



JANUARY 2016 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



JANUARY 2016
KNOXVILLE, TN

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			
									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	42	31	37	-1	30	34	28	0			0.0	0.00	29.21	30.29	3.1	34	4.6	16	36	12	36	01		
02	47	25	36	-2	26	31	29	0			0.0	0.00	29.20	30.26	1.6	21	1.9	9	21	9	21	02		
03	48	26	37	-1	26	32	28	0			0.0	0.00	29.04	30.10	2.8	23	3.5	14	26	12	26	03		
04	38	26	32	-6	19	28	33	0	SN		T	T	29.15	30.27	8.9	01	9.4	27	02	21	36	04		
05	41	22	32	-6	16	26	33	0			0.0	0.00	29.41	30.49	5.4	04	6.0	19	05	16	04	05		
06	44	20	32	-5	18	27	33	0			0.0	0.00	29.34	30.40	1.2	06	1.6			6		06		
07	56	26	41	4	26	35	24	0			0.0	0.00	29.11	30.15	3.8	04	4.1	15	04	12	04	07		
08	58	43	51	14	43	46	14	0	RA FG+ FG BR		0.0	0.02	28.92	29.98	1.2	29	2.0	14	22	12	23	08		
09	53	37	45	8	43	45	20	0	RA FG+ FG BR		0.0	0.21	28.84	29.84	1.1	02	3.1	29	27	24	27	09		
10	50	21	36	-1	30	34	29	0	RA BR		0.0	0.09	28.79	29.91	13.5	25	14.3	38	25	29	25	10		
11	36	15	26	-11	13	21	39	0			0.0	0.00	29.14	30.22	4.2	23	4.8	13	24	10	25	11		
12	46	29	38	1	18	30	27	0			0.0	0.00	29.00	30.09	11.4	24	13.0	37	21	30	21	12		
13	40	21	31	-6	10	24	34	0			0.0	0.00	29.13	30.21	5.5	24	6.2	16	22	13	22	13		
14	57	28	43	6	25	35	22	0			0.0	0.00	29.01	30.06	6.3	24	6.7	27	24	22	21	14		
15	46	30	38	1	34	36	27	0	RA DZ BR		0.0	0.44	28.71	29.72	0.6	29	4.4	17	23	13	23	15		
16	47	35	41	4	35	38	24	0	BR		0.0	0.00	28.76	29.83	5.9	28	9.8	26	31	20	31	16		
17	37	30	34	-3	25	31	31	0	SN		T	T	28.90	29.98	4.5	29	8.1	24	29	17	29	17		
18	31	16	24	-13	5	17	41	0			0.0	0.00	29.16	30.28	7.8	29	8.5	24	30	20	29	18		
19	28	13*	21*	-16	6	17	44	0			0.0	0.00	29.34	30.45	2.0	03	3.2	14	03	10	02	19		
20	29	21	25	-13	21	24	40	0	SN PL FZFG BR		2	1.8	29.20	30.27	2.4	04	3.6	13	03	12	03	20		
21	40	29	35	-3	28	31	30	0	RA BR		0.0	0.04	29.13	30.19	8.3	04	8.6	19	04	15	05	21		
22	38	26	32	-6	32	33	33	0	RA SN BR UP		0.3	0.97	28.71	29.74	10.4	02	11.5	26	03	21	04	22		
23	28	23	26	-12	18	23	39	0	SN BR HZ		0.5	0.03	28.87	29.99	8.8	35	9.4	22	34	16	01	23		
24	41	16	29	-9	20	25	36	0			T	T	29.11	30.19	1.5	05	1.7	12	06	10	05	24		
25	55	26	41	3	26	33	24	0			0.0	0.00	29.10	30.17	1.9	24	4.6	27	22	22	22	25		
26	49	38	44	6	39	41	21	0	RA DZ BR		0.0	0.70	29.06	30.12	1.5	34	4.9	18	15	15	15	26		
27	41	28	35	-3	30	33	30	0	RA DZ BR		0.0	0.01	29.13	30.20	6.2	03	6.9	18	03	15	03	27		
28	49	26	38	0	27	32	27	0	FG+ FG FZFG BR		0.0	0.00	28.92	29.95	2.7	24	4.2	17	23	13	22	28		
29	49	32	41	3	26	34	24	0			0.0	0.00	28.87	29.95	4.6	24	5.6	19	27	15	26	29		
30	65	26	46	7	29	37	19	0			0.0	0.00	28.97	30.02	3.2	24	4.9	30	22	25	22	30		
31	65*	44	55*	16	43	50	10	0			0.0	0.00	28.92	29.95	13.3	21	13.6	42*	21	33*	21	31		
45.0		26.7	35.9	Σ	25.4	31.7	28.8	0.0	< MONTHLY AVERAGES TOTALS >				2.6	2.76	29.04	30.11	1.9	29	6.3	< MONTHLY AVERAGES				
-2.3		-2.5	-2.3		<-----DEPARTURE FROM NORMAL----->								-1.56		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.01 DATE : 21-22				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 1.8 DATE : 20				MAXIMUM : 30.57				05		1124					
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 2 DATE : 20				MINIMUM : 29.55				15		1537					
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 26		PRECIPITATION >= 0.01 INCH : 10							
HEATING : 893 64 1786 -476									MAXIMUM TEMP <= 32 : 4		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 5											
COOLING : 0 0 0 0									THUNDERSTORMS : 0		HEAVY FOG : 3		SNOWFALL >= 1.0 INCH : 1											

