



DECEMBER 2000

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): 992 Feet
 Time Zone: EASTERN WBAN: 13891 ISSN #:0198-4810

DECEMBER 2000
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	25	
01	51	27	39	-5	28	35	26	0					0.00	29.15	30.23	2.3	01	3.8	15	29	10	29	01		
02	51	37	44	0	34	39	21	0	RA DZ BR				0.10	29.15	30.22	5.1	02	5.8	14	06	12	01	02		
03	38	32	35	-8	34	34	30	0	RA SN FG BR				0.31	29.31	30.40	2.5	32	4.9	14	01	10	36	03		
04	42	27	35	-8	31	32	30	0	BR				0.00	29.33	30.42	1.0	31	3.3	16	24	14	25	04		
05	41	27	34	-9	29	32	31	0	BR HZ				0.00	29.21	30.29	4.2	25	5.3	15	28	13	29	05		
06	35	26	31	-12	25	29	34	0	SN BR				T	29.10	30.18	2.0	31	4.3	13	25	10	33	06		
07	47	29	38	-4	28	34	27	0					0.00	28.99	30.06	9.1	23	9.2	21	24	17	24	07		
08	53	34	44	2	33	39	21	0					0.00	29.04	30.11	5.5	26	7.9	22	22	17	24	08		
09	52	30	41	-1	33	38	24	0	BR HZ				0.00	29.13	30.21	4.9	04	5.8	14	05	12	04	09		
10	48	40	44	3	40	43	21	0	RA BR HZ				0.01	29.10	30.17	1.3	05	2.4	13	31	10	33	10		
11	59	43	51	10	44	47	14	0	RA BR HZ				0.03	28.94	29.99	10.1	24	10.6	36	22	30	22	11		
12	54	25	40	-1	23	29	25	0	RA BR				0.03	29.23	30.30	7.1	34	10.9	40	24	30	24	12		
13	41	25	33	-8	23	30	32	0	TSRA RA BR				0.59	29.20	30.29	5.0	03	7.2	23	31	20	30	13		
14	47	37	42	2	41	41	23	0	RA DZ BR				0.15	29.22	30.29	4.5	27	7.3	18	25	16	25	14		
15	52	37	45	5	38	40	20	0	RA BR HZ				0.08	29.23	30.31	3.5	03	5.2	25	26	21	27	15		
16	66*	44	55*	15	50	51	10	0	TSRA RA BR				0.96	28.79	29.84	4.4	22	12.0	40*	27	32	26	16		
17	52	17	35	-5	19	25	30	0	RA SN BR HZ				0.03	28.95	30.02	15.2	26	15.8	39	24	36*	24	17		
18	38	16	27	-12	18	24	38	0	RA SN BR HZ				0.09	29.04	30.14	1.3	24	4.6	16	22	14	23	18		
19	34	15	25	-14	18	23	40	0	RA SN FG+ BR HZ				0.06	28.93	30.02	11.0	28	12.2	23	29	20	28	19		
20	26	12*	19*	-20	11	17	46	0	SN				T	29.14	30.25	1.9	04	3.3	17	29	13	30	20		
21	32	18	25	-14	23	25	40	0	SN FZFG BR HZ				0.01	29.12	30.21	3.6	24	4.7	17	23	15	23	21		
22	30	16	23	-16	8	18	42	0	SN BR				T	29.31	30.41	6.9	27	8.0	25	30	18	28	22		
23	35	14	25	-13	12	21	40	0					0.00	29.35	30.46	2.7	05	4.5	16	05	14	04	23		
24	46	28	37	-1	18	30	28	0					0.00	29.31	30.40	3.3	27	5.8	21	28	15	25	24		
25	32	18	25	-13	10	21	40	0					0.00	29.47	30.58	11.2	04	11.5	25	06	22	06	25		
26	35	24	30	-8	13	25	35	0					0.00	29.39	30.48	2.1	04	3.4	10	04	8	26	26		
27	38	31	35	-3	25	31	30	0	BR HZ				0.00	29.11	30.20	0.8	30	2.4	8	18	8	18	27		
28	36	25	31	-6	23	29	34	0	BR HZ				0.00	28.92	29.99	10.6	04	10.9	23	04	18	05	28		
29	39	19	29	-8	19	25	36	0	SN BR HZ				T	28.85	29.93	8.2	26	9.3	32	22	26	23	29		
30	25	17	21	-16	11	18	44	0	SN HZ				T	28.98	30.07	12.0	26	12.6	28	28	23	28	30		
31	28	15	22	-15	14	19	43	0	SN BR HZ				T	29.19	30.29	3.8	23	4.8	15	24	13	24	31		
42.0 26.0 34.0 ■■										25.0 30.5 30.8 0.0		< MONTHLY AVERAGES		TOTALS->		2.45 29.13 30.22		2.5 29 7.1		<- MONTHLY AVERAGES					
-8.1 -4.0 -6.1 ■■										<-----DEPARTURE FROM NORMAL----->				-2.09		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.02 DATE: 15-16				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL:				MAXIMUM				DATE		TIME					
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH:				MINIMUM				DATE		TIME					
HEATING: 955 183					1660 143					NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 24				PRECIPITATION ≥ 0.01 INCH: 13			
COOLING: 0 0					1492 226									MAXIMUM TEMP ≤ 32: 6				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 5			
														THUNDERSTORMS: 2				HEAVY FOG: 1				SNOWFALL ≥ 1.0 INCH: :			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

