DECEMBER 2006
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

KNOXVILLE, TN
MC GHEE TYSON AIRPORT (KTYS)
Lat:35 ° 49'N Long: 83 ° 59'W Elev (Ground) 962 Feet
Time Zone : EASTERN WBAN: 13891 ISSN#: 0198-4810

Date	Temperature °F						Deg Days BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITIATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES							Date
										0700 LST	1300 LST	2400 LST	2400 LST						MAXIMUM 5-SEC		2-MIN		
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		DEPTH	WATER-EQUIV	SNOW-FALL	WATER EQUIV	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	SPEED	DIR	SPEED	DIR	
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	73*	31	52	7	39	45	13	0	RA BR	0		0.0	0.14	28.87	29.96	15.7	24	17.8	54*	23	44*	24	01
02	51	26	39	-6	27	34	26	0		0		0.0	0.00	29.26	30.35	6.7	04	7.3	17	02	14	04	02
03	46	37	42	-2	28	36	23	0		0		0.0	0.00	29.27	30.35	2.7	36	3.6	14	01	12	36	03
04	37	22	30	-14	14	25	35	0		0		0.0	0.00	29.37	30.45	2.9	34	6.0	20	36	16	36	04
05	48	22	35	-8	18	29	30	0		0		0.0	0.00	29.33	30.40	1.3	25	2.4	9	26	9	23	05
06	57	24	41	-2	22	34	24	0		0		0.0	0.00	29.16	30.21	7.2	24	8.1	31	25	24	22	06
07	45	20	33	-10	19	29	32	0	RA SN	0		T	T	29.26	30.33	8.3	30	12.4	29	32	22	33	07
08	32	15	24*	-18	4	18	41	0		0		0.0	0.00	29.52	30.62	4.2	04	4.8	16	03	13	36	08
09	44	14*	29	-13	13	23	36	0		0		0.0	0.00	29.46	30.55	1.2	05	1.4	8	28	7	27	09
10	52	21	37	-5	18	29	28	0		0		0.0	0.00	29.42	30.50	0.9	04	1.5	7	02	7	06	10
11	61	32	47	5	28	37	18	0		0		0.0	0.00	29.38	30.45	3.0	04	3.5	10	03	9	03	11
12	65	30	48	6	35	42	17	0	RA BR	0		0.0	0.11	29.23	30.28	1.3	07	4.1	20	16	15	16	12
13	62	43	53	12	46	49	12	0	RA BR HZ	0		0.0	0.03	29.15	30.20	0.2	33	3.4	12	24	10	23	13
14	63	32	48	7	38	43	17	0	BR	0		0.0	0.00	29.03	30.07	4.0	24	5.5	23	22	18	22	14
15	64	42	53	12	42	47	12	0		0		0.0	0.00	28.92	29.97	8.2	23	8.7	23	23	21	23	15
16	63	35	49	8	39	44	16	0	BR	0		0.0	0.00	29.08	30.13	0.4	13	2.0	10	28	9	28	16
17	68	33	51	11	38	44	14	0	BR	0		0.0	0.00	29.18	30.24	1.0	24	1.6	14	23	13	23	17
18	68	36	52	12	41	46	13	0	BR	0		0.0	0.00	29.22	30.28	1.0	20	1.7	12	19	10	21	18
19	60	41	51	11	42	46	14	0	BR HZ	0		0.0	0.00	29.26	30.32	2.7	02	4.8	17	02	14	03	19
20	58	39	49	9	36	43	16	0		0		0.0	0.00	29.26	30.31	3.0	04	4.1	12	04	10	04	20
21	57	45	51	11	43	47	14	0		0		0.0	0.00	29.20	30.24	2.4	04	2.7	8	06	8	03	21
22	58	50	54	15	53	53	11	0	RA DZ BR	0		0.0	0.81	28.92	29.95	1.2	35	3.7	20	30	15	29	22
23	58	37	48	9	42	46	17	0	RA DZ BR	0		0.0	T	28.99	30.06	3.5	24	4.1	20	28	16	29	23
24	55	31	43	4	35	40	22	0	BR	0		0.0	0.00	29.10	30.16	6.2	04	6.3	17	03	15	04	24
25	58	44	51	12	45	48	14	0	RA BR	0		0.0	0.19	28.69	29.69	1.7	31	9.6	41	24	30	24	25
26	49	37	43	4	34	38	22	0		0		0.0	0.00	28.76	29.85	12.8	25	13.9	35	23	29	23	26
27	47	32	40	1	26	33	25	0		0		0.0	0.00	29.12	30.20	2.0	31	2.8	15	27	13	27	27
28	54	28	41	3	29	35	24	0	BR	0		0.0	0.00	29.26	30.35	0.7	03	1.3	8	02	6	01	28
29	62	28	45	7	33	39	20	0		0		0.0	0.00	29.40	30.48	2.4	05	2.5	10	02	8	03	29
30	59	34	47	9	40	45	18	0		0		0.0	0.00	29.31	30.36	6.8	04	7.0	16	05	14	04	30
31	62	50	56*	18	51	53	9	0	RA DZ BR	0		0.0	0.81	29.02	30.04	1.7	30	6.6	25	24	21	24	31
	56.0	32.6	44.3	¤	32.8	39.4	20.4	0.0	< MONTHLY AVERAGES | TOTALS >			T	2.09	29.16	30.23	1.2	30	5.3	< MONTHLY AVERAGES				
	6.2	0.7	3.4		<---------- DEPARTURE FROM NORMAL ---------->								-2.40	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DECEMBER 2006
KNOXVILLE, TN

