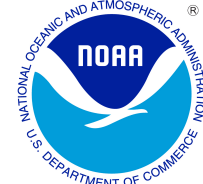




# JANUARY 2007 LOCAL CLIMATOLOGICAL DATA

## 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 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST 11	1300 LST 12	2400 LST 13	2400 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
									DEPTH 11	WATER- EQUIV 12	SNOW- FALL 13	WATER EQUIV 14			SPEED 17	DIR 18	AVERAGE SPEED 19	SPEED 20	DIR 21	SPEED 22	DIR 23			
01	55	38	47	9	37	42	18	0	RA	0		0.0	T	28.99	30.07	8.8	26	10.9	25	27	21	25	01	
02	50	31	41	3	30	36	24	0		0		0.0	0.00	29.30	30.38	9.2	04	9.6	22	06	18	04	02	
03	53	26	40	2	30	35	25	0	BR	0		0.0	0.00	29.29	30.36	0.3	34	1.6	10	29	8	29	03	
04	58	31	45	7	37	41	20	0	RA DZ BR	0		0.0	0.08	29.11	30.15	3.1	04	3.6	9	36	8	09	04	
05	70	49	60	22	52	54	5	0	RA DZ BR	0		0.0	0.37	28.83	29.86	4.5	21	7.6	29	20	24	22	05	
06	63	49	56	19	50	53	9	0		0		0.0	0.00	28.95	30.02	7.0	23	8.7	21	25	18	24	06	
07	67	45	56	19	51	52	9	0	TSRA RA BR	0		0.0	0.54	28.95	29.96	2.0	25	7.4	33	21	28	21	07	
08	56	32	44	7	27	37	21	0	RA DZ	0		0.0	T	28.97	30.05	11.3	26	12.1	35	28	26	28	08	
09	44	31	38	1	26	33	27	0	RA SN BR	0		T	0.01	29.08	30.15	11.8	25	13.3	36	30	28	30	09	
10	44	25	35	-2	16	28	30	0		0		0.0	0.00	29.34	30.43	1.4	03	2.4	12	34	9	06	10	
11	50	22	36	-1	22	31	29	0		0		0.0	0.00	29.35	30.43	0.8	06	1.2	8	27	7	27	11	
12	57	38	48	11	36	43	17	0		0		0.0	0.00	29.36	30.41	1.0	05	2.0	10	26	9	26	12	
13	69	43	56	19	46	50	9	0		0		0.0	0.00	29.25	30.30	3.9	24	5.3	25	23	22	22	13	
14	71*	54	63*	26	49	55	2	0		0		0.0	0.00	29.17	30.20	9.5	22	10.0	32	22	29	22	14	
15	69	48	59	22	52	55	6	0	RA DZ BR	0		0.0	0.33	29.01	30.04	11.8	23	13.0	38*	22	32*	22	15	
16	48	31	40	3	29	34	25	0	RA DZ	0		0.0	T	29.22	30.33	7.1	32	9.9	21	28	18	29	16	
17	37	27	32	-5	20	28	33	0		0		0.0	0.00	29.49	30.56	8.4	04	9.1	24	06	21	06	17	
18	39	34	37	0	31	34	28	0	DZ SN BR	0		T	0.06	29.29	30.36	3.7	23	4.6	18	23	16	23	18	
19	45	29	37	0	26	34	28	0	BR	0		0.0	0.00	29.20	30.28	7.3	26	8.1	20	26	15	27	19	
20	44	25	35	-3	19	30	30	0		0		0.0	0.00	29.25	30.32	4.4	04	4.9	16	01	14	02	20	
21	40	36	38	0	32	36	27	0	RA DZ BR	0		0.0	0.70	29.03	30.08	3.2	03	4.2	14	32	12	32	21	
22	46	38	42	4	37	40	23	0	RA DZ FG+ FG BR	0		0.0	0.02	28.94	30.00	6.2	27	7.2	23	30	20	30	22	
23	38	29	34	-4	26	31	31	0		0		0.0	0.00	29.03	30.09	5.4	26	6.3	15	26	13	25	23	
24	47	25	36	-2	26	32	29	0	BR	0		0.0	0.00	29.05	30.11	2.9	23	3.9	13	25	10	25	24	
25	41	26	34	-4	22	30	31	0	SN BR	0		T	T	29.10	30.16	2.8	31	4.9	18	30	14	30	25	
26	46	20	33	-5	16	27	32	0		0		0.0	0.00	29.13	30.19	5.2	24	6.1	15	22	12	26	26	
27	57	31	44	6	25	37	21	0	RA	0		0.0	T	28.92	29.96	14.0	23	14.2	28	23	23	22	27	
28	47	17	32	-6	18	27	33	0	RA SN BR	0		T	0.01	28.87	29.96	10.9	28	13.1	35	31	26	27	28	
29	35	13*	24*	-14	6	19	41	0		0		0.0	0.00	29.15	30.23	5.7	23	7.6	21	23	16	23	29	
30	46	25	36	-3	12	28	29	0		0		0.0	0.00	29.03	30.10	12.6	25	13.8	33	25	28	24	30	
31	36	14	25	-14	9	21	40	0		0		0.0	0.00	29.14	30.20	3.5	02	5.7	16	32	13	34	31	
50.6		31.7	41.2	☼	29.5	36.5	23.6	0.0	< MONTHLY AVERAGES   TOTALS >			T	2.12	29.12	30.18	3.6	26	7.5	< MONTHLY AVERAGES					
4.3	2.8	3.6	<----- DEPARTURE FROM NORMAL ----->						-2.45	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
<b>DEGREE DAYS</b>								GREATEST 24-HR PRECIPITATION : 0.72 DATE : 21-22				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY				SEASON TO DATE				GREATEST 24-HR SNOWFALL : T DATE : 28+				MAXIMUM : 30.64 17 0953												
TOTAL DEPARTURE				TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.73 05 1553												
HEATING :	732	-109	2144	-132	NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 20				PRECIPITATION >= 0.01 INCH: 9							
COOLING :	0	0	0	0					MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 4							
												THUNDERSTORMS : 1				HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 0				

