001	168					MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 8						
								THUNDERSTORMS : 11				HEAVY FOG : 2				SNOWFALL >= 1.0 INCH : 0			

**JULY 2007
KNOXVILLE, TN**

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
JULY 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												01	0.00	0.00	
02													02												02	0.02	0.02	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	T	T	
06													06												06	0.43	0.43	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.40	0.40	
10													10												10	T	T	
11													11												11	0.67	0.67	
12													12												12	0.00	0.00	
13													13												13	T	T	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	T	T	
17													17												17	0.00	0.00	
18													18												18	0.65	0.65	
19													19												19	0.01	0.01	
20													20												20	T	T	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	T	T	
24													24												24	0.89	0.89	
25													25												25	0.32	0.32	
26													26												26	0.00	0.00	
27													27												27	0.01	0.01	
28													28												28	1.11	1.11	
29													29												29	0.01	0.01	
30													30												30	0.19	0.19	
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)	0.29	0.43	0.49	0.55	0.57	0.59	0.59	0.59	0.59	0.62	0.83	0.93
Ending Date	18	18	18	18	18	18	18	18	18	28	28	28
Ending Time (Hr/Min)	1425	1429	1433	1439	1447	1453	1453	1453	1453	0534	0546	0557

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 JULY 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							6.00	10.00	
02							5.00	10.00	
03							5.00	10.00	
04							9.00	10.00	
05							7.00	10.00	
06							2.00	10.00	
07							6.00	10.00	
08							3.00	10.00	
09							3.00	10.00	
10							4.00	10.00	
11							7.00	10.00	
12							8.00	10.00	
13							10.00	10.00	
14							8.00	10.00	
15							4.00	10.00	
16							7.00	10.00	
17							7.00	10.00	
18							2.50	10.00	
19							5.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							5.00	10.00	
24							3.00	10.00	
25							0.50	10.00	
26							0.50	10.00	
27							3.00	8.00	
28							1.75	10.00	
29							1.75	7.00	
30							1.50	10.00	
31							0.75	10.00	
MONTHLY AVGS							5.04	9.84	
SUNSHINE (Minutes)									
Total : 0					Possible : 26617				
Percent Possible : 0									
NUMBER OF DAYS WITH : SKY CONDITION									
Clear		Partly CLDY		Cloudy		Missing			
MINIMUM VISIBILITY (MILES)									
<= .25			<= 3.0			>= 7.0			
0			12			11			

