



# JANUARY 2014 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						
																			3-SEC		2-MIN				
20	21	22	23	24																					
01	48	22	35	-3	25	31	30	0		0		0.0	0.00	29.21	30.26	0.5	04	0.6	8	27	4	33	01		
02	42	22	32	-6	29	32	33	0	RA SN BR	0		0	0.62	28.89	29.96	6.2	29	9.4	36	27	26	27	02		
03	29	16	23	-15	8	18	42	0	SN	0		0	0	29.28	30.39	6.2	01	6.9	26	01	20	01	03		
04	48	15	32	-6	19	25	33	0		0		0.0	0.00	29.21	30.29	1.9	22	2.7	25	20	18	20	04		
05	60	26	43	5	36	40	22	0	RA DZ FZDZ BR	0		0	0.25	28.92	29.92	7.9	21	9.3	43*	27	33*	27	05		
06	39	6	23	-14	7	14	42	0	RA SN FG FZFG BR	1		0.7	0.12	29.07	30.21	14.5	27	14.9	31	28	25	28	06		
07	16	2	9*	-28	-2	7	56	0	SN	0		0	0	29.41	30.54	3.8	25	4.4	22	26	17	27	07		
08	36	9	23	-14	11	19	42	0		0		0.0	0.00	29.41	30.53	3.3	03	3.5	16	36	9	01	08		
09	50	22	36	-1	22	31	29	0		0		0.0	0.00	29.36	30.43	0.9	05	1.1	9	05	6	34	09		
10	51	37	44	7	40	42	21	0	RA BR	0		0.0	0.08	29.13	30.16	1.0	03	2.0		6		27	10		
11	60*	43	52*	15	44	48	13	0	TS TSRA RA FG+ FG BR	0		0.0	1.34	28.71	29.74	8.2	24	10.4	33	28	25	22	11		
12	55	34	45	8	32	39	20	0		0		0.0	0.00	29.00	30.07	4.8	23	5.2	14	20	12	19	12		
13	46	30	38	1	36	38	27	0	RA BR	0		0.0	0.12	28.95	29.99	1.0	05	1.5	10	10	8	32	13		
14	54	40	47	10	37	42	18	0	RA BR	0		0.0	0.34	28.84	29.90	4.7	23	6.1	18	25	15	23	14		
15	46	30	38	1	26	33	27	0	RA SN BR	0		0	0.08	28.94	30.01	3.3	30	5.3	22	31	16	28	15		
16	42	20	31	-6	16	27	34	0		0		0.0	0.00	28.94	30.00	6.9	23	7.8	23	23	18	24	16		
17	45	26	36	-1	20	31	29	0	SN	0		0	0	28.87	29.95	12.3	26	13.0	33	22	26	23	17		
18	40	20	30	-7	12	25	35	0		0		0.0	0.00	28.98	30.05	9.3	24	9.9	23	23	17	22	18		
19	47	36	42	5	23	34	23	0		0		0.0	0.00	28.92	29.99	10.0	23	10.9	23	22	18	22	19		
20	59	34	47	9	25	37	18	0		0		0.0	0.00	28.88	29.92	9.8	23	10.2	24	21	20	23	20		
21	50	19	35	-3	23	31	30	0	RA SN FG BR	0		0	0.02	28.78	29.86	9.5	28	12.5	32	27	25	28	21		
22	27	10	19	-19	1	15	46	0	SN	0		0	0	29.04	30.14	3.2	30	6.2		10	35	22			
23	28	14	21	-17	3	17	44	0		0		0.0	0.00	29.26	30.40	6.4	27	8.8	24	29	20	29	23		
24	28	5	17	-21	-2	12	48	0		0		0.0	0.00	29.44	30.51	2.4	27	5.6	21	23	18	24	24		
25	38	22	30	-8	6	24	35	0	SN	0		0	0	28.87	29.92	17.8	23	18.0	38	21	29	22	25		
26	54	21	38	0	20	32	27	0		0		0.0	0.00	28.84	29.88	10.5	23	11.0	39	21	31	22	26		
27	51	21	36	-2	15	31	29	0	RA	0		0.0	0	28.91	30.01	5.7	32	11.7	24	01	21	23	27		
28	21	13	17	-21	7	15	48	0	SN BR	4		3.5	0.15	29.20	30.29	9.2	01	9.4	24	03	20	03	28		
29	26	-1*	13	-25	-1	11	52	0		4		0.0	0.00	29.27	30.38	3.4	03	3.9	10	05	9	35	29		
30	36	2	19	-20	7	16	46	0		0		0.0	0.00	29.21	30.28	0.8	10	1.2	8	13	7	13	30		
31	50	18	34	-5	17	27	31	0		0		0.0	0.00	29.12	30.19	1.2	04	1.3	9	02	8	02	31		
										< MONTHLY AVERAGES   TOTALS >								< MONTHLY AVERAGES							
										-4.7 -8.7 -6.7				DEPARTURE FROM NORMAL		-1.20		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3							
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.37 DATE : 10-11				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY										GREATEST 24-HR SNOWFALL : 3.5 DATE : 28				MAXIMUM : 30.69				24 0458							
TOTAL DEPARTURE										GREATEST SNOW DEPTH : 4 DATE : 29+				MINIMUM : 29.62				11 1553							
SEASON TO DATE										NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 25				PRECIPITATION >= 0.01 INCH : 10			
TOTAL DEPARTURE														MAXIMUM TEMP <= 32 : 7				MINIMUM TEMP <= 0 : 1				PRECIPITATION >= 0.10 INCH : 7			
HEATING : 1030 201 2389 127														THUNDERSTORMS : 1				HEAVY FOG : 1				SNOWFALL >= 1.0 INCH : 1			
COOLING : 0 0 0 0																									