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	633	-100	1412	-23
COOLING :	0	0	1593	143

GREATEST 24-HR PRECIPITATION :	0.81	DATE :	31+
GREATEST 24-HR SNOWFALL :	T	DATE :	07
GREATEST SNOW DEPTH :	0	DATE :	

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM :	30.68	08	1153
MIMIMUM :	29.54	25	1812

NUMBER OF -> DAYS WITH

MAXIMUM TEMP >= 90 :	0	MINIMUM TEMP <= 32 :	16
MAXIMUM TEMP <= 32 :	1	MINIMUM TEMP <= 0 :	0
THUNDERSTORMS :	0	HEAVY FOG :	0

PRECIPITATION >= 0.01 INCH:	6
PRECIPITATION >= 0.10 INCH:	5
SNOWFALL >= 1.0 INCH :	0

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
DECEMBER 2006 WBAN # 13891

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			
01							0.11	0.03					01													01	0.14	0.14
02													02													02	0.00	0.00
03													03													03	0.00	0.00
04													04													04	0.00	0.00
05													05													05	0.00	0.00
06													06													06	0.00	0.00
07													07		T	T	T	T	T	T						07	T	T
08													08													08	0.00	0.00
09													09													09	0.00	0.00
10													10													10	0.00	0.00
11													11													11	0.00	0.00
12													12								T	T	0.05	0.05	0.01	12	0.11	0.11
13	0.02	T	0.01		T								13													13	0.03	0.03
14													14													14	0.00	0.00
15													15													15	0.00	0.00
16													16													16	0.00	0.00
17													17													17	0.00	0.00
18													18													18	0.00	0.00
19													19													19	0.00	0.00
20													20													20	0.00	0.00
21													21													21	0.00	0.00
22				T	0.01	0.07	0.04	0.10	0.08	0.08	0.14	0.19	22	0.04	T	T						0.01			0.05	22	0.81	0.81
23	T	T											23													23	T	T
24													24													24	0.00	0.00
25	T	0.02	0.03	0.02	0.01	0.01	T	0.02	T				25	0.01	0.07	T						T	T	T	T	25	0.19	0.19
26													26													26	0.00	0.00
27													27													27	0.00	0.00
28													28													28	0.00	0.00
29													29													29	0.00	0.00
30													30													30	0.00	0.00
31						T	T	T		T	0.02	0.05	31	0.04	0.05	0.11	0.02			0.06	0.14	0.32				31	0.81	0.81

*** Indicates sum of Hourly and Daily disagree.**

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hr/Min)												

Date and time are not entered for TRACE amounts.

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

*** = Extreme for the month (last occurence if more than one).**

T = Trace precipitation amount.

+ = also occurs on earlier date.

FG+ = Heavy fog, visibility .25 miles or less.

BLANK entries denote missing or unreported data.

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971-2000

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
DESCRIPTOR	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '-' = Light

KNOXVILLE, TN
DECEMBER 2006

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:

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Station Augmentation-CONTRACTOR ON AIRPORT
  Lat/Lon:/ Elevation:
  Distance:2200 FT Dir:W
  Augmented Elements:Temp,Precip,Snow
  Equipment:SRG, PSY, Snow Board, Snow stick
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Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
			SR-SS		MN-MN				
	TOTAL MINUTES	PERCENT POSSIBLE	Sky Cover	Satellite	Sky Cover	Satellite	MINIMUM	MAXIMUM	
01							3.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							9.00	10.00	
07							9.00	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							9.00	10.00	
11							10.00	10.00	
12							2.50	10.00	
13							1.00	10.00	
14							1.00	10.00	
15							10.00	10.00	
16							6.00	10.00	
17							5.00	10.00	
18							4.00	10.00	
19							3.00	10.00	
20							10.00	10.00	
21							8.00	10.00	
22							1.00	9.00	
23							10.00	10.00	
24							6.00	10.00	
25							8.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							5.00	10.00	
29							7.00	10.00	
30							8.00	10.00	
31							1.75	10.00	
MONTHLY AVGS							7.01	9.97	

SUNSHINE (Minutes)

Total : **Possible :**
Percent Possible :

NUMBER OF DAYS WITH :

SKY CONDITION

Clear	Partly CLDY	Cloudy	Missing

MINIMUM VISIBILTY (MILES)

