



OCTOBER 2015 LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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



OCTOBER 2015
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			
																		SPEED 20	DIR 21	SPEED 22	DIR 23			
01	68	59	64	-1	60	61	1	0	RA DZ BR VCTS	0		0.0	0.08	28.84	29.86	11.3	02	11.5	26	01	21	02	01	
02	62	57	60	-5	57	58	5	0	RA BR	0		0.0	0.69	8.81	29.82	10.8	03	11.3	24	04	18	04	02	
03	61	55	58	-6	56	57	7	0	RA BR	0		0.0	0.32	28.72	29.75	9.4	04	9.7	22	03	16	04	03	
04	80	60	70	6	59	63	0	5	RA	0		0.0	T	28.80	29.84	11.3	05	11.6	28	04	22	04	04	
05	81	59	70	7	59	63	0	5		0		0.0	0.00	28.92	29.96	6.4	05	7.1	24	09	16	02	05	
06	81	59	70	7	59	63	0	5	BR	0		0.0	0.00	28.97	30.00	1.1	35	2.0	10	27	8	24	06	
07	82*	57	70	8	59	63	0	5	BCFG BR HZ	0		0.0	0.00	29.02	30.05	0.6	02	1.0	11	36	8	02	07	
08	81	57	69	7	59	63	0	4	BCFG	0		0.0	0.00	29.05	30.08	4.0	22	4.6	18	25	14	25	08	
09	79	63	71*	10	62	65	0	6	TS TSRA RA BR	0		0.0	0.72	29.02	30.04	5.4	24	8.2	30*	35	22	35	09	
10	66	60	63	2	58	60	2	0	RA BR	0		0.0	0.33	28.98	30.01	5.8	36	6.1	20	01	14	36	10	
11	69	55	62	1	55	58	3	0		0		0.0	0.00	28.95	29.97	1.1	29	2.2	14	24	12	26	11	
12	74	50	62	2			3	0	TS TSRA RA BCFG BR VCTS	0		0.0	0.15	28.82		5.7	23	6.2	24	23	16	23	12	
13	74	56	65	5	52	58	0	0	RA BR	0		0.0	0.10	28.76	29.79	9.1	25	10.0	28	26	20	26	13	
14	72	49	61	2	48	53	4	0		0		0.0	0.00	28.92	29.97	2.8	24	3.1	17	24	14	27	14	
15	74	47	61	2	47	53	4	0		0		0.0	0.00	29.05	30.11	1.0	23	1.2	12	18	9	22	15	
16	70	46	58	-1	41	50	7	0		0		0.0	0.00	29.10	30.17	3.5	34	4.4	20	01	16	36	16	
17	64	39	52	-6	34	43	13	0		0		0.0	0.00	29.23	30.29	2.6	33	4.1	16	27	13	27	17	
18	58	38	48*	-10	31	41	17	0		0		0.0	0.00	29.34	30.42	6.7	03	7.2	19	06	15	05	18	
19	65	35*	50	-7	36	43	15	0		0		0.0	0.00	29.36	30.41	1.2	35	2.1	12	22	9	01	19	
20	68	38	53	-4	38	45	12	0		0		0.0	0.00	29.31	30.36	0.5	01	0.9	8	20	6	34	20	
21	73	39	56	-1	44	50	9	0		0		0.0	0.00	29.28	30.34	0.5	29	0.9	9	33	8	28	21	
22	75	43	59	3	47	52	6	0	BCFG	0		0.0	0.00	29.25	30.29	0.6	35	1.5	8	28	6	26	22	
23	77	44	61	5	50	54	4	0	BCFG BR	0		0.0	0.00	29.15	30.18	0.3	05	1.2	9	25	8	24	23	
24	71	54	63	7	56	59	2	0	RA	0		0.0	T	29.10	30.13	0.9	34	3.1	12	23	10	26	24	
25	73	59	66	11	59	61	0	1	RA BR	0		0.0	T	29.10	30.15	2.9	02	3.9	20	02	17	02	25	
26	63	56	60	5	56	57	5	0	RA BR	0		0.0	0.15	29.13	30.18	8.5	04	8.6	20	03	16	02	26	
27	61	50	56	1	52	53	9	0	RA	0		0.0	0.15	29.04	30.05	9.4	04	9.6	23	04	18	04	27	
28	71	57	64	10	58	60	1	0	TS TSRA RA BR	0		0.0	0.39	28.72	29.74	5.1	23	8.5	29	24	22*	24	28	
29	70	53	62	8	50	55	3	0	RA	0		0.0	T	28.80	29.85	6.2	24	7.0	22	24	17	28	29	
30	62	42	52	-2	38	45	13	0		0		0.0	0.00	29.01	30.07	2.9	03	3.7			9	35	30	
31	61	44	53	-1	46	49	12	0	RA	0		0.0	0.03	29.00	30.03	2.3	03	3.3	19	31	15	31	31	
70.5		51.0	60.7	Σ	50.9	55.2	5.1	1.0	< MONTHLY AVERAGES TOTALS >			0.0	3.11	28.37	30.06	2.0	01	5.3	< MONTHLY AVERAGES					
-0.7		2.5	0.8		<----- DEPARTURE FROM NORMAL ----->								0.60	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION : 1.01 DATE : 09-10				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY									GREATEST 24-HR SNOWFALL : 0.0 DATE :				MAXIMUM :				30.50		19 1020					
TOTAL DEPARTURE									GREATEST SNOW DEPTH : 0 DATE :				MINIMUM :				29.69		28 1658					
SEASON TO DATE									NUMBER OF ->				MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 11							
HEATING : 157 -39 167 -52									THUNDERSTORMS : 3		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 9									
COOLING : 31 -5 1690 167													HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
OCTOBER 2015

