



OCTOBER 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			
01	84	55	70	5	55	61	0	5	BR HZ	0		0.0	0.00	28.95	29.97	0.5	35	1.4			6	09	01	
02	85*	55	70	5	58	63	0	5	BR	0		0.0	0.00	29.00	30.01	3.3	21	4.6	19	24	15	23	02	
03	76	59	68	4	61	65	0	3	RA BR	0		0.0	0.35	28.82	29.83	12.2	21	13.3	32	22	24	21	03	
04	60	42	51	-13	35	44	14	0	RA	0		0.0	T	28.89	29.94	9.3	27	9.8	29	29	22	28	04	
05	66	37	52	-11	36	45	13	0		0		0.0	0.00	28.92	29.96	7.8	21	8.0	24	20	18	23	05	
06	68	53	61	-2	52	56	4	0	TS TSRA RA BR VCTS	0		0.0	0.63	28.89	29.93	10.5	23	12.0	35	20	28	26	06	
07	73	56	65	3	59	61	0	0	TS TSRA RA BR VCTS	0		0.0	0.48	28.94	29.97	9.5	22	10.5	33	21	25	22	07	
08	79	61	70	8	59	63	0	5	RA	0		0.0	0.05	29.01	30.05	7.0	24	7.6	21	22	17	22	08	
09	76	55	66	5	60	62	0	1	TS TSRA RA FG+ FG BCFG BR VC	0		0.0	0.02	29.05	30.09	0.7	07	2.3	16	33	13	32	09	
10	73	59	66	5	64	64	0	1	RA BR	0		0.0	0.45	28.97	29.99	1.3	06	2.9	13	27	10	28	10	
11	76	63	70	9	65	66	0	5	RA BR	0		0.0	0.20	28.95	29.99	3.7	24	7.3	20	22	16	21	11	
12	72	62	67	7	64	65	0	2	TS TSRA RA DZ BR VCTS	0		0.0	1.03	29.00	30.03	3.0	04	3.6	17	27	15	28	12	
13	80	63	72*	12	62	65	0	7	RA FG+ FG BR	0		0.0	0.05	29.00	30.00	6.3	15	8.7	38*	17	26	19	13	
14	76	57	67	8	60	63	0	2	RA BR	0		0.0	1.41	28.74	29.76	7.9	19	11.7	37	16	30*	27	14	
15	62	54	58	-1	52	54	7	0	RA BR	0		0.0	0.27	28.80	29.83	10.9	21	11.3	28	19	22	19	15	
16	60	49	55	-4	51	53	10	0	RA BR	0		0.0	0.04	28.83	29.88	8.0	23	8.6	19	22	16	22	16	
17	74	44	59	1	52	55	6	0	FG+ FG BCFG BR	0		0.0	0.00	28.85	29.88	8.3	22	8.6	31	22	25	21	17	
18	67	50	59	1	48	53	6	0	RA	0		0.0	T	28.90	29.96	4.7	29	7.2	18	30	14	26	18	
19	65	48	57	0	43	49	8	0		0		0.0	0.00	29.08	30.13	4.6	03	5.3	19	04	15	02	19	
20	67	45	56	-1	48	52	9	0	RA FG+ BR	0		0.0	T	29.00	30.04	4.1	23	5.6	23	23	20	23	20	
21	68	48	58	1	46	51	7	0		0		0.0	0.00	28.95	30.01	3.8	30	7.9	24	01	18	01	21	
22	60	42	51	-5	40	45	14	0		0		0.0	0.00	29.10	30.17	8.5	03	9.0	25	03	22	02	22	
23	63	40	52	-4	41	46	13	0		0		0.0	0.00	29.10	30.14	7.5	03	7.9	23	07	17	06	23	
24	68	43	56	0	43	48	9	0		0		0.0	0.00	29.03	30.07	4.0	03	4.5	14	34	12	03	24	
25	70	39	55	0	45	50	10	0	BCFG BR	0		0.0	0.00	29.01	30.05	1.7	23	2.3	10	24	8	25	25	
26	77	51	64	9	52	57	1	0		0		0.0	0.00	28.95	29.99	1.3	23	2.0	12	23	10	23	26	
27	80	49	65	10	55	58	0	0	BCFG BR	0		0.0	0.00	28.99	30.02	0.8	30	2.6	15	23	12	23	27	
28	76	54	65	11	56	59	0	0	BR HZ	0		0.0	0.00	29.02	30.05	7.9	23	8.1	32	24	26	24	28	
29	65	45	55	1	48	51	10	0	RA BR	0		0.0	0.67	29.03	30.07	2.0	03	5.8	22	01	18	36	29	
30	62	38	50	-4	40	45	15	0	BCFG BR	0		0.0	0.00	29.02	30.05	0.3	18	0.9	10	25	7	25	30	
31	52	35*	44*	-10	39	42	21	0	RA	0		0.0	0.23	28.91	29.96	3.5	29	3.9	32	32	23	32	31	