JANUARY 2014  
KNOXVILLE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)  
JANUARY 2014

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	0.00	0.00	
02			T	T	0.01	0.02	0.07	0.14	0.08	0.08	0.05	T	02	0.12	0.04	0.01			T	T	T	T	T	T	02	0.62	0.62	
03	T	T	T				T	T	T	T			03												03	T	T	
04													04												04	0.00	0.00	
05					T	T	T	T					05							T	0.03	0.08	0.14	05	0.25	0.25		
06	0.04	0.08	T			T	T	T	T	T	T	T	06		T	T	T							06	0.12	0.12		
07	T	T	T										07											07	T	T		
08													08											08	0.00	0.00		
09													09											09	0.00	0.00		
10	T	T	0.01	T	T	0.03	0.01	T	T				10							T	0.01	0.02	T	10	0.08	0.08		
11		0.06	0.08	0.04		T	0.41	0.33	0.26	0.13	0.01	0.01	11	0.01										11	1.34	1.34		
12													12											12	0.00	0.00		
13													13		T	0.02	0.01	0.02	0.03	0.03	T	T	T	0.01	T	13	0.12	0.12
14	T	T	0.08	0.12	0.05	0.06	0.03	T					14											14	0.34	0.34		
15				T	0.03	0.03	0.02						15								T	T		15	0.08	0.08		
16													16											16	0.00	0.00		
17		T	T										17											17	T	T		
18													18											18	0.00	0.00		
19													19											19	0.00	0.00		
20													20											20	0.00	0.00		
21				T	T								21			0.02	T			T	T	T	T	21	0.02	0.02		
22	T	T											22								T	T	T	22	T	T		
23													23											23	0.00	0.00		
24													24											24	0.00	0.00		
25											T		25	T										25	T	T		
26													26											26	0.00	0.00		
27				T	T	T	T	T	T	T			27											27	T	T		
28											T	0.03	0.02	28	0.02	0.01	0.01	0.01	0.02	0.01	0.01	0.01	0.01	T	T	28	0.15	0.15
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)	0.10	0.17	0.21	0.26	0.35	0.50	0.58	0.67	0.73	0.79	0.95	1.06
Ending Date	11	11	11	11	11	11	11	11	11	11	11	11
Ending Time (Hr/Min)	0646	0650	0655	0650	0711	0715	0722	0742	0803	0820	0852	0919

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.

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).

## 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	
VC In the Vicinity	UP Unkown Precipitation		GL Glaze

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

# KNOXVILLE, TN JANUARY 2014

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet.

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.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

**NORMALS ARE FOR THE YEARS 1981-2010**

### ADDITIONAL NOTES & ERRATA:

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	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	7.00	10.00
02	1.25	10.00
03	9.00	10.00
04	9.00	10.00
05	4.00	10.00
06	0.50	10.00
07	9.00	10.00
08	10.00	10.00
09	10.00	10.00
10	1.50	10.00
11	0.25	10.00
12	10.00	10.00
13	3.00	10.00
14	0.75	10.00
15	4.00	10.00
16	10.00	10.00
17	9.00	10.00
18	10.00	10.00
19	10.00	10.00
20	10.00	10.00
21	5.00	10.00
22	9.00	10.00
23	10.00	10.00
24	10.00	10.00
25	9.00	10.00
26	10.00	10.00
27	10.00	10.00
28	0.50	10.00
29	10.00	10.00
30	10.00	10.00
31	8.00	10.00
<b>AVGS</b>	7.09	10.00
<b>MINIMUM VISIBILITY (MILES)</b>		
	<b>&lt;= .25</b>	<b>&lt;= 3.0</b>
		<b>&gt;= 7.0</b>
1	7	21