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	T						T	0.02	T	T	T	T	01					0.01	0.03	T	T	T	0.02	T	T	01	0.08	0.08
02	0.02	0.01	0.01	0.01	0.08	0.14	0.07	0.07	0.12	0.02	0.09	0.01	02	0.02	0.01			0.01	0.01	T	T	T	T	T	02	0.69	0.69	
03				T	0.02	0.08					T	0.05	0.03	03		T	0.03	0.03	0.01	0.06	T	0.01		T	03	0.32	0.32	
04	T												04												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													08												08	0.00	0.00	
09						0.01	0.01	T	0.01	0.01			09						0.15	0.29	0.20	T	0.01	0.03	09	0.72	0.72	
10	0.04	0.07	0.04	0.03	0.01	0.02	0.04	0.04	0.02	0.01	T	0.01	10												10	0.33	0.33	
11													11												11	0.00	0.00	
12													12											T	0.15	12	0.15	0.15
13	0.09	0.01											13												13	0.10	0.10	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24	T		T	T		T	T	T				24	T	T	
25													25						T	T					25	T	T	
26				0.01	T	0.01	0.01	T	T	T			26	T	0.01	0.03	T	0.03	T	0.02	T		T	0.03	26	0.15	0.15	
27	0.02	0.03	0.01	T	T			0.01	0.02	0.02	T		27	T	0.01	T			T	T	0.02	0.01		T	27	0.15	0.15	
28	T				T	T	0.02	0.06	0.13	T			28	T	T			0.06	0.12						28	0.39	0.39	
29					T								29												29	T	T	
30													30												30	0.00	0.00	
31													31			T	T					T	0.02	0.01	T	31	0.03	0.03

* Indicates sum of Hourly and Daily disagree.

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

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

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 2015

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	2.50	10.00
02	2.00	10.00
03	1.50	10.00
04	10.00	10.00
05	10.00	10.00
06	5.00	10.00
07	0.25	10.00
08	7.00	10.00
09	3.00	10.00
10	3.00	10.00
11	9.00	10.00
12	0.00	10.00
13	8.00	10.00
14	9.00	10.00
15	10.00	10.00
16	10.00	10.00
17	10.00	10.00
18	9.00	10.00
19	7.00	10.00
20	10.00	10.00
21	7.00	10.00
22	6.00	10.00
23	3.00	10.00
24	7.00	10.00
25	4.00	10.00
26	4.00	10.00
27	7.00	10.00
28	2.50	10.00
29	10.00	10.00
30	10.00	10.00
31	8.00	10.00
AVGS	6.28	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
2	9	18