70.3	50.0	60.2	Σ	51.3	55.2	5.7	1.2	< MONTHLY AVERAGES TOTALS >				0.0	5.88	28.96	29.99	2.7	23	6.6	< MONTHLY AVERAGES			
-0.9	1.5	0.3		----- DEPARTURE FROM NORMAL -----								3.37	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 1.41 DATE : 14				SEA LEVEL PRESSURE			
MONTHLY				GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM : 30.22 23 0827			
TOTAL DEPARTURE				GREATEST SNOW DEPTH : 0 DATE :				MINIMUM : 29.63 14 1254			
SEASON TO DATE				NUMBER OF -> DAYS WITH				PRECIPITATION >= 0.01 INCH: 14			
HEATING : 177 -19 178 -41				MAXIMUM TEMP >= 90 : 0				PRECIPITATION >= 0.10 INCH: 10			
COOLING : 36 0 1486 -37				MAXIMUM TEMP <= 32 : 0				SNOWFALL >= 1.0 INCH : 0			
				MINIMUM TEMP <= 32 : 0							
				THUNDERSTORMS : 4				HEAVY FOG : 4			

OCTOBER 2014
KNOXVILLE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
OCTOBER 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													02												02	0.00	0.00	
03								0.14	0.08	0.04	T	T	03							T	0.09			03	0.35	0.35		
04	T												04											04	T	T		
05													05											05	0.00	0.00		
06													06	T	T	0.01	T		0.02	0.02	0.13	0.01	0.08	0.03	0.02	0.63	0.63	
07	0.04	0.01	0.06	0.04	0.23	0.01			T	T			07	0.04	T									0.03	0.07	0.48	0.48	
08			T	0.03	0.02								08												08	0.05	0.05	
09													09		0.01	0.01									09	0.02	0.02	
10												0.06	10		T	T	0.15	0.04	T				0.19	0.01	10	0.45	0.45	
11						T	T	T	T				11		T	0.13	T				T	0.07			11	0.20	0.20	
12		T	0.03	0.04	T	T	0.01	0.13	0.03	0.06	0.18	0.01	12		T	T	0.09	0.09	0.30	0.06	T		T	12	1.03	1.03		
13	T	T					T	0.05	T				13												13	0.05	0.05	
14	T	0.01	T	0.02	0.14	0.25	0.16	0.15	0.01	0.07	0.03	0.01	14	T	0.40	0.15	0.01							14	1.41	1.41		
15													15	T		0.03	0.04	0.02	0.04	0.03	0.05	0.02	0.03	0.01	15	0.27	0.27	
16	0.01	T	T		T	T	T	0.03	T				16												16	0.04	0.04	
17													17												17	0.00	0.00	
18													18												18	T	T	
19													19									T			19	0.00	0.00	
20													20			T	T								20	T	T	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29			0.03	0.28	0.02	0.18	0.10	0.06	T				29												29	0.67	0.67	
30													30												30	0.00	0.00	
31													31			T	T		T	0.01	T	0.12	0.02	0.05	0.03	31	0.23	0.23

* 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)	0.12	0.18	0.23	0.25	0.31	0.41	0.44	0.49	0.55	0.55	0.56	0.60
Ending Date	29	29	29	29	14	14	14	14	14	14	14	14
Ending Time (Hr/Min)	0319	0324	0325	0327	1353	1403	1408	1444	1450	1450	1528	0745

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 OCTOBER 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	4.00	10.00	
02	6.00	10.00	
03	5.00	10.00	
04	10.00	10.00	
05	10.00	10.00	
06	1.00	10.00	
07	3.00	10.00	
08	9.00	10.00	
09	0.00	10.00	
10	2.50	10.00	
11	2.00	10.00	
12	2.00	10.00	
13	0.25	10.00	
14	1.50	10.00	
15	5.00	10.00	
16	1.00	10.00	
17	0.12	10.00	
18	10.00	10.00	
19	10.00	10.00	
20	0.00	10.00	
21	10.00	10.00	
22	10.00	10.00	
23	10.00	10.00	
24	8.00	10.00	
25	2.00	10.00	
26	7.00	10.00	
27	4.00	10.00	
28	5.00	10.00	
29	2.50	10.00	
30	5.00	10.00	
31	8.00	10.00	
AVGS	4.96	10.00	
MINIMUM VISIBILITY (MILES)			
	<= .25	<= 3.0	>= 7.0
	4	13	11

