



JUNE 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

**JUNE 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	85	67	76	5	65	69	0	11	TSRA RA FG BR	0		0.0	2.86	28.76	29.77	3.9	27	6.7	26	01	22	22	01
02	90	67	79	8	68	71	0	14	TS TSRA BR	0		0.0	0.11	28.72	29.73	8.1	24	9.9	41*	34	29	36	02
03	90	74	82	11	71	75	0	17	TS	0		0.0	0.00	28.76	29.76	8.9	24	10.4	22	25	20	25	03
04	78	67	73	2	68	69	0	8	TS TSRA RA BR	0		0.0	0.50	28.78	29.79	1.4	31	7.0	22	20	18	21	04
05	84	66	75	4	67	69	0	10	TSRA RA BR	0		0.0	1.35	28.76	29.77	6.9	24	9.5	25	23	23	23	05
06	70	51	61	-10	55	58	4	0	RA DZ BR HZ	0		0.0	0.28	28.95	29.98	6.2	01	7.6	17	01	13	01	06
07	71	47*	59*	-13	48	53	6	0	BR	0		0.0	0.00	29.15	30.19	0.4	02	1.2	13	33	9	32	07
08	75	51	63	-9	53	58	2	0		0		0.0	0.00	29.17	30.20	1.6	04	3.6	11	06	9	05	08
09	68	61	65	-7	62	63	0	0	TSRA RA BR	0		0.0	1.31	29.07	30.10	1.4	36	5.2	23	34	15	34	09
10	78	65	72	0	68	69	0	7	TS TSRA RA BR	0		0.0	0.33	29.02	30.04	5.2	25	6.4	22	15	18	15	10
11	87	67	77	5	70	72	0	12	FG+ BR	0		0.0	0.00	28.97	29.99	6.5	23	6.8	24	23	20	22	11
12	88	72	80	7	71	74	0	15	RA BR	0		0.0	0.01	28.88	29.89	10.8	23	11.2	25	24	21	23	12
13	85	68	77	4	65	70	0	12	RA BR	0		0.0	T	28.78	29.78	11.2	27	12.4	26	28	22	27	13
14	75	63	69	-4	65	67	0	4	TS TSRA RA BR	0		0.0	0.13	28.65	29.66	1.3	08	5.8	28	15	23	14	14
15	88	69	79	6	65	70	0	14	TS TSRA	0		0.0	0.01	28.56	29.55	14.9	24	15.9	40	24	32*	25	15
16	85	68	77	3	63	68	0	12	TSRA RA	0		0.0	T	28.77	29.78	12.7	24	13.1	31	23	28	22	16
17	84	61	73	-1	62	66	0	8		0		0.0	0.00	29.03		5.3	25	6.1					17
18	91	65	78	4	69	72	0	13		0		0.0	0.00	29.03	30.04	3.4	23	3.9	14	27	10	21	18
19	81	69	75	1	69	71	0	10	TS TSRA RA BR HZ	0		0.0	0.32	28.95	29.96	6.3	24	8.5	29	36	20	33	19
20	88	67	78	4	66	70	0	13	BR HZ	0		0.0	0.00	28.96	29.97	0.1	28	3.0	11	08	9	09	20
21	84	67	76	2	69	71	0	11	RA BR	0		0.0	0.09	28.99	30.01	4.1	23	5.2	17	27	14	26	21
22	92	69	81	7	71	74	0	16	TS TSRA RA GS BR	0		T	0.51	29.07	30.08	1.3	28	6.7	33	05	28	04	22
23	89	67	78	3	70	73	0	13	TS RA	0		0.0	T	29.07	30.08	2.6	25	5.5	18	36	15	36	23
24	93	71	82	7	72	75	0	17	BR HZ	0		0.0	0.00	29.06	30.07	1.3	04	3.6	26	08	23	09	24
25	93	68	81	6	71	74	0	16	BR HZ	0		0.0	0.00	29.07	30.08	3.6	05	5.4	13	05	10	03	25
26	94	72	83	8	73	76	0	18	BR HZ	0		0.0	0.00	28.99	29.99	3.7	25	5.2	13	25	11	25	26
27	94	74	84	9	73	76	0	19	BR HZ	0		0.0	0.00	28.95	29.95	4.3	26	5.0	14	28	11	28	27
28	95*	73	84	9	72	76	0	19	BR HZ	0		0.0	0.00	28.98	29.99	3.0	25	4.6	16	23	14	23	28
29	92	75	84*	9	72	75	0	19	TS TSRA RA BR	0		0.0	T	28.96	29.97	2.8	24	5.0	26	24	22	24	29
30	92	74	83	8	71	74	0	18	TS TSRA RA BR	0		0.0	0.15	28.81	29.82	10.6	26	11.7	30	28	24	25	30