**JANUARY 2007  
KNOXVILLE, TN**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)  
JANUARY 2007

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													01												01	T	T	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.08	0.08	
05	0.07	0.01	T	T	T	T				0.04	0.03	0.08	05		T			0.13	0.01					T	0.08	0.37		
06													06												06	0.00	0.00	
07													07	T			T	0.10	0.23	0.10	0.05	0.04		T	T	0.54	0.54	
08	T	T	T	T									08												08	T	T	
09										0.01			09		T	T									09	0.01	0.01	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15		T	0.02	0.11	0.03	0.04	0.02	0.02	0.02	0.03	0.04	T	0.33	0.33	
16	T	T	T	T	T								16												16	T	T	
17													17												17	0.00	0.00	
18													18	0.02	0.01	0.02	0.01								18	0.06	0.06	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21	T			T	T	T	T	T	0.01	0.02	0.04	0.04	21	0.06	0.06	0.16	0.12	0.07	0.04	0.05	0.03			21	0.70	0.70		
22		T		0.01	0.01								22												22	0.02	0.02	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	T	T	
26													26												26	0.00	0.00	
27													27												27	T	T	
28	T	T	T	T	0.01	T							28	T	T	T	T							T	0.01	0.01		
29													29												29	0.00	0.00	
30													30												30	0.00	0.00	
31													31												31	0.00	0.00	

\* 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)	0.06	0.10	0.11	0.14	0.19	0.24	0.29	0.35	0.38	0.42	0.45	0.47
Ending Date	15	15	07	07	07	07	07	07	07	07	07	07
Ending Time (Hr/Min)	1551	1551	1700	1704	1712	1728	1742	1801	1822	1842	1913	1927

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.

Date and time are not entered for TRACE amounts.

# 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 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 JANUARY 2007

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:

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

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							8.00	10.00	
02							9.00	10.00	
03							6.00	10.00	
04							4.00	10.00	
05							2.00	10.00	
06							7.00	10.00	
07							2.00	10.00	
08							9.00	10.00	
09							5.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							7.00	10.00	
14							10.00	10.00	
15							1.50	10.00	
16							6.00	10.00	
17							10.00	10.00	
18							1.50	10.00	
19							4.00	10.00	
20							10.00	10.00	
21							1.75	10.00	
22							0.25	10.00	
23							8.00	10.00	
24							4.00	10.00	
25							5.00	10.00	
26							7.00	10.00	
27							10.00	10.00	
28							4.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.52	10.00	
<b>SUNSHINE (Minutes)</b>									
Total :					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25		<= 3.0			>= 7.0				
1		6			17				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2007