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
JANUARY 2016

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													02												02	0.00	0.00		
03													03												03	0.00	0.00		
04												T	04			T									04	T	T		
05													05												05	0.00	0.00		
06													06												06	0.00	0.00		
07													07												07	0.00	0.00		
08			0.01	T	T	T		T	0.01	T			08	T										08	0.02	0.02			
09													09					T	T		0.04	0.01	0.11	0.05	09	0.21	0.21		
10	T	0.06				0.02	0.01	T					10											10	0.09	0.09			
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												T	15	0.13	0.09	0.02		0.01	T	T	0.02	T			15	0.44	0.44		
16													16												16	0.00	0.00		
17													17										T		17	T	T		
18													18												18	0.00	0.00		
19													19												19	0.00	0.00		
20				T	0.01	0.01	0.01	T	T	T	0.03	0.04	20	0.10	0.03	0.01	0.01	T	T		T	T		20	0.25	0.25			
21												T	21											T	21	0.04	0.04		
22	0.11	0.12	0.17	0.15	0.06	0.06	T		0.02	0.01		0.03	22	0.02	0.09	T	0.02	0.03	0.02	0.03	0.02	0.01	T	0.01	T	0.03	0.03		
23	T	0.03	T	T	T	T	T	T	T	T	T	T	23	T	T	T						T	T	T	23	0.03	0.03		
24												T	24												24	T	T		
25													25												25	0.00	0.00		
26					T	T	T				T	0.03	0.13	26	0.16	0.09	0.06	0.06	0.01	0.01	0.04	0.05	0.02	0.02	0.01	0.01	26	0.70	0.70
27	T	0.01	T	T									27												27	0.01	0.01		
28													28												28	0.00	0.00		
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)	0.04	0.06	0.09	0.10	0.14	0.19	0.22	0.26	0.29	0.33	0.38	0.45
Ending Date	26	26	26	26	26	26	26	26	26	26	22	22
Ending Time (Hr/Min)	1232	1201	1159	1209	1214	1229	1242	1304	1321	1334	0403	0352

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 2016

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	10.00	10.00	
02	7.00	10.00	
03	10.00	10.00	
04	10.00	10.00	
05	10.00	10.00	
06	10.00	10.00	
07	10.00	10.00	
08	0.75	10.00	
09	0.00	10.00	
10	7.00	10.00	
11	10.00	10.00	
12	10.00	10.00	
13	10.00	10.00	
14	10.00	10.00	
15	2.00	10.00	
16	5.00	10.00	
17	10.00	10.00	
18	10.00	10.00	
19	10.00	10.00	
20	0.50	10.00	
21	2.50	10.00	
22	0.75	10.00	
23	0.75	10.00	
24	8.00	10.00	
25	7.00	10.00	
26	1.00	10.00	
27	2.00	10.00	
28	0.00	10.00	
29	10.00	10.00	
30	10.00	10.00	
31	10.00	10.00	
AVGS	6.59	10.00	
MINIMUM VISIBILITY (MILES)			
	<= .25	<= 3.0	>= 7.0
	2	10	20