85.3	66.5	75.9	■ ■	66.8	69.9	0.4	11.5	< MONTHLY AVERAGES	TOTALS-->	T	7.96	28.92		1.1	15	7.1	<- MONTHLY AVERAGES
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0.8	4.7	2.7	■ ■	----- DEPARTURE FROM NORMAL ----->						3.99	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
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DEGREE DAYS				GREATEST 24-HR PRECIPITATION: 2.86 DATE :01				SEA LEVEL PRESSURE DATE TIME			
MONTHLY TOTAL DEPARTURE				SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL: T DATE :22			
HEATING: 12 12 3631 -306				GREATEST SNOW DEPTH: 0 DATE :				MAXIMUM MINIMUM :			
COOLING: 346 100 590 229				NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 11			
								MINIMUM TEMP ≤ 32: 0			
								PRECIPITATION ≥ 0.01 INCH : 14			
								PRECIPITATION ≥ 0.10 INCH : 11			
								THUNDERSTORMS : 15			
								HEAVY FOG : 1			
								SNOWFALL ≥ 1.0 INCH : 0			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

JUNE 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	T	2.45	0.41	T									01												01		2.86		
02				T	T	0.09	0.01	0.01					02												02		0.11		
03													03												03		0.00		
04		T	0.01										04	T	0.17	0.17	0.13	0.01	T		0.01				04		0.50		
05					0.19	0.40	0.29	0.27	0.17	T	T		05							0.01	0.02				05		1.35		
06				0.01	0.07	0.15	0.04	T	T	T		0.01	06												06		0.28		
07													07												07		0.00		
08													08												08		0.00		
09				T	T	T	0.03	0.03	0.03	0.01	0.05		09		0.22	T		0.01	0.02					09	0.40	1.31			
10								0.01					10	0.07	0.16	0.09						T	T	T	10		0.33		
11													11												11		0.00		
12									T	0.01			12	T											12		0.01		
13						T							13												13		T		
14													14		0.04	0.06	0.03	T					T	T	14		0.13		
15			0.01										15												15		0.01		
16													16												16		T		
17													17												17		0.00		
18													18												18		0.00		
19						0.11	0.13			0.03	0.03	0.01	0.01	19											19		0.32		
20													20												20		0.00		
21													21	0.03											21		0.09		
22													22								0.51	T			22		0.51		
23													23												23		T		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		0.00		
29													29		T	T									29		T		
30								0.02	0.01				30			T	0.01								30	0.04	0.15		

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 JUNE 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 AND CORRECTIONS:
Sunrise and sunset times listed in the March and April 1998 LCD were incorrect and should not be used.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01	716						1.75	10.00	
02	638						7.00	10.00	
03	705						8.00	10.00	
04	152						2.00	10.00	
05	481	55					1.00	10.00	
06	414						1.50	10.00	
07	716						5.00	10.00	
08	647	74					10.00	10.00	
09	176	20					.75	10.00	
10	389	45					1.75	10.00	
11	610	70					.25	10.00	
12	631						7.00	10.00	
13	721						6.00	10.00	
14	389						2.50	10.00	
15	709	81					10.00	10.00	
16	696	80					10.00	10.00	
17	761	87					10.00	10.00	
18	705						7.00	10.00	
19	424						1.00	10.00	
20	625						1.25	10.00	
21	610	70					4.00	10.00	
22	682	78					5.00	10.00	
23	876	76					7.00	10.00	
24	712						4.00	10.00	
25	658						4.00	9.00	
26	693						2.00	5.00	
27	649						2.00	9.00	
28	730	84					3.00	10.00	
29	605	69					6.00	10.00	
30	635						4.00	10.00	
MONTHLY AVGS							4.49	9.77	
SUNSHINE (MINUTES)									
Total: 18155 Possible: 26171 Percent Possible: 69									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 30									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 1 13 9									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