<= .25	<= 3.0	>= 7.0
0	7	19

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
DECEMBER 2006 KTYS WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0724 DEC 01 SUNSET: 1719								
01	FEW	095			6.00	BR	56	54	55	93	0	00	28.77	29.79
04	BKN	110			10.00		73	57	63	57	31	20	28.65	29.67
07	OVC	060			3.00	-RA BR	64	62	63	93	38	23	28.65	29.67
10	FEW	040			10.00		57	40	49	53	31	25	28.82	29.85
13	FEW	035			10.00		50	34	43	54	20	26	28.95	30.00
16	FEW	050			10.00		45	27	38	49	16	29	29.06	30.09
19	CLR	NC			10.00		39	26	34	60	6	29	29.14	30.19
22	CLR	NC			10.00		36	25	32	64	3	23	29.18	30.24
						SUNRISE: 0725 DEC 02 SUNSET: 1719								
01	CLR	NC			10.00		31	25	29	78	5	30	29.21	30.27
04	CLR	NC			10.00		28	25	27	89	0	00	29.25	30.32
07	SCT	080			10.00		28	24	27	85	7	05	29.27	30.35
10	FEW	080			10.00		36	27	33	70	10	03	29.33	30.41
13	FEW	100			10.00		45	30	39	56	10	04	29.29	30.36
16	FEW	120			10.00		49	27	40	43	11	02	29.25	30.32
19	FEW	120			10.00		45	25	37	46	10	04	29.27	30.35
22	CLR	NC			10.00		43	28	37	56	8	02	29.28	30.35
						SUNRISE: 0726 DEC 03 SUNSET: 1719								
01	CLR	NC			10.00		41	28	36	60	6	36	29.28	30.35
04	CLR	NC			10.00		40	29	36	65	3	03	29.27	30.33
07	BKN	120			10.00		38	30	35	73	0	00	29.27	30.33
10	BKN	120			10.00		41	30	37	65	0	00	29.31	30.38
13	BKN	120			10.00		44	29	38	56	0	00	29.26	30.33
16	BKN	120			10.00		46	30	39	54	3	21	29.25	30.31
19	BKN	120			10.00		41	30	37	65	3	31	29.28	30.35
22	BKN	120			10.00		40	25	34	55	8	36	29.32	30.39
						SUNRISE: 0727 DEC 04 SUNSET: 1719								
01	BKN	120			10.00		36	21	31	55	11	36	29.34	30.41
04	SCT	036			10.00		27	16	24	63	7	36	29.38	30.45
07	CLR	NC			10.00		23	14	20	68	5	36	29.41	30.49
10	CLR	NC			10.00		27	14	23	58	8	01	29.43	30.51
13	CLR	NC			10.00		33	8	26	35	3	VR	29.41	30.49
16	CLR	NC			10.00		36	9	28	32	0	00	29.34	30.42
19	CLR	NC			10.00		29	14	24	53	7	22	29.33	30.42
22	CLR	NC			10.00		27	14	23	58	5	21	29.34	30.43
						SUNRISE: 0728 DEC 05 SUNSET: 1719								
01	CLR	NC			10.00		27	14	23	58	6	27	29.33	30.42
04	CLR	NC			10.00		26	15	23	63	0	00	29.35	30.43
07	CLR	NC			10.00		24	16	22	71	0	00	29.35	30.44
10	CLR	NC			10.00		34	18	29	52	3	24	29.38	30.46
13	CLR	NC			10.00		43	19	34	38	3	VR	29.33	30.41
16	CLR	NC			10.00		47	21	37	36	3	27	29.28	30.35
19	CLR	NC			10.00		41	21	34	45	0	00	29.29	30.37
22	CLR	NC			10.00		36	22	31	57	0	00	29.27	30.35
						SUNRISE: 0728 DEC 06 SUNSET: 1719								
01	CLR	NC			10.00		31	23	28	72	3	31	29.24	30.31
04	CLR	NC			10.00		29	22	27	75	3	29	29.21	30.27
07	FEW	120			9.00		25	21	24	85	0	00	29.21	30.29
10	FEW	120			10.00		35	26	32	70	0	00	29.22	30.29
13	FEW	120			10.00		54	27	42	35	10	24	29.13	30.19
16	BKN	090			10.00		55	18	40	23	11	25	29.07	30.12