KTYS

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)			
			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	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: 0742														SUNRISE: 0743															
JAN 01														JAN 07															
SUNSET: 1730														SUNSET: 1735															
01	CLR	NC			10.00		52	45	48	77	9	25	28.92	29.96	01	BKN	036			10.00		53	47	50	80	5	07	29.09	30.13
04	CLR	NC			10.00		49	41	45	74	10	25	28.92	29.96	04	BKN	120			9.00		48	45	47	89	6	08	29.09	30.13
07	FEW	120			10.00		43	41	42	93	8	20	28.93	29.98	07	SCT	120			4.00	BR	45	44	45	96	6	07	29.06	30.10
10	SCT	033			10.00		50	43	47	77	13	24	28.95	29.99	10	OVC	120			8.00		51	47	49	86	6	06	28.99	30.03
13	OVC	055			10.00		49	37	43	63	17	25	28.96	30.00	13	OVC	100			4.00	-RA BR	52	50	51	93	6	36	28.88	29.92
16	OVC	038			10.00		46	36	42	68	13	27	29.02	30.07	16	OVC	044			6.00	BR	57	53	55	87	6	07	28.79	29.82
19	OVC	040			8.00		40	33	37	76	11	31	29.15	30.21	19	OVC	080			4.00	-RA BR	61	58	59	90	16	21	28.79	29.84
22	OVC	030			10.00		40	30	36	68	0	00	29.22	30.28	22	BKN	037			10.00		59	56	57	90	13	27	28.78	29.81
SUNRISE: 0743														SUNRISE: 0743															
JAN 02														JAN 08															
SUNSET: 1731														SUNSET: 1736															
01	OVC	029			10.00		38	28	34	67	8	01	29.26	30.32	01	OVC	029			10.00	-RA	55	51	53	86	13	25	28.79	29.82
04	OVC	027			10.00		38	28	34	67	11	04	29.28	30.35	04	OVC	029			10.00		47	36	42	66	26	28	28.90	29.94
07	OVC	029			10.00		37	28	33	70	14	03	29.32	30.39	07	OVC	050			10.00		43	36	40	76	7	24	28.97	30.02
10	FEW	032			10.00		41	29	36	62	15	06	29.37	30.44	10	FEW	033			10.00		42	31	37	65	16	27	29.05	30.09
13	CLR	NC			10.00		47	31	40	54	14	03	29.31	30.38	13	FEW	035			10.00		45	18	35	34	14	29	29.04	30.09
16	CLR	NC			10.00		50	31	42	48	9	04	29.30	30.37	16	CLR	NC			10.00		46	15	35	29	8	29	29.04	30.09
19	CLR	NC			10.00		42	31	37	65	5	04	29.31	30.38	19	CLR	NC			10.00		41	16	32	36	10	24	29.07	30.12
22	CLR	NC			10.00		39	30	35	70	3	02	29.32	30.39	22	CLR	NC			10.00		33	19	28	56	8	20	29.07	30.13
SUNRISE: 0743														SUNRISE: 0743															
JAN 03														JAN 09															
SUNSET: 1731														SUNSET: 1737															
01	CLR	NC			10.00		33	30	32	89	0	00	29.30	30.37	01	CLR	NC			10.00		32	20	28	61	8	23	29.05	30.11
04	CLR	NC			8.00		28	26	27	92	6	23	29.32	30.39	04	CLR	NC			10.00		34	22	30	62	9	22	29.02	30.08
07	CLR	NC			7.00		27	25	26	92	0	00	29.34	30.42	07	SCT	080			10.00		37	23	32	57	14	22	28.97	30.03
10	CLR	NC			10.00		34	31	33	89	0	00	29.38	30.45	10	OVC	039			5.00	-SN BR	36	32	34	85	13	25	29.03	30.09
13	CLR	NC			10.00		47	33	41	58	3	VR	29.31	30.38	13	BKN	043			10.00		42	34	39	73	14	26	29.04	30.10
16	CLR	NC			10.00		52	33	43	49	0	00	29.24	30.32	16	SCT	070			10.00		43	24	36	47	22	30	29.09	30.15
19	CLR	NC			10.00		45	33	40	63	0	00	29.22	30.30	19	FEW	080			10.00		37	28	33	70	9	26	29.19	30.26
22	CLR	NC			9.00		38	32	36	79	0	00	29.23	30.31	22	BKN	060			10.00		36	26	32	67	13	25	29.26	30.33
SUNRISE: 0743														SUNRISE: 0743															
JAN 04														JAN 10															
SUNSET: 1732														SUNSET: 1738															
01	CLR	NC			9.00		34	30	32	85	0	00	29.21	30.28	01	FEW	042			10.00		31	23	28	72	5	29	29.28	30.35
04	CLR	NC			8.00		33	30	32	89	3	05	29.21	30.26	04	CLR	NC			10.00		30	18	26	61	6	33	29.29	30.37
07	CLR	NC			7.00		31	29	30	92	0	00	29.21	30.27	07	CLR	NC			10.00		27	18	24	69	0	00	29.34	30.42
10	CLR	NC			10.00		40	35	38	82	0	00	29.18	30.25	10	CLR	NC			10.00		33	19	28	56	0	00	29.40	30.47
13	BKN	120			10.00		56	39	48	53	5	06	29.07	30.12	13	CLR	NC			10.00		39	13	30	34	3	07	29.38	30.45
16	SCT	110			10.00		57	41	49	55	5	07	29.02	30.07	16	CLR	NC			10.00		43	11	32	27	7	06	29.36	30.44
19	OVC	100			10.00		54	41	48	62	3	02	28.99	30.05	19	CLR	NC			10.00		38	11	29	33	3	03	29.37	30.45
22	OVC	090			10.00		53	42	48	66	7	04	28.96	30.01	22	CLR	NC			10.00		31	17	26	56	0	00	29.36	30.44
SUNRISE: 0743														SUNRISE: 0742															
JAN 05														JAN 11															
SUNSET: 1733														SUNSET: 1738															
01	OVC	042			6.00	-RA BR	49	47	48	93	0	00	28.93	29.97	01	CLR	NC			10.00		26	20	24	78	0	00	29.35	30.43
04	BKN	100			3.00	-RA BR	49	47	48	93	3	08	28.90	29.95	04	CLR	NC			10.00		25	19	23	78	3	07	29.37	30.45
07	SCT	120			2.50	BR	49	48	48	96	3	04	28.86	29.90	07	CLR	NC			10.00		25	17	23	72	0	00	29.40	30.48
10	OVC	050			2.00	RA BR	52	51	51	96	5	36	28.85	29.89	10	CLR	NC			10.00		30	23	28	75	0	00	29.43	30.51
13	BKN	090			10.00		66	60	62	81	8	20	28.75	29.78	13	CLR	NC			10.00		45	21	36	39	3	VR	29.36	30.43
16	SCT	110			10.00		68	53	59	59	16	22	28.71	29.73	16	FEW	120			10.00		49	22	38	35	0	00	29.31	30.38
19	OVC	100			10.00		58	57	57	97	6	20	28.78	29.81	19	FEW	120			10.00		43	23	35	45	0	00	29.31	30.39
22	FEW	120			10.00		55	52	53	90	10	22	28.82	29.85	22	CLR	NC			10.00		41	26	35	55	3	01	29.32	30.40
SUNRISE: 0743														SUNRISE: 0742															
JAN 06														JAN 12															
SUNSET: 1734														SUNSET: 1739															
01	BKN	042			10.00		55	52	53	90	14	22	28.84	29.87	01	CLR	NC			10.00		42	27	36	55	0	00	29.33	30.40
04	OVC	037			10.00		54	50	52	86	10	23	28.90	29.93	04	SCT	050			10.00		41	30	37	65	0	00	29.31	30.37
07	OVC	048			10.00		51	47	49	86	10	21	28.94	29.98	07	OVC	055			10.00		43	34	39	71	0	00	29.39	30.46
10	BKN	060			10.00		56	49	52	78	5	28	28.99	30.03	10	BKN	120			10.00		45	35	41	68	3	10	29.42	30.48
13	BKN	055			10.00		61	51	55	70	16	22	28.96	30.00	13	BKN	100			10.00		52	37	45	57	3	VR	29.37	30.43
16	BKN	049			10.00		62	52	56	70	9	23	28.98	30.02	16	SCT	100			10.00		56	40	48	55	0	00	29.33	30.38
19	OVC	050			10.00		57	51	54	80	6	23	29.04	30.08	19	BKN	120			10.00		52	40	46	64	0	00	29.33	30.40
22	FEW	025			7.00		54	50	52	86	3	VR	29.08	30.13	22	FEW	110			10.00		49	40	45	71	0	00	29.33	30.39