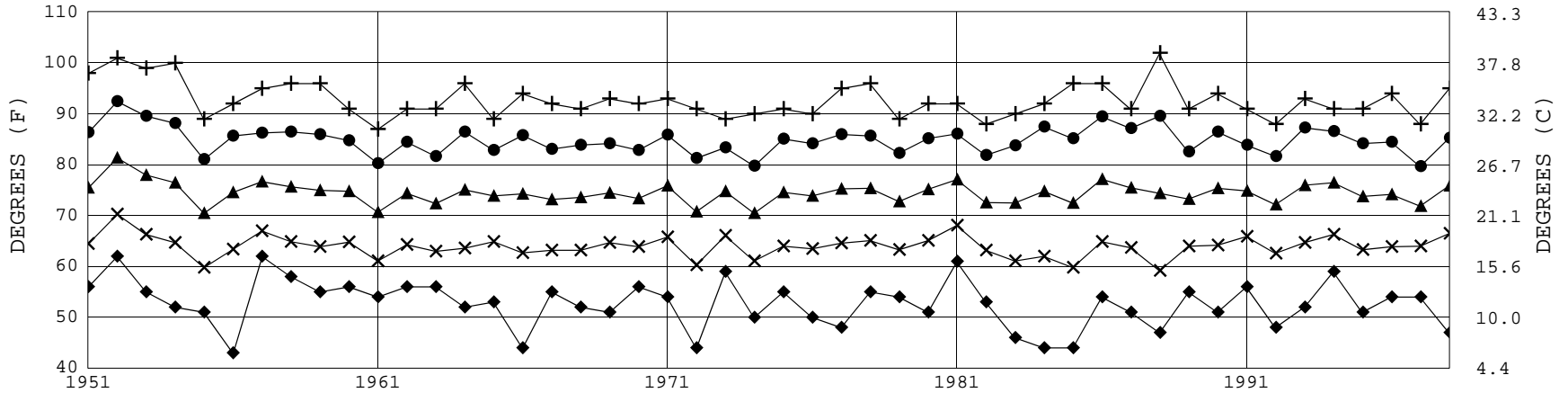
JUNE 1998

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	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	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		
SUNRISE: 0521 JUN 01 SUNSET: 1946																													
01	BKN	025		10.00	-TSRA	JUN 01	70	66	67	87	10	06	28.77	29.77	01	CLR	NC		6.00	BR	JUN 07	50	49	49	96	0	00	29.09	30.13
04	OVC	040		10.00			68	66	67	93	3	05	28.75	29.76	04	CLR	NC		9.00			50	48	49	93	0	00	29.10	30.14
07	CLR	NC		10.00			70	67	68	90	8	28	28.77	29.78	07	CLR	NC		5.00	BR		52	49	50	89	0	00	29.16	30.20
10	OVC	020		10.00			74	70	71	88	6	27	28.80	29.80	10	FEW	NC		10.00			63	47	54	56	6	05	29.20	30.24
13	SCT	NC		10.00			81	66	71	61	5	VR	28.77	29.77	13	SCT	NC		10.00			68	44	55	42	9	36	29.19	30.22
16	SCT	NC		10.00			84	61	69	46	9	29	28.73	29.74	16	BKN	045		10.00			69	46	57	44	7	VR	29.17	30.20
19	CLR	NC		10.00			82	63	70	53	8	27	28.72	29.73	19	CLR	NC		10.00			69	46	57	44	0	00	29.14	30.18
22	CLR	NC		10.00			72	64	67	76	0	00	28.76	29.77	22	CLR	NC		10.00			59	53	56	81	0	00	29.18	30.21
SUNRISE: 0521 JUN 02 SUNSET: 1947																													
01	CLR	NC		10.00			69	63	65	81	5	18	28.73	29.74	01	CLR	NC		10.00			54	50	52	87	5	18	29.17	30.20
04	BKN	060		10.00			69	63	65	81	3	21	28.67	29.67	04	CLR	NC		10.00			53	50	51	89	0	00	29.16	30.20
07	BKN	065		7.00	TS		69	67	68	93	6	14	28.75	29.75	07	CLR	NC		10.00			55	52	53	90	0	00	29.20	30.24
10	SCT	NC		10.00			78	69	72	74	13	23	28.72	29.72	10	FEW	NC		10.00			67	52	58	59	5	26	29.20	30.23
13	BKN	047		7.00			83	72	75	70	15	24	28.72	29.72	13	SCT	NC		10.00			74	53	62	48	5	01	29.19	30.22
16	FEW	NC		10.00			89	71	76	55	16	25	28.70	29.70	16	SCT	NC		10.00			75	52	62	45	6	34	29.15	30.18
19	FEW	NC		10.00			85	69	74	59	8	25	28.72	29.72	19	FEW	NC		10.00			69	56	61	63	6	08	29.13	30.16
22	CLR	NC		10.00			81	70	73	70	6	21	28.77	29.77	22	SCT	NC		10.00			67	56	60	68	0	00	29.13	30.16
SUNRISE: 0521 JUN 03 SUNSET: 1947																													
01	FEW	NC		10.00			79	72	74	79	0	00	28.76	29.76	01	BKN	120		10.00			64	57	60	78	5	01	29.13	30.16
04	BKN	055		10.00			77	72	73	84	8	29	28.77	29.76	04	BKN	110		8.00	-RA		62	58	60	86	7	14	29.05	30.07
07	SCT	NC		9.00			75	69	71	82	9	22	28.81	29.81	07	OVC	026		6.00	-RA BR		62	59	60	90	0	00	29.11	30.14
10	BKN	030		10.00			81	71	74	72	15	22	28.79	29.79	10	BKN	120		6.00	BR		63	61	62	93	6	06	29.07	30.10
13	SCT	NC		10.00			86	72	76	63	15	25	28.78	29.78	13	OVC	009		0.75	+TSRA BR		61	61	61	100	15	35	29.13	30.16
16	SCT	NC		10.00			90	72	77	56	17	25	28.73	29.73	16	BKN	085		10.00			67	64	65	91	6	24	29.04	30.07
19	SCT	NC		10.00			87	70	75	57	12	26	28.72	29.72	19	SCT	NC		10.00			68	66	67	93	5	VR	29.02	30.05