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
OCTOBER 2015 **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	OVC	023	10.00		66	61	63	84	10	02	28.84	29.85	01	CLR	NC	10.00		61	59	60	93	0	00	28.98	30.00				
04	OVC	022	10.00		65	60	62	84	11	03	28.82	29.84	04	CLR	NC	10.00		59	57	58	93	0	00	28.98	30.00				
07	OVC	011	4.00	-RA BR	64	61	62	90	9	02	28.84	29.86	07			0.25													
10	OVC	012	4.00	BR	64	61	62	90	11	35	28.86	29.88	10	FEW	005	7.00		68	60	63	76	0	00	29.07	30.10				
13	OVC	015	10.00		67	60	63	79	10	01	28.84	29.86	13	FEW	035	10.00		77	60	66	56	3	VR	29.05	30.07				
16	OVC	017	10.00		67	60	63	79	14	01	28.82	29.84	16	FEW	045	10.00		81	56	66	42	0	00	29.01	30.03				
19	OVC	021	10.00		62	59	60	90	13	02	28.84	29.88	19	CLR	NC	10.00		72	60	65	66	3	03	29.02	30.05				
22	OVC	016	10.00	-RA	59	57	58	93	11	02	28.86	29.89	22	FEW	003	10.00		66	60	62	81	0	00	29.05	30.08				
SUNRISE: 0631					OCT 02					SUNSET: 1819					SUNRISE: 0636					OCT 08					SUNSET: 1810				
01	OVC	016	10.00	-RA	58	56	57	93	11	02	28.84	29.86	01	CLR	NC	10.00		62	59	60	90	0	00	29.05	30.07				
04	OVC	017	10.00		59	56	57	90	6	03	28.81	29.83	04	FEW	001	10.00		59	56	57	90	0	00	29.04	30.06				
07	OVC	025	4.00	+RA BR	57	56	56	96	11	02	28.82	29.84	07	SCT	250	7.00	BCFG	58	56	57	93	0	00	29.08	30.11				
10	OVC	011	3.00	-RA BR	60	57	58	90	13	04	28.82	29.85	10	BKN	250	10.00		67	60	63	79	6	28	29.11	30.14				
13	OVC	014	5.00	-RA BR	61	58	59	90	11	03	28.81	29.83	13	BKN	250	10.00		77	61	67	58	9	22	29.07	30.09				
16	OVC	030	2.00	-RA BR	61	59	60	93	13	05	28.79	29.81	16	SCT	250	10.00		80	60	67	51	10	24	29.02	30.05				
19	OVC	020	10.00		59	57	58	93	13	02	28.79	29.81	19	BKN	250	10.00		73	60	65	64	5	22	29.02	30.04				
22	OVC	026	10.00	-RA	58	56	57	93	11	03	28.78	29.80	22	BKN	130	10.00		68	61	64	78	9	21	29.05	30.08				
SUNRISE: 0632					OCT 03					SUNSET: 1817					SUNRISE: 0637					OCT 09					SUNSET: 1809				
01	OVC	031	10.00		58	55	56	90	10	03	28.75	29.77	01	CLR	NC	10.00		66	60	62	81	5	19	29.02	30.04				
04	OVC	070	10.00	-RA	57	54	55	90	8	01	28.72	29.74	04	BKN	090	10.00		66	60	62	81	8	26	29.03	30.05				
07	OVC	023	10.00		55	53	54	93	10	04	28.73	29.75	07	OVC	043	10.00	-RA	65	62	63	90	6	17	29.05	30.08				
10	OVC	012	10.00	-RA	58	55	56	90	11	05	28.73	29.75	10	OVC	100	10.00		67	63	65	87	5	24	29.08	30.11				
13	OVC	015	10.00		60	57	58	90	11	06	28.71	29.73	13	OVC	200	10.00		76	63	68	64	14	21	29.02	30.04				
16	OVC	015	3.00	-RA BR	60	59	59	96	10	05	28.70	29.72	16	SCT	150	10.00		77	63	68	62	16	22	28.94	29.96				
19	OVC	015	3.00	-RA BR	60	59	59	96	8	05	28.73	29.76	19	OVC	060	3.00	-TSRA BR	64	62	63	93	6	04	28.99	30.02				
22	OVC	015	5.00	BR	60	59	59	96	5	05	28.77	29.79	22	BKN	120	10.00	-RA	64	62	63	93	7	36	29.01	30.03				
