



AUGUST 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



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	93	73	83	5	70	74	0	18		0		0.0	0.00	29.02	30.03	3.0	27	4.7	16	27	13	25	01	
02	90	74	82	4	71	74	0	17	RA	0		0.0	0.18	29.00	30.01	5.2	22	6.2	19	26	16	26	02	
03	93	71	82	4	68	73	0	17		0		0.0	0.00	28.97	29.97	1.5	33	3.7	14	28	13	28	03	
04	94	73	84	6	69	73	0	19	TS RA VCTS	0		0.0	0.06	28.94	29.95	1.0	29	4.2	20	23	15	28	04	
05	90	72	81	3	71	74	0	16	RA BR	0		0.0	0.19	28.92	29.93	2.7	29	4.6	24	27	16	27	05	
06	91	72	82	4	70	73	0	17	RA	0		0.0	T	28.89	29.89	2.7	28	3.7	17	36	13	36	06	
07	93	73	83	5	72	74	0	18	TS RA VCTS	0		0.0	0.02	28.87	29.88	3.4	01	5.1	21	34	13	34	07	
08	91	73	82	4	73	75	0	17	TS TSRA RA BR VCTS	0		0.0	0.74	28.87	29.89	2.0	03	4.3	30	14	26	14	08	
09	92	74	83	6	69	74	0	18	RA	0		0.0	T	28.95	29.98	3.9	14	6.6	24	18	20	17	09	
10	91	74	83	6	68	73	0	18	RA	0		0.0	0.01	29.05	30.07	3.5	13	5.4	20	13	16	12	10	
11	93	74	84	7	69	74	0	19	RA	0		0.0	T	29.03	30.04	1.8	24	5.5	19	18	16	17	11	
12	94	73	84	7	69	74	0	19	TS RA VCTS	0		0.0	T	28.94	29.95	3.0	18	5.3	23	19	18	18	12	
13	93	76	85	8	68	73	0	20		0		0.0	0.00	28.95	29.97	9.6	23	10.2	29	22	23	20	13	
14	95	74	85	8	68	73	0	20	RA	0		0.0	0.03	29.04	30.06	1.8	22	6.0	29	14	25	14	14	
15	89	72	81	4	71	73	0	16	TS TSRA RA	0		0.0	0.08	29.10	30.12	1.9	02	4.1	35	24	29	25	15	
16	96	71	84	7	68	73	0	19	TS TSRA RA VCTS	0		0.0	0.01	29.11	30.13	4.2	24	6.1	34	26	28	29	16	
17	95	72	84	7	71	74	0	19	TS RA BCFG VCTS	0		0.0	0.29	29.11	30.13	2.0	23	5.4	33	25	26	26	17	
18	85	70	78	1	70	72	0	13	TS TSRA RA BR VCTS	0		0.0	0.32	29.08	30.09	0.3	25	3.9	31	24	25	26	18	
19	81	72	77	0	71	72	0	12	RA	0		0.0	0.02	28.99	29.99	3.6	25	4.6	10	22	9	23	19	
20	87	72	80	3	71	73	0	15	RA BR HZ	0		0.0	0.18	28.88	29.88	8.1	22	7.6	22	23	15	21	20	
21	83	71	77	0	71	72	0	12	RA BR	0		0.0	0.10	28.89	29.93	6.2	23	7.4	25	25	21	23	21	
22	84	64	74	-3	61	66	0	9	BCFG	0		0.0	0.00	29.09	30.13	4.4	04	5.0	15	02	13	02	22	
23	87	61*	74*	-3	63	67	0	9		0		0.0	0.00	29.18	30.21	2.0	32	3.8	16	26	14	28	23	
24	89	69	79	3	68	72	0	14		0		0.0	0.00	29.16	30.18	2.6	24	3.8	17	24	13	25	24	
25	94	72	83	7	69	73	0	18		0		0.0	0.00	29.10	30.11	2.8	25	4.3	19	21	13	23	25	
26	95	72	84	8	69	74	0	19	BCFG	0		0.0	0.00	29.05	30.07	4.3	05	5.8	22	07	16	04	26	
27	97*	72	85*	9	69	72	0	20	TS TSRA RA HZ VCTS	0		0.0	0.10	29.05	30.07	1.5	20	5.8	45*	14	32*	12	27	
28	94	70	82	6	68	72	0	17	TS BCFG BR	0		0.0	0.00	29.09	30.11	2.1	01	3.7	23	01	18	02	28	
29	93	68	81	5	63	70	0	16		0		0.0	0.00	29.08	30.09	4.0	05	4.5	17	03	14	02	29	
30	94	68	81	6	65	70	0	16		0		0.0	0.00	29.03	30.03	1.2	16	2.5	16	26	13	11	30	
31	95	71	83	8	67	72	0	18	TS VCTS	0		0.0	0.00	28.94	29.93	1.8	29	3.0	17	32	12	33	31	