22	SCT	NC		10.00			81	72	75	74	7	24	28.76	29.76	22	OVC	005		6.00	BR		67	66	66	97	0	00	29.03	30.06
SUNRISE: 0520 JUN 04 SUNSET: 1948																													
01	OVC	070		9.00			76	70	72	82	6	02	28.77	29.77	01	OVC	001		1.75	BR		65	65	65	100	5	23	29.02	30.05
04	SCT	NC		10.00			70	67	68	90	3	10	28.77	29.78	04	OVC	001		3.00	BR		65	65	65	100	8	25	28.98	30.01
07	BKN	034		8.00			72	68	69	87	0	00	28.79	29.79	07	OVC	003		3.00	BR		67	66	66	97	6	25	29.02	30.04
10	BKN	100		10.00			72	67	69	84	6	08	28.78	29.78	10	BKN	010		6.00	BR		76	72	73	88	7	21	29.01	30.03
13	BKN	100		7.00	-RA		76	72	73	88	6	25	28.76	29.77	13	OVC	023		2.50	TSRA BR		74	72	73	94	8	32	29.05	30.08
16	OVC	017		2.50	-TSRA BR		70	68	69	93	15	15	28.75	29.76	16	BKN	120		10.00			75	68	70	79	12	24	28.99	30.01
19	BKN	070		10.00			69	68	68	96	9	28	28.82	29.83	19	SCT	NC		10.00			74	67	69	79	8	26	29.00	30.02
22	SCT	NC		10.00			68	66	67	93	13	29	28.77	29.78	22	SCT	NC		10.00			70	68	69	93	5	24	29.01	30.03
SUNRISE: 0520 JUN 05 SUNSET: 1948																													
01	OVC	017		10.00			68	66	67	93	3	27	28.80	29.81	01	FEW	NC		9.00			68	67	67	96	5	24	29.00	30.02
04	OVC	018		8.00			68	66	67	93	5	01	28.76	29.77	04	VV	001		0.25	FG		68	67	67	96	5	24	28.99	30.01
07	OVC	007		1.50	-RA BR		67	66	66	97	7	12	28.78	29.79	07	OVC	003		1.00	BR		68	68	68	100	0	00	29.01	30.03
10	SCT	NC		10.00			71	66	68	84	6	25	28.76	29.77	10	BKN	055		5.00	BR		74	70	71	88	0	00	29.03	30.05
13	SCT	NC		10.00			79	68	72	69	10	25	28.73	29.73	13	BKN	120		10.00			84	73	76	70	13	24	29.00	30.02
16	SCT	NC		10.00			83	69	73	63	17	25	28.72	29.72	16	SCT	NC		10.00			86	71	76	61	17	23	28.93	29.94
19	BKN	090		10.00			79	71	74	77	8	24	28.74	29.75	19	BKN	120		8.00			82	71	74	69	9	22	28.89	29.91
22	FEW	NC		10.00			70	65	67	84	10	25	28.80	29.81	22	CLR	NC		8.00			77	70	72	79	3	23	28.90	29.92
SUNRISE: 0520 JUN 06 SUNSET: 1949																													
01	OVC	025		10.00			69	65	66	87	9	24	28.80	29.81	01	CLR	NC		7.00			73	68	70	84	10	24	28.92	29.93
04	OVC	011		1.50	BR		65	64	64	97	10	02	28.81	29.82	04	FEW	NC		9.00			72	66	68	82	9	22	28.90	29.91
07	OVC	015		2.00	-RA BR		60	58	59	93	9	01	28.88	29.90	07	BKN	080		7.00			72	68	69	87	6	31	28.93	29.94
10	OVC	015		5.00	BR		60	56	58	86	7	01	28.93	29.96	10	BKN	080		10.00			81	73	75	77	15	23	28.91	29.92
13	OVC	030		7.00			61	54	57	78	8	02	28.98	30.01	13	SCT	NC		10.00			84	74	77	72	9	25	28.90	29.91
16	BKN	041		10.00			65	50	57	59	7	01	28.99	30.02	16	SCT	NC		10.00			88	75	79	66	13	23	28.87	29.87
19	FEW	NC		10.00			64	48	55	56	6	36	29.02	30.06	19	CLR	NC		10.00			83	74	77	74	14	23	28.83	29.83
22	CLR	NC		10.00			57	48	52	72	5	03	29.08	30.12	22	SCT	NC		9.00			78	73	75	85	8	22	28.85	29.85