DECEMBER 2000 TYS WBAN # 13891

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	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				T	0.01	0.01	0.01	0.01	0.01	0.03	0.01	0.01	02			0.10
03	0.04	0.02	0.06	0.05	0.05	0.04	0.02	0.02	T	T	0.01		03												03			0.31	
04													04												04			0.00	
05													05												05			0.00	
06													06							T	T				06			T	
07													07												07			0.00	
08													08												08			0.00	
09													09												09			0.00	
10		T	T		0.01	T					T		10												10			0.01	
11													11											0.03	T	11		0.03	
12	0.03	T											12												12			0.03	
13													13							T	T	0.12	0.08	0.24	0.12	13	0.56	0.59	
14	0.12	0.01	T	T	T	0.01	0.02	0.02	T	T			14												14	0.18		0.15	
15													15										T	0.08	15			0.08	
16	0.02		T	T	0.10	0.04		T			0.01		16						0.07	0.13	0.50	0.06	0.01	0.02	16			0.96	
17			0.01	T	0.01	0.01	T	T			T		17		T	T	T								17			0.03	
18													18												18			0.09	
19	0.04	T	T	T	0.01	T	T	T	T	T	0.01	T	19	T	T	T									19			0.06	
20													20												20			T	
21													21	0.01	T										21			0.01	
22	T	T	T	T									22								T				22			T	
23													23												23			0.00	
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	T	T	29			T	
30	T	T	T	T									30	T	T	T	T								30			T	
31	T					T	T						31	T	T	T	T								31			T	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.13	.21	.29	.33	.41	.45	.52	.59	.63	.66	.72	.76
Ending Date	16	16	16	16	16	16	16	16	16	16	16	16
Ending Time (Hour/Min)	2031	2031	2033	2037	2046	2102	2046	2053	2111	2119	2107	2133

Date and time are not entered for TRACE amounts.

Note : 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	PL 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 DECEMBER 2000

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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							7.00	10.00	
02							2.50	10.00	
03							.50	4.00	
04							2.50	10.00	
05							3.00	10.00	
06							5.00	10.00	
07							7.00	10.00	
08							7.00	10.00	
09							4.00	10.00	
10							3.00	6.00	
11							1.75	8.00	
12							3.00	10.00	
13							1.50	10.00	
14							1.25	10.00	
15							4.00	10.00	
16							1.00	10.00	
17							.75	10.00	
18							.75	8.00	
19							.25	10.00	
20							6.00	10.00	
21							.50	8.00	
22							6.00	10.00	
23							8.00	10.00	
24							8.00	10.00	
25							10.00	10.00	
26							8.00	10.00	
27							6.00	10.00	
28							6.00	10.00	
29							5.00	10.00	
30							2.00	10.00	
31							2.50	10.00	
MONTHLY AVGS							4.31	9.48	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 31									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 0 14 7									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

