



SEPTEMBER 1997

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

SEPTEMBER 1997
 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	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	92	67	80	6	68	72	0	15	BR HZ	0			0.00	29.07	30.09	1.4	02	3.7	15	36	11	02	01									
02	94*	69	82*	8	68	72	0	17	BR HZ	0			0.00	29.09	30.10	1.9	36	4.0	15	02	10	02	02									
03	82	63	73	0	65	68	0	8	RA BR HZ	0			0.01	29.00	30.02	7.8	02	8.5	29*	01	25*	02	03									
04	79	54	67	-6	44	54	0	2		0			0.00	29.08	30.11	11.0	05	11.5	23	05	20	05	04									
05	83	52*	68	-5	50	58	0	3		0			0.00	29.10	30.13	1.9	36	5.1	17	25	14	24	05									
06	85	58	72	-1	54	61	0	7	BR HZ	0			0.00	29.09	30.12	2.5	26	3.3	15	30	13	26	06									
07	87	60	74	2	58	64	0	9	BR HZ	0			0.00	29.01	30.03	1.6	26	2.1	13	32	11	30	07									
08	88	64	76	4	61	66	0	11	BR HZ	0			0.00	28.89	29.91	2.7	28	3.5	13	25	11	24	08									
09	82	66	74	2	66	68	0	9	TS RA BR HZ	0			0.03	28.80	29.81	6.1	23	6.8	22	24	17	23	09									
10	77	65	71	-1	65	67	0	6	TS TSRA RA BR HZ	0			0.57	28.78	29.79	3.3	25	5.7	21	26	16	31	10									
11	77	62	70	-2	61	64	0	5	TS TSRA RA FG+ BR	0			0.05	28.90	29.92	1.6	33	3.6	15	28	13	28	11									
12	81	57	69	-2	58	62	0	4	FG BR	0			0.00	29.02	30.04	2.5	02	4.2	13	33	9	36	12									
13	83	58	71	0	58	63	0	6	BR HZ	0			0.00	29.06	30.08	2.7	02	3.9	14	31	10	02	13									
14	82	60	71	0	59	64	0	6	BR HZ	0			0.00	29.07	30.09	1.9	36	3.0	13	30	10	01	14									
15	84	57	71	0	58	63	0	6	BR HZ	0			0.00	29.03	30.05	6.9	05	7.4	21	06	16	04	15									
16	87	58	73	3	58	64	0	8	BR HZ	0			0.00	28.99	30.01	3.1	04	4.3	14	02	9	01	16									
17	88	60	74	4	62	67	0	9	RA BR HZ	0			T	28.95	29.97	3.0	24	5.5	20	25	17	25	17									
18	89	67	78	8	64	68	0	13	BR HZ	0			0.00	28.99	30.00	1.3	02	2.8	16	25	11	28	18									
19	92	61	77	7	62	67	0	12	BR HZ	0			0.00	29.00	30.01	2.4	25	3.2	20	25	14	26	19									
20	92	67	80	10	65	69	0	15	BR HZ	0			0.00	28.98	29.99	3.4	30	6.2	24	02	18	02	20									
21	81	63	72	3	57	63	0	7		0			0.00	29.09	30.11	8.6	04	9.3	21	02	17	03	21									
22	77	58	68	0	56	61	0	3		0			0.00	29.11	30.14	2.0	32	5.3	11	28	10	27	22									
23	79	66	73	5	62	65	0	8	TSRA RA BR HZ	0			0.52	29.04	30.06	2.0	34	6.2	20	03	16	03	23									
24	67	61	64*	-4	63	63	1	0	TSRA RA BR	0			2.01	28.91	29.94	7.2	05	7.9	20	04	17	04	24									
25	77	61	69	2	63	65	0	4	RA BR	0			0.04	28.76	29.77	6.2	03	6.9	15	01	13	04	25									
26	80	57	69	2	58	62	0	4	FG+ BR	0			0.00	28.86	29.88	7.9	04	8.2	18	04	16	04	26									
27	82	59	71	5	58	63	0	6	RA BR	0			0.02	28.84	29.85	3.1	02	5.5	21	23	17	23	27									
28	69	63	66	0	64	65	0	1	RA BR	0			0.07	28.74	29.76	2.3	27	4.8	14	23	11	25	28									
29	76	54	65	0	53	58	0	0	BR	0			0.00	28.80	29.82	9.0	25	9.6	25	25	22	24	29									
30	81	59	70	5	49	57	0	5		0			0.00	28.83	29.85	10.5	26	10.9	25	26	21	27	30									
< MONTHLY AVERAGES										TOTALS-->				3.32	28.96	29.98	1.2	34	5.8	<- MONTHLY AVERAGES												
1.2										1.9				1.6				<----- DEPARTURE FROM NORMAL ----->				0.25	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 2.53 DATE: 23-24				SEA LEVEL PRESSURE				DATE TIME															
MONTHLY TOTAL DEPARTURE									SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.20 22 0832											
HEATING: 1 -17									COOLING: 209 38				1251 18				MINIMUM				: 29.70 28 2327											
HEATING: 1 -17									COOLING: 209 38				1251 18				NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 4				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 9			
HEATING: 1 -17									COOLING: 209 38				1251 18				NUMBER OF DAYS WITH				MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 3			
HEATING: 1 -17									COOLING: 209 38				1251 18				NUMBER OF DAYS WITH				THUNDERSTORMS: 5				HEAVY FOG: 2				SNOWFALL ≥ 1.0 INCH: 0			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