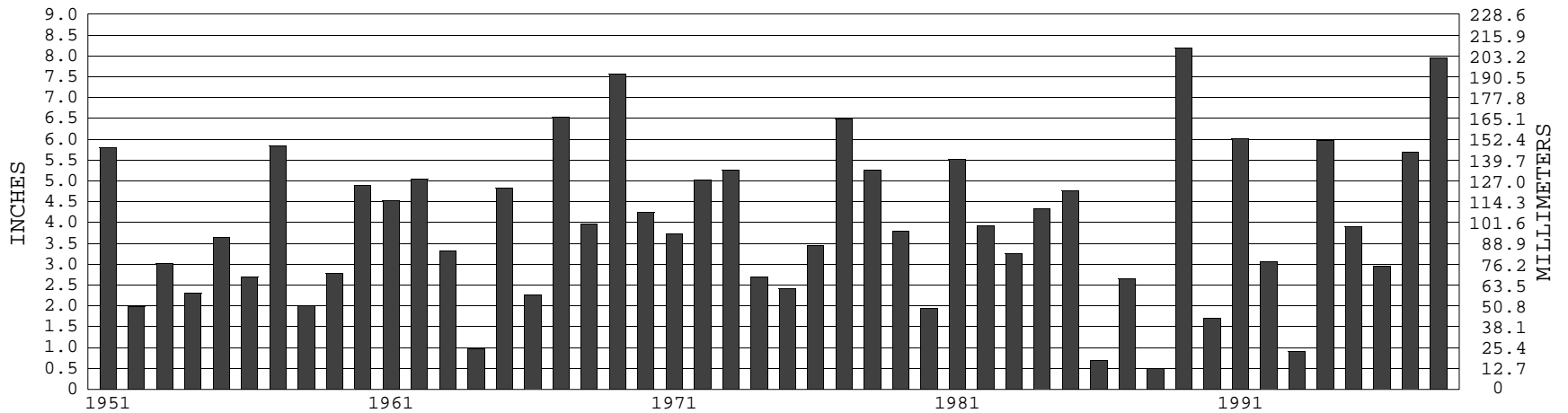
KNOXVILLE, TN JUNE TEMPERATURES



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

Long-Term (1951-1998) Mean: 74.5 1961-1990 Normal: 73.2

KNOXVILLE, TN JUNE PRECIPITATION



Long-Term (1951-1998) Mean Monthly Total: 3.97

1961-1990 Normal: 3.97



**JUNE 1998
KNOXVILLE, TN**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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

DIRECTOR

NOTICE

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

We welcome your questions or comments, please contact us at
704-271-4800 (voice), 704-271-4876 (fax),
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