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN JANUARY 2014 KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
					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				
<b>SUNRISE: 0746</b>					<b>JAN 01</b>					<b>SUNSET: 1733</b>					<b>SUNRISE: 0746</b>					<b>JAN 07</b>					<b>SUNSET: 1738</b>				
01	SCT	250	10.00		27	24	26	89	0	00	29.26	30.34	01	BKN	034	9.00	-SN	6	-4	4	63	11	27	29.39	30.50				
04	BKN	250	8.00		26	22	25	84	0	00	29.26	30.34	04	SCT	030	10.00		3	-9	1	57	7	27	29.42	30.54				
07	SCT	250	10.00		25	21	24	85	3	03	29.25	30.33	07	CLR	NC	10.00		2	-7	1	65	3	26	29.43	30.54				
10	BKN	250	8.00		29	25	28	85	0	00	29.28	30.36	10	FEW	005	10.00		6	-7	4	54	9	25	29.52	30.65				
13	SCT	250	10.00		41	26	35	55	0	00	29.21	30.28	13	FEW	150	10.00		10	-4	7	53	0	00	29.42	30.53				
16	BKN	250	10.00		48	28	40	46	3	33	29.13	30.20	16	FEW	250	10.00		16	-1	12	47	0	00	29.41	30.52				
19	BKN	250	10.00		40	28	35	63	0	00	29.10	30.17	19	FEW	250	10.00		14	-0	11	53	0	00	29.39	30.50				
22	OVC	250	10.00		35	28	32	76	0	00	29.07	30.14	22	CLR	NC	10.00		13	3	11	64	3	20	29.42	30.53				
<b>SUNRISE: 0746</b>					<b>JAN 02</b>					<b>SUNSET: 1734</b>					<b>SUNRISE: 0746</b>					<b>JAN 08</b>					<b>SUNSET: 1739</b>				
01	OVC	030	10.00		34	29	32	82	3	05	29.01	30.07	01	CLR	NC	10.00		13	4	11	67	0	00	29.40	30.51				
04	OVC	065	10.00	-RA	35	30	33	82	3	08	28.93	29.98	04	CLR	NC	10.00		10	6	9	84	0	00	29.45	30.56				
07	OVC	027	2.00	+RA BR	35	33	34	93	0	00	28.87	29.93	07	CLR	NC	10.00		10	5	9	80	6	03	29.45	30.56				
10	OVC	011	2.50	RA BR	36	35	36	97	5	05	28.82	29.88	10	SCT	250	10.00		17	9	15	70	3	02	29.51	30.61				
13	OVC	002	1.25	-RA BR	38	37	38	97	0	00	28.73	29.78	13	OVC	250	10.00		29	12	24	49	3	04	29.43	30.53				
16	OVC	090	10.00		39	33	36	79	22	25	28.79	29.84	16	BKN	250	10.00		35	17	29	48	3	04	29.40	30.50				
19	OVC	030	9.00	-SN	28	21	26	75	17	27	28.95	30.01	19	OVC	250	10.00		29	16	25	58	7	03	29.38	30.48				
22	OVC	050	8.00	-SN	23	15	21	72	15	29	29.06	30.13	22	OVC	250	10.00		29	16	25	58	6	01	29.39	30.49				
<b>SUNRISE: 0746</b>					<b>JAN 03</b>					<b>SUNSET: 1735</b>					<b>SUNRISE: 0746</b>					<b>JAN 09</b>					<b>SUNSET: 1740</b>				
01	OVC	037	9.00	-SN	22	10	19	60	13	33	29.15	30.22	01	OVC	250	10.00		28	16	24	60	0	00	29.40	30.48				
04	SCT	035	10.00		18	6	15	59	8	01	29.23	30.32	04	BKN	090	10.00		25	20	23	81	5	02	29.39	30.47				
07	BKN	029	10.00	-SN	17	7	15	64	8	01	29.29	30.39	07	BKN	250	10.00		25	18	23	75	0	00	29.42	30.50				
10	SCT	023	10.00		20	8	17	60	10	01	29.36	30.45	10	BKN	250	10.00		32	21	28	64	3	07	29.44	30.53				
13	FEW	032	10.00		25	10	21	53	9	05	29.35	30.45	13	SCT	250	10.00		44	23	36	43	0	00	29.33	30.41				
16	CLR	NC	10.00		29	9	23	43	5	03	29.32	30.41	16	BKN	200	10.00		50	22	39	33	0	00	29.31	30.38				
19	CLR	NC	10.00		24	8	20	50	6	01	29.31	30.41	19	OVC	047	10.00		44	24	36	45	5	07	29.30	30.37				