91.3			71.4			81.4			☼	68.7		72.5		0.0		16.6		< MONTHLY AVERAGES TOTALS >				0.0		2.33		29.01		30.03		1.2		24		5.1		< MONTHLY AVERAGES			
3.5			3.6			3.6				<----- DEPARTURE FROM NORMAL ----->																-0.94		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 0.76 DATE : 07-08										SEA LEVEL PRESSURE				DATE TIME															
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL : 0.0 DATE :					MAXIMUM : 30.26				23 1053																				
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH : 0 DATE :					MINIMUM : 29.80				20 1604																				
HEATING :		0		0		0		0		NUMBER OF		MAXIMUM TEMP >= 90 : 23		MINIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.01 INCH : 15																							
COOLING :		515		118		1649		368		DAYS WITH		MAXIMUM TEMP <= 32 : 0		MINIMUM TEMP <= 0 : 0		PRECIPITATION >= 0.10 INCH : 8																							
										THUNDERSTORMS : 11		HEAVY FOG : 0		SNOWFALL >= 1.0 INCH : 0																									

AUGUST 2016
KNOXVILLE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN (KTYS)
AUGUST 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				T	0.14	0.04						02	0.18	0.18		
03													03												03	0.00	0.00		
04													04											0.03	0.03	04	0.06	0.06	
05			0.17	0.02									05												05	0.19	0.19		
06													06												06	T	T		
07													07						0.02						07	0.02	0.02		
08													08			0.44	0.30								08	0.74	0.74		
09													09												09	T	T		
10													10	0.01		T									10	0.01	0.01		
11													11												11	T	T		
12													12												12	T	T		
13													13												13	0.00	0.00		
14													14												14	0.03	0.03		
15													15			0.06	0.02								15	0.08	0.08		
16													16												16	0.01	0.01		
17	0.12												17											0.01	T	T	17	0.29	0.29
18													18												18	0.32	0.32		
19													19												19	0.02	0.02		
20													20												20	0.18	0.18		
21													21	0.01	0.01										21	0.10	0.10		
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	0.10	0.10		
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)												
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	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

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

KNOXVILLE, TN AUGUST 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:2200ft Dir:W
 Augmented Elements:TEMP, PRECIP, SNOW
 Equipment:SRG, PSY, SNOWBOARD, SNOWSTICK

Date	VISIBILITY (MILES)	
	MINIMUM	MAXIMUM
01	10.00	10.00
02	7.00	10.00
03	8.00	10.00
04	6.00	10.00
05	5.00	10.00
06	8.00	10.00
07	5.00	10.00
08	0.75	10.00
09	8.00	10.00
10	8.00	10.00
11	10.00	10.00
12	10.00	10.00
13	9.00	10.00
14	10.00	10.00
15	3.00	10.00
16	10.00	10.00
17	5.00	10.00
18	5.00	10.00
19	9.00	10.00
20	2.00	10.00
21	6.00	10.00
22	7.00	10.00
23	10.00	10.00
24	10.00	10.00
25	10.00	10.00
26	7.00	10.00
27	0.50	10.00
28	6.00	10.00
29	7.00	10.00
30	10.00	10.00
31	10.00	10.00
AVGS	7.17	10.00
MINIMUM VISIBILITY (MILES)		
<= .25	<= 3.0	>= 7.0
0	4	20

