



MAY 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

MAY 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	68	52	60	-1	55	57	5	0	TS TSRA RA BR	0		0.0	0.38	28.68	29.70	8.7	26	9.3	36	26	31	25	01	
02	73	52	63	1	54	57	2	0	RA BR	0		0.0	0.09	28.69	29.72	8.6	24	9.1	29	24	24	25	02	
03	71	52	62	0	55	57	3	0	TS TSRA TSRAGS TSRAGR RA	0		T	0.70	28.69	29.71	6.6	23	8.2	31	23	25	21	03	
04	63	48	56*	-6	51	53	9	0	TS RA FG+ BR	0		0.0	0.08	28.72	29.75	3.5	25	4.8	24	01	18	35	04	
05	71	45*	58	-5	49	53	7	0	FG+ BR	0		0.0	0.00	28.86	29.89	0.4	07	1.6	11	01	7	07	05	
06	74	49	62	-1	55	58	3	0	TSRA RA BR	0		0.0	0.27	28.87	29.89	2.1	04	3.8	23	26	20	26	06	
07	79	59	69	6	62	64	0	4	TS TSRA TSRAGS RA FG BR	0		T	0.78	28.64	29.65	6.5	22	11.0	44*	21	37*	22	07	
08	69	59	64	1	58	60	1	0	RA BR	0		0.0	T	28.61	29.62	11.2	25	11.5	25	25	22	25	08	
09	75	58	67	4	59	62	0	2	BR HZ	0		0.0	0.00	28.74	29.76	1.2	24	4.5	16	05	14	05	09	
10	70	61	66	2	61	62	0	1	TSRA RA BR	0		0.0	0.41	28.61	29.63	6.6	03	7.6	20	02	15	02	10	
11	76	56	66	2	55	60	0	1	RA BR	0		0.0	T	28.74	29.76	4.6	02	5.3	18	02	15	02	11	
12	79	51	65	1	54	59	0	0	BR	0		0.0	0.00	28.85	29.87	1.4	23	2.5	11	20	9	29	12	
13	85	55	70	5	62	65	0	5	BR HZ	0		0.0	0.00	28.96	29.98	2.4	23	3.6	15	22	11	22	13	
14	87	64	76	11	66	70	0	11	BR HZ	0		0.0	0.00	29.02	30.03	1.7	24	3.3	11	29	11	24	14	
15	89	64	77	12	66	70	0	12	BR HZ	0		0.0	0.00	29.03	30.04	1.6	25	2.9	10	28	9	28	15	
16	83	69	76	11	68	71	0	11	BR HZ	0		0.0	0.00	29.01	30.02	3.8	25	4.5	13	02	10	02	16	
17	85	68	77	12	58	65	0	12	BR HZ	0		0.0	0.00	29.05	30.06	6.2	03	6.7	22	04	18	03	17	
18	86	57	72	6	54	62	0	7		0		0.0	0.00	29.06	30.08	4.6	06	4.8	20	04	13	03	18	
19	88	56	72	6	57	63	0	7	BR	0		0.0	0.00	29.05	30.07	3.7	25	5.3	16	24	15	25	19	
20	89*	66	78	12	63	68	0	13	HZ	0		0.0	0.00	28.97	29.98	6.4	25	7.6	20	24	16	27	20	
21	88	68	78	11	67	70	0	13	TS TSRA RA BR HZ	0		0.0	0.13	28.88	29.89	6.9	26	8.7	26	03	25	03	21	
22	83	65	74	7	66	69	0	9	RA BR	0		0.0	T	28.87	29.88	2.8	26	5.2	16	01	14	01	22	
23	83	69	76	9	67	70	0	11	BR HZ	0		0.0	0.00	28.87	29.88	2.0	04	5.4	29	05	25	06	23	
24	87	70	79	11	68	71	0	14	BR HZ	0		0.0	0.00	28.91	29.92	11.2	23	11.5	25	23	21	24	24	
25	87	69	78	10	68	71	0	13	RA BR HZ	0		0.0	0.01	28.92	29.93	6.3	24	7.3	30	29	21	28	25	
26	84	65	75	7	65	68	0	10	TS RA HZ	0		0.0	0.03	28.92	29.93	1.2	33	6.2	21	02	17	36	26	
27	81	67	74	6	66	69	0	9	TSRA RA BR	0		0.0	0.96	28.97	29.98	2.5	27	4.5	24	24	20	23	27	
28	86	64	75	6	66	70	0	10	BR HZ	0		0.0	0.00	29.00	30.02	1.4	34	2.3	15	27	9	30	28	
29	88	65	77	8	66	70	0	12	BR HZ	0		0.0	0.00	28.98	29.99	2.2	27	3.0	13	27	10	25	29	
30	87	71	79*	10	67	70	0	14	BR HZ	0		0.0	0.00	28.95	29.96	4.9	24	5.9	16	25	14	25	30	
31	85	67	76	6	67	71	0	11	TS BR HZ	0		0.0	0.00	28.85	29.86	10.7	24	11.3	24	22	18	22	31	
MONTHLY AVERAGES										TOTALS-->		T	3.84	28.87	29.89	1.7	25	6.1	-- MONTHLY AVERAGES					
DEPARTURE FROM NORMAL													-.29	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.05 DATE :06-07				SEA LEVEL PRESSURE DATE TIME										
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: T DATE :07+				MAXIMUM : 30.14 19 0940										
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: 0 DATE :				MINIMUM : 29.51 07 1702										
HEATING: 30 -64 3619 -318										NUMBER OF DAYS WITH =>		MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH : 11								
COOLING: 212 106 244 129												MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 7								
												THUNDERSTORMS : 10		HEAVY FOG : 2		SNOWFALL ≥ 1.0 INCH : 0								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