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2007

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)													
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL								
																												WEATHER	WEATHER						
<b>SUNRISE: 0742</b>						<b>JAN 13</b>						<b>SUNSET: 1740</b>						<b>SUNRISE: 0740</b>						<b>JAN 19</b>						<b>SUNSET: 1746</b>					
01	SCT	120			10.00	45	40	43	83	3	05	29.29	30.35	01	OVC	011			4.00	BR	39	37	38	93	14	23	29.15	30.22							
04	CLR	NC			10.00	46	40	43	80	3	33	29.27	30.33	04	OVC	031			5.00	BR	40	37	39	89	9	22	29.15	30.22							
07	CLR	NC			10.00	45	41	43	86	3	10	29.28	30.34	07	SCT	019			10.00		37	28	33	70	9	27	29.19	30.27							
10	SCT	110			7.00	50	44	47	80	3	09	29.30	30.36	10	SCT	050			10.00		39	28	35	65	9	29	29.25	30.32							
13	SCT	043			10.00	64	50	56	61	6	25	29.23	30.28	13	SCT	060			10.00		40	24	34	53	8	24	29.21	30.28							
16	BKN	065			10.00	68	52	59	57	14	23	29.18	30.23	16	CLR	NC			10.00		44	21	35	40	8	25	29.18	30.25							
19	BKN	120			10.00	61	51	56	70	8	25	29.21	30.25	19	CLR	NC			10.00		37	20	31	50	7	29	29.22	30.30							
22	CLR	NC			10.00	57	50	53	78	9	24	29.21	30.26	22	CLR	NC			10.00		31	19	27	61	0	00	29.24	30.32							
<b>SUNRISE: 0742</b>						<b>JAN 14</b>						<b>SUNSET: 1741</b>						<b>SUNRISE: 0740</b>						<b>JAN 20</b>						<b>SUNSET: 1747</b>					
01	FEW	070			10.00	54	48	51	80	9	21	29.19	30.23	01	CLR	NC			10.00		30	20	27	66	0	00	29.25	30.32							
04	OVC	050			10.00	56	50	53	80	7	22	29.19	30.23	04	CLR	NC			10.00		27	21	25	78	3	16	29.27	30.35							
07	OVC	050			10.00	58	51	54	78	3	23	29.21	30.25	07	CLR	NC			10.00		28	21	26	75	0	00	29.26	30.34							
10	BKN	050			10.00	65	50	57	59	13	22	29.22	30.27	10	FEW	120			10.00		36	21	31	55	8	03	29.31	30.39							
13	FEW	050			10.00	69	49	58	49	24	21	29.16	30.20	13	FEW	120			10.00		42	17	33	36	8	07	29.26	30.34							
16	SCT	120			10.00	69	48	57	47	15	24	29.11	30.14	16	SCT	120			10.00		44	16	34	32	8	36	29.21	30.29							
19	FEW	120			10.00	61	50	55	67	8	23	29.14	30.17	19	CLR	NC			10.00		40	17	32	39	5	06	29.23	30.30							
22	FEW	110			10.00	58	48	53	70	6	20	29.11	30.14	22	OVC	100			10.00		39	19	32	45	7	02	29.19	30.27							
<b>SUNRISE: 0742</b>						<b>JAN 15</b>						<b>SUNSET: 1742</b>						<b>SUNRISE: 0739</b>						<b>JAN 21</b>						<b>SUNSET: 1748</b>					
01	CLR	NC			10.00	58	49	53	72	6	19	29.07	30.10	01	BKN	120			10.00	-RA	38	20	32	48	9	03	29.14	30.19							
04	SCT	055			10.00	60	51	55	72	11	22	29.02	30.05	04	OVC	090			10.00		38	23	32	55	6	04	29.11	30.16							
07	SCT	060			10.00	63	53	57	70	15	22	29.02	30.06	07	OVC	055			10.00	-RA	36	29	33	76	6	03	29.06	30.12							
10	BKN	120			10.00	63	54	58	73	15	24	29.02	30.05	10	BKN	055			10.00	-RA	37	31	35	79	0	00	29.08	30.14							
13	OVC	065			10.00	66	51	58	59	17	22	28.97	30.01	13	OVC	046			3.00	-RA BR	38	36	37	93	9	07	29.00	30.06							
16	OVC	044			1.50	-RA BR	56	54	55	93	10	26	29.00	30.04	16	OVC	055			2.50	-RA BR	39	37	38	93	0	00	28.97	30.03						
19	OVC	110			10.00	-RA	55	53	54	93	5	20	29.00	30.03	19	OVC	006			3.00	RA BR	39	38	39	96	3	18	28.95	30.01						