DECEMBER 2000

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)							
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION			SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0738					DEC 13					SUNSET: 1723					SUNRISE: 0741					DEC 19					SUNSET: 1725				
01	BKN	120		10.00		26	18	23	71	8	05	29.35	30.44	01	OVC	005		3.00	-SN BR	33	32	33	96	10	22	28.87	29.95		
04	CLR	NC		10.00		27	17	24	66	8	05	29.32	30.41	04	OVC	012		2.50	-RA BR	33	32	33	96	12	25	28.84	29.91		
07	CLR	NC		10.00		26	18	23	71	9	05	29.30	30.40	07	OVC	032		6.00	BR	32	30	31	92	10	24	28.83	29.91		
10	SCT	NC		10.00		29	18	25	64	9	04	29.33	30.42	10	OVC	013		0.75	-SN BR	24	20	23	84	15	27	28.91	29.99		
13	OVC	070		10.00		36	21	31	55	5	02	29.24	30.33	13	OVC	025		7.00		24	14	21	65	16	29	28.90	29.98		
16	OVC	043		10.00		40	23	34	51	6	03	29.13	30.22	16	OVC	050		10.00		23	10	19	57	12	31	28.93	30.01		
19	OVC	046		9.00	-RA	40	27	35	60	0	00	28.99	30.06	19	CLR	NC		10.00		19	8	16	62	10	29	29.02	30.11		
22	OVC	008		3.00	-RA BR	36	36	36	100	6	32	28.99	30.06	22	SCT	NC		10.00		16	2	13	54	10	29	29.09	30.18		
SUNRISE: 0738					DEC 14					SUNSET: 1724					SUNRISE: 0742					DEC 20					SUNSET: 1726				
01	OVC	007		4.00	-RA BR	38	38	38	100	3	20	29.08	30.15	01	BKN	036		10.00		15	8	13	74	8	30	29.11	30.22		
04	OVC	005		3.00	DZ BR	40	40	40	100	5	23	29.07	30.14	04	BKN	030		8.00	-SN	14	8	13	77	5	23	29.13	30.24		
07	OVC	004		1.25	-RA BR	43	43	43	100	10	23	29.14	30.21	07	SCT	NC		7.00		13	10	12	88	0	00	29.16	30.27		
10	OVC	007		7.00		45	45	45	100	8	26	29.22	30.30	10	FEW	NC		9.00		16	9	14	74	7	04	29.20	30.32		
13	OVC	012		10.00		46	44	45	93	9	27	29.21	30.29	13	CLR	NC		10.00		21	12	18	68	6	05	29.17	30.28		
16	BKN	014		10.00		45	42	44	90	7	27	29.27	30.35	16	CLR	NC		10.00		26	13	22	57	3	VR	29.13	30.23		
19	OVC	028		10.00		41	37	39	86	6	28	29.32	30.40	19	CLR	NC		10.00		23	15	21	72	3	04	29.11	30.21		
22	OVC	016		9.00		38	35	37	89	7	02	29.34	30.42	22	CLR	NC		10.00		21	12	18	68	0	00	29.11	30.22		
SUNRISE: 0739					DEC 15					SUNSET: 1724					SUNRISE: 0742					DEC 21					SUNSET: 1726				
01	OVC	014		10.00		37	34	36	89	8	03	29.35	30.42	01	BKN	120		8.00		19	15	18	85	0	00	29.11	30.22		
04	OVC	014		9.00		37	34	36	89	5	02	29.34	30.42	04	OVC	080		5.00	BR	21	17	20	85	0	00	29.11	30.20		
07	OVC	014		8.00		37	34	36	89	7	03	29.33	30.41	07	OVC	035		4.00	-SN	23	18	21	81	0	00	29.11	30.21		
10	OVC	010		5.00	BR	40	37	39	89	5	36	29.33	30.41	10	OVC	036		4.00	HZ	25	20	23	81	0	00	29.15	30.25		
13	SCT	NC		5.00	HZ	45	38	42	77	0	00	29.23	30.31	13	OVC	015		1.25	BR	27	25	26	92	3	22	29.11	30.21		
16	FEW	NC		9.00		51	41	46	69	7	01	29.13	30.21	16	OVC	018		3.00	BR	31	28	30	89	3	24	29.08	30.16		
19	SCT	NC		10.00		46	40	43	79	3	32	29.11	30.18	19	OVC	014		6.00	HZ	31	26	29	82	13	22	29.12	30.21		