19	OVC	070			10.00		52	16	38	24	15	25	29.07	30.13
22	OVC	080			10.00		50	19	38	29	15	23	29.10	30.16
						SUNRISE: 0729 DEC 07 SUNSET: 1719								
01	CLR	NC			10.00		43	20	34	40	7	23	29.10	30.14
04	CLR	NC			10.00		39	22	33	51	11	25	29.12	30.16
07	CLR	NC			10.00		37	26	33	65	11	25	29.15	30.21
10	CLR	NC			10.00		41	27	35	58	8	25	29.21	30.26
13	BKN	060			10.00		42	27	36	55	14	28	29.21	30.28
16	OVC	060			9.00	-SN	33	20	29	59	14	33	29.30	30.37
19	SCT	100			10.00		26	12	22	55	13	36	29.41	30.49
22	CLR	NC			10.00		22	3	17	44	14	36	29.49	30.57
						SUNRISE: 0730 DEC 08 SUNSET: 1719								
01	CLR	NC			10.00		19	3	15	49	10	02	29.52	30.60
04	CLR	NC			10.00		17	4	14	56	8	03	29.52	30.62
07	CLR	NC			10.00		15	5	13	64	8	05	29.54	30.65
10	CLR	NC			10.00		21	6	17	52	6	03	29.57	30.68
13	CLR	NC			10.00		29	3	22	33	6	07	29.54	30.65
16	CLR	NC			10.00		32	1	24	26	6	02	29.49	30.59
19	CLR	NC			10.00		28	3	21	34	0	00	29.49	30.58
22	CLR	NC			10.00		22	7	18	52	0	00	29.48	30.58
						SUNRISE: 0731 DEC 09 SUNSET: 1719								
01	CLR	NC			10.00		19	11	17	71	0	00	29.49	30.59
04	CLR	NC			10.00		18	10	16	71	0	00	29.49	30.59
07	CLR	NC			10.00		14	10	13	84	3	10	29.48	30.58
10	CLR	NC			10.00		25	16	22	69	7	05	29.52	30.61
13	CLR	NC			10.00		37	10	28	33	3	VR	29.46	30.55
16	CLR	NC			10.00		43	13	33	29	0	00	29.42	30.50
19	CLR	NC			10.00		37	14	29	39	0	00	29.42	30.51
22	CLR	NC			10.00		30	15	25	54	0	00	29.43	30.51
						SUNRISE: 0732 DEC 10 SUNSET: 1719								
01	CLR	NC			10.00		28	16	24	61	0	00	29.44	30.52
04	CLR	NC			10.00		23	16	21	74	0	00	29.43	30.51
07	FEW	100			10.00		24	17	22	75	0	00	29.46	30.55
10	FEW	110			10.00		33	22	29	64	5	07	29.49	30.57
13	FEW	120			10.00		45	14	34	29	0	00	29.43	30.51
16	FEW	120			10.00		51	17	38	26	0	00	29.39	30.46
19	FEW	120			10.00		41	17	33	38	0	00	29.38	30.46
22	CLR	NC			10.00		37	21	31	52	0	00	29.37	30.45
						SUNRISE: 0732 DEC 11 SUNSET: 1719								
01	SCT	120			10.00		34	23	30	64	0	00	29.38	30.45
04	OVC	120			10.00		34	24	30	67	3	01	29.39	30.46
07	BKN	110			10.00		34	25	31	70	3	07	29.42	30.49
10	FEW	110			10.00		42	26	36	53	5	06	29.45	30.52
13	CLR	NC			10.00		57	22	43	26	3	VR	29.38	30.45
16	CLR	NC			10.00		61	34	48	36	3	02	29.33	30.39
19	CLR	NC			10.00		52	32	43	47	6	05	29.33	30.40
22	CLR	NC			10.00		44	33	39	65	3	10	29.36	30.42
						SUNRISE: 0733 DEC 12 SUNSET: 1719								
01	CLR	NC			10.00		35	30	33	82	0	00	29.32	30.38
04	CLR	NC			10.00		35	30	33	82	3	02	29.29	30.35
07	CLR	NC			7.00		30	28	29	92	3	07	29.29	30.36
10	CLR	NC			10.00		43	34	39	71	0	00	29.31	30.37
13	FEW	090			10.00		60	36	48	41	5	34	29.21	30.26
16	BKN	110			10.00		62	37	50	40	6	03	29.14	30.18
19	OVC	060			10.00		59	34	47	39	6	16	29.13	30.18
22	OVC	047			4.00	-RA BR	51	48	49	90	6	30	29.21	30.26