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN JANUARY 2016 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				
SUNRISE: 0746					JAN 01					SUNSET: 1733					SUNRISE: 0746					JAN 07					SUNSET: 1738				
01	OVC	022	10.00		39	32	36	76	7	35	29.19	30.26	01	BKN	250	10.00		28	21	26	75	3	06	29.21	30.29				
04	OVC	022	10.00		38	31	35	76	10	35	29.19	30.25	04	SCT	250	10.00		27	21	25	78	0	00	29.18	30.25				
07	OVC	250	10.00		36	29	33	76	9	01	29.25	30.32	07	SCT	250	10.00		29	21	26	72	8	03	29.14	30.21				
10	OVC	200	10.00		37	30	34	76	5	34	29.26	30.32	10	BKN	060	10.00		36	22	31	57	3	09	29.19	30.27				
13	OVC	200	10.00		39	30	35	70	3	27	29.21	30.28	13	FEW	250	10.00		51	23	40	33	6	03	29.11	30.16				
16	BKN	200	10.00		41	30	36	65	0	00	29.21	30.27	16	OVC	055	10.00		55	29	44	37	8	03	29.00	30.06				
19	SCT	250	10.00		38	30	35	73	3	23	29.21	30.28	19	OVC	070	10.00		51	33	43	50	5	04	28.99	30.05				
22	FEW	250	10.00		33	28	31	82	5	25	29.25	30.32	22	OVC	065	10.00		49	35	43	59	0	00	28.99	30.04				
SUNRISE: 0746					JAN 02					SUNSET: 1734					SUNRISE: 0746					JAN 08					SUNSET: 1739				
01	SCT	034	10.00		31	25	29	79	0	00	29.25	30.32	01	OVC	050	10.00		46	37	42	71	0	00	28.93	29.98				
04	CLR	NC	9.00		28	25	27	88	0	00	29.24	30.32	04	OVC	250	10.00		44	39	42	83	3	07	28.93	29.97				
07	CLR	NC	7.00		25	23	24	92	3	07	29.23	30.31	07	OVC	090	10.00		44	40	42	85	0	00	28.92	29.97				
10	FEW	250	7.00		33	28	31	82	0	00	29.27	30.35	10	OVC	042	10.00		48	43	46	83	0	00	28.96	30.01				
13	SCT	100	10.00		42	24	35	49	0	00	29.21	30.27	13	OVC	100	10.00		53	45	49	74	0	00	28.92	29.97				
16	SCT	250	10.00		46	24	37	42	5	21	29.13	30.19	16	OVC	042	10.00		58	46	52	65	10	24	28.88	29.93				
19	CLR	NC	10.00		39	27	34	62	5	23	29.11	30.18	19	OVC	041	10.00		52	47	49	83	0	00	28.93	29.98				
22	CLR	NC	10.00		34	26	31	73	3	19	29.11	30.18	22	CLR	NC	4.00	BR	46	45	46	96	0	00	28.94	29.99				
SUNRISE: 0746					JAN 03					SUNSET: 1735					SUNRISE: 0746					JAN 09					SUNSET: 1740				
01	CLR	NC	10.00		33	25	30	72	0	00	29.10	30.16	01	BKN	001	0.25	FG	40	40	40	100	0	00	28.93	29.98				
04	CLR	NC	10.00		29	24	27	82	7	21	29.09	30.15	04	VV	001	0.25	FG	40	39	40	97	0	00	28.92	29.96				
07	SCT	200	10.00		28	23	26	81	5	19	29.08	30.15	07	OVC	011	10.00		43	41	42	93	0	00	28.92	29.96				
10	BKN	250	10.00		33	26	30	75	5	20	29.09	30.15	10	OVC	020	5.00	BR	45	42	44	90	0	00	28.93	29.97				
13	OVC	250	10.00		45	26	37	48	6	24	29.00	30.06	13	OVC	150	7.00		49	44	47	83	7	03	28.82	29.87				
16	OVC	250	10.00		46	26	38	46	5	26	28.97	30.03	16	BKN	075	10.00		53	45	49	74	0	00	28.75	29.79				
19	CLR	NC	10.00		41	27	35	57	5	29	28.98	30.05	19	OVC	110	10.00		50	44	47	80	0	00	28.67	29.71				
22	CLR	NC	10.00		34	27	31	76	5	05	29.01	30.08	22	OVC	055	10.00	-RA	49	46	47	90	3	08	28.56	29.59				
SUNRISE: 0746					JAN 04					SUNSET: 1736					SUNRISE: 0746					JAN 10					SUNSET: 1741				
01	CLR	NC	10.00		33	26	30	75	3	06	29.02	30.08	01	OVC	025	10.00	-RA	50	48	49	93	20	25	28.57	29.60				
04	FEW	027	10.00		32	21	28	64	15	36	29.07	30.13	04	BKN	110	10.00		49	45	47	86	17	23	28.57	29.60				
07	OVC	036	10.00		32	21	28	64	9	35	29.12	30.18	07	OVC	047	10.00		42	37	40	82	18	24	28.67	29.71				
10	OVC	050	10.00		34	19	29	54	10	02	29.19	30.27	10	OVC	020	10.00		36	29	33	76	20	25	28.85	29.90				
13	OVC	040	10.00		34	23	30	64	10	35	29.21	30.29	13	OVC	016	10.00		34	28	32	79	15	27	28.90	29.96				
16	BKN	060	10.00		37	16	30	42	9	01	29.23	30.31	16	OVC	025	10.00		34	26	31	73	13	27	28.96	30.01				
19	BKN	060	10.00		31	14	26	49	8	05	29.29	30.37	19	OVC	027	10.00		30	20	27	66	9	30	29.05	30.11				
22	FEW	060	10.00		28	14	24	56	6	04	29.35	30.43	22	FEW	040	10.00		24	16	22	71	10	27	29.10	30.17				
SUNRISE: 0746					JAN 05					SUNSET: 1736					SUNRISE: 0746					JAN 11					SUNSET: 1742				
01	CLR	NC	10.00		28	14	24	56	14	02	29.36	30.45	01	SCT	023	10.00		19	13	17	77	7	22	29.14	30.22				
04	CLR	NC	10.00		25	15	22	66	8	03	29.39	30.47	04	CLR	NC	10.00		18	13	17	81	3	24	29.15	30.23				
07	CLR	NC	10.00		23	14	20	68	3	07	29.45	30.53	07	FEW	025	10.00		16	12	15	84	3	24	29.18	30.26				
10	FEW	250	10.00		30	16	26	56	11	09	29.47	30.56	10	SCT	250	10.00		21	15	19	78	3	25	29.22	30.31				
13	FEW	250	10.00		36	18	30	48	7	01	29.44	30.53	13	SCT	250	10.00		27	16	24	63	5	21	29.18	30.27				
16	FEW	250	10.00		40	15	31	36	7	35	29.38	30.46	16	BKN	250	10.00		36	9	28	32	6	24	29.11	30.18				
19	SCT	250	10.00		34	17	28	50	5	36	29.39	30.47	19	SCT	180	10.00		31	10	25	42	3	24	29.09	30.17				
22	FEW	250	10.00		28	18	25	66	0	00	29.39	30.48	22	CLR	NC	10.00		28	12	23	51	6	22	29.09	30.17				
SUNRISE: 0746					JAN 06					SUNSET: 1737					SUNRISE: 0746					JAN 12					SUNSET: 1743				
01	CLR	NC	10.00		24	18	22	77	0	00	29.39	30.47	01	OVC	095	10.00		30	13	25	49	5	26	29.05	30.13				
04	CLR	NC	10.00		23	18	21	81	0	00	29.38	30.46	04	OVC	090	10.00		34	12	27	40	14	24	29.01	30.07				
07	CLR	NC	10.00		21	18	20	88	0	00	29.41	30.50	07	BKN	065	10.00		33	12	26	42	14	22	28.99	30.06				
10	BKN	250	10.00		29	21	26	72	6	06	29.41	30.49	10	BKN	250	10.00		37	16	30	42	18	22	29.01	30.07				
13	BKN	250	10.00		40	18	32	41	0	00	29.34	30.42	13	OVC	070	10.00		44	23	36	43	25	22	28.94	30.00				
16	BKN	250	10.00		43	15	33	32	0	00	29.25	30.32	16	OVC	065	10.00		43	26	36	51	11	29	28.99	30.04				
19	BKN	250	10.00		37	16	30	42	5	07	29.22	30.31	19	FEW	060	10.00		39	20	32	46	10	28	29.05	30.11				
22	BKN	250	10.00		31	20	27	64	3	06	29.23	30.31	22	CLR	NC	10.00		34	18	29	52	7	29	29.12	30.18				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JANUARY 2016