22	OVC	045		6.00	BR	44	41	43	89	8	08	29.10	30.17	22	OVC	032		6.00	BR	31	27	29	85	10	22	29.14	30.24		
SUNRISE: 0740					DEC 16					SUNSET: 1724					SUNRISE: 0743					DEC 22					SUNSET: 1727				
01	OVC	029		3.00	BR	44	44	44	100	7	14	29.12	30.19	01	OVC	025		6.00	-SN BR	30	26	29	85	12	24	29.12	30.21		
04	OVC	036		3.00	BR	44	44	44	100	7	01	29.03	30.09	04	OVC	025		10.00		24	16	22	71	13	29	29.18	30.27		
07	OVC	034		2.50	BR	44	44	44	100	7	05	28.95	30.01	07	BKN	032		10.00		17	7	15	64	14	29	29.26	30.36		
10	OVC	065		2.50	BR	45	45	45	100	6	06	28.93	29.99	10	FEW	NC		10.00		18	3	14	52	14	29	29.34	30.44		
13	BKN	095		8.00		58	54	56	87	6	03	28.76	29.80	13	CLR	NC		10.00		22	4	17	46	8	26	29.35	30.45		
16	FEW	NC		10.00		63	55	58	76	25	22	28.64	29.68	16	CLR	NC		10.00		26	4	20	38	6	22	29.33	30.43		
19	BKN	050		3.00	-TSRA	62	57	59	84	20	17	28.51	29.54	19	CLR	NC		10.00		24	3	19	40	0	00	29.37	30.48		
22	OVC	013		5.00	-RA BR	54	54	54	100	20	23	28.57	29.61	22	CLR	NC		10.00		20	7	17	57	0	00	29.40	30.51		
SUNRISE: 0740					DEC 17					SUNSET: 1725					SUNRISE: 0743					DEC 23					SUNSET: 1727				
01	OVC	050		10.00		49	44	47	83	21	25	28.58	29.62	01	CLR	NC		8.00		15	10	14	80	3	08	29.40	30.51		
04	OVC	047		10.00	-RA	40	36	38	86	21	26	28.63	29.67	04	CLR	NC		10.00		17	11	15	77	13	03	29.37	30.47		
07	OVC	040		10.00		30	24	28	79	23	28	28.76	29.80	07	CLR	NC		10.00		15	9	14	77	7	01	29.39	30.50		
10	OVC	031		4.00	-SN	23	14	20	68	18	27	28.99	30.05	10	CLR	NC		10.00		20	11	17	68	7	07	29.43	30.53		
13	BKN	035		8.00		23	12	20	63	21	25	29.06	30.13	13	CLR	NC		10.00		29	11	24	47	0	00	29.37	30.48		
16	BKN	034		7.00		23	11	20	60	10	25	29.10	30.17	16	CLR	NC		10.00		35	12	28	38	5	11	29.32	30.42		
19	CLR	NC		7.00		20	11	17	68	12	26	29.11	30.20	19	CLR	NC		10.00		30	14	25	51	6	14	29.29	30.40		
22	CLR	NC		6.00	HZ	19	11	17	71	7	26	29.17	30.28	22	OVC	070		8.00		29	18	25	64	5	16	29.30	30.40		
SUNRISE: 0741					DEC 18					SUNSET: 1725					SUNRISE: 0744					DEC 24					SUNSET: 1728				
01	CLR	NC		5.00	HZ	17	11	15	77	0	00	29.17	30.28	01	OVC	055		8.00		31	19	27	61	3	14	29.29	30.39		
04	CLR	NC		5.00	HZ	17	12	16	80	0	00	29.15	30.25	04	OVC	046		9.00		32	20	28	61	0	00	29.30	30.39		
07	CLR	NC		4.00	BR	16	12	15	84	5	27	29.14	30.25	07	OVC	055		10.00		32	18	27	56	0	00	29.31	30.40		
10	CLR	NC		7.00		21	11	18	65	9	02	29.12	30.22	10	SCT	NC		10.00		36	16	29	44	7	21	29.34	30.42		
13	CLR	NC		6.00	HZ	29	17	25	61	7	23	29.09	30.18	13	SCT	NC		10.00		43	19	34	38	12	25	29.29	30.37		
16	CLR	NC		7.00		37	19	31	48	5	27	28.95	30.04	16	CLR	NC		10.00		45	22	36	40	9	25	29.27	30.35		
19	OVC	080		7.00		35	21	30	57	10	29	28.91	30.00	19	CLR	NC		10.00		38	17	31	43	9	29	29.31	30.40		
22	OVC	035		4.00	-SN BR	33	30	32	89	8	22	28.93	30.02	22	CLR	NC		10.00		31	18	27	59	6	03	29.37	30.45		