22	CLR	NC	10.00		23	10	19	57	0	00	29.29	30.39	22	OVC	045	10.00		42	26	36	53	0	00	29.31	30.38				
<b>SUNRISE: 0746</b>					<b>JAN 04</b>					<b>SUNSET: 1736</b>					<b>SUNRISE: 0746</b>					<b>JAN 10</b>					<b>SUNSET: 1741</b>				
01	CLR	NC	10.00		20	11	18	68	0	00	29.25	30.35	01	OVC	040	10.00	-RA	40	30	36	68	0	00	29.25	30.32				
04	CLR	NC	10.00		17	13	16	84	0	00	29.27	30.36	04	OVC	065	10.00	-RA	39	34	37	82	0	00	29.24	30.30				
07	CLR	NC	10.00		17	13	16	84	0	00	29.27	30.37	07	OVC	035	5.00	-RA BR	37	34	36	89	0	00	29.22	30.29				
10	CLR	NC	10.00		25	17	23	72	0	00	29.29	30.38	10	OVC	026	9.00		41	37	39	86	5	05	29.22	30.29				
13	CLR	NC	10.00		36	17	29	46	0	00	29.21	30.29	13	OVC	055	10.00		47	42	45	83	5	01	29.11	30.16				
16	SCT	250	10.00		48	30	40	50	18	20	29.15	30.22	16	OVC	250	10.00		51	44	48	77	3	06	29.01	30.06				
19	CLR	NC	10.00		40	28	35	63	0	00	29.12	30.19	19	OVC	250	10.00		48	43	46	83	0	00	28.96	30.01				
22	CLR	NC	10.00		31	23	28	72	3	04	29.11	30.18	22	OVC	035	8.00	-RA	47	45	46	93	6	27	28.95	30.00				
<b>SUNRISE: 0746</b>					<b>JAN 05</b>					<b>SUNSET: 1736</b>					<b>SUNRISE: 0746</b>					<b>JAN 11</b>					<b>SUNSET: 1742</b>				
01	CLR	NC	10.00		30	22	27	72	3	28	29.10	30.16	01	OVC	002	1.00	BR	46	45	46	96	3	05	28.84	29.89				
04	OVC	060	10.00		30	24	28	79	0	00	29.07	30.13	04	OVC	050	0.50	-RA BR	45	45	45	100	0	00	28.73	29.77				
07	OVC	012	10.00	-DZ	33	29	31	85	0	00	29.05	30.11	07	OVC	048	6.00	+RA BR	52	51	51	97	14	26	28.66	29.69				
10	BKN	043	10.00		36	31	34	82	0	00	29.01	30.08	10	OVC	080	4.00	-RA BR	56	54	55	93	11	19	28.69	29.72				
13	BKN	250	10.00		46	36	42	68	3	25	28.87	29.93	13	BKN	080	10.00		58	53	55	84	16	22	28.66	29.69				
16	BKN	200	10.00		59	42	50	54	11	21	28.73	29.77	16	SCT	200	10.00		59	45	52	60	16	22	28.59	29.62				
19	OVC	040	10.00		57	45	51	64	20	20	28.67	29.71	19	BKN	080	10.00		53	35	45	51	14	27	28.69	29.72				
22	OVC	048	8.00	-RA	54	50	52	87	22	20	28.59	29.62	22	SCT	140	10.00		48	35	42	61	9	27	28.84	29.87				
<b>SUNRISE: 0746</b>					<b>JAN 06</b>					<b>SUNSET: 1737</b>					<b>SUNRISE: 0746</b>					<b>JAN 12</b>					<b>SUNSET: 1743</b>				
01	OVC	030	2.00	-SN BR	33	31	32	92	18	26	28.81	29.85	01	BKN	100	10.00		43	34	39	71	10	28	28.91	29.96				
04	OVC	030	10.00		27	21	25	78	15	28	28.93	29.98	04	SCT	060	10.00		38	33	36	83	7	23	28.95	29.99				
07	OVC	025	9.00	-SN	21	14	19	74	14	27	29.04	30.09	07	CLR	NC	10.00		35	31	33	85	3	19	28.98	30.03				
10	OVC	041	9.00		18	11	16	74	17	27	29.10	30.16	10	CLR	NC	10.00		43	36	40	76	7	20	29.09	30.14				
13	SCT	200	10.00		13	2	11	61	17	28	29.15	30.23	13	CLR	NC	10.00		51	34	43	52	7	21	29.05	30.10				
16	FEW	039	10.00		13	-3	10	49	15	26	29.21	30.30	16	CLR	NC	10.00		55	32	45	42	7	20	29.02	30.07				
19	FEW	030	10.00		9	-6	6	50	14	26	29.29	30.39	19	CLR	NC	10.00		49	29	40	46	3	22	29.06	30.11				
22	SCT	045	10.00		7	-4	5	60	8	24	29.34	30.45	22	CLR	NC	10.00		41	30	36	65	0	00	29.06	30.11				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN JANUARY 2014 KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)					