MAY 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	0.01	0.30	0.03										01		T		0.01								01	0.36	0.38		
02	0.02	T	0.02	T		0.04						T	02												02		0.09		
03							T	0.05		T		T	03			0.01	0.01				0.63				03		0.70		
04						0.01						T	04	T	0.04	0.01	T	0.01							04		0.08		
05													05												05		0.00		
06					T	T							06				T	T	T	0.18	0.07	0.02			06		0.27		
07							0.28	0.08	0.16	0.07			07			0.03	0.11	0.01	0.04						07		0.78		
08													08		T		T					T			08		T		
09													09												09		0.00		
10			0.02	T	T	T	T	0.03	T	0.02	0.26		10				0.07	T				T	0.01	10	0.41				
11	T	T											11												11		T		
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		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21				0.02	0.01	0.02			0.07		21	0.12		0.13		
22	T												22											22	T				
23													23												23		0.00		
24													24												24		0.00		
25													25									0.01		25	0.01				
26	0.03												26											26	0.03				
27			0.08	0.37	0.34	0.17	T	T					27											27	0.96				
28													28											28	0.00				
29													29											29	0.00				
30													30											30	0.00				
31													31											31	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	
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 MAY 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	515						4.00	10.00	
02	465						5.00	10.00	
03	446						5.00	10.00	
04	341	41					<.25	10.00	
05	657	80					<.25	10.00	
06	593	72					3.00	10.00	
07	417	50					.50	10.00	
08	385	46					5.00	10.00	
09	635						3.00	10.00	
10	335						2.50	10.00	
11	700						4.00	10.00	
12	709						7.00	10.00	
13	707	84					5.00	10.00	
14	647	77					3.00	8.00	
15	642	76					1.75	7.00	
16	514						2.50	6.00	
17	676						5.00	10.00	
18	728						10.00	10.00	
19	726	86					7.00	10.00	
20	677	80					5.00	10.00	
21	546	64					3.00	8.00	
22	620	73					6.00	10.00	
23	540						3.00	10.00	
24	627						5.00	10.00	
25	625						2.50	10.00	
26	425						6.00	10.00	
27	630	73					3.00	10.00	
28	705	82					1.00	10.00	
29	652	76					1.25	10.00	
30	621	72					4.00	10.00	
31	712	82					6.00	10.00	
MONTHLY AVGS							3.85	9.65	
SUNSHINE (MINUTES)									
Total: 18218 Possible: 26143 Percent Possible: 70									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 2 15 3									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 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	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: 0544				MAY 01				SUNSET: 1922				SUNRISE: 0538				MAY 07				SUNSET: 1927							
01	OVC	004		4.00	-RA BR	61	61	61	100	8	30	28.73	29.75	01	BKN	060		4.00	BR	60	59	59	96	5	07	28.80	29.82
04	OVC	036		10.00		59	58	58	96	3	34	28.69	29.71	04	OVC	060		3.00	BR	60	59	59	96	6	05	28.73	29.75
07	OVC	009		4.00	BR	59	58	58	96	7	24	28.69	29.71	07	OVC	025		0.50	-TSRA FG	60	60	60	100	13	08	28.73	29.75
10	OVC	037		10.00		61	57	59	87	9	29	28.70	29.72	10	SCT	NC		7.00		66	62	64	87	10	13	28.65	29.67
13	SCT	NC		10.00		67	52	58	59	22	27	28.66	29.67	13	SCT	NC		10.00		77	64	69	64	30	22	28.56	29.57
16	OVC	046		7.00	-RA	57	53	55	87	26	25	28.64	29.67	16	BKN	045		7.00		75	66	69	74	14	25	28.55	29.56
19	BKN	110		10.00		58	51	54	78	8	21	28.66	29.68	19	SCT	NC		10.00		70	61	64	73	10	22	28.56	29.57
22	OVC	055		10.00		54	51	52	90	7	23	28.69	29.71	22	SCT	NC		6.00	BR	65	62	63	90	8	24	28.58	29.59
SUNRISE: 0543				MAY 02				SUNSET: 1923				SUNRISE: 0537				MAY 08				SUNSET: 1928							
01	OVC	055		9.00		54	53	53	97	6	25	28.68	29.70	01	FEW	NC		6.00	BR	65	61	63	87	9	26	28.56	29.57
04	OVC	050		5.00	BR	53	53	53	100	7	22	28.65	29.68	04	FEW	NC		7.00		63	60	61	90	8	24	28.53	29.54
07	OVC	050		5.00	BR	55	53	54	93	12	23	28.69	29.72	07	SCT	NC		7.00		63	60	61	90	10	25	28.57	29.59
10	OVC	020		6.00	-RA BR	58	55	56	90	15	23	28.70	29.73	10	BKN	039		10.00		67	56	60	68	21	24	28.57	29.59