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

DECEMBER 2000

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION			SEA LEVEL								
SUNRISE: 0744								DEC 25								SUNSET: 1729															
01	CLR	NC				10.00		26	14	22	60	10	02	29.41	30.50	01	BKN	025				10.00		20	14	18	78	9	24	29.10	30.19
04	CLR	NC				10.00		22	14	20	71	7	02	29.44	30.54	04	SCT	NC				10.00		17	12	16	80	8	22	29.11	30.22
07	CLR	NC				10.00		19	10	17	68	9	04	29.48	30.58	07	SCT	NC				10.00		17	12	16	80	7	22	29.15	30.26
10	CLR	NC				10.00		24	11	20	57	17	05	29.53	30.64	10	BKN	045				3.00	-SN	21	15	19	78	8	26	29.22	30.32
13	CLR	NC				10.00		30	9	24	41	14	05	29.49	30.60	13	OVC	032				8.00	-SN	25	14	22	63	7	20	29.21	30.32
16	CLR	NC				10.00		31	8	24	38	17	05	29.45	30.56	16	OVC	035				10.00		27	13	23	55	0	00	29.21	30.31
19	CLR	NC				10.00		26	9	21	48	8	05	29.47	30.58	19	CLR	NC				10.00		25	13	21	60	0	00	29.21	30.32
22	BKN	110				10.00		26	9	21	48	9	04	29.46	30.57	22	CLR	NC				6.00	HZ	19	12	17	74	0	00	29.24	30.34
SUNRISE: 0745								DEC 26								SUNSET: 1729															
01	BKN	100				10.00		25	10	21	53	7	06	29.46	30.57	01	BKN	100				10.00		25	10	21	53	7	06	29.46	30.57
04	OVC	090				10.00		26	10	21	51	5	06	29.45	30.55	04	OVC	090				10.00		25	10	21	53	5	06	29.44	30.55
07	OVC	090				10.00		25	10	21	53	5	06	29.44	30.55	07	SCT	NC				10.00		28	11	23	49	0	00	29.46	30.56
10	SCT	NC				10.00		28	11	23	49	0	00	29.46	30.56	10	SCT	NC				10.00		32	11	26	41	0	00	29.40	30.50
13	OVC	050				10.00		32	11	26	41	0	00	29.40	30.50	13	OVC	050				10.00		34	14	28	44	5	35	29.31	30.40
16	OVC	090				10.00		34	14	28	44	5	35	29.31	30.40	16	OVC	090				10.00		33	16	27	49	0	00	29.32	30.41
19	OVC	100				10.00		33	16	27	49	0	00	29.32	30.41	19	OVC	100				10.00		32	18	27	56	3	07	29.29	30.39
22	OVC	095				10.00		32	18	27	56	3	07	29.29	30.39	22	OVC	095				10.00		32	18	27	56	3	07	29.29	30.39
SUNRISE: 0745								DEC 27								SUNSET: 1730															
01	OVC	041				9.00		32	18	27	56	5	36	29.25	30.34	01	OVC	041				9.00		32	18	27	56	5	36	29.25	30.34
04	OVC	044				10.00		32	19	28	59	0	00	29.21	30.30	04	OVC	044				10.00		32	19	28	59	0	00	29.21	30.30
07	OVC	048				10.00		32	21	28	64	5	12	29.20	30.28	07	OVC	048				10.00		34	22	30	61	5	24	29.18	30.27
10	OVC	050				7.00		34	22	30	61	5	24	29.18	30.27	10	OVC	050				7.00		37	27	33	67	3	30	29.10	30.17
13	OVC	042				9.00		37	27	33	67	3	30	29.10	30.17	13	OVC	042				9.00		38	28	34	68	3	27	29.05	30.13
16	OVC	038				8.00		38	28	34	68	3	27	29.05	30.13	16	OVC	038				8.00		37	30	34	76	0	00	29.03	30.10
19	OVC	045				8.00		37	30	34	76	0	00	29.03	30.10	19	OVC	045				8.00		36	30	34	79	5	36	29.00	30.07