KTYS

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F					WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	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				
																										DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)
SUNRISE: 0746					JAN 13					SUNSET: 1744					SUNRISE: 0744					JAN 19					SUNSET: 1749				
01	CLR	NC	10.00		28	11	23	49	5	29	29.14	30.21	01	CLR	NC	10.00		15	4	12	61	6	22	29.29	30.39				
04	CLR	NC	10.00		22	12	19	66	5	22	29.18	30.24	04	CLR	NC	10.00		14	5	12	67	5	23	29.31	30.40				
07	CLR	NC	10.00		22	10	19	60	3	24	29.18	30.26	07	CLR	NC	10.00		14	5	12	67	0	00	29.34	30.44				
10	CLR	NC	10.00		27	11	22	51	5	26	29.21	30.28	10	FEW	024	10.00		18	5	15	57	3	02	29.42	30.52				
13	CLR	NC	10.00		36	6	27	28	6	24	29.14	30.21	13	FEW	180	10.00		23	6	19	48	0	00	29.41	30.51				
16	FEW	250	10.00		40	7	30	25	13	25	29.13	30.20	16	FEW	250	10.00		28	5	22	37	6	00	29.34	30.44				
19	SCT	090	10.00		34	10	27	37	7	22	29.09	30.17	19	FEW	250	10.00		23	7	19	50	7	04	29.35	30.45				
22	FEW	200	10.00		33	13	27	43	8	23	29.06	30.13	22	OVC	250	10.00		22	8	18	55	0	00	29.34	30.43				
SUNRISE: 0746					JAN 14					SUNSET: 1745					SUNRISE: 0744					JAN 20					SUNSET: 1750				
01	CLR	NC	10.00		34	16	28	48	9	28	29.06	30.12	01	OVC	250	10.00		22	12	19	66	3	02	29.29	30.38				
04	CLR	NC	10.00		32	18	27	56	6	28	29.06	30.12	04	OVC	046	10.00	-SN	24	10	20	55	0	00	29.25	30.34				
07	CLR	NC	10.00		28	20	25	72	0	00	29.05	30.12	07	OVC	070	2.00	-SN	22	18	21	85	6	01	29.24	30.33				
10	FEW	250	10.00		38	25	33	60	6	27	29.08	30.14	10	OVC	046	9.00	-SN	23	19	22	85	9	04	29.19	30.28				
13	FEW	250	10.00		55	31	44	40	20	23	29.02	30.07	13	VV	008	0.50	SN FZFG	24	22	23	91	3	14	29.14	30.22				
16	CLR	NC	10.00		57	28	44	33	14	24	28.94		16	OVC	005	0.75	-PL BR	27	25	26	92	0	00	29.11	30.19				
19	BKN	250	10.00		47	28	39	48	8	25	28.93	29.99	19	OVC	004	0.75	BR	28	26	27	92	3	33	29.15	30.23				
22	BKN	250	10.00		44	25	36	47	8	26	28.91	29.96	22	OVC	003	1.50	BR	28	27	28	96	0	00	29.15	30.24				
SUNRISE: 0745					JAN 15					SUNSET: 1746					SUNRISE: 0743					JAN 21					SUNSET: 1752				
01	BKN	250	10.00		36	26	32	67	3	11	28.86	29.91	01	OVC	004	2.50	BR	29	27	28	92	5	05	29.15	30.24				
04	SCT	250	10.00		32	25	29	75	0	00	28.81	29.85	04	OVC	022	2.50	BR	29	27	28	92	5	04	29.16	30.24				
07	OVC	250	10.00		32	27	30	82	0	00	28.78	29.82	07	OVC	020	2.50	BR	30	28	29	92	9	03	29.16	30.24				
10	OVC	080	7.00	-RA	36	31	34	82	8	05	28.72	29.76	10	OVC	017	2.50	BR	32	29	31	88	11	04	29.18	30.26				
13	OVC	055	2.50	RA BR	37	35	36	93	8	36	28.61	29.66	13	BKN	250	10.00		37	29	34	73	8	06	29.16	30.24				
16	SCT	080	7.00		41	40	41	96	0	00	28.52	29.57	16	OVC	200	10.00		39	29	35	67	9	05	29.10	30.16				
19	OVC	022	7.00		41	40	41	96	8	23	28.58	29.62	19	OVC	032	10.00		37	28	33	70	10	04	29.06	30.12				