13	BKN	036		10.00		66	56	60	70	14	28	28.73	29.75	13	OVC	043		10.00		67	55	60	66	17	27	28.60	29.61
16	SCT	NC		10.00		72	54	61	53	13	24	28.67	29.69	16	OVC	032		10.00		65	56	60	73	15	26	28.62	29.64
19	SCT	NC		10.00		66	52	58	61	12	26	28.68	29.70	19	OVC	028		8.00		64	57	60	78	9	25	28.67	29.68
22	FEW	NC		10.00		60	54	57	80	7	24	28.72	29.74	22	OVC	055		7.00		62	58	60	86	6	26	28.71	29.72
SUNRISE: 0542				MAY 03				SUNSET: 1924				SUNRISE: 0536				MAY 09				SUNSET: 1929							
01	SCT	NC		10.00		58	52	55	81	7	28	28.72	29.74	01	OVC	060		6.00	BR	62	58	60	86	7	29	28.71	29.72
04	SCT	NC		10.00		55	53	54	93	0	00	28.72	29.73	04	FEW	NC		4.00	BR	59	57	58	93	3	23	28.72	29.74
07	OVC	085		5.00	TS BR	57	56	56	96	0	00	28.71	29.73	07	CLR	NC		3.00	BR	60	58	59	93	3	20	28.78	29.80
10	SCT	NC		10.00		63	57	59	81	10	21	28.72	29.74	10	CLR	NC		6.00	HZ	68	60	63	76	6	24	28.81	29.82
13	SCT	NC		10.00		69	57	62	66	20	21	28.69	29.70	13	BKN	047		9.00		72	59	64	64	6	04	28.77	29.79
16	BKN	035		9.00	-RA	64	57	60	78	17	23	28.64	29.66	16	BKN	047		9.00		75	58	65	55	5	33	28.73	29.75
19	BKN	030		10.00	TS	61	49	54	65	15	34	28.62	29.65	19	SCT	NC		8.00		70	61	64	73	9	04	28.72	29.74
22	BKN	070		10.00		55	53	54	93	0	00	28.71	29.73	22	CLR	NC		8.00		64	59	61	84	5	23	28.72	29.74
SUNRISE: 0541				MAY 04				SUNSET: 1924				SUNRISE: 0535				MAY 10				SUNSET: 1929							
01	FEW	NC		3.00	BR	53	53	53	100	0	00	28.71	29.73	01	OVC	120		7.00		63	59	61	87	7	02	28.64	29.65
04	OVC	001		0.25	FG	51	51	51	100	0	00	28.67	29.70	04	OVC	065		5.00	BR	62	59	60	90	9	36	28.60	29.61
07	SCT	NC		7.00		51	51	51	100	7	20	28.70	29.72	07	OVC	048		4.00	BR	61	59	60	93	7	01	28.59	29.61
10	BKN	065		10.00		57	50	53	78	8	27	28.71	29.74	10	OVC	008		2.50	-TSRA BR	63	61	62	93	10	33	28.61	29.63
13	OVC	047		10.00		60	54	57	80	6	29	28.70	29.73	13	OVC	013		10.00		66	62	64	87	10	04	28.58	29.60
16	BKN	100		10.00	TS	62	53	57	73	12	28	28.71	29.73	16	OVC	028		9.00		67	61	63	81	10	03	28.58	29.59
19	BKN	090		9.00		55	53	54	93	5	15	28.75	29.78	19	BKN	024		6.00	BR	65	62	63	90	0	00	28.63	29.65
22	BKN	080		5.00	BR	53	52	52	96	0	00	28.78	29.81	22	OVC	080		10.00		64	59	61	84	3	35	28.68	29.69
SUNRISE: 0540				MAY 05				SUNSET: 1925				SUNRISE: 0534				MAY 11				SUNSET: 1930							
01	VV	001		< .25	FG	47	47	47	100	0	00	28.79	29.82	01	OVC	065		6.00	-RA BR	62	60	61	93	7	01	28.68	29.69
04	VV	002		< .25	FG	46	46	46	100	0	00	28.81	29.84	04	OVC	080		7.00		60	58	59	93	0	00	28.68	29.70
07	VV	001		< .25	FG	47	47	47	100	0	00	28.85	29.88	07	CLR	NC		4.00	BR	60	58	59	93	3	VR	28.74	29.76
10	SCT	NC		10.00		58	53	55	84	0	00	28.89	29.93	10	BKN	030		10.00		67	58	62	73	9	01	28.77	29.78
13	BKN	050		10.00		67	48	57	51	6	35	28.89	29.93	13	SCT	NC		10.00		71	56	62	59	6	31	28.75	29.76
16	SCT	NC		10.00		69	49	58	49	0	00	28.87	29.90	16	SCT	NC		10.00		74	55	63	52	8	05	28.73	29.75
19	SCT	NC		10.00		65	52	58	63	5	09	28.85	29.88	19	CLR	NC		10.00		71	50	59	47	7	02	28.74	29.75
22	CLR	NC		9.00		57	52	54	83	3	08	28.89	29.92	22	CLR	NC		10.00		61	52	56	72	3	05	28.79	29.80
SUNRISE: 0539				MAY 06				SUNSET: 1926				SUNRISE: 0533				MAY 12				SUNSET: 1931							
01	FEW	NC		5.00	BR	51	50	51	96	5	06	28.89	29.92	01	CLR	NC		7.00		56	54	55	93	0	00	28.79	29.81
04	SCT	NC		3.00	BR	50	49	49	96	3	02	28.88	29.91	04	CLR	NC		7.00		53	51	52	93	0	00	28.80	29.82
07	FEW	NC		7.00		53	50	51	89	0	00	28.91	29.94	07	CLR	NC		7.00		55	53	54	93	0	00	28.84	29.86
10	SCT	NC		10.00		64	53	58	68	0	00	28.90	29.93	10	CLR	NC		10.00		67	56	60	68	0	00	28.87	29.89
13	BKN	120		10.00		71	56	62	59	5	VR	28.87	29.91	13	FEW	NC		9.00		75	54	62	48	9	26	28.87	29.90
16	CLR	NC		10.00		74	58	64	57	0	00	28.82	29.84	16	FEW	NC		10.00		78	55	64	45	5	VR	28.84	29.86
19	OVC	075		9.00	-RA	70	58	63	66	6	01	28.81	29.83	19	CLR	NC		10.00		73	57	63	57	7	23	28.86	29.87
22	OVC	046		3.00	BR	62	61	61	96	7	07	28.84	29.86	22	CLR	NC		10.00		68	56	61	66	3	15	28.87	29.90