SEPTEMBER 1997 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		0.01		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10	0.55	0.57		
11													11												11	0.00	0.05		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		T		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.52		
24													24												24	1.93	2.01		
25													25												25	0.06	0.04		
26													26												26		0.00		
27													27												27		0.02		
28													28												28		0.07		
29													29												29		0.00		
30													30												30		0.00		

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 SEPTEMBER 1997

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.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01	643						2.00	8.00	
02	651	84					3.00	9.00	
03	522	72					3.00	10.00	
04	696						10.00	10.00	
05	687						8.00	10.00	
06	662						5.00	10.00	
07	620	81					6.00	10.00	
08	499						4.00	10.00	
09	209						1.50	9.00	
10	308	41					3.00	9.00	
11	509	68					1.50	10.00	
12	645	86					.75	10.00	
13	607	81					4.00	10.00	
14	580	78					2.50	10.00	
15	657						3.00	10.00	
16	637						3.00	10.00	
17	562						4.00	8.00	
18	556						1.50	10.00	
19	618	84					3.00	10.00	
20	502	68					5.00	10.00	
21	543	74					10.00	10.00	
22	431	59					10.00	10.00	
23	344	47					3.00	10.00	
24	16						1.50	10.00	
25	551						3.00	10.00	
26	608						.75	10.00	
27	635						4.00	10.00	
28	158	22					2.00	9.00	
29	670	94					7.00	10.00	
30	712	100					10.00	10.00	
MONTHLY AVGS							4.17	9.73	
SUNSHINE (MINUTES)									
Total: 16038 Possible: 22300 Percent Possible: 72									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 0 17 6									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