22	OVC	004	3.00	BR	43	42	43	97	8	22	28.61	29.65	22	OVC	080	10.00		36	26	32	67	9	04	29.02	30.09				
SUNRISE: 0745					JAN 16					SUNSET: 1746					SUNRISE: 0743					JAN 22					SUNSET: 1753				
01	OVC	004	5.00	BR	46	45	46	96	10	23	28.61	29.65	01	OVC	050	5.00	+RA BR	33	30	32	89	3	03	28.97	30.03				
04	OVC	004	6.00	BR	46	44	45	93	10	22	28.64	29.67	04	OVC	033	4.00	+RA BR	33	32	33	96	13	04	28.84	29.90				
07	OVC	023	10.00		41	37	39	86	15	28	28.73	29.78	07	OVC	049	7.00		36	34	35	93	18	05	28.70	29.75				
10	BKN	030	10.00		41	32	37	70	10	29	28.82	29.87	10	OVC	070	10.00		35	33	34	93	15	02	28.65	29.70				
13	OVC	028	10.00		42	32	38	68	10	23	28.82	29.86	13	OVC	055	6.00	-RA BR	37	34	36	89	13	01	28.59	29.65				
16	OVC	035	10.00		42	33	38	71	7	29	28.84	29.88	16	OVC	008	7.00	RA	36	34	35	93	11	01	28.53	29.58				
19	OVC	026	10.00		38	31	35	76	9	36	28.87	29.93	19	OVC	036	0.75	-SN BR	33	32	33	96	8	36	28.59	29.65				
22	OVC	018	10.00		36	28	33	73	9	03	28.88	29.93	22	OVC	041	0.75	-SN BR	29	24	27	82	15	35	28.66	29.72				
SUNRISE: 0745					JAN 17					SUNSET: 1747					SUNRISE: 0742					JAN 23					SUNSET: 1754				
01	OVC	022	10.00		35	27	32	72	9	02	28.82	29.88	01	OVC	031	5.00	-SN BR	26	22	25	84	9	34	28.71	29.77				
04	OVC	027	10.00		34	27	31	76	8	04	28.81	29.86	04	OVC	022	9.00	-SN	25	19	23	78	11	35	28.75	29.80				
07	OVC	018	10.00		34	28	32	79	3	01	28.85	29.91	07	OVC	070	4.00	-SN	24	19	22	81	11	32	28.82	29.89				
10	OVC	027	10.00		35	27	32	72	6	34	28.92	29.98	10	OVC	036	0.75	SN BR	24	17	22	75	11	33	28.90	29.98				
13	OVC	021	10.00		35	27	32	72	7	28	28.92	29.99	13	OVC	027	7.00	-SN BR	26	17	23	69	6	VR	28.93	30.00				
16	BKN	035	10.00		36	25	32	64	10	24	28.92	29.99	16	OVC	035	7.00	BR	28	19	25	69	11	35	28.96	30.03				
19	FEW	034	10.00		32	22	28	66	11	26	28.99	30.06	19	OVC	026	6.00	BR	27	18	24	69	11	36	29.04	30.12				
22	OVC	055	10.00		31	23	28	72	8	22	29.02	30.09	22	OVC	022	6.00	-SN	26	18	23	71	7	35	29.10	30.18				
SUNRISE: 0744					JAN 18					SUNSET: 1748					SUNRISE: 0742					JAN 24					SUNSET: 1755				
01	OVC	041	10.00		30	18	26	61	15	30	29.05	30.11	01	SCT	033	10.00		23	15	21	72	6	02	29.09	30.17				
04	CLR	NC	10.00		23	8	19	53	11	29	29.08	30.15	04	FEW	033	10.00		19	15	18	84	0	00	29.09	30.16				
07	FEW	035	10.00		17	3	14	54	11	29	29.16	30.24	07	CLR	NC	10.00		17	14	16	88	0	00	29.15	30.23				
10	FEW	037	10.00		18	2	14	49	10	28	29.23	30.32	10	FEW	250	10.00		26	18	23	71	3	02	29.18	30.26				
13	CLR	NC	10.00		23	4	18	44	8	30	29.21	30.30	13	CLR	NC	10.00		33	23	29	66	5	02	29.12	30.19				
16	CLR	NC	10.00		25	1	19	35	7	28	29.19	30.28	16	CLR	NC	10.00		40	21	33	47	0	00	29.09	30.16				
19	CLR	NC	10.00		22	3	17	44	5	27	29.23	30.32	19	CLR	NC	10.00		36	24	32	62	3	07	29.10	30.17				
22	CLR	NC	10.00		19	4	15	51	6	28	29.27	30.37	22	SCT	180	10.00		30	24	28	79	3	04	29.08	30.16				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