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

MAY 1998

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	DRY BULB	DEW POINT		WET BULB	OBSERVATION TIME (LST)			EFF CLD AMT Okta	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	DRY BULB		DEW POINT	WET BULB			OBSERVATION TIME (LST)	EFF CLD AMT Okta	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG
SUNRISE: 0532								MAY 13								SUNSET: 1932															
01	CLR	NC				8.00		61	56	58	84	0	00	28.89	29.92	01	CLR	NC				10.00		61	55	58	81	0	00	29.04	30.06
04	CLR	NC				5.00	BR	57	56	56	96	0	00	28.93	29.95	04	CLR	NC				8.00		57	55	56	93	0	00	29.06	30.09
07	CLR	NC				7.00		59	56	57	90	0	00	28.99	30.01	07	CLR	NC				7.00		60	56	58	86	5	01	29.11	30.13
10	SCT	NC				8.00		70	59	63	68	5	05	29.01	30.03	10	CLR	NC				10.00		76	58	65	54	0	00	29.11	30.13
13	CLR	NC				9.00		80	64	70	58	5	VR	28.98	30.00	13	CLR	NC				10.00		85	60	69	43	6	VR	29.07	30.09
16	FEW	NC				8.00		84	66	72	55	10	22	28.94	29.96	16	FEW	NC				10.00		87	57	68	36	10	26	29.02	30.04
19	SCT	NC				8.00		79	67	71	67	7	22	28.94	29.96	19	FEW	NC				10.00		79	60	67	52	8	23	28.97	30.00
22	CLR	NC				8.00		76	65	69	69	5	25	28.99	30.01	22	CLR	NC				10.00		71	58	63	63	7	22	29.00	30.01
SUNRISE: 0532								MAY 14								SUNSET: 1933															
01	FEW	NC				7.00		71	65	67	81	12	24	28.96	29.98	01	CLR	NC				10.00		71	58	63	63	8	29	29.03	30.04
04	CLR	NC				7.00		68	63	65	84	6	21	29.00	30.01	04	CLR	NC				8.00		66	60	62	81	6	22	29.00	30.01
07	SCT	NC				5.00	BR	68	65	66	90	0	00	29.05	30.06	07	CLR	NC				6.00	HZ	69	62	65	78	3	03	29.02	30.03
10	CLR	NC				6.00	HZ	79	67	71	67	5	VR	29.06	30.08	10	CLR	NC				5.00	HZ	80	66	71	62	8	24	29.02	30.03
13	SCT	NC				7.00		85	68	73	57	3	VR	29.03	30.05	13	CLR	NC				7.00		86	67	73	53	12	22	28.98	29.99
16	CLR	NC				7.00		87	65	72	48	6	23	28.99	30.01	16	FEW	NC				10.00		88	63	71	43	9	28	28.92	29.93
19	FEW	NC				7.00		83	67	72	59	0	00	28.99	30.01	19	FEW	NC				10.00		84	62	70	48	7	27	28.91	29.92
22	FEW	NC				4.00	HZ	76	69	71	79	0	00	29.03	30.04	22	CLR	NC				10.00		74	63	67	69	7	23	28.93	29.94
SUNRISE: 0531								MAY 15								SUNSET: 1934															
01	FEW	NC				4.00	BR	71	67	68	87	0	00	29.03	30.04	01	CLR	NC				8.00		71	64	67	79	9	23	28.91	29.92
04	FEW	NC				3.00	BR	68	65	66	90	0	00	29.02	30.04	04	CLR	NC				8.00		69	63	65	81	8	22	28.90	29.91
07	FEW	NC				2.00	BR	68	66	67	93	5	08	29.06	30.08	07	SCT	NC				6.00	HZ	72	64	67	76	9	24	28.91	29.93
10	CLR	NC				4.00	HZ	78	68	71	71	6	08	29.05	30.07	10	CLR	NC				5.00	HZ	80	68	72	67	8	28	28.90	29.91
13	FEW	NC				5.00	HZ	85	67	73	55	0	00	29.04	30.05	13	SCT	NC				5.00	HZ	85	69	74	59	9	25	28.87	29.88
16	FEW	NC				7.00		88	64	72	45	7	28	29.00	30.01	16	SCT	NC				5.00	TS HZ	85	70	75	61	12	27	28.82	29.82