SUNRISE: 0633					OCT 04					SUNSET: 1816					SUNRISE: 0638					OCT 10					SUNSET: 1807				
01	BKN	065	10.00		61	59	60	93	9	04	28.78	29.80	01	OVC	100	7.00	RA	63	61	62	93	6	04	28.99	30.01				
04	SCT	065	10.00		61	58	59	90	8	04	28.76	29.78	04	OVC	023	7.00	-RA	62	60	61	93	6	01	28.96	29.98				
07	BKN	120	10.00		62	58	60	86	8	04	28.78	29.80	07	OVC	042	5.00	RA BR	62	60	61	93	6	03	28.96	29.99				
10	BKN	250	10.00		66	58	61	75	13	06	28.82	29.84	10	OVC	016	3.00	-RA BR	61	59	60	93	8	34	29.00	30.03				
13	BKN	250	10.00		77	61	67	58	15	06	28.81	29.83	13	OVC	015	5.00	BR	64	60	62	87	10	35	29.00	30.03				
16	BKN	060	10.00		78	62	68	58	21	03	28.81	29.82	16	OVC	025	7.00		64	56	59	75	13	01	28.98	30.01				
19	OVC	180	10.00		72	60	65	66	13	03	28.85	29.88	19	OVC	028	7.00		60	54	57	80	5	34	28.99	30.03				
22	BKN	180	10.00		67	58	62	73	11	05	28.90	29.92	22	OVC	022	10.00		60	54	57	80	0	00	29.01	30.04				
SUNRISE: 0634					OCT 05					SUNSET: 1814					SUNRISE: 0639					OCT 11					SUNSET: 1806				
01	CLR	NC	10.00		63	56	59	78	8	04	28.90	29.92	01	OVC	017	10.00		59	54	56	83	7	05	28.97	30.01				
04	SCT	050	10.00		59	56	57	90	6	08	28.93	29.95	04	OVC	021	10.00		60	55	57	84	0	00	28.96	29.99				
07	SCT	250	10.00		59	55	57	87	10	02	28.93	29.96	07	OVC	025	10.00		59	56	57	90	3	36	28.98	30.02				
10	FEW	250	10.00		68	57	61	68	11	05	28.97	30.00	10	OVC	027	10.00		64	57	60	78	0	00	29.00	30.03				
13	FEW	070	10.00		77	61	67	58	6	05	28.94	29.96	13	OVC	041	10.00		66	55	60	68	0	00	28.96	29.99				
16	FEW	250	10.00		81	62	69	53	9	06	28.90	29.93	16	SCT	250	10.00		68	56	61	65	7	25	28.89	29.92				
19	FEW	060	10.00		73	61	66	66	5	06	28.93	29.95	19	FEW	050	10.00		63	55	58	76	3	27	28.87	29.90				
22	FEW	250	10.00		67	62	64	84	0	00	28.95	29.97	22	CLR	NC	9.00		57	55	56	93	0	00	28.88	29.91				
SUNRISE: 0635					OCT 06					SUNSET: 1813					SUNRISE: 0640					OCT 12					SUNSET: 1805				
01	CLR	NC	10.00		64	60	62	87	6	02	28.96	29.98	01	CLR	NC	9.00		55	54	54	96	3	29	28.89	29.92				
04	BKN	250	10.00		61	59	60	93	0	00	28.96	29.98	04			0.50													
07	BKN	250	5.00	BR	60	58	59	93	3	07	28.99	30.02	07			0.12													
10	SCT	150	10.00		69	60	64	73	0	00	29.02	30.05	10	BKN	002	3.00	BR	57	55	56	93	0	00	28.89	29.93				
13	SCT	250	10.00		77	60	66	56	3	29	29.00	30.02	13	FEW	032	10.00		72	56	62	57	13	24	28.82	29.84				
16	SCT	250	10.00		80	59	67	49	7	30	28.95	29.97	16	FEW	040	10.00		73	54	62	51	13	24	28.75	29.78				
19	FEW	180	10.00		73	61	66	66	0	00	28.96	29.98	19	FEW	060	10.00		66	53	59	63	9	20	28.72	29.74				
22	FEW	055	10.00		67	61	63	81	0	00	28.98	30.00	22	SCT	120	10.00		63	53	57	70	8	23	28.71	29.73				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
OCTOBER 2015 **KTYS**