22	OVC	032				6.00	HZ	36	30	34	79	5	36	29.00	30.07	22	OVC	032				6.00	HZ	36	30	34	79	5	36	29.00	30.07
SUNRISE: 0745								DEC 28								SUNSET: 1731															
01	OVC	039				6.00	BR HZ	36	30	34	79	0	00	28.99	30.06	01	OVC	039				6.00	BR HZ	36	30	34	79	0	00	28.99	30.06
04	OVC	020				7.00		33	29	31	85	9	04	28.97	30.05	04	OVC	020				7.00		33	29	31	85	9	04	28.97	30.05
07	OVC	016				10.00		32	25	29	75	16	03	28.96	30.04	07	OVC	016				10.00		32	25	29	75	16	03	28.96	30.04
10	BKN	100				9.00		32	24	29	73	12	03	28.96	30.03	10	BKN	100				9.00		35	24	31	64	16	04	28.89	29.96
13	SCT	NC				10.00		35	24	31	64	16	04	28.89	29.96	13	SCT	NC				10.00		35	16	29	46	16	05	28.82	29.89
16	FEW	NC				10.00		35	16	29	46	16	05	28.82	29.89	16	FEW	NC				10.00		31	20	27	64	9	06	28.87	29.94
19	FEW	NC				10.00		31	20	27	64	9	06	28.87	29.94	19	FEW	NC				10.00		26	18	23	71	6	06	28.89	29.97
22	CLR	NC				9.00		26	18	23	71	6	06	28.89	29.97	22	CLR	NC				9.00		26	18	23	71	6	06	28.89	29.97
SUNRISE: 0745								DEC 29								SUNSET: 1731															
01	CLR	NC				7.00		25	17	22	72	5	07	28.87	29.94	01	CLR	NC				7.00		25	17	22	72	5	07	28.87	29.94
04	CLR	NC				7.00		21	17	20	85	0	00	28.84	29.92	04	CLR	NC				7.00		21	17	20	85	0	00	28.84	29.92
07	FEW	NC				5.00	BR	21	18	20	88	6	20	28.88	29.97	07	FEW	NC				5.00	BR	21	18	20	88	6	20	28.88	29.97
10	BKN	090				6.00	HZ	28	22	26	78	7	23	28.89	29.97	10	BKN	090				6.00	HZ	28	22	26	78	7	23	28.89	29.97
13	SCT	NC				10.00		39	19	32	45	28	23	28.81	29.89	13	SCT	NC				10.00		39	19	32	45	28	23	28.81	29.89
16	OVC	050				9.00		35	21	30	57	10	28	28.78	29.86	16	OVC	050				9.00		35	21	30	57	10	28	28.78	29.86
19	OVC	060				9.00	-SN	30	19	26	64	10	26	28.84	29.92	19	OVC	060				9.00	-SN	30	19	26	64	10	26	28.84	29.92
22	OVC	070				7.00		29	19	26	66	13	29	28.84	29.92	22	OVC	070				7.00		29	19	26	66	13	29	28.84	29.92
SUNRISE: 0746								DEC 30								SUNSET: 1732															
01	OVC	050				7.00		23	11	20	60	16	29	28.88	29.96	01	OVC	050				7.00		23	11	20	60	16	29	28.88	29.96
04	OVC	060				7.00		19	7	16	59	15	28	28.91	29.99	04	OVC	060				7.00		19	7	16	59	15	28	28.91	29.99
07	BKN	034				10.00		17	6	14	62	13	27	28.95	30.03	07	BKN	034				10.00		17	6	14	62	13	27	28.95	30.03
10	OVC	028				5.00	-SN	18	11	16	74	12	22	28.98	30.07	10	OVC	028				5.00	-SN	18	11	16	74	12	22	28.98	30.07
13	OVC	033				2.50	HZ	21	11	18	65	8	25	28.97	30.06	13	OVC	033				2.50	HZ	21	11	18	65	8	25	28.97	30.06
16	BKN	040				10.00		23	12	20	63	14	27	28.98	30.07	16	BKN	040				10.00		23	12	20	63	14	27	28.98	30.07
19	BKN	075				10.00		22	11	19	63	13	25	29.03	30.12	19	BKN	075				10.00		22	11	19	63	13	25	29.03	30.12
22	OVC	070				7.00	-SN	21	12	18	68	13	25	29.08	30.17	22	OVC	070				7.00	-SN	21	12	18	68	13	25	29.08	30.17