19	CLR	NC				6.00	HZ	83	68	73	61	6	27	28.98	30.00	19	BKN	024				3.00	-TSRA BR	72	69	70	91	14	01	28.85	29.86
22	CLR	NC				6.00	HZ	74	67	69	79	6	21	29.01	30.02	22	BKN	060				3.00	TS BR	71	69	70	94	6	29	28.86	29.86
SUNRISE: 0530								MAY 16								SUNSET: 1934															
01	CLR	NC				6.00	HZ	73	66	68	79	6	25	29.00	30.01	01	SCT	NC				9.00		69	65	66	87	0	00	28.86	29.86
04	OVC	080				6.00	HZ	72	65	67	79	7	26	29.00	30.01	04	SCT	NC				10.00		66	64	65	93	8	26	28.84	29.85
07	SCT	NC				3.00	BR HZ	70	66	67	87	6	24	29.04	30.05	07	FEW	NC				7.00		68	65	66	90	0	00	28.87	29.88
10	FEW	NC				4.00	HZ	77	68	71	74	5	26	29.04	30.06	10	SCT	NC				10.00		75	67	70	76	8	26	28.91	29.93
13	SCT	NC				4.00	HZ	82	68	73	63	0	00	28.99	30.01	13	SCT	NC				10.00		78	68	71	71	9	32	28.92	29.93
16	SCT	NC				3.00	HZ	82	69	73	65	8	28	28.99	30.01	16	FEW	NC				10.00		82	66	71	58	9	24	28.85	29.85
19	SCT	NC				2.50	HZ	79	70	73	74	6	24	28.99	30.00	19	SCT	NC				10.00		79	67	71	67	0	00	28.84	29.85
22	FEW	NC				2.50	BR	74	70	71	88	0	00	29.01	30.02	22	FEW	NC				10.00		75	66	69	74	0	00	28.85	29.85
SUNRISE: 0529								MAY 17								SUNSET: 1935															
01	BKN	065				5.00	HZ	73	67	69	81	0	00	29.02	30.03	01	SCT	NC				7.00		71	67	68	87	0	00	28.83	29.84
04	OVC	065				6.00	HZ	72	64	67	76	0	00	29.04	30.05	04	SCT	NC				5.00	BR	70	67	68	90	0	00	28.83	29.83
07	BKN	075				8.00		70	61	64	73	8	01	29.07	30.09	07	SCT	NC				5.00	BR	72	68	69	87	7	32	28.90	29.91
10	FEW	NC				10.00		78	57	65	48	14	03	29.10	30.11	10	CLR	NC				4.00	HZ	79	70	73	74	10	23	28.90	29.91
13	FEW	NC				10.00		83	58	67	43	9	04	29.07	30.09	13	FEW	NC				5.00	HZ	83	69	73	63	10	07	28.89	29.91
16	FEW	NC				10.00		84	56	67	38	6	05	29.02	30.03	16	CLR	NC				10.00		79	65	70	62	5	06	28.87	29.89
19	CLR	NC				10.00		81	54	65	39	7	01	29.01	30.03	19	CLR	NC				5.00	HZ	79	70	73	74	3	36	28.84	29.84
22	CLR	NC				10.00		74	52	61	46	6	03	29.04	30.06	22	FEW	NC				10.00		74	65	68	74	6	02	28.88	29.89
SUNRISE: 0529								MAY 18								SUNSET: 1936															
01	CLR	NC				10.00		64	56	59	75	3	08	29.05	30.07	01	BKN	055				10.00		73	66	68	79	5	21	28.89	29.90
04	CLR	NC				10.00		59	56	57	90	5	04	29.06	30.08	04	FEW	NC				5.00	BR	72	68	69	87	9	21	28.88	29.90
07	CLR	NC				10.00		64	57	60	78	7	03	29.10	30.12	07	SCT	NC				6.00	HZ	74	67	69	79	9	25	28.91	29.93
10	FEW	NC				10.00		78	56	65	47	12	05	29.10	30.12	10	SCT	NC				6.00	HZ	81	69	73	67	14	21	28.93	29.95
13	FEW	NC				10.00		82	53	65	37	6	09	29.08	30.10	13	BKN	047				6.00	HZ	84	67	73	57	14	24	28.91	29.92
16	FEW	NC				10.00		84	48	63	29	5	06	29.03	30.05	16	FEW	NC				6.00	HZ	84	69	74	61	17	22	28.87	29.89
19	CLR	NC				10.00		79	54	64	42	5	10	29.02	30.04	19	CLR	NC				6.00	HZ	80	69	73	69	17	24	28.89	29.90
22	CLR	NC				10.00		70	54	61	57	0	00	29.04	30.06	22	OVC	043				6.00	HZ	76	69	71	79	12	23	28.94	29.95