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
DECEMBER 2006 KTYS WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0734 DEC 13 SUNSET: 1720								
01	OVC	090			2.50	BR	49	48	48	96	0	00	29.18	30.23
04	OVC	035			4.00	BR	49	48	48	96	7	12	29.18	30.22
07	OVC	024			3.00	BR	48	47	47	96	5	02	29.19	30.24
10	SCT	034			2.50	BR	51	48	49	90	5	09	29.21	30.27
13	SCT	024			10.00		58	50	54	75	5	27	29.15	30.20
16	FEW	030			10.00		62	46	54	56	7	24	29.12	30.16
19	CLR	NC			10.00		56	43	49	62	0	00	29.12	30.16
22	SCT	043			10.00		48	42	45	80	0	00	29.12	30.16
						SUNRISE: 0734 DEC 14 SUNSET: 1720								
01	CLR	NC			7.00		42	40	41	93	0	00	29.11	30.15
04	FEW	001			4.00	BR	38	36	37	93	0	00	29.09	30.14
07	VV	001			1.00	BR	33	32	33	96	0	00	29.08	30.13
10	CLR	NC			7.00		43	40	42	89	5	03	29.10	30.15
13	FEW	038			10.00		55	42	49	62	0	00	29.04	30.08
16	CLR	NC			10.00		61	40	50	46	15	23	28.94	29.99
19	CLR	NC			10.00		51	39	45	64	8	25	28.93	29.99
22	CLR	NC			10.00		50	39	45	66	10	24	28.94	29.99
						SUNRISE: 0735 DEC 15 SUNSET: 1720								
01	CLR	NC			10.00		48	40	44	74	10	24	28.92	29.96
04	CLR	NC			10.00		46	40	43	80	8	26	28.91	29.95
07	CLR	NC			10.00		42	38	40	86	9	23	28.91	29.96
10	CLR	NC			10.00		55	45	50	69	11	24	28.93	29.97
13	CLR	NC			10.00		61	45	53	56	14	24	28.88	29.92
16	CLR	NC			10.00		63	41	52	45	9	25	28.89	29.93
19	CLR	NC			10.00		56	42	49	60	5	22	28.95	30.00
22	CLR	NC			10.00		50	42	46	74	3	17	29.00	30.04
						SUNRISE: 0736 DEC 16 SUNSET: 1720								
01	CLR	NC			8.00		43	39	41	86	0	00	29.02	30.06
04	CLR	NC			8.00		41	37	39	86	0	00	29.04	30.09
07	CLR	NC			7.00		37	35	36	93	0	00	29.09	30.14
10	CLR	NC			7.00		45	40	43	83	3	05	29.13	30.18
13	CLR	NC			10.00		59	42	50	54	3	31	29.09	30.13
16	CLR	NC			10.00		63	40	51	43	3	VR	29.07	30.11
19	CLR	NC			10.00		55	41	48	59	7	13	29.08	30.13
22	CLR	NC			10.00		46	39	43	77	6	16	29.13	30.18
						SUNRISE: 0736 DEC 17 SUNSET: 1721								
01	CLR	NC			10.00		42	37	40	83	0	00	29.14	30.19
04	CLR	NC			5.00	BR	36	34	35	92	0	00	29.16	30.21
07	CLR	NC			7.00		38	35	37	89	0	00	29.18	30.24
10	CLR	NC			7.00		44	40	42	86	0	00	29.25	30.31
13	CLR	NC			10.00		61	41	51	48	0	00	29.19	30.24
16	CLR	NC			10.00		67	41	54	39	8	28	29.15	30.19
19	CLR	NC			10.00		59	38	49	46	3	17	29.18	30.23
22	CLR	NC			10.00		49	41	45	74	0	00	29.19	30.25
						SUNRISE: 0737 DEC 18 SUNSET: 1721								
01	CLR	NC			9.00		41	38	40	89	3	04	29.18	30.23
04	CLR	NC			8.00		42	38	40	86	0	00	29.21	30.26
07	CLR	NC			5.00	BR	36	35	36	96	3	07	29.25	30.31
10	CLR	NC			7.00		46	40	43	80	0	00	29.30	30.36
13	CLR	NC			10.00		65	44	54	47	3	VR	29.24	30.29
16	CLR	NC			10.00		68	45	56	44	6	22	29.21	30.26
19	CLR	NC			10.00		60	44	52	56	0	00	29.21	30.27
22	CLR	NC			10.00		52	43	48	72	0	00	29.23	30.29