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F						PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F						PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0641 OCT 13 SUNSET: 1803																									
01	OVC	070	8.00	-RA	59	58	58	96	6	20	28.76	29.77	01	CLR	NC	10.00		42	33	38	71	3	36	29.35	30.41
04	SCT	050	10.00		60	57	58	90	9	23	28.70	29.72	04	CLR	NC	10.00		36	33	35	89	3	06	29.38	30.44
07	SCT	024	10.00		59	57	58	93	8	25	28.73	29.75	07	CLR	NC	10.00		36	33	35	89	0	00	29.42	30.48
10	FEW	016	10.00		66	59	62	78	14	20	28.76	29.78	10	CLR	NC	10.00		49	37	44	64	0	00	29.43	30.50
13	FEW	035	10.00		72	52	60	50	13	25	28.76	29.78	13	CLR	NC	7.00		61	33	48	35	3	VR	29.37	30.43
16	FEW	040	10.00		73	48	59	41	14	26	28.75	29.77	16	CLR	NC	10.00		65	37	51	36	5	29	29.30	30.35
19	FEW	080	10.00		64	46	54	52	9	27	28.79	29.82	19	CLR	NC	10.00		56	40	48	55	0	00	29.28	30.35
22	FEW	130	10.00		62	45	53	54	3	26	28.86	29.89	22	CLR	NC	10.00		50	40	45	68	0	00	29.30	30.36
SUNRISE: 0641 OCT 14 SUNSET: 1802																									
01	CLR	NC	10.00		55	47	51	74	0	00	28.87	29.90	01	CLR	NC	10.00		45	40	43	83	0	00	29.31	30.37
04	CLR	NC	10.00		51	47	49	86	0	00	28.88	29.91	04	CLR	NC	10.00		42	38	40	85	0	00	29.33	30.38
07	CLR	NC	10.00		49	46	47	90	0	00	28.93	29.97	07	CLR	NC	10.00		38	35	37	89	0	00	29.36	30.42
10	CLR	NC	10.00		62	51	56	67	5	24	28.97	30.00	10	CLR	NC	10.00		53	42	48	66	0	00	29.37	30.43
13	CLR	NC	9.00		69	48	57	47	11	23	28.95	29.98	13	FEW	250	10.00		62	32	48	32	0	00	29.31	30.37
16	FEW	020	10.00		72	46	58	40	8	26	28.92	29.95	16	FEW	250	10.00		68	33	51	27	5	03	29.24	30.29
19	CLR	NC	10.00		66	47	56	50	5	28	28.96	30.00	19	SCT	250	10.00		58	38	48	48	0	00	29.23	30.29
22	CLR	NC	10.00		57	48	52	72	0	00	29.00	30.04	22	FEW	250	10.00		50	42	46	74	0	00	29.25	30.31
SUNRISE: 0642 OCT 15 SUNSET: 1801																									
01	FEW	001	10.00		53	48	50	83	0	00	29.02	30.05	01	CLR	NC	10.00		44	41	43	89	0	00	29.27	30.33
04	CLR	NC	10.00		50	47	48	89	0	00	29.05	30.09	04	CLR	NC	10.00		43	42	43	97	0	00	29.28	30.33
07	FEW	005	10.00		48	45	47	89	0	00	29.10	30.13	07	SCT	200	9.00		40	38	39	93	0	00	29.33	30.39
10	CLR	NC	10.00		61	51	56	70	0	00	29.14	30.18	10	FEW	250	10.00		56	45	50	67	0	00	29.36	30.42
13	CLR	NC	10.00		72	40	55	31	0	00	29.09	30.12	13	CLR	NC	10.00		69	45	56	42	3	29	29.30	30.35
16	CLR	NC	10.00		73	44	57	35	6	23	29.04	30.07	16	CLR	NC	10.00		72	46	58	40	5	28	29.24	30.29
19	CLR	NC	10.00		66	47	56	50	3	24	29.03	30.07	19	CLR	NC	10.00		63	46	54	54	0	00	29.24	30.30
22	CLR	NC	10.00		58	49	53	72	0	00	29.08	30.11	22	FEW	002	10.00		53	48	50	83	0	00	29.25	30.30
SUNRISE: 0643 OCT 16 SUNSET: 1759																									
01	OVC	120	10.00		56	50	53	81	0	00	29.06	30.09	01	CLR	NC	9.00		49	46	48	90	0	00	29.25	30.29
04	FEW	100	10.00		54	50	52	87	3	26	29.06	30.09	04	CLR	NC	10.00		47	44	46	90	0	00	29.25	30.29
07	OVC	100	10.00		56	51	53	84	3	16	29.09	30.12	07	FEW	250	7.00	BCFG	43	42	43	97	0	00	29.30	30.36
10	BKN	100	10.00		61	48	54	63	6	35	29.18	30.22	10	CLR	NC	10.00		58	50	54	75	0	00	29.31	30.36
13	FEW	250	10.00		69	35	52	29	9	29	29.14	30.17	13	FEW	250	10.00		71	49	59	46	0	00	29.26	30.30
16	CLR	NC	10.00		67	28	49	23	10	36	29.13	30.16	16	BKN	250	10.00		74	47	59	38	5	25	29.19	30.24
19	CLR	NC	10.00		59	34	47	39	8	36	29.15	30.20	19	SCT	250	10.00		65	48	56	54	0	00	29.19	30.24
22	CLR	NC	10.00		51	37	45	59	0	00	29.19	30.24	22	FEW	250	10.00		56	48	52	75	0	00	29.21	30.25
SUNRISE: 0644 OCT 17 SUNSET: 1758																									
01	CLR	NC	10.00		44	38	41	79	3	19	29.21	30.26	01	CLR	NC	10.00		51	47	49	86	0	00	29.19	30.23
04	CLR	NC	10.00		41	38	40	89	0	00	29.21	30.26	04	CLR	NC	10.00		48	45	47	89	0	00	29.18	30.21
07	CLR	NC	10.00		39	36	38	89	0	00	29.24	30.29	07	SCT	250	9.00	BCFG	44	42	43	93	3	07	29.21	30.25
10	CLR	NC	10.00		55	35	46	47	5	03	29.28	30.33	10	BKN	250	9.00		60	51	55	72	0	00	29.18	30.23
13	CLR	NC	10.00		61	28	46	29	7	32	29.22	30.28	13	BKN	250	10.00		73	52	61	48	0	00	29.13	30.17
16	CLR	NC	10.00		63	30	48	29	9	29	29.19	30.24	16	OVC	250	10.00		74	50	60	43	5	26	29.08	30.11
19	CLR	NC	10.00		55	29	44	37	9	35	29.22	30.28	19	BKN	250	10.00		66	52	58	61	0	00	29.11	30.15
22	CLR	NC	10.00		49	34	42	56	8	02	29.29	30.35	22	BKN	250	10.00		61	53	57	75	3	13	29.12	30.15
SUNRISE: 0645 OCT 18 SUNSET: 1757																									
01	CLR	NC	10.00		44	34	40	68	8	03	29.29	30.35	01	SCT	250	10.00		56	52	54	87	0	00	29.08	30.11
04	CLR	NC	10.00		42	34	39	73	6	36	29.31	30.37	04	BKN	250	10.00		57	54	55	90	5	01	29.08	30.11
07	CLR	NC	10.00		38	33	36	83	5	02	29.36	30.42	07	BKN	250	10.00		55	52	53	90	0	00	29.12	30.15
10	CLR	NC	10.00		50	34	43	54	11	03	29.43	30.49	10	BKN	250	10.00		62	55	58	78	0	00	29.14	30.17
13	CLR	NC	10.00		56	31	45	39	6	05	29.39	30.45	13	BKN	110	10.00		68	56	61	65	3	29	29.12	30.15
16	CLR	NC	10.00		58	26	44	29	9	04	29.34	30.40	16	OVC	120	10.00		68	59	63	73	6	22	29.09	30.12
19	CLR	NC	10.00		52	29	42	41	6	36	29.34	30.40	19	OVC	120	10.00	-RA	64	61	62	90	3	34	29.09	30.12
22	CLR	NC	10.00		44	31	39	60	6	06	29.37	30.43	22	BKN	150	7.00		62	60	61	93	3	06	29.10	30.13