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
OCTOBER 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				
SUNRISE: 0631					OCT 01					SUNSET: 1820					SUNRISE: 0636					OCT 07					SUNSET: 1812				
01	CLR	NC	10.00		62	57	59	84	0	00	28.89	29.91	01	BKN	110	10.00	-RA	59	57	58	93	7	21	28.96	29.99				
04	SCT	250	6.00	BR	57	56	56	96	0	00	28.90	29.92	04	OVC	090	5.00	VCTS +RA BR	57	56	56	96	7	27	28.98	30.01				
07	BKN	250	4.00	BR	56	55	55	97	0	00	28.95	29.98	07	BKN	070	10.00		57	54	55	90	5	22	28.98	30.02				
10	BKN	250	7.00		71	60	64	68	0	00	28.99	30.01	10	OVC	030	10.00		62	59	60	90	0	00	28.97	30.00				
13	BKN	250	10.00		81	54	65	39	5	VR	28.95	29.97	13	OVC	022	7.00	-RA	63	60	61	90	14	22	28.93	29.96				
16	BKN	250	10.00		82	53	64	37	6	VR	28.93	29.95	16	BKN	047	10.00		72	63	66	73	23	22	28.88	29.91				
19	CLR	NC	10.00		75	52	62	45	0	00	28.93	29.96	19	SCT	250	10.00		69	62	65	78	13	22	28.89	29.92				
22	CLR	NC	10.00		67	56	61	68	0	00	28.98	30.01	22	BKN	250	10.00		69	61	64	76	7	27	28.93	29.95				
SUNRISE: 0631					OCT 02					SUNSET: 1819					SUNRISE: 0636					OCT 08					SUNSET: 1810				
01	CLR	NC	10.00		62	56	59	80	0	00	28.98	30.00	01	BKN	110	10.00		67	62	64	84	10	24	28.93	29.96				
04	CLR	NC	10.00		58	56	57	93	0	00	29.00	30.02	04	OVC	110	9.00	-RA	66	63	64	90	9	23	28.94	29.97				
07	FEW	070	7.00		57	55	56	93	0	00	29.05	30.08	07	OVC	025	10.00		64	62	63	93	13	22	29.02	30.05				
10	FEW	032	10.00		71	58	63	63	0	00	29.07	30.10	10	SCT	250	10.00		69	63	65	81	10	21	29.08	30.11				
13	SCT	042	10.00		84	60	69	44	8	23	29.01	30.03	13	FEW	250	10.00		76	54	63	47	8	23	29.06	30.08				
16	FEW	055	9.00		84	58	68	41	10	18	28.94	29.96	16	FEW	250	10.00		78	51	62	39	7	26	29.03	30.05				
19	BKN	250	10.00		76	58	65	54	9	22	28.94	29.97	19	BKN	250	10.00		69	59	63	70	5	22	29.03	30.06				
22	BKN	250	10.00		72	60	65	66	5	17	28.93	29.96	22	BKN	250	10.00		63	59	61	87	7	23	29.08	30.11				
SUNRISE: 0632					OCT 03					SUNSET: 1817					SUNRISE: 0637					OCT 09					SUNSET: 1809				
01	SCT	250	10.00		69	60	64	73	7	20	28.89	29.91	01	CLR	NC	10.00		61	58	59	90	0	00	29.06	30.09				
04	OVC	110	10.00		75	58	65	55	15	19	28.82	29.83	04	SCT	250	10.00		57	56	56	96	0	00	29.07	30.09				
07	OVC	100	5.00	-RA BR	68	64	65	87	11	18	28.82	29.83	07	VV	001	0.00	FG	56	55	55	97	0	00	29.08	30.11				
10	OVC	120	10.00		71	68	69	90	15	24	28.82	29.84	10	BKN	200	10.00		66	60	62	81	6	02	29.12	30.15				
13	BKN	044	10.00		72	63	66	73	18	23	28.82	29.83	13	OVC	250	10.00		75	61	66	62	9	21	29.08	30.10				
16	SCT	150	10.00		73	61	66	66	20	21	28.79	29.79	16	SCT	250	10.00		75	63	67	66	7	11	29.04	30.06				
19	BKN	250	10.00		68	62	64	81	9	22	28.78	29.80	19	SCT	250	10.00		71	64	67	79	0	00	29.02	30.04				
22	FEW	040	10.00		63	57	59	81	11	26	28.82	29.85	22	SCT	250	10.00		65	63	64	93	0	00	29.03	30.06				
SUNRISE: 0633					OCT 04					SUNSET: 1816					SUNRISE: 0638					OCT 10					SUNSET: 1807				
01	OVC	055	10.00		58	51	54	78	20	28	28.84	29.87	01	BKN	095	10.00		63	61	62	93	0	00	29.01	30.03				
04	SCT	080	10.00		48	39	44	71	13	26	28.91	29.94	04	FEW	055	5.00	BR	60	59	59	96	0	00	28.98	30.01				
07	SCT	150	10.00		43	36	40	76	7	25	28.95	29.99	07	BKN	110	5.00	BR	61	60	60	97	0	00	29.00	30.03				
10	SCT	250	10.00		52	33	43	49	9	27	28.94	29.98	10	SCT	090	10.00		69	64	66	84	0	00	29.01	30.03				
13	BKN	250	10.00		54	31	44	42	16	24	28.87	29.91	13	OVC	006	7.00		70	67	68	90	6	05	28.98	30.00				
16	BKN	250	10.00		58	31	46	36	13	28	28.84	29.88	16	OVC	090	3.00	-RA BR	68	67	67	96	5	12	28.96	29.99				
19	FEW	050	10.00		53	32	44	45	7	27	28.89	29.93	19	BKN	050	3.00		67	66	66	97	5	13	28.92	29.95				
22	CLR	NC	10.00		49	35	43	59	0	00	28.92	29.96	22	BKN	050	6.00		68	67	67	96	6	30	28.93	29.96				