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0738 DEC 19 SUNSET: 1722								
01	CLR	NC			7.00		47	43	45	86	0	00	29.22	30.27
04	BKN	080			6.00	BR	44	41	43	89	3	17	29.23	30.28
07	SCT	080			4.00	BR	42	40	41	93	0	00	29.26	30.31
10	OVC	012			5.00	BR	49	45	47	86	3	24	29.31	30.37
13	OVC	022			10.00		57	48	52	72	5	31	29.28	30.33
16	BKN	032			10.00		58	45	51	62	8	36	29.27	30.32
19	FEW	035			10.00		50	40	45	69	8	05	29.27	30.34
22	CLR	NC			10.00		48	38	43	68	5	02	29.30	30.35
						SUNRISE: 0738 DEC 20 SUNSET: 1722								
01	SCT	100			10.00		44	35	40	71	5	04	29.28	30.34
04	CLR	NC			10.00		42	35	39	76	9	02	29.26	30.32
07	SCT	120			10.00		40	32	37	73	5	01	29.28	30.34
10	CLR	NC			10.00		45	31	39	58	7	05	29.30	30.37
13	CLR	NC			10.00		55	36	46	49	3	VR	29.24	30.30
16	SCT	120			10.00		57	38	48	49	0	00	29.21	30.27
19	SCT	120			10.00		52	40	46	64	3	06	29.23	30.29
22	SCT	120			10.00		48	41	45	77	0	00	29.24	30.30
						SUNRISE: 0739 DEC 21 SUNSET: 1723								
01	CLR	NC			10.00		48	41	45	77	0	00	29.25	30.30
04	OVC	080			10.00		47	41	44	80	5	02	29.22	30.27
07	SCT	110			10.00		46	40	43	80	3	08	29.21	30.27
10	BKN	085			10.00		50	41	46	71	0	00	29.26	30.32
13	OVC	100			10.00		55	42	49	62	0	00	29.18	30.24
16	OVC	100			9.00		56	45	50	67	5	06	29.15	30.21
19	OVC	050			10.00		54	46	50	75	0	00	29.15	30.21
22	OVC	110			9.00		51	46	48	83	5	07	29.11	30.16
						SUNRISE: 0739 DEC 22 SUNSET: 1723								
01	BKN	110			8.00		51	47	49	86	0	00	29.04	30.09
04	OVC	110			7.00	-RA	52	49	50	90	5	34	28.99	30.03
07	OVC	048			2.00	-RA BR	51	50	50	96	5	28	28.95	30.00
10	OVC	065			1.00	RA BR	53	52	52	96	8	06	28.90	29.94
13	OVC	060			3.00	-RA BR	55	54	54	96	7	06	28.84	29.87
16	OVC	013			4.00	BR	57	55	56	93	0	00	28.85	29.89
19	OVC	030			3.00	BR	56	55	55	96	3	18	28.88	29.92
22	OVC	040			2.50	BR	56	55	55	96	6	21	28.89	29.93
						SUNRISE: 0740 DEC 23 SUNSET: 1724								
01	OVC	019			10.00		54	52	53	93	10	29	28.89	29.93
04	BKN	032			10.00		50	46	48	86	7	26	28.94	29.98
07	OVC	022			10.00		48	45	47	89	6	21	28.99	30.03
10	FEW	020			10.00		49	44	47	83	3	22	29.06	30.11
13	SCT	035			10.00		55	42	49	62	6	24	29.02	30.06
16	FEW	035			10.00		57	40	49	53	6	VR	29.03	30.06
19	CLR	NC			10.00		47	36	42	66	0	00	29.07	30.12
22	CLR	NC			10.00		43	36	40	76	0	00	29.07	30.12
						SUNRISE: 0740 DEC 24 SUNSET: 1724								
01	CLR	NC			10.00		39	35	37	86	0	00	29.11	30.16
04	CLR	NC			7.00		34	32	33	92	3	06	29.15	30.20
07	CLR	NC			10.00		35	33	34	92	5	05	29.16	30.22
10	FEW	120			9.00		42	37	40	83	8	05	29.18	30.24
13	FEW	120			10.00		52	38	45	59	11	04	29.10	30.15
16	SCT	120			10.00		54	33	44	45	10	04	29.05	30.11
19	FEW	120			10.00		48	36	43	63	8	04	29.08	30.13
22	SCT	120			10.00		47	36	42	66	3	06	29.04	30.10