22	OVC	075			10.00	-RA	56	53	54	90	9	23	28.99	30.03	22	OVC	005			5.00	BR	40	38	39	93	0	00	28.96	30.02						
<b>SUNRISE: 0741</b>						<b>JAN 16</b>						<b>SUNSET: 1743</b>						<b>SUNRISE: 0739</b>						<b>JAN 22</b>						<b>SUNSET: 1749</b>					
01	OVC	023			6.00	-RA BR	46	43	45	89	13	28	29.04	30.08	01	OVC	005			2.50	BR	40	39	40	96	3	05	28.92	29.98						
04	OVC	037			10.00	-RA	43	38	41	83	9	26	29.11	30.15	04	OVC	002			0.75	-RA BR	41	40	41	96	0	00	28.92	29.98						
07	OVC	014			10.00		39	35	37	86	8	28	29.16	30.22	07	OVC	001			0.25	FG	42	41	42	96	7	21	28.94	29.99						
10	OVC	016			10.00		36	31	34	82	8	29	29.24	30.30	10	OVC	037			4.00	BR	44	42	43	93	7	28	28.96	30.01						
13	OVC	020			10.00		36	28	33	73	9	35	29.28	30.35	13	OVC	029			9.00		45	41	43	86	8	28	28.93	29.98						
16	OVC	022			10.00		34	26	31	73	9	36	29.28	30.35	16	OVC	025			10.00		43	36	40	76	11	29	28.93	29.98						
19	OVC	030			10.00		32	22	28	67	7	35	29.40	30.47	19	OVC	039			10.00		41	32	37	70	15	29	28.96	30.02						
22	OVC	030			10.00		32	21	28	64	8	02	29.46	30.54	22	OVC	034			10.00		39	30	35	70	9	28	29.01	30.07						
<b>SUNRISE: 0741</b>						<b>JAN 17</b>						<b>SUNSET: 1744</b>						<b>SUNRISE: 0738</b>						<b>JAN 23</b>						<b>SUNSET: 1750</b>					
01	OVC	034			10.00		31	21	28	66	13	02	29.48	30.56	01	OVC	038			10.00		37	28	33	70	8	29	29.00	30.06						
04	CLR	NC			10.00		29	19	26	66	15	03	29.47	30.55	04	OVC	038			10.00		36	26	32	67	8	30	29.00	30.06						
07	SCT	035			10.00		27	18	24	69	8	02	29.51	30.60	07	OVC	032			10.00		34	26	31	73	7	26	29.03	30.09						
10	SCT	120			10.00		30	18	26	61	13	04	29.55	30.64	10	OVC	030			10.00		35	25	31	67	7	29	29.08	30.14						
13	SCT	120			10.00		35	20	30	54	13	08	29.51	30.59	13	OVC	026			10.00		37	26	33	65	6	23	29.07	30.13						
16	SCT	120			10.00		37	18	30	46	8	04	29.47	30.55	16	FEW	026			10.00		37	26	33	65	7	27	29.01	30.07						
19	SCT	120			10.00		35	21	30	57	6	07	29.46	30.54	19	FEW	025			10.00		34	27	31	76	5	24	29.01	30.08						
22	SCT	100			10.00		33	22	29	64	3	08	29.40	30.48	22	CLR	NC			9.00		30	26	29	85	5	20	29.04	30.10						
<b>SUNRISE: 0741</b>						<b>JAN 18</b>						<b>SUNSET: 1745</b>						<b>SUNRISE: 0738</b>						<b>JAN 24</b>						<b>SUNSET: 1751</b>					
01	OVC	120			10.00		35	24	31	64	0	00	29.38	30.45	01	CLR	NC			8.00		28	24	27	85	0	00	29.03	30.10						
04	OVC	060			10.00		34	26	31	73	3	09	29.36	30.44	04	CLR	NC			5.00	BR	27	24	26	88	7	15	29.02	30.08						
07	OVC	065			10.00		35	26	32	70	5	15	29.38	30.46	07	BKN	024			5.00	BR	26	24	25	92	0	00	29.05	30.12						
10	OVC	027			10.00		36	25	32	64	0	00	29.37	30.44	10	CLR	NC			5.00	BR	32	29	31	89	5	23	29.08	30.15						
13	OVC	005			2.50	-DZ BR	35	33	34	92	3	22	29.31	30.38	13	CLR	NC			10.00		41	29	36	62	3	VR	29.07	30.14						
16	OVC	015			3.00	BR	37	35	36	93	5	23	29.23	30.31	16	CLR	NC			10.00		46	26	38	46	5	VR	29.03	30.09						
19	OVC	022			8.00		37	35	36	93	8	24	29.18	30.25	19	CLR	NC			10.00		42	27	36	55	5	22	29.03	30.10						
22	OVC	004			4.00	BR	38	36	37	93	11	24	29.18	30.24	22	FEW	120			10.00		38	27	34	65	6	29	29.06	30.12						

# OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JANUARY 2007

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			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			
<b>SUNRISE: 0737</b>						<b>JAN 25</b>						<b>SUNSET: 1752</b>					
01	CLR	NC			10.00			31	25	29	78	0	00	29.07	30.13		
04	SCT	060			8.00			30	26	29	85	0	00	29.06	30.12		
07	OVC	050			9.00			31	27	30	85	0	00	29.06	30.12		
10	BKN	046			10.00			35	29	33	79	6	23	29.10	30.16		
13	BKN	046			10.00			39	22	33	51	9	34	29.09	30.16		
16	SCT	050			10.00			41	17	32	38	7	33	29.07	30.14		
19	CLR	NC			10.00			35	14	28	42	6	VR	29.13	30.20		
22	CLR	NC			10.00			30	15	25	54	6	35	29.18	30.25		
<b>SUNRISE: 0737</b>						<b>JAN 26</b>						<b>SUNSET: 1753</b>					
01	CLR	NC			10.00			28	16	24	61	6	36	29.18	30.25		
04	CLR	NC			10.00			25	16	22	69	3	25	29.18	30.24		
07	CLR	NC			9.00			21	15	19	78	3	21	29.18	30.25		
10	CLR	NC			10.00			29	18	25	63	7	24	29.19	30.27		
13	CLR	NC			10.00			39	14	31	36	7	26	29.14	30.21		
16	CLR	NC			10.00			45	16	35	31	9	23	29.08	30.14		
19	CLR	NC			10.00			38	17	31	43	7	23	29.05	30.11		
22	CLR	NC			10.00			35	16	29	46	8	23	29.02	30.09		
<b>SUNRISE: 0736</b>						<b>JAN 27</b>						<b>SUNSET: 1755</b>					
01	CLR	NC			10.00			32	17	27	54	9	24	29.00	30.06		
04	CLR	NC			10.00			39	17	31	41	14	24	29.01	30.06		
07	CLR	NC			10.00			36	19	30	50	13	22	28.97	30.03		
10	FEW	050			10.00			49	23	39	36	16	21	28.97	30.03		
13	SCT	120			10.00			54	26	42	34	16	21	28.85	29.90		
16	SCT	120			10.00			54	27	42	35	15	22	28.82	29.87		
19	BKN	120			10.00			51	29	41	43	15	22	28.84	29.88		
22	OVC	080			10.00			47	35	42	63	13	22	28.84	29.88		
<b>SUNRISE: 0735</b>						<b>JAN 28</b>						<b>SUNSET: 1756</b>					
01	OVC	031			10.00			45	37	41	74	17	23	28.81	29.85		
04	OVC	015			10.00			39	34	37	82	10	28	28.79	29.83		
07	OVC	029			10.00			33	22	29	64	10	01	28.84	29.89		
10	BKN	039			10.00			32	19	28	59	10	29	28.89	29.94		
13	BKN	050			10.00			35	17	29	48	16	29	28.86	29.91		
16	OVC	060			10.00			32	13	26	45	17	27	28.87	29.93		
19	FEW	060			10.00			28	6	22	39	17	27	28.94	30.01		
22	FEW	032			10.00			20	4	16	50	15	28	29.08	30.16		
<b>SUNRISE: 0735</b>						<b>JAN 29</b>						<b>SUNSET: 1757</b>					
01	FEW	039			10.00			16	4	13	59	3	27	29.18	30.26		
04	SCT	035			10.00			14	4	12	64	5	07	29.16	30.25		
07	CLR	NC			10.00			13	3	11	64	3	14	29.18	30.27		
10	CLR	NC			10.00			18	6	15	59	8	22	29.24	30.34		
13	CLR	NC			10.00			28	10	23	47	8	24	29.18	30.27		
16	CLR	NC			10.00			35	6	26	29	13	23	29.09	30.17		
19	SCT	048			10.00			29	8	23	41	8	23	29.06	30.15		
22	OVC	044			10.00			33	9	26	36	9	24	29.08	30.16		
<b>SUNRISE: 0734</b>						<b>JAN 30</b>						<b>SUNSET: 1758</b>					
01	BKN	046			10.00			30	10	24	43	7	24	29.10	30.17		
04	OVC	046			10.00			34	10	27	37	10	23	29.05	30.12		
07	OVC	060			10.00			31	12	25	45	7	23	29.04	30.11		
10	SCT	060			10.00			38	16	30	41	21	22	29.05	30.12		
13	FEW	060			10.00			43	19	34	38	20	25	29.02	30.08		
16	FEW	040			10.00			45	13	34	27	22	25	28.95	30.01		
19	CLR	NC			10.00			38	7	28	27	11	29	29.00	30.07		
22	CLR	NC			10.00			29	12	24	49	11	29	29.08	30.15		