SEPTEMBER 1997

TYS

WBAN # 13891

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG
SUNRISE: 0608						SEP 01	SUNSET: 1904						SUNRISE: 0612						SEP 07	SUNSET: 1855							
01	BKN	080			3.00 BR	71	68	69	90	0	00	29.02	30.03	01	CLR	NC			7.00	65	57	60	76	0	00	29.05	30.06
04	FEW	NC			4.00 BR	71	68	69	90	3	36	29.04	30.05	04	CLR	NC			6.00 BR	61	57	59	87	0	00	29.05	30.07
07	CLR	NC			3.00 BR	69	67	68	93	3	04	29.08	30.10	07	SCT	NC			7.00	61	56	58	84	0	00	29.08	30.10
10	FEW	NC			5.00 HZ	79	68	72	69	3	04	29.13	30.14	10	CLR	NC			10.00	74	57	64	56	6	24	29.08	30.10
13	FEW	NC			7.00	88	67	74	50	8	02	29.09	30.11	13	SCT	NC			8.00	81	57	66	44	6	30	29.02	30.04
16	FEW	NC			7.00	91	66	74	44	6	11	29.05	30.06	16	SCT	NC			9.00	86	57	68	37	8	26	28.96	29.98
19	CLR	NC			6.00 HZ	87	67	73	51	0	00	29.04	30.06	19	FEW	NC			9.00	81	58	67	46	0	00	28.94	29.96
22	CLR	NC			7.00	78	70	73	76	6	25	29.11	30.12	22	SCT	NC			7.00	71	62	65	73	0	00	28.96	29.98
SUNRISE: 0609						SEP 02	SUNSET: 1903						SUNRISE: 0613						SEP 08	SUNSET: 1853							
01	CLR	NC			6.00 HZ	76	69	71	79	3	25	29.13	30.14	01	FEW	NC			5.00 HZ	68	61	64	78	3	23	28.95	29.96
04	CLR	NC			6.00 BR	73	69	70	87	0	00	29.12	30.13	04	SCT	NC			5.00 HZ	66	60	62	81	0	00	28.94	29.96
07	CLR	NC			4.00 BR	70	68	69	93	3	03	29.13	30.14	07	BKN	075			4.00 HZ	66	60	62	81	0	00	28.95	29.97
10	CLR	NC			6.00 HZ	83	69	74	63	5	VR	29.15	30.16	10	SCT	NC			6.00 HZ	76	61	67	60	7	25	28.95	29.97
13	SCT	NC			8.00	90	66	74	45	7	VR	29.11	30.12	13	SCT	NC			10.00	85	58	68	40	3	VR	28.89	29.91
16	FEW	NC			7.00	93	63	73	37	7	VR	29.03	30.04	16	SCT	NC			10.00	86	55	67	35	6	29	28.84	29.84
19	CLR	NC			7.00	86	69	74	57	5	36	29.01	30.02	19	CLR	NC			5.00 HZ	80	61	68	52	5	32	28.82	29.83
22	CLR	NC			6.00 HZ	80	69	73	69	0	00	29.04	30.05	22	OVC	110			7.00	76	64	68	67	5	17	28.85	29.85
SUNRISE: 0609						SEP 03	SUNSET: 1902						SUNRISE: 0614						SEP 09	SUNSET: 1852							
01	CLR	NC			6.00 HZ	76	67	70	74	3	VR	29.01	30.02	01	BKN	080			6.00 HZ	73	65	68	76	0	00	28.83	29.83
04	CLR	NC			5.00 HZ	73	68	70	84	0	00	28.98	29.99	04	OVC	070			5.00 -RA BR	71	67	68	87	6	29	28.82	29.82
07	BKN	120			3.00 BR	72	68	69	87	0	00	28.99	30.00	07	OVC	024			1.50 -RA BR	69	68	68	96	0	00	28.84	29.85
10	BKN	040			4.00 -RA	75	70	72	84	9	36	29.03	30.04	10	OVC	017			2.00 -RA BR	69	68	68	96	7	21	28.86	29.87
13	SCT	NC			4.00 HZ	76	70	72	82	7	02	29.00	30.02	13	OVC	047			6.00 HZ	74	66	69	76	14	24	28.83	29.84
16	BKN	030			6.00 HZ	81	66	71	61	14	03	28.95	29.97	16	BKN	070			6.00 HZ	79	64	69	60	12	24	28.76	29.77
19	BKN	043			9.00	72	61	65	69	20	01	28.98	30.01	19	BKN	033			3.00 TS BR	71	69	70	94	10	23	28.77	29.78