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
DECEMBER 2006 KTYS WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0740 DEC 25 SUNSET: 1725								
01	OVC	090			10.00	-RA	47	38	43	71	5	04	28.97	30.01
04	OVC	095			9.00	-RA	45	41	43	86	10	03	28.86	29.91
07	OVC	100			10.00		45	42	44	89	9	04	28.78	29.81
10	OVC	100			10.00		47	43	45	86	11	02	28.71	29.74
13	BKN	048			8.00	-RA	55	49	52	80	6	35	28.52	29.55
16	OVC	060			10.00		54	50	52	86	0	00	28.51	29.54
19	OVC	055			10.00		57	49	53	75	14	22	28.53	29.56
22	OVC	085			10.00	-RA	52	47	49	83	16	23	28.53	29.57
						SUNRISE: 0741 DEC 26 SUNSET: 1725								
01	OVC	075			10.00		47	40	44	77	21	22	28.57	29.61
04	OVC	021			10.00		46	38	42	74	18	22	28.59	29.62
07	OVC	038			10.00		42	34	39	73	18	27	28.69	29.72
10	OVC	037			10.00		40	32	37	73	13	26	28.79	29.83
13	OVC	040			10.00		40	33	37	76	10	27	28.82	29.86
16	OVC	045			10.00		39	32	36	76	16	28	28.85	29.91
19	OVC	070			10.00		38	32	36	79	13	28	28.95	30.00
22	OVC	021			10.00		37	31	35	79	9	26	29.01	30.07
						SUNRISE: 0741 DEC 27 SUNSET: 1726								
01	OVC	037			10.00		36	29	33	76	9	27	29.03	30.09
04	OVC	037			10.00		36	29	33	76	3	29	29.08	30.14
07	BKN	033			10.00		34	26	31	73	0	00	29.14	30.21
10	SCT	028			10.00		38	25	33	60	6	36	29.18	30.24
13	CLR	NC			10.00		43	26	36	51	0	00	29.15	30.21
16	CLR	NC			10.00		46	24	37	42	0	00	29.14	30.20
19	CLR	NC			10.00		40	25	34	55	0	00	29.16	30.24
22	CLR	NC			10.00		35	26	32	70	3	36	29.18	30.25
						SUNRISE: 0741 DEC 28 SUNSET: 1727								
01	CLR	NC			10.00		32	27	30	82	0	00	29.21	30.27
04	CLR	NC			5.00	BR	28	26	27	92	5	06	29.21	30.28
07	CLR	NC			9.00		30	26	29	85	0	00	29.26	30.33
10	CLR	NC			10.00		37	31	35	79	5	07	29.34	30.42
13	CLR	NC			10.00		49	30	41	48	0	00	29.28	30.35
16	CLR	NC			10.00		54	30	43	40	0	00	29.26	30.33
19	CLR	NC			10.00		50	29	41	44	0	00	29.31	30.38
22	CLR	NC			10.00		39	31	36	73	0	00	29.35	30.42
						SUNRISE: 0742 DEC 29 SUNSET: 1727								
01	CLR	NC			10.00		35	31	33	85	0	00	29.37	30.44
04	CLR	NC			10.00		33	29	31	85	0	00	29.40	30.47
07	CLR	NC			7.00		28	26	27	92	0	00	29.43	30.50
10	BKN	045			10.00		37	33	35	86	3	06	29.49	30.57
13	BKN	049			10.00		54	35	45	49	6	03	29.44	30.50
16	FEW	050			10.00		62	37	50	40	3	01	29.38	30.45
19	CLR	NC			10.00		51	34	43	52	5	07	29.37	30.44
22	CLR	NC			10.00		49	35	43	59	0	00	29.38	30.44
						SUNRISE: 0742 DEC 30 SUNSET: 1728								
01	CLR	NC			10.00		42	35	39	76	5	04	29.36	30.42
04	FEW	065			10.00		38	34	36	86	5	05	29.35	30.41
07	BKN	060			10.00		43	37	40	79	6	04	29.34	30.40
10	OVC	050			10.00		46	37	42	71	8	04	29.37	30.44
13	BKN	065			10.00		55	41	48	59	10	06	29.32	30.38
16	OVC	060			10.00		59	44	51	58	9	04	29.28	30.34
19	OVC	060			10.00		57	45	51	64	7	05	29.23	30.29
22	BKN	120			10.00		55	45	50	69	7	04	29.23	30.28
						SUNRISE: 0742 DEC 31 SUNSET: 1729								
01	BKN	120			10.00		51	44	48	77	3	07	29.18	30.23
04	BKN	120			10.00		52	46	49	80	6	01	29.14	30.17
07	SCT	110			10.00		51	47	49	86	8	06	29.06	30.10
10	BKN	100			10.00	-RA	54	49	51	83	7	30	29.07	30.11
13	OVC	060			2.00	-RA BR	55	54	54	96	6	29	28.98	30.02
16	BKN	095			3.00	BR	58	56	57	93	0	00	28.88	29.93
19	OVC	090			7.00	-RA	57	56	56	96	8	28	28.87	29.91
22	OVC	049			10.00		58	52	55	81	11	22	28.92	29.96