					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				
<b>SUNRISE: 0746</b>					<b>JAN 13</b>					<b>SUNSET: 1744</b>					<b>SUNRISE: 0744</b>					<b>JAN 19</b>					<b>SUNSET: 1749</b>				
01	SCT	250	10.00		36	29	33	76	0	00	29.04	30.09	01	OVC	120	10.00		37	16	30	42	8	23	28.84	29.89				
04	SCT	250	10.00		36	29	33	76	0	00	29.03	30.08	04	OVC	110	10.00		41	17	32	38	11	23	28.84	29.88				
07	BKN	250	10.00		33	30	32	89	5	06	28.97	30.03	07	OVC	065	10.00		41	19	33	41	8	25	28.88	29.93				
10	BKN	180	10.00		39	32	36	76	0	00	29.02	30.08	10	FEW	044	10.00		42	24	35	49	11	27	28.97	30.03				
13	OVC	150	10.00		46	37	42	71	0	00	28.93	29.99	13	BKN	040	10.00		45	27	38	49	14	29	29.00	30.05				
16	OVC	080	10.00	-RA	44	41	43	89	5	09	28.85	29.91	16	CLR	NC	10.00		46	26	38	46	10	20	28.98	30.03				
19	OVC	044	9.00	-RA	43	41	42	93	0	00	28.85	29.91	19	CLR	NC	10.00		36	24	32	62	7	20	28.98	30.03				
22	OVC	035	6.00	-RA BR	43	41	42	93	0	00	28.84	29.88	22	CLR	NC	10.00		37	25	32	62	13	22	28.96	30.01				
<b>SUNRISE: 0746</b>					<b>JAN 14</b>					<b>SUNSET: 1745</b>					<b>SUNRISE: 0744</b>					<b>JAN 20</b>					<b>SUNSET: 1750</b>				
01	OVC	006	3.00	-RA BR	42	41	42	96	3	05	28.78	29.82	01	CLR	NC	10.00		36	24	32	62	10	22	28.93	29.98				
04	OVC	011	1.00	-RA BR	42	41	42	96	0	00	28.77	29.81	04	CLR	NC	10.00		36	23	31	59	13	22	28.93	29.99				
07	OVC	100	3.00	-RA BR	43	41	42	93	3	02	28.82	29.87	07	CLR	NC	10.00		37	20	31	50	8	23	28.92	29.98				
10	SCT	040	7.00		46	44	45	93	3	21	28.88	29.93	10	FEW	250	10.00		47	24	38	41	13	24	28.92	29.98				
13	SCT	034	10.00		51	35	44	54	10	25	28.88	29.93	13	FEW	250	10.00		56	26	43	32	13	22	28.86	29.91				
16	CLR	NC	10.00		54	32	44	43	9	21	28.86	29.91	16	FEW	250	10.00		59	27	45	29	14	22	28.82	29.86				
19	FEW	250	10.00		45	29	38	54	7	19	28.89	29.95	19	FEW	250	10.00		53	26	42	35	6	26	28.82	29.86				
22	SCT	250	10.00		43	30	38	60	6	21	28.90	29.96	22	CLR	NC	10.00		44	28	37	53	9	25	28.81	29.85				
<b>SUNRISE: 0745</b>					<b>JAN 15</b>					<b>SUNSET: 1746</b>					<b>SUNRISE: 0743</b>					<b>JAN 21</b>					<b>SUNSET: 1752</b>				
01	BKN	150	10.00		44	32	39	63	9	22	28.87	29.92	01	CLR	NC	10.00		42	27	36	55	7	21	28.75	29.78				
04	OVC	025	10.00	-RA	42	34	39	73	6	26	28.93	29.98	04	OVC	075	10.00	-RA	49	29	40	46	13	22	28.67	29.70				
07	OVC	070	7.00	-RA	35	33	34	93	5	13	28.97	30.03	07	BKN	150	10.00		43	28	37	56	9	25	28.67	29.70				
10	BKN	100	10.00		38	33	36	83	0	00	28.99	30.05	10	SCT	070	10.00		43	29	37	58	18	27	28.73	29.77				
13	OVC	100	10.00		41	28	36	60	0	00	28.93	29.98	13	BKN	050	10.00		42	25	35	51	14	30	28.73	29.78				
16	SCT	035	10.00		43	14	33	31	5	27	28.91	29.96	16	BKN	065	10.00		33	25	30	72	13	30	28.82	29.87				
19	BKN	060	10.00		35	18	29	50	10	33	28.98	30.04	19	OVC	030	9.00	-SN	24	13	21	62	9	33	28.99	30.05				