SUNRISE: 0634					OCT 05					SUNSET: 1814					SUNRISE: 0639					OCT 11					SUNSET: 1806				
01	CLR	NC	10.00		41	34	38	76	6	22	28.93	29.98	01	OVC	110	10.00		67	66	66	97	6	28	28.91	29.93				
04	CLR	NC	10.00		40	35	38	83	6	23	28.93	29.98	04	OVC	026	10.00		68	66	67	93	8	25	28.90	29.93				
07	CLR	NC	10.00		39	35	37	86	0	00	28.97	30.02	07	OVC	055	4.00	-RA BR	67	66	66	97	6	21	28.95	29.97				
10	CLR	NC	10.00		53	37	45	55	9	21	28.99	30.03	10	OVC	050	6.00	BR	70	68	69	93	11	22	28.99	30.01				
13	SCT	250	10.00		60	32	47	35	8	20	28.93	29.97	13	BKN	250	10.00		75	65	69	71	10	22	28.98	30.00				
16	FEW	250	10.00		66	35	51	32	18	20	28.86	29.91	16	BKN	100	10.00		70	65	67	84	5	33	28.96	29.98				
19	BKN	250	10.00		60	40	50	47	10	22	28.84	29.88	19	OVC	023	10.00		69	67	68	93	3	06	28.98	30.01				
22	OVC	065	10.00		58	40	49	51	9	22	28.91	29.94	22	OVC	060	10.00		63	62	62	97	5	06	29.01	30.04				
SUNRISE: 0635					OCT 06					SUNSET: 1813					SUNRISE: 0640					OCT 12					SUNSET: 1805				
01	SCT	110	10.00		59	41	50	51	10	24	28.90	29.93	01	OVC	075	10.00		63	62	62	97	6	03	28.98	30.00				
04	SCT	250	10.00		55	44	49	67	9	27	28.89	29.92	04	BKN	075	9.00		62	62	62	100	0	00	28.97	30.00				
07	BKN	120	10.00		54	47	50	77	5	29	28.91	29.95	07	OVC	040	4.00	-RA BR	62	62	62	100	5	05	28.99	30.02				
10	BKN	120	9.00		66	50	57	56	23	20	28.89	29.93	10	OVC	065	3.00	RA BR	64	64	64	100	6	03	29.03	30.06				
13	OVC	150	10.00		61	57	59	87	14	20	28.90	29.93	13	OVC	047	10.00		71	66	68	84	0	00	29.01	30.03				
16	BKN	080	10.00		67	58	62	73	16	21	28.84	29.87	16	OVC	100	10.00	-RA	70	68	69	93	6	36	28.98	30.00				
19	BKN	065	10.00		63	56	59	78	15	21	28.86	29.90	19	OVC	090	5.00	RA	66	65	65	96	7	05	29.01	30.04				
22	OVC	075	6.00	-TSRA	60	56	58	86	9	21	28.93	29.96	22	OVC	120	10.00	-RA	67	65	66	93	5	07	29.03	30.06				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
OCTOBER 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				
SUNRISE: 0641					OCT 13					SUNSET: 1803					SUNRISE: 0646					OCT 19					SUNSET: 1756				
01	OVC	085	10.00		66	65	65	96	3	05	29.04	30.07	01	BKN	035	10.00		51	45	48	80	3	08	29.05	30.09				
04	VV	002	1.00	BR	65	65	65	100	5	04	29.01	30.04	04	OVC	031	10.00		51	43	47	74	7	35	29.08	30.12				
07	OVC	037	1.25	BR	63	63	63	100	3	01	29.06	30.09	07	OVC	035	10.00		50	44	47	80	7	05	29.13	30.17				
10	FEW	180	10.00		69	66	67	90	6	07	29.05	30.08	10	FEW	030	10.00		55	42	49	62	9	01	29.15	30.20				
13	SCT	250	10.00		79	61	68	54	16	16	29.00	30.02	13	FEW	040	10.00		61	43	52	52	6	05	29.11	30.14				
16	FEW	250	10.00		79	57	65	47	26	18	28.93	29.95	16	SCT	250	10.00		65	44	54	47	10	05	29.04	30.08				
19	SCT	250	10.00		74	58	64	57	0	00	28.91	29.94	19	SCT	250	10.00		57	43	50	60	3	04	29.05	30.09				
22	SCT	180	10.00		75	58	65	55	13	13	28.85	29.87	22	BKN	250	10.00		50	45	48	83	0	00	29.05	30.10				
SUNRISE: 0641					OCT 14					SUNSET: 1802					SUNRISE: 0647					OCT 20					SUNSET: 1754				
01	OVC	250	10.00	-RA	73	60	65	64	3	22	28.82	29.83	01	BKN	250	10.00		48	45	47	89	0	00	29.05	30.09				
04	OVC	100	10.00	-RA	70	62	65	76	7	14	28.78	29.79	04	BKN	250	10.00		47	45	46	93	0	00	29.03	30.07				
07	OVC	110	2.50	-RA BR	66	66	66	100	6	09	28.77	29.78	07	VV	002	0.00	FG	46	46	46	100	3	16	29.06	30.11				
10	OVC	090	3.00	-RA	70	62	65	76	11	16	28.70	29.71	10	SCT	200	10.00		56	49	52	77	3	VR	29.06	30.11				
13	OVC	080	10.00		76	63	68	64	23	18	28.63	29.63	13	BKN	200	10.00		66	50	57	56	18	23	28.97	30.01				
16	OVC	043	6.00	BR	65	61	63	87	14	22	28.68	29.70	16	BKN	110	10.00		64	51	57	63	8	27	28.93	29.96				
19	BKN	055	10.00		63	58	60	84	14	23	28.76	29.77	19	FEW	090	10.00		58	51	54	78	6	21	28.93	29.98				