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, VV = 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.

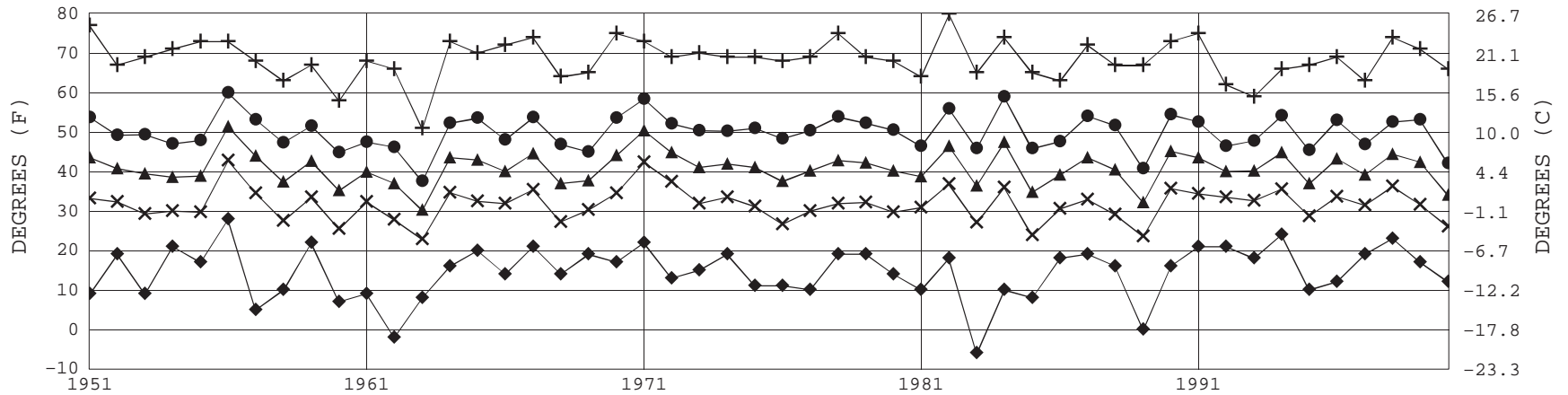
& = Original observation contained additional weather elements.

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		

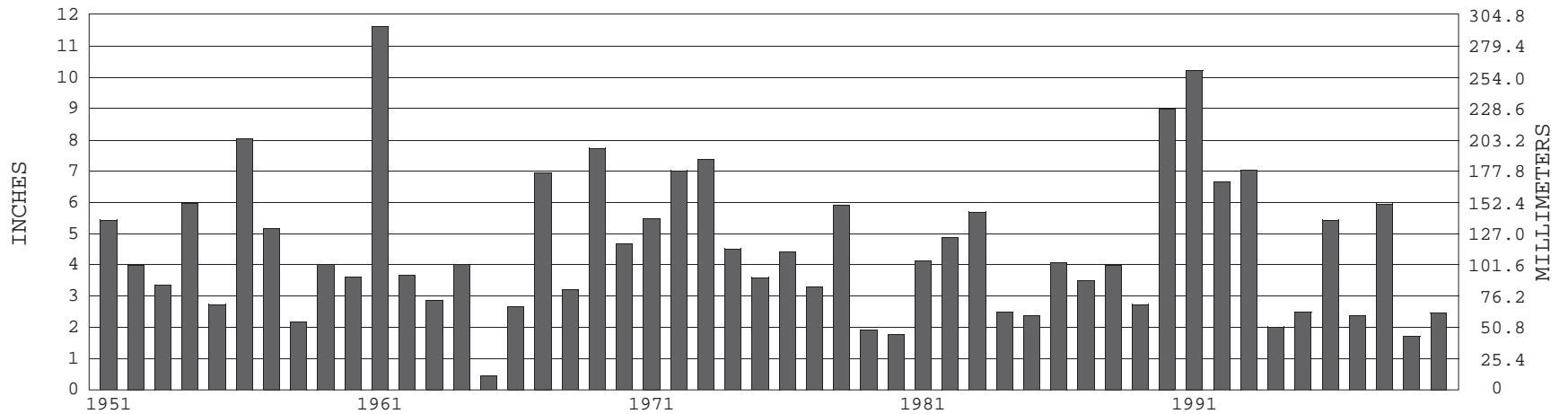
KNOXVILLE, TN DECEMBER TEMPERATURES



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

Long-Term (1951-2000) Mean: 40.9 1961-1990 Normal: 40.1

KNOXVILLE, TN DECEMBER PRECIPITATION



Long-Term (1951-2000) Mean Monthly Total: 4.54

1961-1990 Normal: 4.54



DECEMBER 2000
KNOXVILLE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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

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