22	OVC	035			10.00	67	54	59	63	20	03	29.05	30.07	22	BKN	110			6.00 BR	68	66	67	93	8	29	28.78	29.79
SUNRISE: 0610						SEP 04	SUNSET: 1859						SUNRISE: 0615						SEP 10	SUNSET: 1850							
01	CLR	NC			10.00	60	53	56	78	10	05	29.07	30.09	01	BKN	055			5.00 BR	67	65	66	93	7	25	28.76	29.77
04	CLR	NC			10.00	57	50	53	78	14	04	29.06	30.09	04	BKN	045			6.00 BR	67	65	66	93	9	26	28.75	29.75
07	FEW	NC			10.00	55	49	52	80	9	05	29.11	30.14	07	OVC	013			4.00 BR	66	65	65	96	7	24	28.78	29.80
10	CLR	NC			10.00	65	48	56	54	17	07	29.13	30.15	10	BKN	044			6.00 BR	70	66	67	87	9	23	28.81	29.82
13	FEW	NC			10.00	75	40	56	28	14	08	29.08	30.11	13	SCT	NC			6.00 HZ	73	67	69	81	8	23	28.78	29.79
16	FEW	NC			10.00	78	34	56	20	14	02	29.03	30.05	16	BKN	120			7.00 TS	69	65	66	87	0	00	28.75	29.76
19	CLR	NC			10.00	70	36	53	29	7	05	29.05	30.08	19	BKN	120			6.00 BR	69	65	66	87	0	00	28.78	29.80
22	CLR	NC			10.00	64	44	54	48	12	03	29.08	30.11	22	BKN	110			5.00 BR	67	64	65	91	3	36	28.82	29.83
SUNRISE: 0611						SEP 05	SUNSET: 1857						SUNRISE: 0615						SEP 11	SUNSET: 1849							
01	CLR	NC			10.00	60	44	52	56	9	04	29.10	30.13	01	SCT	NC			4.00 BR	64	63	63	96	0	00	28.83	29.85
04	CLR	NC			10.00	55	46	50	72	8	05	29.10	30.13	04	BKN	011			6.00 BR	64	62	63	93	0	00	28.83	29.84
07	CLR	NC			10.00	54	47	50	77	3	05	29.15	30.19	07	BKN	100			5.00 BR	63	61	62	93	3	30	28.88	29.91
10	CLR	NC			10.00	65	48	56	54	0	00	29.17	30.20	10	OVC	015			5.00 BR	66	62	64	87	9	29	28.93	29.96
13	FEW	NC			10.00	79	51	63	38	7	VR	29.12	30.15	13	SCT	NC			8.00	70	62	65	76	3	VR	28.92	29.95
16	FEW	NC			10.00	81	52	64	37	3	21	29.06	30.09	16	FEW	NC			10.00	76	57	64	52	0	00	28.89	29.91
19	CLR	NC			10.00	77	54	63	45	3	28	29.05	30.07	19	SCT	NC			10.00	71	61	65	71	8	01	28.92	29.94
22	CLR	NC			10.00	69	54	60	59	0	00	29.09	30.11	22	OVC	070			8.00	67	60	63	79	5	06	28.96	29.99
SUNRISE: 0612						SEP 06	SUNSET: 1856						SUNRISE: 0616						SEP 12	SUNSET: 1847							
01	CLR	NC			9.00	64	54	58	70	3	32	29.09	30.11	01	CLR	NC			8.00	63	59	61	87	5	36	28.97	30.00
04	BKN	060			5.00 BR	60	57	58	90	0	00	29.11	30.13	04	FEW	NC			4.00 BR	60	59	59	96	0	00	28.98	30.01
07	SCT	NC			7.00	59	55	57	87	0	00	29.15	30.17	07	SCT	NC			1.50 BR	58	57	57	97	0	00	29.04	30.07
10	FEW	NC			10.00	73	56	63	55	5	24	29.17	30.19	10	FEW	NC			5.00 BR	66	62	64	87	6	VR	29.06	30.08
13	CLR	NC			10.00	82	52	64	35	9	26	29.12	30.14	13	SCT	NC			10.00	77	58	65	52	6	VR	29.03	30.06
16	FEW	NC			10.00	84	52	65	33	5	VR	29.05	30.07	16	FEW	NC			10.00	81	57	66	44	7	35	28.99	30.01
19	CLR	NC			10.00	81	52	64	37	0	00	29.03	30.06	19	SCT	NC			10.00	76	57	64	52	3	01	29.00	30.03
22	CLR	NC			9.00	69	57	62	66	3	17	29.06	30.08	22	FEW	NC			10.00	68	57	61	68	5	02	29.04	30.07