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, W = Vertical Visibility = 8/8

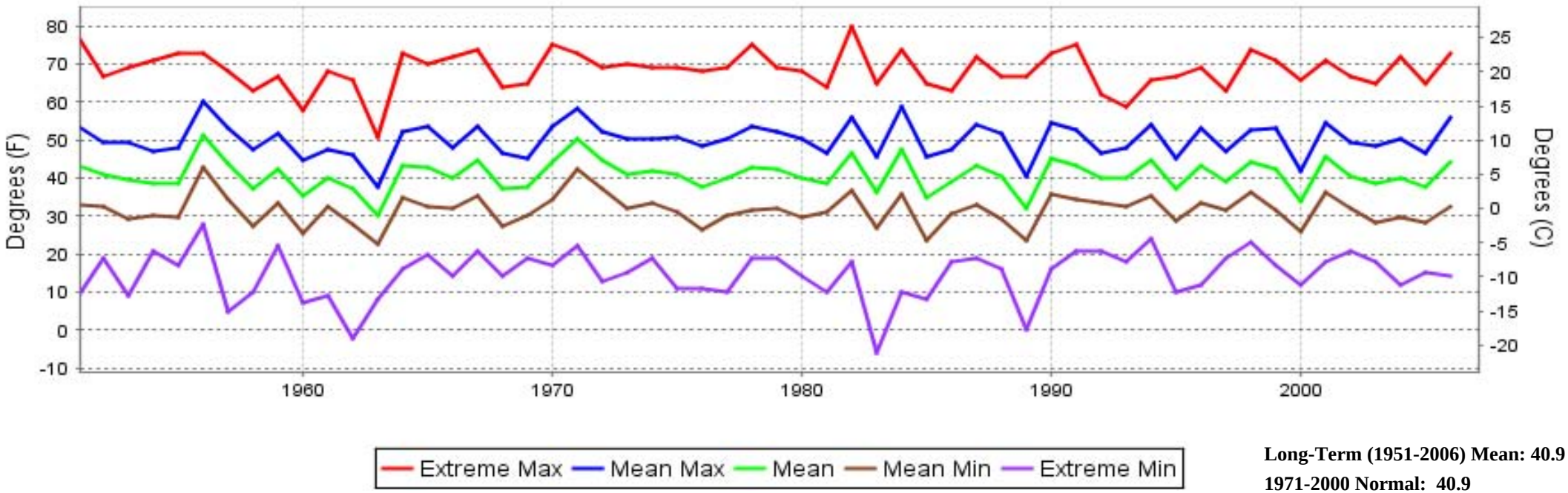
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation containted additional weather elements.
See page 3 for additional notes.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG) STATION	PRESSURE (Inches, HG) SEA LEVEL	VISIBILITY (Miles)	WIND SPEED (MPH)	RESULTANT WIND (MPH) SPEED	RESULTANT WIND (MPH) DIRECTION
01			40	32	37	76	29.18	30.23	9.27	4	3	30
02			39	32	36	79	29.17	30.23	9.11	4	1	32
03			39	32	36	78	29.17	30.23	9.11	5	1	34
04			38	32	36	79	29.17	30.23	8.81	5	1	31
05			37	32	35	81	29.17	30.23	8.68	5	1	34
06			37	32	35	80	29.18	30.23	8.61	5	1	32
07			36	32	35	83	29.19	30.25	8.19	5	1	31
08			36	31	34	82	29.20	30.26	8.15	5	1	31
09			39	32	36	79	29.21	30.27	8.64	6	1	34
10			42	34	39	72	29.22	30.29	8.89	6	1	35
11			45	34	41	65	29.22	30.28	9.22	6	1	32
12			49	34	42	58	29.20	30.26	9.40	6	2	30
13			51	34	44	55	29.17	30.23	9.45	6	3	29
14			53	34	45	52	29.15	30.21	9.57	6	3	29
15			54	34	45	50	29.15	30.20	9.60	6	4	28
16			53	33	45	49	29.15	30.20	9.52	6	3	29
17			51	33	44	53	29.15	30.21	9.61	6	2	29
18			49	33	42	55	29.16	30.22	9.55	5	2	30
19			48	33	41	58	29.16	30.23	9.68	5	1	31
20			46	33	41	61	29.17	30.23	9.47	6	2	29
21			45	33	40	64	29.18	30.24	9.56	5	4	29
22			44	33	39	68	29.18	30.24	9.53	5	2	30
23			42	33	39	71	29.18	30.24	9.50	5	2	30
24			41	32	37	73	29.18	30.24	9.28	5	3	29

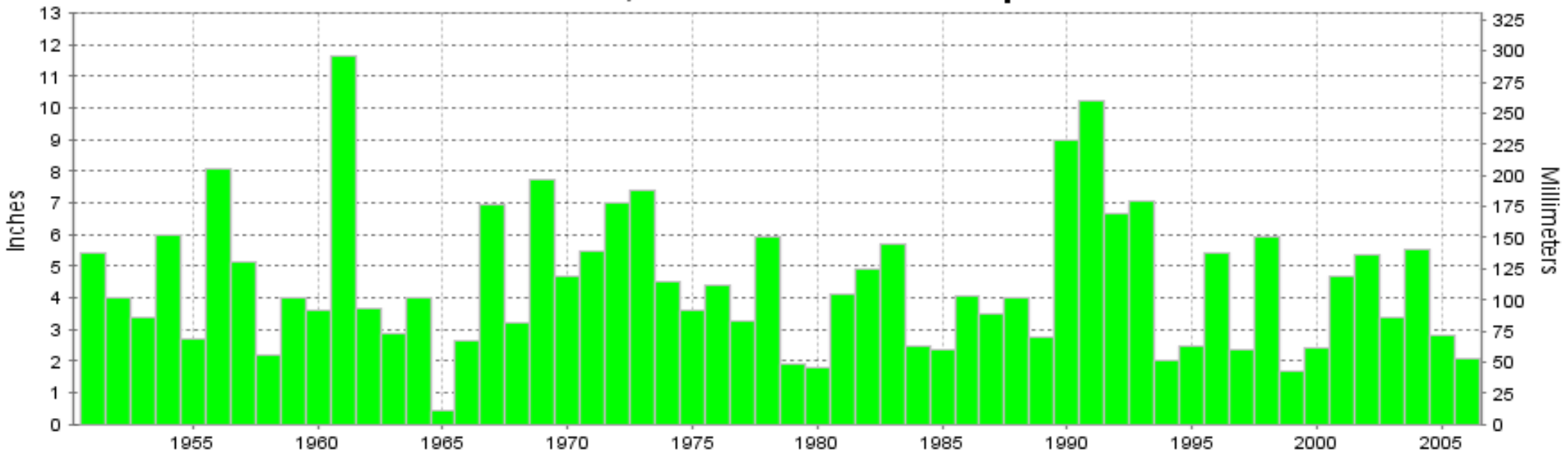
KNOXVILLE, TN DECEMBER Temperatures



Long-Term (1951-2006) Mean: 40.9

1971-2000 Normal: 40.9

KNOXVILLE, TN DECEMBER Precipitation



Long-Term (1951-2006) Mean Monthly Total: 4.48 **1971-2000 Normal: 4.49**

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