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

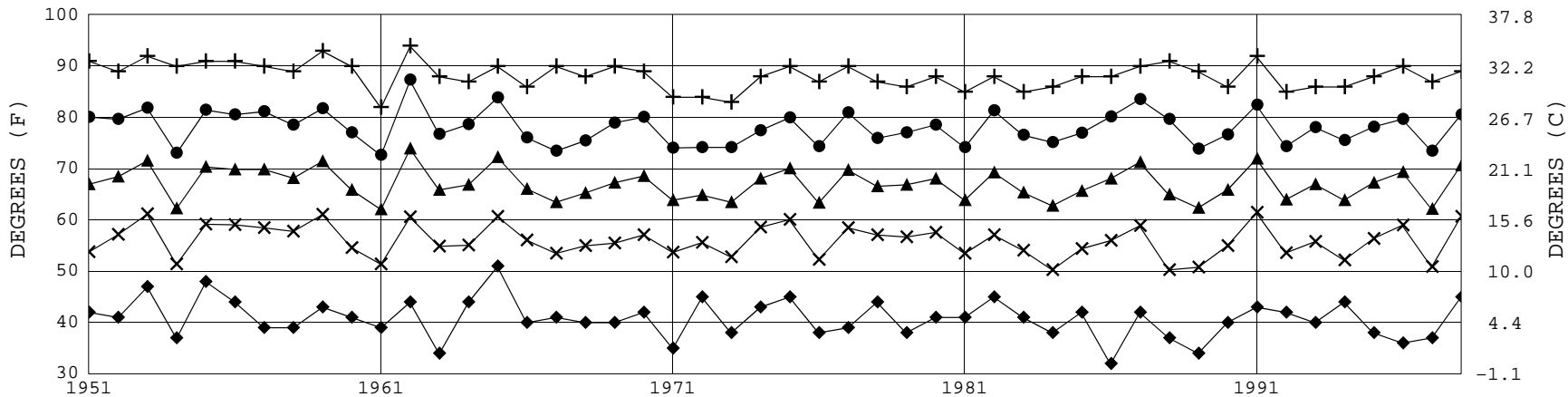
MAY 1998

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE ° F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		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: 0524								MAY 25								SUNSET: 1941								SUNRISE: 0522								MAY 31								SUNSET: 1945							
01	CLR	NC				4.00	BR	72	69	70	91	8	24	28.94	29.96	01	CLR	NC				10.00				73	65	68	76	12	26	28.90	29.91														
04	CLR	NC				4.00	BR	70	68	69	93	10	21	28.92	29.93	04	CLR	NC				9.00				71	64	67	79	8	25	28.88	29.90														
07	CLR	NC				2.50	BR	71	68	69	90	5	26	28.96	29.98	07	CLR	NC				6.00	HZ			71	66	68	84	8	26	28.91	29.92														
10	SCT	NC				4.00	HZ	79	69	72	72	6	30	28.95	29.97	10	BKN	026				8.00				78	67	71	69	15	25	28.90	29.92														
13	SCT	NC				5.00	HZ	82	67	72	60	6	VR	28.95	29.97	13	BKN	030				8.00				81	69	73	67	10	28	28.89	29.90														
16	SCT	NC				6.00	HZ	86	65	72	50	13	21	28.87	29.87	16	CLR	NC				8.00				84	69	74	61	15	23	28.83	29.83														
19	CLR	NC				6.00	HZ	81	68	72	65	9	23	28.86	29.86	19	SCT	NC				10.00				81	68	72	65	12	24	28.80	29.80														
22	FEW	NC				6.00	HZ	76	68	71	77	9	24	28.89	29.90	22	OVC	120				10.00				78	68	71	71	6	26	28.78	29.78														
SUNRISE: 0524								MAY 26								SUNSET: 1942								3-HOURLY OBSERVATION NOTES																							
01	OVC	038				10.00		69	64	66	84	9	18	28.92	29.93	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.																															
04	OVC	055				10.00		67	64	65	91	5	26	28.92	29.93	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																															
07	OVC	030				8.00		67	65	66	93	0	00	28.93	29.95	NC = No ceiling detected.																															
10	SCT	NC				7.00		76	67	70	74	5	26	28.93	29.94	& = Original observation contained additional weather elements.																															
13	SCT	NC				7.00		83	68	73	61	7	VR	28.92	29.93	See page 3 for additional notes.																															
16	SCT	NC				7.00	TS	81	69	73	67	8	35	28.89	29.91																																
19	FEW	NC				10.00		70	63	66	79	6	05	28.88	29.91																																
22	SCT	NC				10.00		69	64	66	84	5	05	28.92	29.93																																
SUNRISE: 0523								MAY 27								SUNSET: 1943								SUMMARY BY HOUR																							
01	BKN	110				9.00		68	65	66	90	3	31	28.91	29.92	AVERAGES																															
04	OVC	046				3.00	+TSRA	68	67	67	96	10	26	28.91	29.93	RESULTANT WIND (MPH)																															
07	OVC	048				7.00		68	66	67	93	5	24	28.98	30.00	HOUR (LST)																															