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN JULY 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)		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		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL
SUNRISE: 0523 JUL 01						SUNSET: 1956						SUNRISE: 0526 JUL 07						SUNSET: 1955									
01	FEW	047				74	67	69	79	6	05	28.98	29.99	01	CLR	NC				73	67	69	82	3	22	28.96	29.97
04	CLR	NC				71	67	68	87	7	04	28.96	29.97	04	SCT	120				71	68	69	90	0	00	28.94	29.95
07	SCT	085			BR	71	67	68	87	6	05	29.00	30.01	07	FEW	120				72	68	69	87	0	00	28.96	29.97
10	SCT	080				82	68	73	63	0	00	29.02	30.03	10	FEW	100				79	69	72	72	0	00	28.96	29.97
13	FEW	040				87	65	72	48	11	03	29.01	30.02	13	FEW	020				85	66	72	53	0	00	28.93	29.94
16	SCT	070				90	61	71	38	13	04	28.97	29.98	16	BKN	120				81	67	72	63	17	21	28.90	29.92
19	BKN	100				82	61	69	49	10	04	28.99	30.00	19	FEW	095				78	69	72	74	9	23	28.89	29.91
22	CLR	NC				77	62	67	60	5	04	29.01	30.02	22	CLR	NC				74	69	71	84	6	24	28.90	29.91
SUNRISE: 0524 JUL 02						SUNSET: 1956						SUNRISE: 0527 JUL 08						SUNSET: 1955									
01	OVC	120				76	59	65	56	6	02	29.04	30.05	01	CLR	NC				70	68	69	93	3	20	28.90	29.91
04	OVC	037				74	57	64	56	5	01	29.02	30.03	04	CLR	NC				69	67	68	93	3	16	28.87	29.89
07	OVC	090				73	55	62	53	5	36	29.06	30.08	07	CLR	NC				69	67	68	93	3	07	28.90	29.91
10	OVC	060			-RA	71	60	64	68	0	00	29.09	30.10	10	SCT	021				80	69	73	69	0	00	28.91	29.93
13	FEW	039				83	62	69	49	5	30	29.06	30.07	13	SCT	030				89	65	73	45	6	VR	28.87	29.88
16	BKN	100				85	61	69	45	10	10	29.03	30.04	16	BKN	070				92	61	72	36	10	03	28.82	29.83
19	BKN	110				80	65	70	60	8	22	29.05	30.06	19	FEW	080				91	57	69	32	6	34	28.82	29.83
22	OVC	090				75	62	67	64	3	30	29.10	30.12	22	SCT	090				83	62	69	49	0	00	28.86	29.87
SUNRISE: 0524 JUL 03						SUNSET: 1956						SUNRISE: 0527 JUL 09						SUNSET: 1955									
01	FEW	075				71	59	64	66	6	26	29.12	30.14	01	BKN	090				79	67	71	67	7	27	28.87	29.88
04	SCT	080				68	61	64	78	0	00	29.11	30.12	04	CLR	NC				75	68	70	79	0	00	28.89	29.90
07	OVC	041			HZ	68	62	64	81	0	00	29.14	30.16	07	CLR	NC				75	68	70	79	3	22	28.93	29.94
10	BKN	041				76	61	67	60	0	00	29.15	30.16	10	CLR	NC				84	69	74	61	3	26	28.95	29.96
13	BKN	048				82	63	70	53	13	23	29.12	30.13	13	SCT	100				91	64	73	41	0	00	28.92	29.93
16	BKN	075				83	62	69	49	9	25	29.09	30.10	16	BKN	110				93	62	72	36	5	32	28.88	29.88
19	FEW	045				81	63	69	54	9	24	29.08	30.10	19	BKN	095				73	69	70	87	8	16	28.94	29.96
22	CLR	NC				73	62	66	69	9	22	29.10	30.12	22	CLR	NC				72	68	69	87	0	00	28.94	29.96
SUNRISE: 0525 JUL 04						SUNSET: 1956						SUNRISE: 0528 JUL 10						SUNSET: 1955									
01	CLR	NC				70	60	64	71	8	26	29.09	30.11	01	CLR	NC				72	69	70	90	5	19	28.97	29.98
04	CLR	NC				67	60	63	78	5	23	29.09	30.10	04	CLR	NC				71	68	69	90	6	24	28.98	29.98
07	CLR	NC				70	61	64	73	6	26	29.12	30.14	07	CLR	NC				72	68	69	87	6	27	29.01	30.03
10	SCT	075				80	61	68	52	14	21	29.13	30.14	10	BKN	024				79	68	72	69	11	22	29.03	30.04
13	SCT	045				85	62	70	46	10	23	29.10	30.11	13	BKN	065				84	68	73	59	14	22	28.99	30.00
16	SCT	040				87	60	70	40	8	20	29.05	30.07	16	BKN	100				87	66	73	50	18	21	28.93	29.94
19	CLR	NC				85	60	69	43	14	22	29.02	30.03	19	SCT	120				81	68	72	65	17	20	28.92	29.93
22	CLR	NC				77	62	67	60	7	23	29.07	30.08	22	CLR	NC				77	69	72	76	10	21	28.94	29.96
SUNRISE: 0525 JUL 05						SUNSET: 1956						SUNRISE: 0529 JUL 11						SUNSET: 1954									
01	CLR	NC				73	63	67	71	7	23	29.05	30.06	01	SCT	050				76	68	71	76	5	22	28.92	29.93
04	CLR	NC				70	63	66	79	5	25	29.04	30.05	04	OVC	085				72	69	70	90	11	21	28.89	29.90
07	CLR	NC				72	62	66	71	5	23	29.07	30.08	07	OVC	075				73	69	70	87	17	21	28.90	29.91
10	BKN	049				82	60	68	47	15	22	29.06	30.07	10	BKN	032				80	69	73	69	15	24	28.92	29.93
13	FEW	049				88	62	71	42	11	23	29.03	30.04	13	BKN	035				81	71	74	72	15	21	28.90	29.91
16	SCT	120				91	62	72	38	9	20	28.95	29.96	16	SCT	080				80	72	74	77	6	16	28.87	29.88
19	SCT	065				75	64	68	69	5	07	28.97	29.99	19	BKN	047				80	71	74	74	0	00	28.90	29.91
22	BKN	100				73	68	70	84	5	03	28.99	30.01	22	CLR	NC				76	59	65	56	6	30	28.95	29.97
SUNRISE: 0526 JUL 06						SUNSET: 1956						SUNRISE: 0529 JUL 12						SUNSET: 1954									
01	BKN	110				73	68	70	84	8	35	29.00	30.01	01	CLR	NC				68	62	64	81	5	22	28.98	30.00
04	OVC	120			-TSRA BR	70	69	69	97	5	06	28.99	30.00	04	CLR	NC				66	62	64	87	0	00	28.98	30.00
07	SCT	120			BR	71	69	70	93	0	00	29.02	30.04	07	CLR	NC				68	61	64	78	0	00	29.01	30.02
10	SCT	120			HZ	80	67	71	65	5	26	29.02	30.04	10	FEW	050				75	55	63	50	5	33	29.04	30.05
13	SCT	100				87	64	72	46	3	VR	28.99	30.01	13	FEW	040				81	51	63	35	7	21	29.01	30.02
16	SCT	090				89	62	71	41	8	30	28.94	29.95	16	SCT	070				84	52	65	33	14	27	28.97	29.99
19	SCT	090				87	64	72	46	3	35	28.95	29.96	19	SCT	120				80	52	63	38	8	26	28.98	29.99
22	FEW	065				78	69	72	74	8	21	28.96	29.98	22	CLR	NC				74	56	63	54	0	00	29.01	30.03