22	SCT	065	10.00		61	53	57	75	16	21	28.82	29.84	22	BKN	075	10.00		56	51	53	84	7	21	28.96	30.00				
SUNRISE: 0642					OCT 15					SUNSET: 1801					SUNRISE: 0648					OCT 21					SUNSET: 1753				
01	SCT	070	10.00		56	52	54	87	9	20	28.81	29.83	01	SCT	040	10.00		54	49	51	83	9	24	28.95	29.98				
04	OVC	065	10.00		58	52	55	81	10	20	28.79	29.82	04	SCT	046	10.00		52	49	50	89	8	24	28.93	29.97				
07	BKN	090	10.00		56	51	53	84	13	23	28.82	29.84	07	SCT	080	10.00		50	47	48	89	6	27	28.95	29.99				
10	BKN	250	10.00		61	51	55	70	11	21	28.82	29.84	10	FEW	028	10.00		60	52	56	75	7	26	28.98	30.02				
13	OVC	065	10.00		60	51	55	72	14	20	28.79	29.81	13	SCT	042	10.00		66	44	54	45	10	30	28.95	29.99				
16	OVC	047	7.00	-RA	56	52	54	87	15	26	28.79	29.82	16	SCT	060	10.00		67	43	54	42	5	34	28.93	29.96				
19	OVC	060	10.00	-RA	55	53	54	93	6	25	28.81	29.83	19	BKN	060	10.00		59	42	50	54	11	01	28.99	30.03				
22	OVC	040	10.00	-RA	54	52	53	93	11	22	28.82	29.85	22	FEW	060	10.00		52	40	46	64	8	02	29.05	30.09				
SUNRISE: 0643					OCT 16					SUNSET: 1759					SUNRISE: 0649					OCT 22					SUNSET: 1752				
01	OVC	022	10.00	-RA	54	53	53	97	10	21	28.79	29.81	01	CLR	NC	10.00		48	41	45	77	7	01	29.04	30.08				
04	OVC	075	10.00		53	52	52	96	10	22	28.76	29.79	04	CLR	NC	10.00		45	40	43	83	6	01	29.06	30.10				
07	OVC	032	10.00		53	51	52	93	7	23	28.81	29.84	07	SCT	039	10.00		44	41	43	89	6	02	29.12	30.16				
10	OVC	037	10.00		55	52	53	90	10	25	28.84	29.88	10	FEW	028	10.00		52	40	46	64	11	03	29.15	30.20				
13	OVC	030	10.00		57	50	53	78	8	25	28.86	29.89	13	FEW	041	10.00		58	40	49	51	7	04	29.14	30.19				
16	OVC	041	10.00		60	50	55	70	7	23	28.86	29.89	16	FEW	046	10.00		60	40	50	47	7	07	29.11	30.16				
19	OVC	043	10.00		57	51	54	81	7	21	28.88	29.92	19	FEW	045	10.00		50	39	45	66	14	03	29.14	30.19				
22	CLR	NC	10.00		51	49	50	92	8	21	28.90	29.95	22	SCT	038	10.00		46	39	43	77	8	04	29.16	30.22				
SUNRISE: 0644					OCT 17					SUNSET: 1758					SUNRISE: 0650					OCT 23					SUNSET: 1751				
01	CLR	NC	10.00		49	48	48	97	3	26	28.89	29.93	01	CLR	NC	10.00		44	39	42	83	8	02	29.14	30.19				
04	VV	001	0.75	BR	46	45	46	96	0	00	28.89	29.94	04	FEW	040	10.00		41	38	40	89	6	04	29.12	30.17				
07	SCT	250	0.25	BR	46	44	45	93	0	00	28.91	29.95	07	FEW	040	10.00		41	38	40	89	3	07	29.15	30.20				
10	SCT	002	5.00	BR	54	52	53	93	3	30	28.90	29.95	10	FEW	034	10.00		52	41	47	66	11	07	29.14	30.19				
13	FEW	040	10.00		72	53	61	52	17	22	28.82	29.85	13	FEW	200	10.00		60	42	51	52	10	03	29.08	30.12				
16	FEW	250	10.00		73	55	62	53	18	21	28.77	29.79	16	SCT	250	10.00		62	41	51	46	9	03	29.04	30.08				
19	CLR	NC	10.00		67	56	61	68	11	22	28.79	29.82	19	BKN	250	10.00		54	41	48	62	3	05	29.06	30.11				
22	CLR	NC	10.00		64	56	59	75	10	23	28.82	29.85	22	OVC	250	10.00		51	43	47	74	7	36	29.06	30.11				
SUNRISE: 0645					OCT 18					SUNSET: 1757					SUNRISE: 0650					OCT 24					SUNSET: 1750				
01	FEW	045	10.00		59	55	57	87	7	22	28.82	29.85	01	BKN	250	10.00		46	43	45	89	6	07	29.04	30.08				
04	FEW	045	10.00		57	54	55	90	5	26	28.84	29.86	04	OVC	250	10.00		47	42	45	83	6	03	29.04	30.09				
07	SCT	250	10.00		53	51	52	93	3	22	28.88	29.91	07	BKN	250	10.00		43	41	42	93	5	06	29.06	30.11				
10	SCT	250	10.00		61	49	54	65	0	00	28.92	29.95	10	BKN	250	10.00		55	44	49	67	10	01	29.06	30.11				
13	BKN	040	10.00		63	47	54	56	7	25	28.90	29.93	13	SCT	170	10.00		65	45	54	49	6	02	29.02	30.05				
16	OVC	060	10.00		64	44	53	48	10	30	28.91	29.94	16	SCT	100	10.00		67	40	53	37	0	00	28.98	30.01				
19	OVC	050	10.00		58	43	50	58	9	32	28.99	30.03	19	CLR	NC	10.00		59	42	50	54	0	00	29.00	30.05				
22	FEW	055	10.00		52	43	48	72	8	35	29.05	30.09	22	CLR	NC	10.00		51	44	48	77	0	00	29.02	30.07				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