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
AUGUST 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: 0543					AUG 01					SUNSET: 1941					SUNRISE: 0548					AUG 07					SUNSET: 1936				
01	SCT	060	10.00		76	70	72	82	0	00	29.02	30.03	01	BKN	150	10.00		77	70	72	79	6	08	28.86	29.87				
04	CLR	NC	10.00		74	71	72	91	0	00	29.01	30.02	04	BKN	250	10.00		74	71	72	91	5	02	28.86	29.87				
07	SCT	250	10.00		75	71	72	88	0	00	29.06	30.07	07	BKN	250	10.00		75	71	72	88	0	00	28.89	29.90				
10	SCT	250	10.00		83	72	75	70	9	24	29.07	30.08	10	OVC	250	10.00		82	73	76	74	3	02	28.90	29.91				
13	SCT	250	10.00		89	71	76	55	8	25	29.04	30.04	13	BKN	100	10.00		89	71	76	55	6	29	28.87	29.88				
16	BKN	250	10.00		92	67	75	44	9	26	28.98	29.99	16	SCT	065	5.00		89	73	78	59	3	VR	28.84	29.85				
19	BKN	250	10.00		88	70	75	55	7	26	28.99	29.99	19	OVC	150	10.00	VCTS	82	74	76	77	8	03	28.85	29.86				
22	SCT	250	10.00		81	70	74	69	3	03	29.02	30.03	22	SCT	150	10.00		76	72	73	88	5	06	28.88	29.89				
SUNRISE: 0544					AUG 02					SUNSET: 1940					SUNRISE: 0549					AUG 08					SUNSET: 1935				
01	SCT	250	10.00		77	70	72	79	0	00	29.01	30.02	01	SCT	250	10.00		75	72	73	90	3	02	28.87	29.88				
04	OVC	150	10.00		76	70	72	82	8	22	29.02	30.03	04	OVC	008	5.00	BR	74	72	73	94	3	05	28.86	29.87				
07	SCT	150	10.00		76	71	73	85	8	23	29.03	30.04	07	OVC	002	1.25	BR	74	72	73	94	5	06	28.89	29.91				
10	BKN	150	10.00		80	72	74	76	13	24	29.04	30.05	10	BKN	250	10.00		83	73	76	72	3	01	28.92	29.93				
13	BKN	250	10.00		87	70	75	57	11	22	29.01	30.02	13	BKN	250	10.00		90	71	77	54	5	VR	28.88	29.88				
16	BKN	250	10.00	-RA	88	68	74	52	3	VR	28.95	29.96	16	SCT	080	10.00		87	73	77	63	5	VR	28.84	29.85				
19	BKN	250	10.00		81	73	75	77	5	12	28.95	29.96	19	BKN	150	10.00		83	72	75	70	6	06	28.86	29.87				
22	FEW	250	10.00		78	72	74	82	0	00	28.99	30.00	22	BKN	250	10.00		79	73	75	82	6	03	28.90	29.91				
SUNRISE: 0545					AUG 03					SUNSET: 1940					SUNRISE: 0550					AUG 09					SUNSET: 1934				
01	BKN	045	10.00		75	72	73	90	0	00	28.98	29.99	01	CLR	NC	10.00		76	73	74	91	0	00	28.92	29.93				
04	CLR	NC	10.00		73	70	71	90	0	00	28.97	29.98	04	OVC	060	10.00		76	74	75	94	0	00	28.93	29.94				
07	SCT	250	10.00		74	70	71	88	3	36	29.01	30.02	07	BKN	250	10.00		77	72	74	85	6	02	28.97	29.98				
10	SCT	250	10.00		84	69	74	61	0	00	29.00	30.01	10	BKN	250	10.00		85	70	75	61	0	00	29.00	30.01				