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JULY 2007

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd 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 Cl'd Amt Oktas	
SUNRISE: 0538						JUL 25						SUNSET: 1947					
01	OVC	090			5.00	BR	67	65	66	93	10	01	29.01	30.04			
04	OVC	095			4.00	BR	66	64	65	93	5	01	29.02	30.04			
07	SCT	085			3.00	BR	67	65	66	93	3	09	29.04	30.06			
10	BKN	095			10.00		75	65	69	71	7	23	29.06	30.08			
13	BKN	070			10.00		81	64	70	56	13	21	29.02	30.04			
16	BKN	060			4.00	TSRA BR	68	66	67	93	11	04	29.04	30.07			
19	SCT	090			4.00	-RA BR	68	66	67	93	5	36	29.03	30.06			
22	BKN	005			5.00	BR	67	65	66	93	0	00	29.06	30.08			
SUNRISE: 0539						JUL 26						SUNSET: 1946					
01	VV	001			0.50	FG	66	65	65	97	0	00	29.06	30.08			
04	OVC	003			1.00	BR	66	65	65	97	0	00	29.04	30.07			
07	OVC	008			1.75	BR	67	65	66	93	0	00	29.09	30.12			
10	BKN	010			5.00	HZ	73	66	68	79	0	00	29.10	30.12			
13	FEW	026			10.00		81	68	72	65	5	21	29.07	30.08			
16	SCT	120			10.00		86	68	74	55	7	28	28.99	30.00			
19	CLR	NC			6.00	HZ	81	70	73	69	5	27	28.99	30.01			
22	OVC	100			6.00	HZ	77	71	73	82	0	00	29.03	30.05			
SUNRISE: 0540						JUL 27						SUNSET: 1945					
01	CLR	NC			7.00		73	69	70	87	5	22	29.01	30.02			
04	FEW	041			6.00	BR	72	68	69	87	5	24	28.99	30.01			
07	BKN	100			5.00	BR	71	67	68	87	6	22	29.00	30.01			
10	FEW	040			5.00	HZ	78	69	72	74	9	22	29.00	30.02			
13	FEW	040			7.00		84	68	73	59	14	22	28.95	29.96			
16	CLR	NC			7.00		84	67	73	57	13	23	28.89	29.91			
19	SCT	120			6.00	HZ	80	68	72	67	8	21	28.87	29.88			
22	FEW	080			5.00	HZ	76	70	72	82	7	21	28.88	29.89			
SUNRISE: 0540						JUL 28						SUNSET: 1945					
01	OVC	110			5.00	HZ	75	70	72	85	5	24	28.86	29.87			
04	OVC	035			1.75	+RA BR	72	70	71	93	0	00	28.84	29.86			
07	OVC	022			2.50	BR	69	67	68	93	5	17	28.84	29.85			
10	OVC	047			5.00	HZ	75	69	71	82	11	22	28.84	29.84			
13	BKN	030			4.00	HZ	81	72	75	74	13	21	28.82	29.82			
16	OVC	095			6.00	HZ	79	73	75	82	3	25	28.78	29.78			
19	SCT	100			10.00		80	71	74	74	3	33	28.77	29.78			
22	SCT	100			5.00	BR	75	72	73	90	0	00	28.82	29.83			
SUNRISE: 0541						JUL 29						SUNSET: 1944					
01	SCT	006			3.00	BR	73	71	72	93	5	03	28.79	29.80			
04	OVC	012			3.00	BR	73	71	72	93	0	00	28.79	29.80			
07	OVC	022			1.75	BR	73	71	72	93	3	06	28.82	29.82			
10	BKN	048			4.00	HZ	76	71	73	85	5	02	28.84	29.84			
13	FEW	040			6.00	HZ	82	69	73	65	0	00	28.82	29.83			
16	SCT	120			5.00	HZ	85	69	74	59	3	VR	28.79	29.80			
19	BKN	120			6.00	HZ	85	68	73	57	3	35	28.79	29.80			
22	CLR	NC			6.00	HZ	77	70	72	79	0	00	28.84	29.85			
SUNRISE: 0542						JUL 30						SUNSET: 1943					
01	CLR	NC			7.00		74	70	71	87	0	00	28.84	29.84			
04	CLR	NC			3.00	BR	71	70	70	97	0	00	28.84	29.84			
07	SCT	120			1.50	BR	72	70	71	93	0	00	28.85	29.86			
10	BKN	085			5.00	HZ	79	71	74	77	0	00	28.89	29.90			
13	SCT	034			10.00		85	70	75	61	3	VR	28.86	29.87			
16	SCT	040			10.00		78	72	74	82	7	16	28.84	29.85			
19	BKN	065			6.00	-RA BR	79	75	76	88	3	01	28.84	29.85			
22	FEW	055			6.00	BR	74	72	73	94	5	02	28.90	29.92			