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

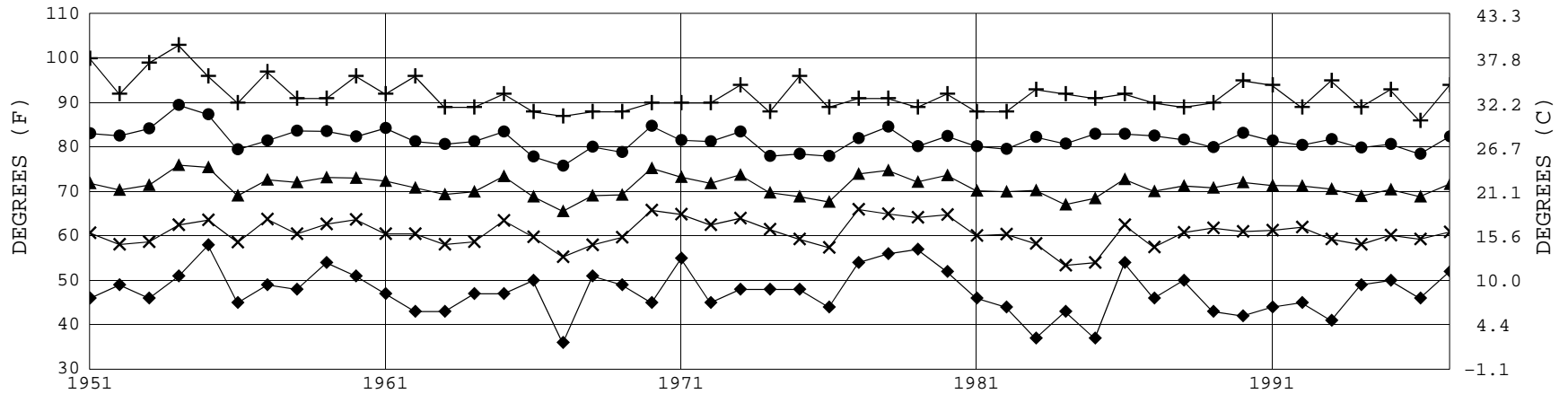
SEPTEMBER 1997

TYS

WBAN # 13891

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)									
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0617						SEP 13						SUNSET: 1846						SUNRISE: 0622						SEP 19						SUNSET: 1837					
01	FEW	NC			9.00	63	57	59	81	7	03	29.04	30.07	01	CLR	NC			6.00	HZ	67	62	64	84	0	00	28.99	30.01							
04	FEW	NC			9.00	61	57	59	87	5	02	29.05	30.07	04	CLR	NC			3.00	BR	62	60	61	93	0	00	29.01	30.02							
07	BKN	070			5.00	60	57	58	90	5	03	29.09	30.12	07	CLR	NC			4.00	BR	62	59	60	90	0	00	29.04	30.06							
10	CLR	NC			6.00	70	61	64	73	5	VR	29.11	30.14	10	CLR	NC			5.00	HZ	77	64	69	64	6	25	29.05	30.07							
13	FEW	NC			10.00	80	56	65	44	5	35	29.07	30.09	13	FEW	NC			8.00		88	64	72	45	12	26	29.02	30.04							
16	FEW	NC			8.00	82	57	66	43	5	27	29.02	30.04	16	FEW	NC			10.00		91	59	70	34	5	29	28.95	29.96							
19	FEW	NC			7.00	76	58	65	54	5	36	29.03	30.05	19	FEW	NC			10.00		83	63	70	51	3	21	28.94	29.96							
22	CLR	NC			6.00	70	60	64	71	0	00	29.05	30.07	22	CLR	NC			9.00		76	62	67	62	3	18	28.98	29.99							
SUNRISE: 0618						SEP 14						SUNSET: 1844						SUNRISE: 0622						SEP 20						SUNSET: 1835					
01	FEW	NC			4.00	65	61	63	87	0	00	29.05	30.07	01	CLR	NC			8.00		72	61	65	69	5	23	28.98	29.99							
04	BKN	065			3.00	63	60	61	90	0	00	29.05	30.07	04	CLR	NC			7.00		68	62	64	81	3	25	28.99	30.01							
07	OVC	065			2.50	62	59	60	90	0	00	29.10	30.12	07	CLR	NC			5.00	HZ	68	62	64	81	0	00	28.98	30.00							
10	SCT	NC			4.00	71	61	65	71	0	00	29.12	30.14	10	FEW	NC			6.00	HZ	84	64	71	51	10	24	28.99	30.00							
13	CLR	NC			8.00	80	57	66	45	5	VR	29.08	30.10	13	BKN	070			8.00		91	66	74	44	15	26	28.96	29.96							
16	SCT	NC			8.00	81	57	66	44	5	35	29.04	30.06	16	BKN	055			9.00		86	67	73	53	10	36	28.94	29.95							
19	FEW	NC			10.00	75	59	65	58	5	36	29.04	30.06	19	BKN	075			8.00		80	68	72	67	6	33	28.97	29.99							
22	CLR	NC			10.00	68	58	62	70	5	06	29.06	30.09	22	BKN	085			9.00		74	68	70	82	6	06	29.01	30.02							
SUNRISE: 0619						SEP 15						SUNSET: 1843						SUNRISE: 0623						SEP 21						SUNSET: 1834					
01	CLR	NC			7.00	63	60	61	90	5	03	29.05	30.07	01	OVC	036			10.00		72	63	66	73	7	01	29.02	30.03							
04	CLR	NC			6.00	61	58	59	90	6	04	29.05	30.07	04	OVC	025			10.00		69	63	65	81	8	01	29.03	30.05							
07	CLR	NC			3.00	59	57	58	93	5	06	29.07	30.10	07	OVC	027			10.00		68	60	63	76	13	04	29.09	30.11							
10	CLR	NC			7.00	73	61	66	66	10	04	29.08	30.10	10	SCT	NC			10.00		71	54	61	55	15	06	29.13	30.15							
13	CLR	NC			10.00	82	55	65	40	12	06	29.03	30.05	13	FEW	NC			10.00		78	54	64	43	12	04	29.10	30.12							
16	FEW	NC			10.00	83	56	66	40	13	04	28.99	30.01	16	BKN	049			10.00		79	53	63	41	9	04	29.07	30.09							
19	CLR	NC			10.00	76	58	65	54	5	05	28.98	30.01	19	FEW	NC			10.00		71	59	64	66	6	05	29.08	30.11							