OCTOBER 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: 0651					OCT 25					SUNSET: 1748			
01	CLR	NC	10.00	BCFG	47	43	45	86	0	00	29.02	30.06	
04	CLR	NC	10.00		42	41	42	96	0	00	29.02	30.06	
07	FEW	250	7.00		41	39	40	93	0	00	29.05	30.10	
10	CLR	NC	10.00		52	44	48	75	3	17	29.06	30.10	
13	CLR	NC	10.00		67	48	57	51	3	29	29.01	30.05	
16	FEW	250	10.00		69	48	57	47	5	25	28.96	30.00	
19	CLR	NC	10.00		63	49	55	60	5	22	28.97	30.01	
22	CLR	NC	10.00		58	49	53	72	3	20	28.98	30.02	
SUNRISE: 0652					OCT 26					SUNSET: 1747			
01	CLR	NC	10.00		55	49	52	80	0	00	28.95	29.98	
04	CLR	NC	10.00		53	50	51	89	0	00	28.95	29.98	
07	FEW	040	7.00		52	50	51	93	0	00	28.96	30.00	
10	FEW	030	10.00		65	58	61	78	0	00	28.99	30.02	
13	FEW	030	10.00		74	51	61	45	0	00	28.96	29.99	
16	CLR	NC	10.00		75	52	62	45	0	00	28.93	29.96	
19	CLR	NC	10.00		68	53	59	59	0	00	28.94	29.98	
22	CLR	NC	10.00		61	54	57	78	0	00	28.97	30.00	
SUNRISE: 0653					OCT 27					SUNSET: 1746			
01	CLR	NC	9.00	BCFG	54	51	52	90	0	00	28.96	29.99	
04	CLR	NC	8.00		50	48	49	93	5	05	28.98	30.01	
07	CLR	NC	6.00		50	49	49	96	0	00	29.03	30.07	
10	FEW	250	7.00		63	53	57	70	3	01	29.06	30.09	
13	SCT	250	10.00		77	62	67	60	9	24	28.99	30.02	
16	BKN	250	10.00		79	59	66	50	7	24	28.95	29.98	
19	SCT	250	10.00		70	59	63	68	0	00	28.98	30.01	
22	SCT	250	10.00		65	58	61	78	0	00	28.99	30.02	
SUNRISE: 0654					OCT 28					SUNSET: 1745			
01	CLR	NC	8.00	BR HZ HZ	57	56	56	96	0	00	29.00	30.03	
04	BKN	250	8.00		56	54	55	93	0	00	29.01	30.03	
07	SCT	250	5.00		54	52	53	93	0	00	29.04	30.07	
10	BKN	250	6.00		68	61	64	78	8	23	29.07	30.10	
13	OVC	250	5.00		74	58	64	57	22	22	29.06	30.09	
16	OVC	250	10.00		74	53	62	48	11	23	28.99	30.02	
19	OVC	250	10.00		68	56	61	65	10	25	29.00	30.03	
22	OVC	250	10.00		63	55	58	76	9	22	28.99	30.02	
SUNRISE: 0655					OCT 29					SUNSET: 1744			
01	OVC	047	10.00	-RA -RA	64	56	59	75	8	23	28.99	30.01	
04	OVC	019	7.00		54	53	53	97	14	36	29.01	30.03	
07	OVC	090	8.00		50	48	49	93	10	11	29.07	30.10	
10	OVC	028	10.00		52	49	50	89	6	36	29.07	30.11	
13	OVC	044	10.00		54	49	51	83	3	07	29.06	30.10	
16	SCT	250	10.00		59	46	52	62	0	00	29.02	30.05	
19	FEW	060	10.00		55	43	49	64	0	00	29.03	30.07	
22	FEW	055	10.00		48	44	46	86	0	00	29.05	30.10	
SUNRISE: 0656					OCT 30					SUNSET: 1743			
01	FEW	002	10.00	BCFG	44	42	43	93	0	00	29.04	30.09	
04	CLR	NC	10.00		41	39	40	93	0	00	29.04	30.09	
07	CLR	NC	10.00		39	37	38	93	0	00	29.06	30.11	
10	CLR	NC	10.00		50	42	46	74	0	00	29.06	30.11	
13	CLR	NC	10.00		57	40	49	53	5	17	29.01	30.06	
16	CLR	NC	10.00		60	40	50	47	0	00	28.96	30.00	
19	FEW	250	10.00		53	40	47	61	0	00	28.95	30.00	
22	SCT	250	10.00		45	41	43	86	3	10	28.96	30.01	