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

OCTOBER 2015 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	OVC	250	6.00	BR	60	59	59	96	0	00	29.08	30.11					
04	OVC	080	6.00	BR	60	59	59	96	0	00	29.09	30.11					
07	OVC	075	5.00	BR	60	58	59	93	0	00	29.12	30.16					
10	OVC	050	8.00		64	60	62	87	5	13	29.15	30.19					
13	OVC	180	10.00		72	59	64	64	0	00	29.12	30.15					
16	OVC	033	10.00		71	60	64	68	5	35	29.11	30.13					
19	OVC	110	10.00		64	59	61	84	10	01	29.11	30.14					
22	OVC	110	10.00		61	57	59	87	8	02	29.15	30.18					
SUNRISE: 0652					OCT 26								SUNSET: 1747				
01	SCT	055	10.00		60	54	57	80	14	03	29.11	30.14					
04	BKN	120	10.00	-RA	58	53	55	84	6	04	29.12	30.15					
07	OVC	100	10.00	-RA	56	54	55	93	7	06	29.14	30.18					
10	OVC	110	7.00	-RA	59	55	57	87	9	05	29.16	30.20					
13	OVC	100	7.00	-RA	62	58	60	86	7	03	29.14	30.17					
16	OVC	090	7.00	-RA	63	60	61	90	6	04	29.14	30.17					
19	OVC	110	10.00	-RA	58	56	57	93	11	03	29.14	30.18					
22	OVC	100	10.00		56	54	55	93	10	04	29.14	30.18					
SUNRISE: 0653					OCT 27								SUNSET: 1746				
01	OVC	090	7.00	-RA	56	54	55	93	11	04	29.15	30.19					
04	OVC	100	10.00	-RA	50	48	49	93	9	04	29.12	30.16					
07	OVC	110	10.00		50	47	48	89	11	03	29.12	30.16					
10	OVC	100	10.00	-RA	52	49	50	89	8	03	29.11	30.15					
13	OVC	110	10.00		57	53	55	87	10	06	29.01	30.05					
16	BKN	085	10.00		60	55	57	84	8	05	28.92	29.96					
19	OVC	055	10.00		59	54	56	83	8	04	28.90	29.93					
22	BKN	130	10.00		57	54	55	90	6	06	28.86	29.90					
SUNRISE: 0654					OCT 28								SUNSET: 1745				
01	OVC	110	10.00		59	54	56	83	7	05	28.79	29.83					
04	OVC	043	10.00		58	55	56	90	6	31	28.73	29.76					
07	OVC	100	8.00	-RA	57	55	56	93	5	31	28.71	29.73					
10	OVC	030	4.00	BR	62	60	61	93	6	15	28.71	29.73					
13	OVC	022	7.00	-RA	67	63	65	87	16	22	28.68	29.70					
16	FEW	065	10.00		71	61	65	71	11	22	28.68	29.69					
19	FEW	065	10.00		62	59	60	90	9	21	28.70	29.73					
22	FEW	060	10.00		60	57	58	90	11	22	28.75	29.77					
SUNRISE: 0655					OCT 29								SUNSET: 1744				
01	BKN	050	10.00		58	56	57	93	8	21	28.76	29.78					
04	OVC	060	10.00		59	56	57	90	6	23	28.77	29.78					
07	OVC	065	10.00		59	56	57	90	5	23	28.79	29.81					
10	OVC	065	10.00		60	57	58	90	8	20	28.84	29.86					
13	BKN	180	10.00		67	52	58	59	10	21	28.84	29.87					
16	BKN	250	10.00		69	39	54	33	15	27	28.82	29.84					
19	SCT	250	10.00		62	39	50	43	3	22	28.84	29.88					
22	FEW	070	10.00		57	43	50	60	7	27	28.90	29.93					
SUNRISE: 0656					OCT 30								SUNSET: 1743				
01	OVC	060	10.00		52	45	48	77	5	18	28.94	29.98					
04	CLR	NC	10.00		48	37	43	66	6	36	29.00	30.03					
07	CLR	NC	10.00		43	37	40	80	0	00	29.04	30.09					
10	CLR	NC	10.00		53	35	45	51	9	05	29.08	30.12					
13	CLR	NC	10.00		59	37	48	44	6	04	29.05	30.09					
16	FEW	250	10.00		61	37	49	41	6	05	29.03	30.07					
19	FEW	250	10.00		53	39	46	59	3	05	29.01	30.06					
22	BKN	250	10.00		47	41	44	80	3	06	29.04	30.08					