22	CLR	NC			10.00	70	59	63	68	7	04	29.01	30.03	22	CLR	NC			10.00		66	53	59	63	8	04	29.12	30.15							
SUNRISE: 0619						SEP 16						SUNSET: 1841						SUNRISE: 0624						SEP 22						SUNSET: 1833					
01	CLR	NC			5.00	62	59	60	90	5	05	29.01	30.03	01	FEW	NC			10.00		63	53	57	70	7	02	29.12	30.14							
04	CLR	NC			6.00	60	57	58	90	0	00	29.00	30.02	04	FEW	NC			10.00		59	54	56	83	3	05	29.12	30.14							
07	CLR	NC			3.00	60	58	59	93	3	07	29.03	30.06	07	BKN	044			10.00		61	53	57	75	6	02	29.15	30.18							
10	CLR	NC			8.00	74	60	65	62	6	04	29.04	30.06	10	SCT	NC			10.00		69	56	61	63	3	VR	29.16	30.19							
13	FEW	NC			10.00	84	57	67	40	5	04	28.99	30.01	13	OVC	040			10.00		73	57	63	57	5	VR	29.13	30.15							
16	FEW	NC			10.00	87	55	67	34	7	05	28.92	29.94	16	OVC	042			10.00		76	58	65	54	5	VR	29.08	30.11							
19	CLR	NC			10.00	78	59	66	52	5	03	28.93	29.95	19	BKN	040			10.00		72	59	64	64	5	23	29.08	30.10							
22	CLR	NC			10.00	71	58	63	63	0	00	28.96	29.98	22	OVC	038			10.00		71	58	63	63	8	28	29.10	30.12							
SUNRISE: 0620						SEP 17						SUNSET: 1840						SUNRISE: 0625						SEP 23						SUNSET: 1831					
01	CLR	NC			8.00	66	59	62	78	0	00	28.95	29.97	01	OVC	030			10.00		69	59	63	70	5	27	29.07	30.09							
04	CLR	NC			5.00	62	60	61	93	3	07	28.95	29.96	04	OVC	028			10.00		67	58	62	73	6	23	29.07	30.09							
07	CLR	NC			7.00	61	58	59	90	3	09	28.96	29.98	07	OVC	024			10.00		67	58	62	73	6	23	29.08	30.11							
10	SCT	NC			7.00	76	62	67	62	6	27	29.00	30.01	10	OVC	024			10.00		68	59	63	73	0	00	29.09	30.11							
13	BKN	090			6.00	83	63	70	51	8	24	28.96	29.98	13	OVC	022			10.00		73	61	66	66	3	31	29.04	30.06							
16	SCT	NC			7.00	86	62	70	45	7	28	28.91	29.93	16	BKN	029			8.00		77	64	69	64	0	00	28.98	30.01							
19	OVC	065			7.00	82	64	70	55	5	32	28.91	29.93	19	OVC	031			7.00	-RA	71	66	68	84	13	01	29.00	30.02							
22	BKN	070			4.00	72	67	69	84	5	10	28.96	29.98	22	OVC	017			3.00	-RA BR	67	66	66	97	8	01	29.01	30.04							
SUNRISE: 0621						SEP 18						SUNSET: 1838						SUNRISE: 0625						SEP 24						SUNSET: 1830					
01	CLR	NC			4.00	70	68	69	93	5	04	28.97	29.98	01	OVC	007			4.00	-RA BR	66	65	65	96	10	04	28.99	30.01							
04	BKN	090			3.00	70	68	69	93	3	04	28.96	29.97	04	OVC	006			3.00	-RA BR	64	63	63	96	14	05	28.95	29.97							
07	SCT	NC			1.75	69	67	68	93	3	36	29.01	30.02	07	OVC	006			1.50	RA BR	62	61	61	96	10	06	28.97	30.00							
10	SCT	NC			4.00	76	68	71	77	5	07	29.04	30.06	10	OVC	003			1.75	-RA BR	62	61	61	96	8	05	28.97	29.99							
13	SCT	NC			8.00	85	64	71	50	0	00	29.01	30.03	13	OVC	004			3.00	-RA BR	63	63	63	100	7	06	28.92	29.95							
16	FEW	NC			10.00	87	57	68	36	7	27	28.97	29.98	16	OVC	004			10.00		66	64	65	93	6	05	28.86	29.88							
19	CLR	NC			10.00	83	59	68	44	0	00	28.96	29.97	19	OVC	006			5.00	RA BR	65	65	65	100	3	06	28.86	29.88							
22	CLR	NC			6.00	71	63	66	76	0	00	29.00	30.01	22	OVC	005			7.00	-RA	64	63	63	96	0	00	28.84	29.86							