10	BKN	065				5.00	BR	73	69	70	87	9	29	29.01	30.03	CEILOMETER																															
13	BKN	050				10.00		77	67	70	71	5	29	29.00	30.02	EFF CLD AMT																															
16	BKN	037				10.00		81	65	70	58	6	VR	28.96	29.98	DRY BULB																															
19	FEW	NC				10.00		79	65	70	62	3	35	28.95	29.97	DEW POINT																															
22	CLR	NC				7.00		70	67	68	90	3	10	28.98	30.00	WET BULB																															
SUNRISE: 0523								MAY 28								SUNSET: 1943								PRESSURE (INCHES, HG)																							
01	FEW	NC				6.00	BR	70	67	68	90	0	00	28.99	30.00	STATION																															
04	FEW	NC				3.00	BR	66	64	65	93	0	00	28.99	30.01	SEA LEVEL																															
07	SCT	NC				1.00	BR	67	65	66	93	3	35	29.02	30.04	VISIBILITY (MILES)																															
10	SCT	NC				7.00		78	68	71	71	0	00	29.04	30.05	WIND SPEED (MPH)																															
13	SCT	NC				9.00		84	65	71	53	3	VR	29.03	30.05	SPEED																															
16	FEW	NC				8.00		86	64	71	48	5	28	28.99	30.00	DIRECTION																															
19	SCT	NC				7.00		83	67	72	59	3	36	28.97	29.99																																
22	CLR	NC				6.00	HZ	74	68	70	82	3	07	28.99	30.01																																
SUNRISE: 0522								MAY 29								SUNSET: 1944																															
01	SCT	NC				5.00	HZ	72	67	69	84	0	00	28.99	30.00																																
04	FEW	NC				4.00	BR	69	66	67	90	0	00	28.98	30.00																																
07	SCT	NC				1.50	BR	70	67	68	90	0	00	29.02	30.03																																
10	FEW	NC				4.00	HZ	79	70	73	74	3	VR	29.00	30.02																																
13	SCT	NC				10.00		86	61	70	43	0	00	28.98	29.99																																
16	SCT	NC				10.00		85	57	67	39	8	28	28.94	29.95																																
19	BKN	120				4.00	HZ	80	70	73	71	8	26	28.92	29.94																																
22	SCT	NC				7.00		75	68	70	79	5	24	28.97	29.98																																
SUNRISE: 0522								MAY 30								SUNSET: 1945																															
01	CLR	NC				7.00		74	67	69	79	3	28	28.96	29.97																																
04	OVC	110				6.00	BR	72	68	69	87	0	00	28.95	29.96																																
07	OVC	110				4.00	BR	71	68	69	90	6	22	28.99	30.01																																
10	SCT	NC				7.00		78	68	71	71	6	VR	28.99	30.01																																
13	CLR	NC				8.00		82	68	73	63	10	23	28.98	29.99																																
16	CLR	NC				10.00		86	61	70	43	3	VR	28.89	29.90																																
19	CLR	NC				10.00		82	64	70	55	8	25	28.91	29.92																																
22	CLR	NC				10.00		74	67	69	79	7	23	28.94	29.96																																