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	BKN	250	10.00		45	41	43	86	6	05	29.03	30.07					
04	BKN	250	10.00		44	41	43	89	5	04	29.02	30.07					
07	BKN	250	10.00		45	43	44	93	5	07	29.03	30.08					
10	OVC	250	10.00		52	44	48	75	3	03	29.05	30.10					
13	OVC	250	10.00		60	45	52	58	0	00	29.03	30.07					
16	OVC	110	10.00		60	47	53	62	7	08	28.99	30.03					
19	OVC	120	10.00		58	49	53	72	0	00	28.93	29.98					
22	OVC	110	10.00		55	52	53	90	7	33	28.90	29.94					

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

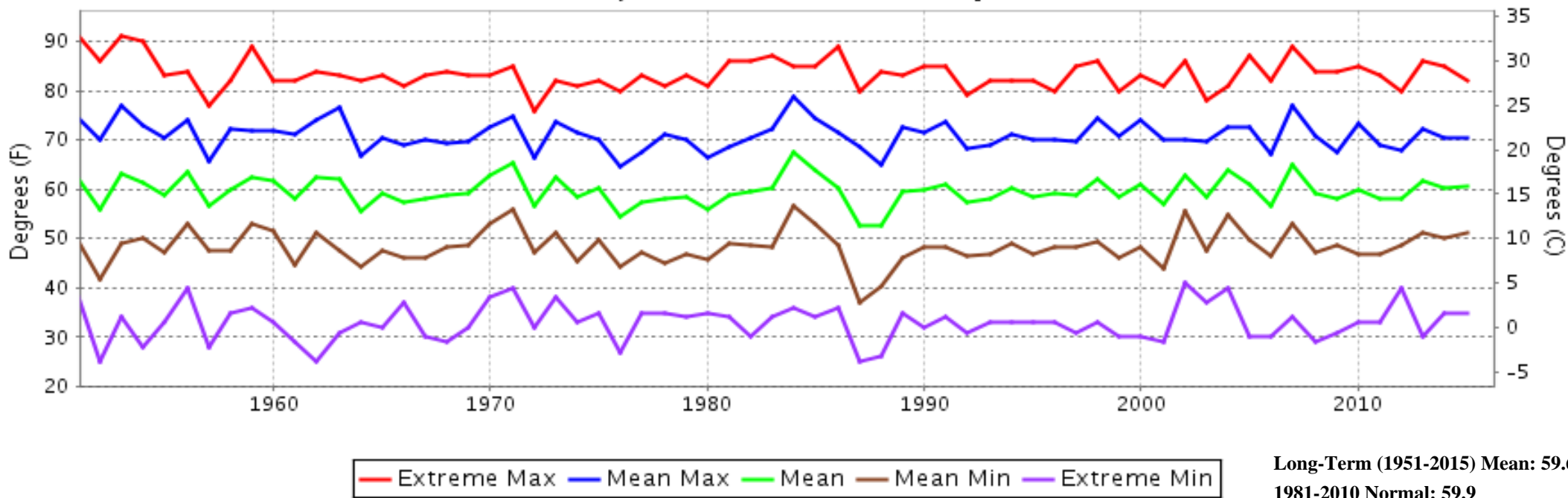
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