JANUARY 2016

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					29	25	28	85	3	03	29.09	30.16
01	SCT	180	10.00		28	24	27	85	5	35	29.10	30.16
04	BKN	180	10.00		27	24	26	89	0	00	29.15	30.22
07	BKN	180	10.00		31	27	30	85	0	00	29.18	30.26
10	BKN	250	9.00		48	31	41	52	6	23	29.11	30.17
13	BKN	250	10.00		54	25	42	33	14	24	29.07	30.13
16	BKN	250	10.00		48	20	37	33	7	25	29.07	30.13
19	BKN	250	10.00		38	26	33	62	6	06	29.08	30.14
22	SCT	150	10.00									
SUNRISE: 0740 JAN 26 SUNSET: 1757					40	32	37	73	3	10	29.07	30.12
01	OVC	044	10.00		41	32	37	70	6	01	29.05	30.10
04	OVC	038	10.00		40	36	38	86	0	00	29.06	30.11
07	OVC	031	10.00		41	37	39	86	7	01	29.09	30.15
10	OVC	035	10.00	-RA	44	42	43	93	0	00	29.07	30.13
13	OVC	035	1.00	-RA BR	48	46	47	93	7	26	29.04	30.09
16	OVC	065	3.00	-RA BR	47	46	47	97	6	26	29.06	30.11
19	OVC	050	4.00	-RA BR	42	41	42	96	9	01	29.08	30.13
22	OVC	003	3.00	-RA BR								
SUNRISE: 0740 JAN 27 SUNSET: 1758					37	35	36	93	8	01	29.13	30.19
01	OVC	013	2.00	-DZ BR	35	32	34	89	6	02	29.15	30.22
04	OVC	021	7.00		34	30	32	85	7	36	29.18	30.24
07	OVC	017	10.00		35	29	33	78	10	03	29.21	30.27
10	OVC	016	10.00		37	30	34	76	10	04	29.15	30.22
13	OVC	018	10.00		40	31	36	70	9	08	29.09	30.15
16	BKN	250	10.00		36	30	34	79	5	09	29.09	30.15
19	SCT	250	10.00		32	29	31	88	0	00	29.07	30.14
22	SCT	250	10.00									
SUNRISE: 0739 JAN 28 SUNSET: 1759					29	27	28	92	0	00	29.05	30.11
01	FEW	010	5.00	BR	27	25	26	92	0	00	29.00	30.07
04	SCT	250	6.00	BR	27	26	27	96	3	08	28.96	30.03
07	VV	001	0.00	FZFG	28	27	28	96	0	00	28.97	30.03
10	VV	002	0.25	FZFG	32	31	32	96	5	24	28.90	29.96
13	OVC	002	0.75	BR	48	28	40	46	10	22	28.79	29.85
16	BKN	250	10.00		44	27	37	51	6	24	28.78	29.84
19	BKN	250	10.00		39	24	33	55	7	22	28.78	29.84
22	CLR	NC	10.00									
SUNRISE: 0738 JAN 29 SUNSET: 1760					36	26	32	67	8	20	28.78	29.83
01	CLR	NC	10.00		33	26	30	75	0	00	28.77	29.82
04	SCT	075	10.00		35	27	32	72	9	26	28.82	29.88
07	SCT	075	10.00		38	28	34	68	9	27	28.92	29.98
10	FEW	070	10.00		44	29	38	55	5	VR	28.94	30.00
13	FEW	032	10.00		49	23	39	36	0	00	28.93	29.98
16	CLR	NC	10.00		42	25	35	51	6	18	28.94	30.00
19	CLR	NC	10.00		38	25	33	60	5	28	28.98	30.04
22	CLR	NC	10.00									
SUNRISE: 0738 JAN 30 SUNSET: 1801					32	26	30	79	0	00	29.01	30.07
01	CLR	NC	10.00		27	23	26	85	3	08	28.98	30.04
04	CLR	NC	10.00		27	24	26	89	3	01	29.02	30.09
07	FEW	200	10.00		37	28	33	70	3	31	29.04	30.10
10	FEW	250	10.00		52	31	43	45	0	00	28.95	30.01
13	FEW	250	10.00		64	35	50	34	17	22	28.86	29.91
16	FEW	250	10.00		53	32	44	45	6	23	28.91	29.96
19	CLR	NC	10.00		51	32	43	48	8	27	28.94	29.99
22	CLR	NC	10.00									