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			Observation Time (LST)	Eff Cl'd 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 Cl'd Amt Oktas	
SUNRISE: 0543						JUL 31						SUNSET: 1942					
01	FEW	008			7.00		71	68	69	90	6	01	28.91	29.92			
04	CLR	NC			7.00		68	66	67	93	3	04	28.89	29.91			
07	OVC	001			0.75	BR	68	67	67	97	6	04	28.91	29.93			
10	FEW	009			10.00		77	69	72	76	0	00	28.95	29.96			
13	SCT	028			10.00		86	69	74	57	5	09	28.92	29.93			
16	FEW	055			10.00		89	67	74	48	5	VR	28.87	29.88			
19	SCT	080			8.00		84	69	74	61	6	01	28.87	29.89			
22	CLR	NC			8.00		79	67	71	67	0	00	28.93	29.94			

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.

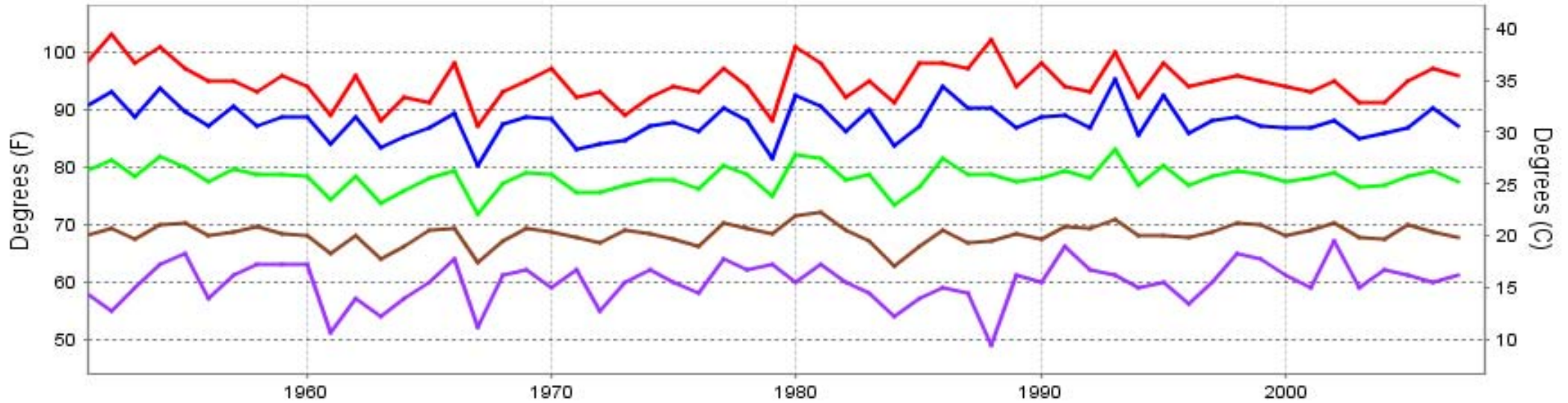
& = Original observation contained additional weather elements.