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)						
			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			
<b>SUNRISE: 0733</b>						<b>JAN 31</b>						<b>SUNSET: 1759</b>					
01	CLR	NC			10.00			23	9	19	55	9	33	29.16	30.24		
04	CLR	NC			10.00			18	7	15	62	5	35	29.18	30.25		
07	CLR	NC			10.00			16	6	14	64	9	04	29.19	30.28		
10	CLR	NC			10.00			20	7	17	57	9	03	29.21	30.29		
13	CLR	NC			10.00			29	8	23	41	5	06	29.15	30.24		
16	CLR	NC			10.00			35	9	27	34	0	00	29.04	30.11		
19	BKN	100			10.00			32	11	26	42	5	29	29.05	30.13		
22	OVC	080			10.00			31	13	25	47	6	17	29.02	30.10		

## 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.

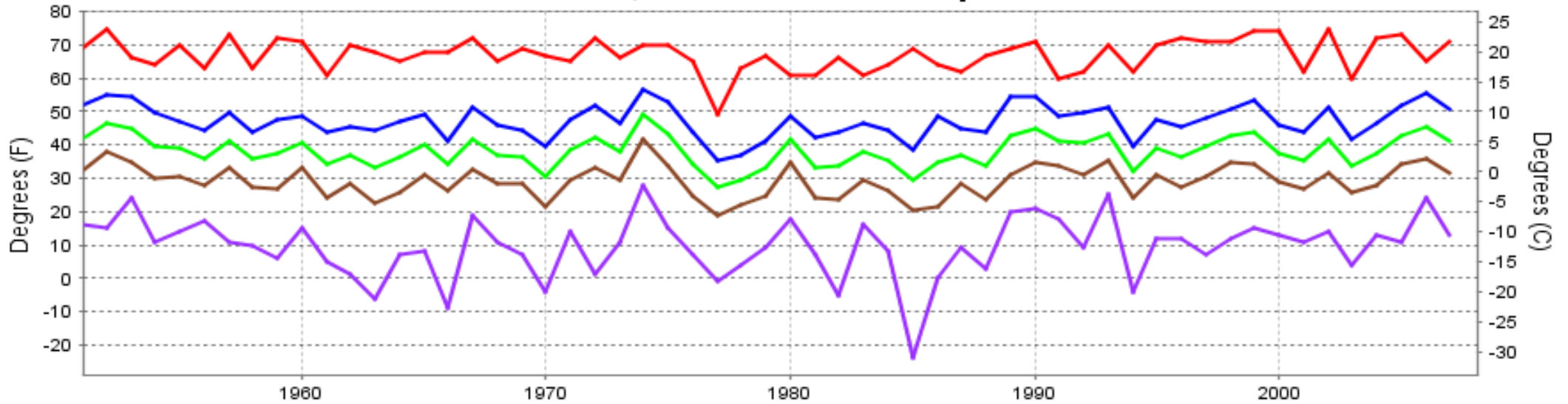
& = Original observation contained additional weather elements.