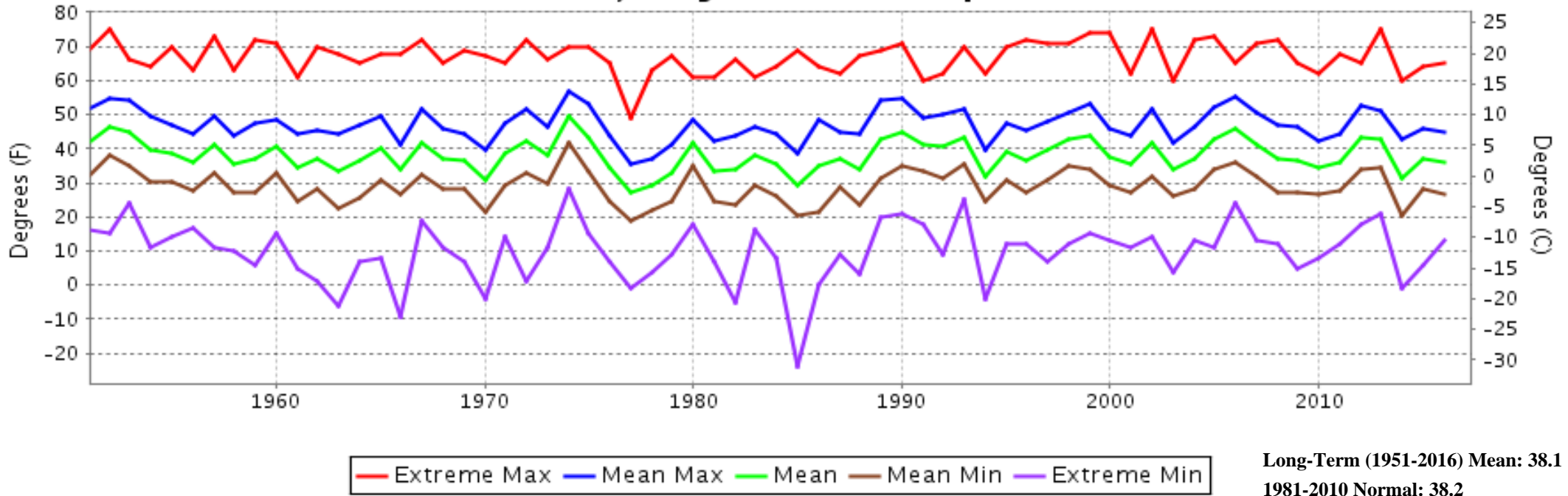
HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0737 JAN 31 SUNSET: 1802					48	33	41	56	6	21	28.93	29.98
01	CLR	NC	10.00		48	35	42	61	8	24	28.93	29.97
04	CLR	NC	10.00		54	42	48	64	13	21	28.96	30.00
07	OVC	031	10.00		57	46	51	67	16	20	28.96	30.00
10	OVC	035	10.00		61	47	54	60	26	21	28.91	29.96
13	OVC	038	10.00		63	47	54	56	18	21	28.84	29.88
16	OVC	250	10.00		60	46	53	60	10	19	28.85	29.89
19	BKN	048	10.00		59	48	53	67	11	23	28.87	29.91
22	CLR	NC	10.00									

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.