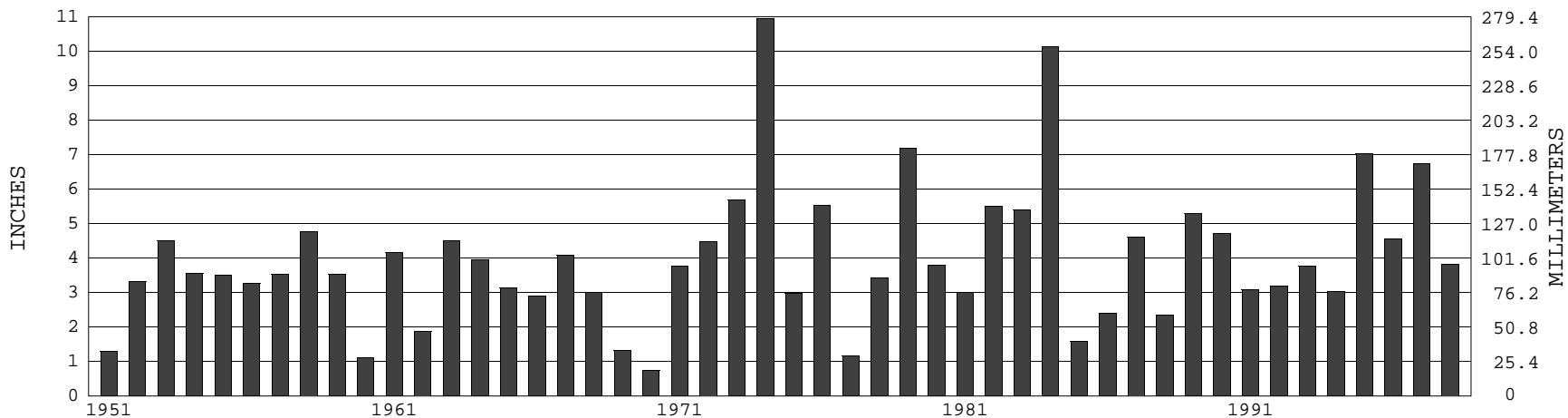
KNOXVILLE, TN MAY TEMPERATURES



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

Long-Term (1951-1998) Mean: 67.1 1961-1990 Normal: 65.4

KNOXVILLE, TN MAY PRECIPITATION



Long-Term (1951-1998) Mean Monthly Total: 3.99

1961-1990 Normal: 4.13



**MAY 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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