22	OVC	080	10.00		32	15	26	50	5	35	29.02	30.09	22	OVC	060	9.00	-SN	20	9	17	62	13	34	29.02	30.09				
<b>SUNRISE: 0745</b>					<b>JAN 16</b>					<b>SUNSET: 1746</b>					<b>SUNRISE: 0743</b>					<b>JAN 22</b>					<b>SUNSET: 1753</b>				
01	BKN	045	10.00		28	15	24	58	3	34	29.00	30.06	01	OVC	030	9.00	-SN	19	8	16	62	9	35	29.02	30.09				
04	CLR	NC	10.00		23	16	21	74	5	23	29.00	30.07	04	SCT	032	10.00		13	1	10	59	8	35	29.05	30.13				
07	CLR	NC	10.00		22	16	20	78	3	23	29.01	30.08	07	CLR	NC	10.00		10	1	8	67	3	34	29.07	30.16				
10	CLR	NC	10.00		28	19	25	69	8	25	29.04	30.11	10	CLR	NC	10.00		15	1	12	53	0	00	29.09	30.18				
13	FEW	160	10.00		36	17	29	46	11	19	28.92	29.98	13	CLR	NC	10.00		22	1	17	40	7	VR	29.05	30.13				
16	FEW	047	10.00		42	11	32	28	11	21	28.84	29.91	16	BKN	070	10.00		27	-0	20	31	8	23	28.99	30.07				
19	OVC	100	10.00		39	15	31	38	9	28	28.84	29.90	19	OVC	060	10.00		26	2	20	35	7	22	29.04	30.12				
22	OVC	070	10.00		39	18	32	43	9	24	28.90	29.96	22	OVC	060	10.00		27	-0	20	31	5	30	29.10	30.19				
<b>SUNRISE: 0745</b>					<b>JAN 17</b>					<b>SUNSET: 1747</b>					<b>SUNRISE: 0742</b>					<b>JAN 23</b>					<b>SUNSET: 1754</b>				
01	BKN	095	10.00		41	19	33	41	11	21	28.84	29.89	01	SCT	050	10.00		24	2	18	38	6	21	29.12	30.20				
04	OVC	090	10.00		37	22	31	54	6	24	28.84	29.88	04	CLR	NC	10.00		21	5	17	50	3	23	29.14	30.22				
07	SCT	035	10.00		33	21	29	61	8	29	28.85	29.91	07	SCT	250	10.00		19	8	16	62	5	22	29.19	30.28				
10	BKN	200	10.00		41	25	35	53	11	29	28.85	29.91	10	OVC	250	10.00		24	12	21	60	13	26	29.30	30.39				
13	BKN	050	10.00		43	25	36	49	16	25	28.82	29.88	13	BKN	250	10.00		26	3	20	37	10	27	29.33	30.42				
16	OVC	075	10.00		39	21	32	48	17	28	28.85	29.91	16	BKN	200	10.00		25	-1	19	32	16	27	29.35	30.44				
19	BKN	075	10.00		35	15	28	44	18	26	28.96	30.02	19	CLR	NC	10.00		19	-2	14	39	8	28	29.42	30.52				
22	OVC	075	10.00		28	15	24	58	14	27	29.03	30.09	22	CLR	NC	10.00		15	-5	11	40	8	36	29.48	30.58				
<b>SUNRISE: 0744</b>					<b>JAN 18</b>					<b>SUNSET: 1748</b>					<b>SUNRISE: 0742</b>					<b>JAN 24</b>					<b>SUNSET: 1755</b>				
01	OVC	070	10.00		26	9	21	48	8	28	29.01	30.08	01	BKN	250	10.00		12	-3	9	51	6	36	29.52	30.63				
04	OVC	046	10.00		25	10	21	53	10	25	29.03	30.10	04	CLR	NC	10.00		9	-3	7	58	5	01	29.58	30.69				
07	BKN	039	10.00		22	11	19	63	7	25	29.05	30.12	07	CLR	NC	10.00		5	-2	4	72	3	06	29.54	30.65				
10	FEW	050	10.00		26	13	22	57	8	26	29.09	30.17	10	CLR	NC	10.00		11	-2	8	55	0	00	29.54	30.66				
13	FEW	250	10.00		33	13	27	43	16	23	29.04	30.11	13	CLR	NC	10.00		21	-3	16	34	0	00	29.46	30.56				
16	SCT	250	10.00		38	11	29	33	16	22	28.93	30.00	16	FEW	250	10.00		27	-6	19	23	6	VR	29.31	30.41				
19	OVC	120	10.00		37	12	29	36	5	25	28.86	29.93	19	FEW	250	10.00		23	-5	17	29	3	23	29.23	30.34				
22	OVC	080	10.00		37	13	29	37	8	22	28.87	29.93	22	FEW	250	10.00		20	-3	15	36	13	26	29.14	30.23				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