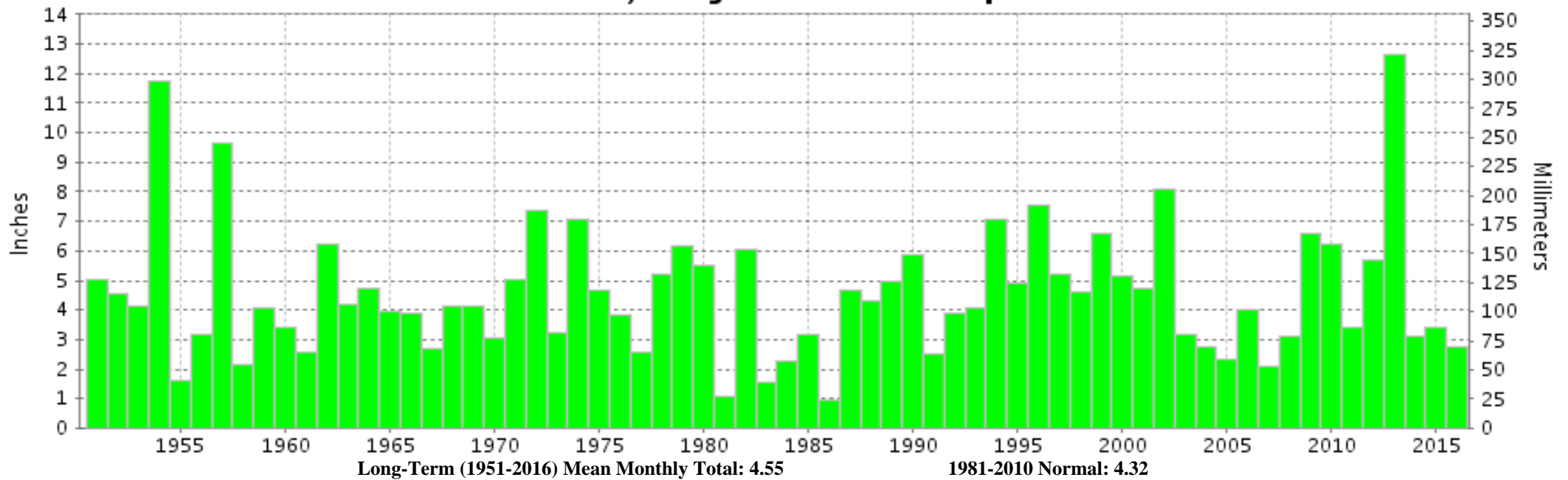
SUMMARY BY HOUR

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	33	25	30	74	29.04	30.11	8.54	5	2	28
02	32	25	29	75	29.03	30.10	8.45	5	1	29
03	32	24	29	76	29.03	30.10	8.67	5	1	29
04	31	24	29	76	29.03	30.10	8.83	6	2	28
05	31	24	28	78	29.03	30.10	8.60	6	2	28
06	30	24	28	78	29.04	30.11	8.76	6	3	28
07	30	24	28	79	29.05	30.12	8.79	6	2	28
08	30	24	28	78	29.07	30.13	8.99	6	2	28
09	31	25	29	77	29.08	30.15	8.70	6	1	29
10	34	25	31	72	29.09	30.16	8.73	7	1	28
11	36	26	32	69	29.09	30.16	8.26	7	2	28
12	37	26	33	66	29.07	30.14	8.25	7	3	28
13	39	27	35	63	29.04	30.11	8.54	7	3	28
14	41	27	35	59	29.02	30.09	8.84	8	4	28
15	43	26	36	56	29.01	30.07	9.02	8	4	28
16	43	26	37	55	29.00	30.07	9.19	8	5	27
17	42	26	36	56	29.01	30.07	9.48	8	4	27
18	40	27	35	61	29.01	30.08	9.08	7	2	28
19	39	26	34	62	29.02	30.09	8.98	6	2	28
20	37	26	33	64	29.03	30.10	9.02	5	2	28
21	36	26	32	67	29.03	30.10	8.89	5	2	28
22	35	26	32	69	29.03	30.10	8.65	6	2	28
23	35	26	31	71	29.04	30.10	8.67	5	2	28
24	34	25	31	72	29.04	30.10	8.54	5	3	28

KNOXVILLE, TN JANUARY Temperatures



KNOXVILLE, TN JANUARY Precipitation





**JANUARY 2016
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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NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001