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 (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			38	30	35	73	29.12	30.18	9.21	6	4	27
02			38	30	35	73	29.12	30.18	9.16	6	4	27
03			38	29	35	73	29.12	30.18	9.13	7	2	27
04			37	29	34	74	29.12	30.18	8.93	7	3	27
05			37	29	34	75	29.12	30.18	8.77	6	3	27
06			36	29	33	75	29.13	30.19	8.94	6	3	27
07			36	29	33	76	29.14	30.20	8.83	6	2	28
08			36	29	33	76	29.15	30.21	8.90	6	3	27
09			37	30	34	74	29.16	30.22	8.79	7	3	27
10			40	30	36	70	29.17	30.23	9.06	8	4	27
11			42	31	38	66	29.17	30.23	8.97	9	5	27
12			44	30	38	61	29.15	30.21	9.11	9	6	27
13			46	30	40	58	29.12	30.18	9.31	10	4	27
14			47	30	40	56	29.10	30.16	9.06	10	5	27
15			47	30	40	54	29.09	30.15	9.15	9	6	27
16			47	29	40	53	29.09	30.15	9.13	9	6	27
17			47	29	40	54	29.09	30.15	9.19	9	5	27
18			44	29	39	58	29.10	30.16	9.21	9	5	27
19			43	29	38	61	29.11	30.17	9.45	7	5	27
20			42	30	37	64	29.12	30.18	9.61	6	4	27
21			41	30	37	65	29.13	30.19	9.61	7	4	27
22			40	29	36	67	29.13	30.19	9.48	6	4	27
23			40	29	36	68	29.13	30.19	9.65	7	4	27
24			39	29	35	70	29.13	30.19	9.26	7	3	27

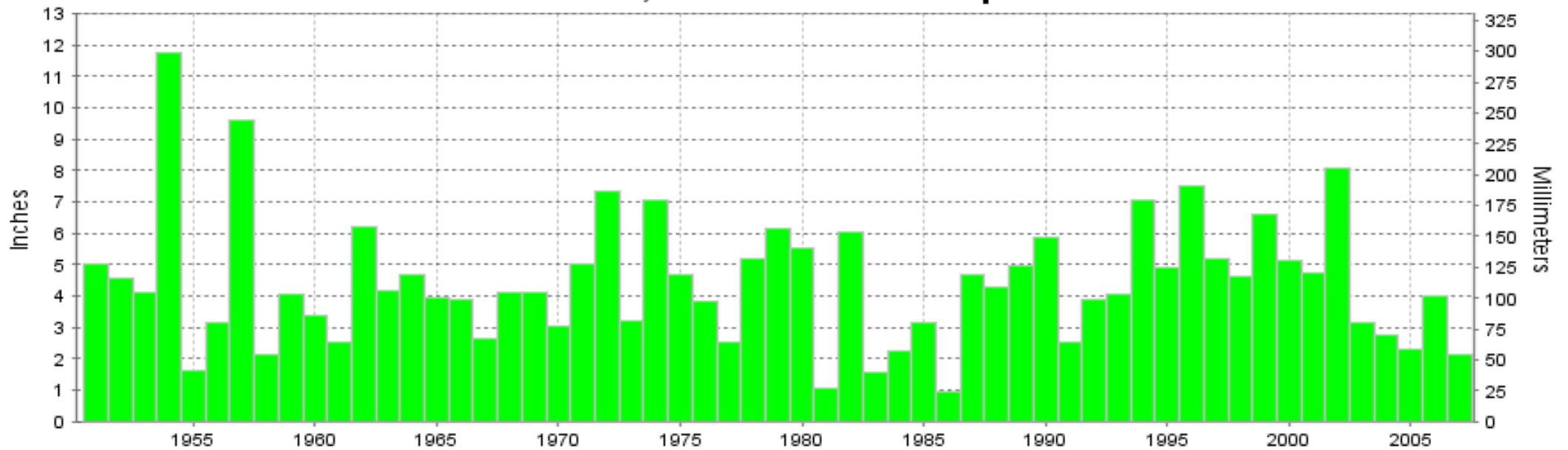
## KNOXVILLE, TN JANUARY Temperatures



— Extreme Max   
 — Mean Max   
 — Mean   
 — Mean Min   
 — Extreme Min

**Long-Term (1951-2007) Mean: 38.2**  
**1971-2000 Normal: 37.6**

## KNOXVILLE, TN JANUARY Precipitation



Long-Term (1951-2007) Mean Monthly Total: 4.44

1971-2000 Normal: 4.57



**JANUARY 2007  
KNOXVILLE, TN**

**LOCAL CLIMATOLOGICAL DATA  
NOAA, National Climatic Data Center**

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