JANUARY 2014

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0741 JAN 25 SUNSET: 1756					23	-3	17	32	16	24	29.06	30.14
01	FEW	250	10.00		27	-3	20	27	21	24	28.96	30.04
04	SCT	250	10.00		29	-5	21	22	22	22	28.85	29.92
07	OVC	090	10.00		32	-0	23	25	22	24	28.79	29.86
10	OVC	050	10.00		31	9	24	40	22	23	28.79	29.85
13	OVC	070	9.00	-SN	35	10	27	35	18	21	28.77	29.83
16	BKN	070	10.00		34	13	27	42	13	22	28.79	29.85
19	OVC	070	10.00		37	17	30	44	11	23	28.85	29.92
22	OVC	045	10.00		SUNRISE: 0740 JAN 26 SUNSET: 1757							
01	FEW	055	10.00		28	16	24	60	8	23	28.91	29.98
04	CLR	NC	10.00		28	8	22	43	0	00	28.88	29.95
07	CLR	NC	10.00		23	12	20	63	3	19	28.88	29.95
10	FEW	250	10.00		34	17	28	50	6	27	28.86	29.92
13	BKN	250	10.00		53	25	41	34	23	23	28.81	29.85
16	BKN	250	10.00		51	25	40	36	14	23	28.76	29.80
19	BKN	100	10.00		49	26	39	41	13	23	28.76	29.81
22	SCT	100	10.00		45	27	38	49	13	22	28.78	29.83
SUNRISE: 0740 JAN 27 SUNSET: 1758					50	28	41	43	13	22	28.76	29.80
01	BKN	100	10.00		50	29	41	44	14	27	28.79	29.82
04	OVC	070	10.00	-RA	48	33	41	56	13	23	28.82	29.86
07	OVC	075	10.00	-RA	41	27	35	57	13	01	28.93	29.98
10	OVC	048	10.00		41	18	33	39	7	01	28.97	30.02
13	BKN	180	10.00		39	5	29	24	11	35	29.00	30.05
16	BKN	250	10.00		28	-4	20	24	6	36	29.10	30.16
19	SCT	250	10.00		25	-0	19	33	10	36	29.18	30.24
22	BKN	250	10.00		SUNRISE: 0739 JAN 28 SUNSET: 1759							
01	OVC	250	10.00		20	1	16	43	9	01	29.19	30.27
04	OVC	250	10.00		19	-3	14	37	14	03	29.19	30.28
07	OVC	090	10.00		19	-1	15	41	13	03	29.21	30.29
10	VV	019	0.75	-SN	17	10	15	74	10	01	29.23	30.32
13	OVC	033	0.75	-SN	18	12	16	77	8	36	29.21	30.30
16	OVC	030	2.00	-SN	19	14	18	81	6	36	29.18	30.27
19	OVC	031	2.00	-SN	17	12	16	80	9	35	29.19	30.28
22	OVC	110	10.00		15	7	13	70	8	36	29.21	30.30
SUNRISE: 0738 JAN 29 SUNSET: 1760					11	2	9	67	3	03	29.23	30.33
01	BKN	031	10.00		9	-0	7	66	5	03	29.25	30.36
04	SCT	180	10.00		4	-2	3	76	5	05	29.29	30.40
07	SCT	180	10.00		10	-3	8	55	6	05	29.33	30.44
10	FEW	250	10.00		18	-4	13	37	6	05	29.30	30.41
13	FEW	250	10.00		24	-4	18	29	0	00	29.27	30.37
16	SCT	250	10.00		21	-2	16	36	0	00	29.27	30.37
19	CLR	NC	10.00		14	-0	11	53	3	04	29.27	30.37
22	CLR	NC	10.00		SUNRISE: 0738 JAN 30 SUNSET: 1801							
01	CLR	NC	10.00		10	-0	8	63	0	00	29.27	30.37
04	FEW	003	10.00		5	-0	4	79	0	00	29.26	30.36
07	FEW	003	10.00		5	-0	4	79	0	00	29.27	30.37
10	CLR	NC	10.00		13	6	11	74	6	06	29.27	30.37
13	FEW	250	10.00		27	10	22	49	0	00	29.23	30.33
16	SCT	250	10.00		35	12	28	38	0	00	29.08	30.17
19	FEW	250	10.00		30	14	25	51	5	14	29.10	30.19
22	BKN	250	10.00		26	14	22	60	0	00	29.10	30.18

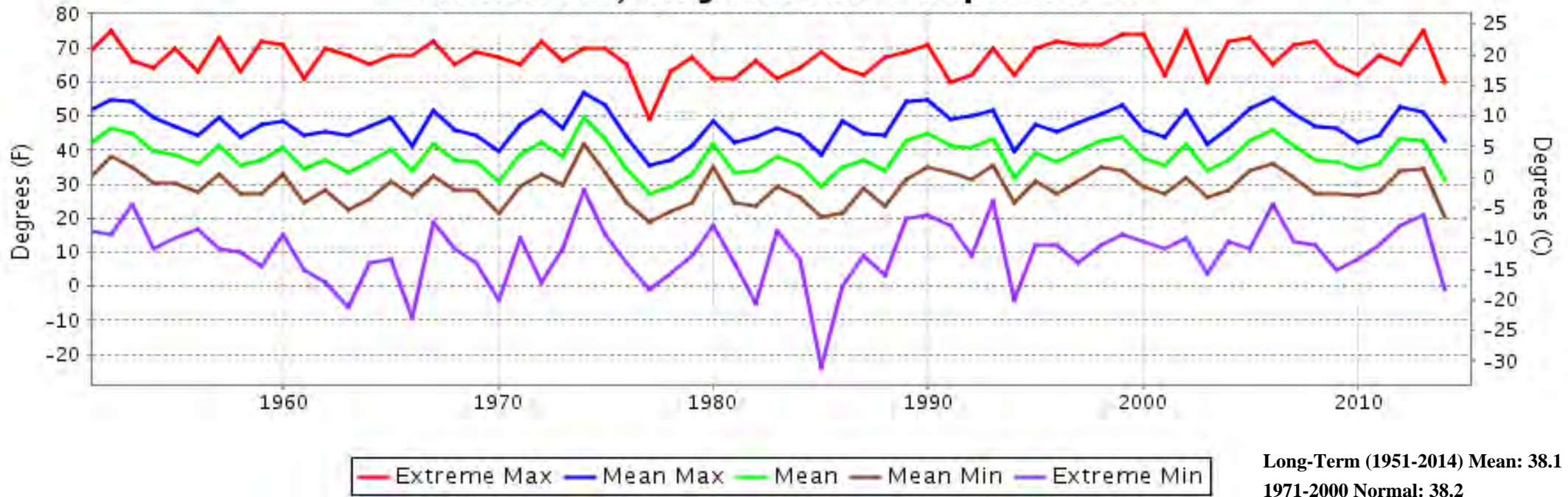
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0737 JAN 31 SUNSET: 1802					22	14	20	71	0	00	29.09	30.17
01	SCT	250	10.00		20	13	18	74	0	00	29.11	30.18
04	SCT	250	10.00		19	14	18	81	0	00	29.15	30.23
07	BKN	250	10.00		26	17	23	69	0	00	29.18	30.27
10	OVC	250	10.00		41	16	32	36	0	00	29.15	30.22
13	OVC	250	10.00		49	20	38	32	0	00	29.09	30.16
16	OVC	250	10.00		43	23	35	45	7	03	29.08	30.15
19	OVC	250	10.00		38	20	32	48	5	03	29.10	30.16
22	BKN	250	10.00		SUNRISE: 0737 JAN 31 SUNSET: 1802							