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			72	65	67	79	28.98	29.99	8.34	5	2	25
02			71	65	67	80	28.97	29.98	8.19	4	2	24
03			70	65	67	83	28.96	29.98	7.94	4	1	24
04			69	65	66	85	28.97	29.98	7.48	4	1	22
05			69	64	66	85	28.97	29.99	7.35	3	1	23
06			69	64	66	86	28.98	30.00	6.34	3	2	23
07			70	65	67	84	28.99	30.01	6.17	4	2	24
08			72	65	67	79	29.00	30.02	7.00	5	1	24
09			75	65	68	73	29.01	30.02	7.77	5	3	25
10			77	65	70	68	29.01	30.02	8.42	6	4	26
11			79	65	70	64	29.01	30.02	8.77	6	4	26
12			81	65	71	60	29.00	30.01	9.10	7	2	25
13			83	65	71	55	28.98	29.99	9.35	7	4	26
14			85	64	71	52	28.96	29.98	9.45	7	3	25
15			84	64	71	52	28.95	29.96	8.98	8	3	26
16			84	64	71	52	28.94	29.95	9.23	9	2	26
17			83	63	70	54	28.93	29.95	9.03	9	3	26
18			82	64	70	57	28.93	29.95	9.19	8	2	25
19			80	64	70	61	28.94	29.95	9.00	7	3	26
20			78	65	69	66	28.95	29.96	8.65	7	2	25
21			76	65	69	70	28.96	29.97	8.68	7	2	25
22			75	65	68	73	28.97	29.99	8.77	4	2	25
23			74	65	68	75	28.98	29.99	8.44	5	2	25
24			73	65	68	77	28.98	29.99	8.27	5	3	25

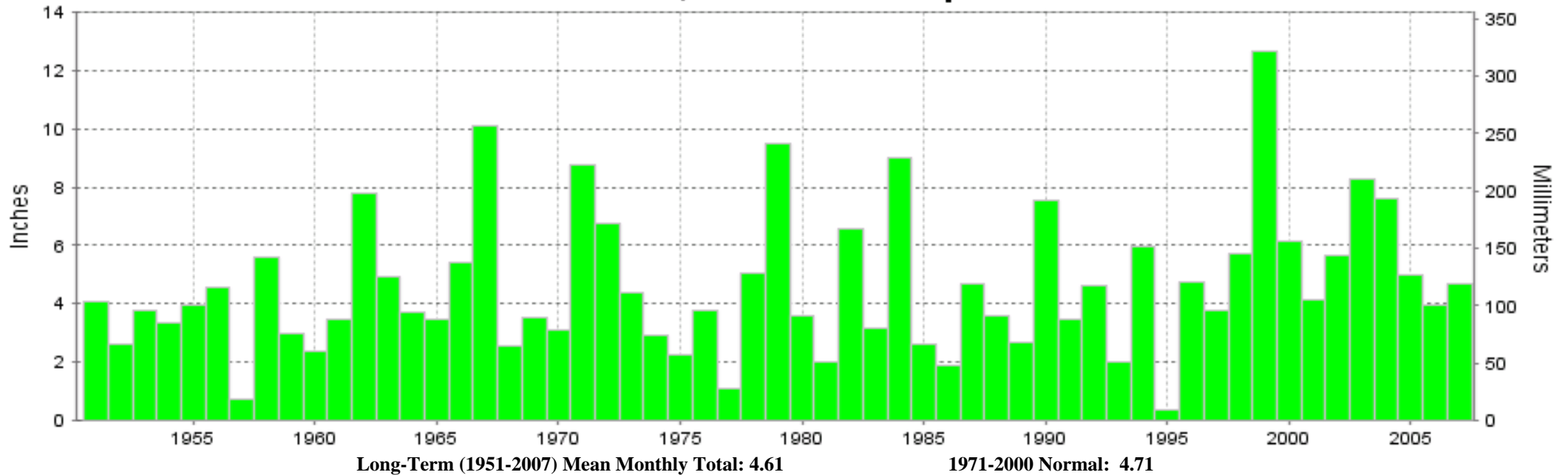
KNOXVILLE, TN JULY Temperatures



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

Long-Term (1951-2007) Mean: 78.0
1971-2000 Normal: 77.7

KNOXVILLE, TN JULY Precipitation



Long-Term (1951-2007) Mean Monthly Total: 4.61

1971-2000 Normal: 4.71



**JULY 2007
KNOXVILLE, TN**

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

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