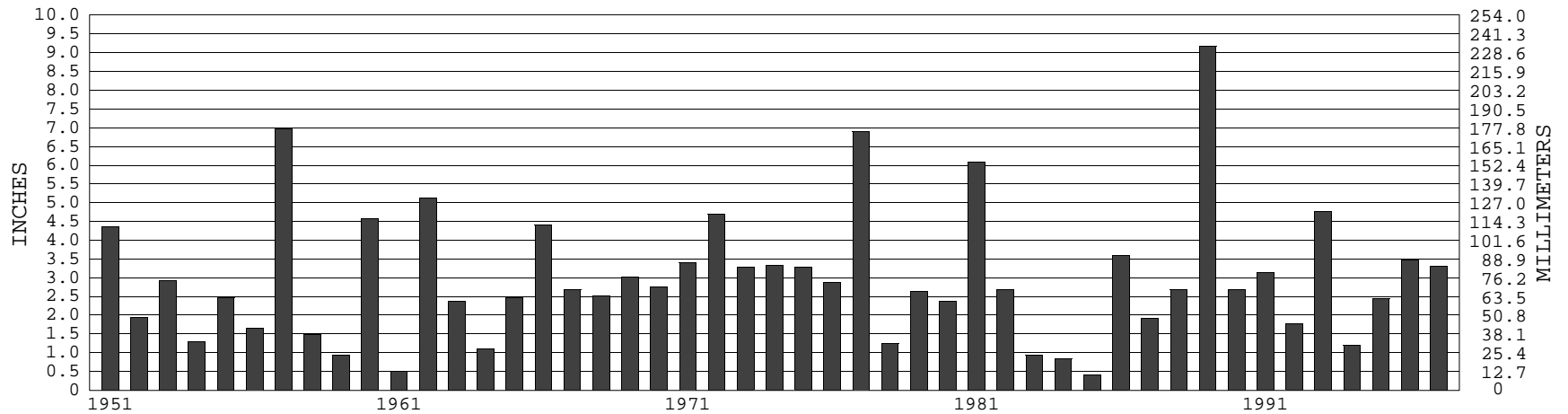
KNOXVILLE, TN SEPTEMBER TEMPERATURES



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

Long-Term (1951-1997) Mean: 71.2 1961-1990 Normal: 70.1

KNOXVILLE, TN SEPTEMBER PRECIPITATION



Long-Term (1951-1997) Mean Monthly Total: 3.00

1961-1990 Normal: 3.07



**SEPTEMBER 1997
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.

ACTING 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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