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: 0657					OCT 31					SUNSET: 1742			
01	SCT	250	10.00	-RA -RA	43	40	42	89	0	00	28.95	30.00	
04	CLR	NC	10.00		41	39	40	93	0	00	28.92	29.97	
07	BKN	095	10.00		40	38	39	93	0	00	28.92	29.97	
10	OVC	085	10.00		47	42	45	83	0	00	28.92	29.97	
13	OVC	050	10.00		51	41	46	69	6	29	28.87	29.92	
16	OVC	033	10.00		49	42	46	77	10	28	28.85	29.90	
19	OVC	050	10.00		42	35	39	76	15	31	28.89	29.95	
22	OVC	022	10.00		37	34	36	89	3	29	28.95	30.01	

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.

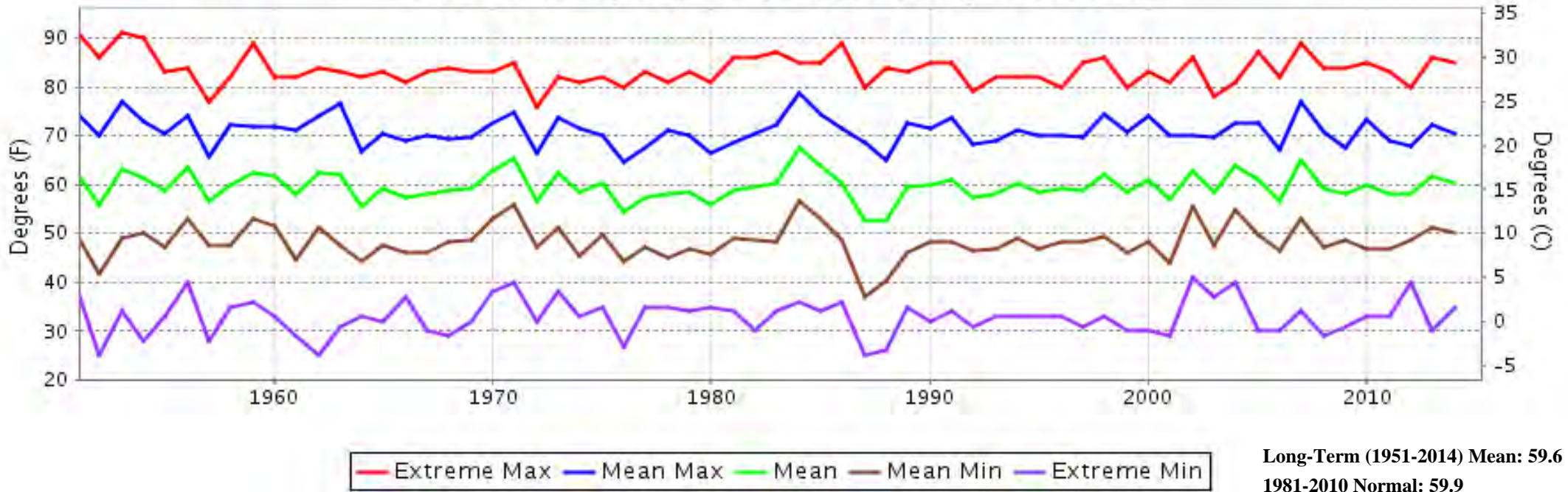
& = Original observation contained additional weather elements.