**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.

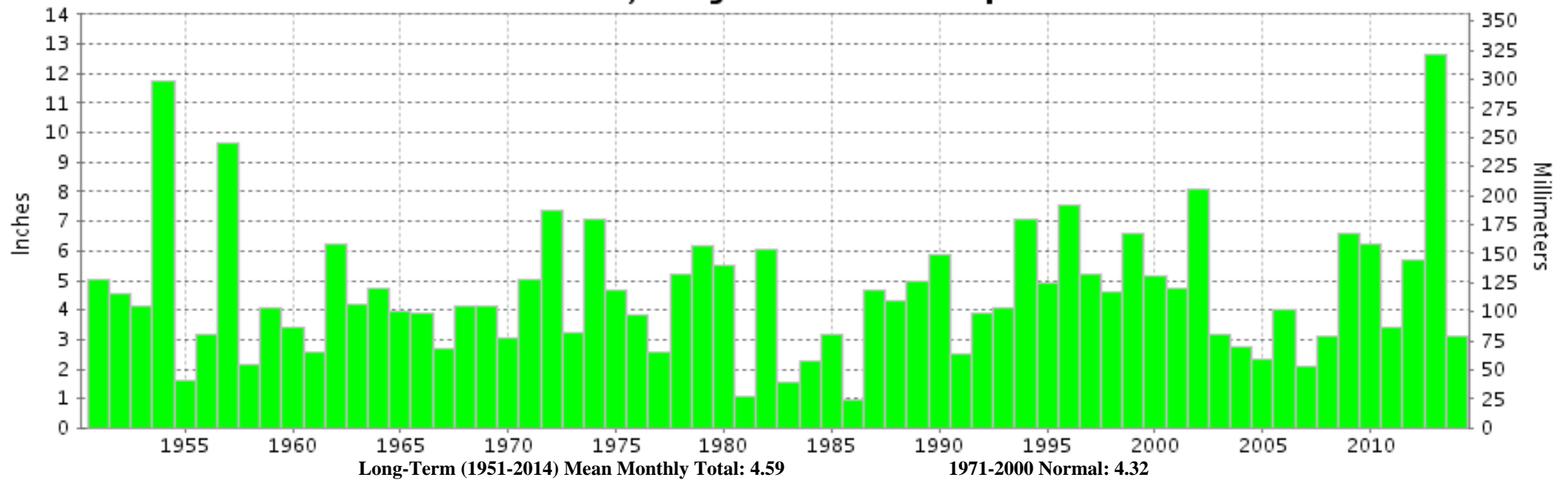
## SUMMARY BY HOUR

HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)	
	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
					STATION	SEA LEVEL				
01	29	17	25	63	29.06	30.13	9.13	6	4	27
02	28	17	25	64	29.06	30.13	9.12	7	5	27
03	28	17	25	65	29.07	30.14	9.23	7	4	27
04	27	17	24	66	29.07	30.14	9.34	6	5	27
05	27	16	24	68	29.06	30.13	9.27	6	4	27
06	26	17	23	70	29.07	30.14	8.91	6	3	27
07	26	17	23	72	29.08	30.15	9.10	6	3	27
08	25	17	23	73	29.08	30.16	8.81	6	2	27
09	28	18	25	70	29.10	30.17	8.56	6	4	27
10	30	20	27	67	29.11	30.18	9.04	7	5	27
11	32	20	28	63	29.11	30.18	9.39	8	6	27
12	35	20	30	57	29.09	30.17	9.45	8	7	27
13	36	20	31	52	29.06	30.13	9.39	8	6	27
14	38	19	32	49	29.04	30.11	9.43	9	8	27
15	39	19	32	47	29.03	30.09	9.47	10	8	27
16	40	19	32	45	29.02	30.09	9.74	9	6	27
17	39	18	31	46	29.03	30.10	9.69	9	7	27
18	36	18	30	50	29.03	30.10	9.65	9	5	27
19	35	17	29	52	29.04	30.11	9.65	7	5	27
20	34	18	28	54	29.06	30.13	9.65	8	5	27
21	32	18	27	57	29.06	30.13	9.71	7	4	27
22	32	18	27	58	29.06	30.13	9.65	7	5	27
23	30	18	26	61	29.06	30.14	9.27	6	5	27
24	30	17	26	62	29.06	30.13	9.34	6	7	27

## KNOXVILLE, TN JANUARY Temperatures



## KNOXVILLE, TN JANUARY Precipitation





**JANUARY 2014  
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.*

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

**DIRECTOR**

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