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

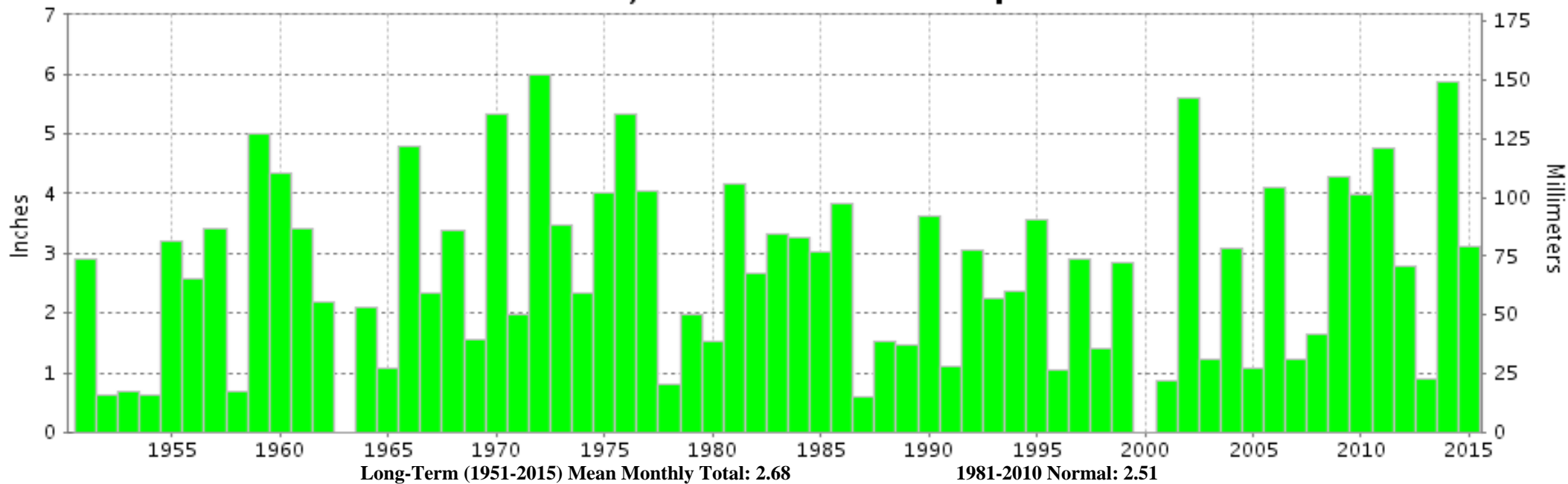
SUMMARY BY HOUR

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	51	53	86	29.02	30.05	9.55	5	3	05
02	55	51	53	86	29.02	30.05	9.61	4	3	03
03	55	51	52	87	29.02	30.05	9.44	5	2	03
04	54	50	52	88	29.02	30.05	9.47	4	3	01
05	53	50	51	89	29.02	30.06	9.29	4	3	03
06	53	50	51	90	29.04	30.07	9.29	4	3	02
07	52	49	51	90	29.04	30.08	8.17	4	3	04
08	54	51	52	88	29.06	30.10	7.74	5	3	04
09	57	51	54	83	29.07	30.12	7.81	5	3	04
10	60	52	56	76	29.07	30.10	8.65	5	3	04
11	63	52	57	69	29.06	30.10	9.00	5	2	02
12	66	52	58	63	29.05	30.08	9.23	5	2	01
13	68	51	59	58	29.03	30.06	9.35	7	2	33
14	69	51	59	55	29.01	30.05	9.50	8	3	31
15	69	51	59	54	28.99	30.03	9.23	7	3	31
16	69	50	59	54	28.99	30.02	9.32	9	2	31
17	68	50	59	55	28.99	30.02	9.39	7	2	32
18	65	51	58	62	28.99	30.03	9.35	6	2	34
19	63	51	56	67	29.00	30.04	9.45	5	2	01
20	61	51	56	71	29.01	30.05	9.55	5	2	02
21	59	51	55	76	29.02	30.05	9.65	5	2	01
22	58	51	55	79	29.02	30.06	9.71	4	3	02
23	58	51	54	81	29.02	30.06	9.94	5	2	01
24	56	51	54	84	29.02	30.05	9.61	4	3	04

KNOXVILLE, TN OCTOBER Temperatures



KNOXVILLE, TN OCTOBER Precipitation





**OCTOBER 2015
KNOXVILLE, TN**

LOCAL CLIMATOLOGICAL DATA

NOAA, National Centers for Environmental Information

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 Centers for Environmental Information (NCEI), Asheville, North Carolina 28801.

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

DIRECTOR

NCEI now offers free online access to the **Edited Local Climatological Data Publication**. Go to : www.ncdc.noaa.gov/IPS/lcd/lcd.html

We welcome your questions or comments, please contact us at:
(828) 271-4800, option 2
Fax Number : 828-271-4876
TDD : (828) 271-4010
or Email : ncei.orders@noaa.gov

NOAA, National Centers for Environmental Information
Attn: Customer Engagement Branch
151 Patton Avenue
Asheville, NC 28801-5001