See page 3 for additional notes.

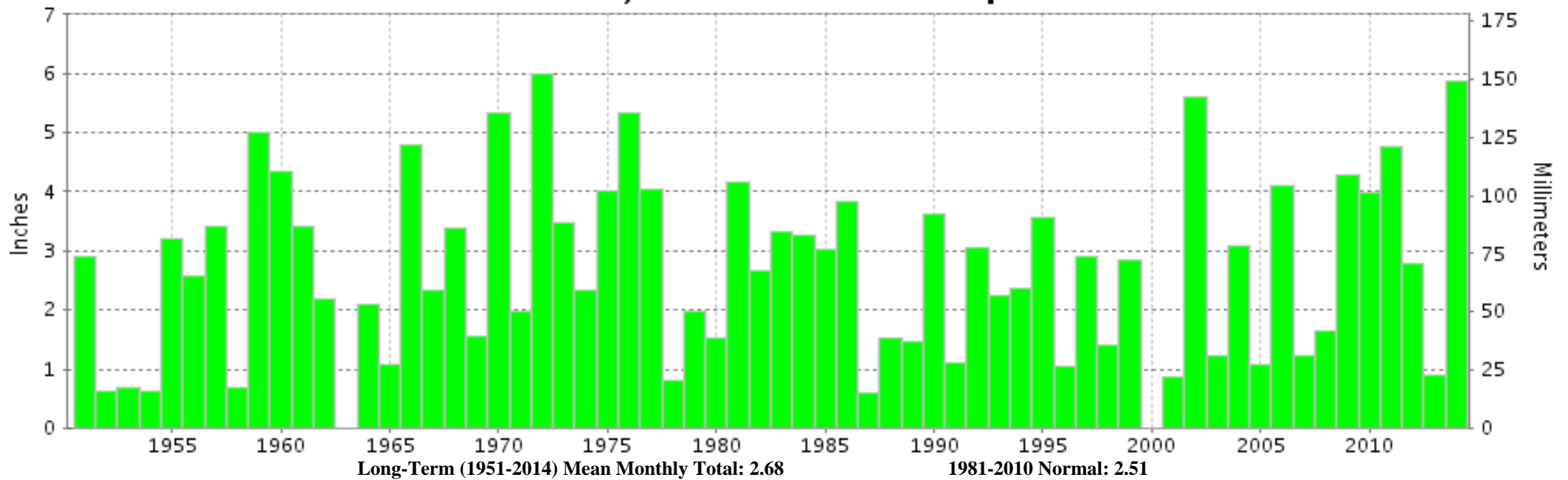
SUMMARY BY HOUR

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	56	52	54	85	28.96	29.99	9.90	5	3	25
02	56	51	53	86	28.95	29.99	9.65	6	2	25
03	55	51	53	87	28.95	29.98	8.96	6	3	25
04	54	50	52	88	28.95	29.99	8.67	5	3	25
05	53	50	52	89	28.96	29.99	8.52	5	3	25
06	53	50	51	90	28.98	30.01	7.65	5	1	23
07	52	50	51	92	28.98	30.02	6.97	4	1	21
08	54	51	52	89	28.99	30.03	7.10	4	1	21
09	57	52	54	84	29.00	30.03	8.45	5	1	22
10	61	53	56	76	29.00	30.03	8.90	6	2	24
11	64	52	57	68	28.99	30.03	9.03	7	4	26
12	65	52	58	63	28.98	30.01	9.48	8	4	26
13	67	52	59	60	28.96	29.99	9.65	10	5	26
14	68	52	59	59	28.94	29.97	9.40	9	5	26
15	68	52	59	59	28.93	29.96	8.97	10	4	26
16	68	51	59	58	28.93	29.95	9.52	10	4	26
17	67	51	58	59	28.92	29.95	9.42	9	4	26
18	65	52	58	64	28.93	29.96	9.53	8	3	25
19	62	51	56	69	28.94	29.98	9.61	6	3	26
20	61	52	56	73	28.95	29.98	9.71	7	2	25
21	59	51	55	77	28.96	30.00	9.61	6	3	25
22	58	51	55	79	28.97	30.00	9.74	6	2	25
23	57	51	54	83	28.96	30.00	9.68	4	2	24
24	56	51	53	85	28.96	29.99	9.57	5	2	25

KNOXVILLE, TN OCTOBER Temperatures



KNOXVILLE, TN OCTOBER Precipitation





**OCTOBER 2014
KNOXVILLE, TN**

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

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

DIRECTOR

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(828) 271-4800, option 2
Fax Number : 828-271-4876
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NOAA\National Climatic Data Center
Attn: User Engagement & Services Branch
151 Patton Avenue
Asheville, NC 28801-5001