13	SCT	250	10.00		91	66	74	44	6	08	28.97	29.98	13	BKN	250	10.00		89	68	75	50	6	12	28.98	29.99				
16	BKN	250	10.00		93	63	73	37	3	29	28.92	29.93	16	SCT	250	10.00		92	64	73	40	16	16	28.94	29.94				
19	SCT	250	10.00		88	68	74	52	8	26	28.91	29.92	19	SCT	250	10.00		89	66	73	47	10	17	28.96	29.97				
22	FEW	250	10.00		80	69	73	69	3	06	28.94	29.95	22	SCT	250	10.00		83	67	72	59	7	16	29.02	30.03				
SUNRISE: 0546					AUG 04					SUNSET: 1939					SUNRISE: 0550					AUG 10					SUNSET: 1933				
01	CLR	NC	10.00		76	70	72	82	5	04	28.93	29.94	01	BKN	250	10.00		80	69	73	69	0	00	29.02	30.03				
04	FEW	080	10.00		73	69	70	87	3	05	28.92	29.93	04	SCT	250	10.00		75	69	71	82	6	04	29.02	30.03				
07	SCT	250	10.00		74	70	71	88	5	01	28.97	29.98	07	BKN	200	10.00		76	70	72	82	3	04	29.07	30.09				
10	BKN	180	10.00		83	69	73	63	0	00	28.99	30.00	10	SCT	250	10.00		85	69	74	59	0	00	29.11	30.12				
13	SCT	200	10.00		90	69	75	50	0	00	28.93	29.94	13	BKN	060	8.00	-RA	85	69	74	59	9	19	29.10	30.11				
16	BKN	250	10.00		86	70	75	59	11	27	28.90	29.91	16	BKN	130	10.00		91	67	75	45	10	11	29.04	30.05				
19	BKN	250	10.00		88	67	74	50	7	26	28.90	29.91	19	SCT	150	10.00		88	67	74	50	10	15	29.02	30.03				
22	OVC	130	10.00		78	69	72	74	15	11	28.94	29.95	22	FEW	080	10.00		82	67	72	60	6	15	29.07	30.07				
SUNRISE: 0547					AUG 05					SUNSET: 1938					SUNRISE: 0551					AUG 11					SUNSET: 1931				
01	SCT	060	10.00		74	72	73	94	0	00	28.93	29.94	01	SCT	080	10.00		76	69	71	79	6	04	29.05	30.06				
04	OVC	043	10.00	-RA	73	71	72	94	5	11	28.92	29.93	04	OVC	110	10.00		75	70	72	84	0	00	29.06	30.07				
07	OVC	250	10.00		74	70	71	88	0	00	28.96	29.97	07	SCT	250	10.00		76	69	71	79	5	03	29.08	30.09				
10	BKN	028	10.00		81	74	76	79	6	25	28.96	29.97	10	BKN	200	10.00		85	69	74	59	3	13	29.08	30.09				
13	SCT	250	10.00		88	71	76	57	6	32	28.93	29.94	13	BKN	200	10.00		92	68	75	46	11	19	29.04	30.05				
16	SCT	150	10.00		89	68	75	50	9	35	28.88	29.89	16	SCT	150	10.00		93	68	76	44	13	23	28.99	29.99				
19	BKN	250	10.00		88	69	75	54	3	31	28.87	29.88	19	SCT	250	10.00		88	67	74	50	8	20	28.98	29.98				
22	SCT	250	10.00		80	73	75	79	3	24	28.91	29.92	22	SCT	250	10.00		82	69	73	65	3	19	28.99	30.00				
SUNRISE: 0547					AUG 06					SUNSET: 1937					SUNRISE: 0552					AUG 12					SUNSET: 1930				
01	FEW	250	10.00		77	71	73	82	0	00	28.89	29.90	01	BKN	085	10.00		79	70	73	74	0	00	28.96	29.97				
04	FEW	250	10.00		74	70	71	88	0	00	28.89	29.90	04	FEW	080	10.00		75	70	72	84	3	02	28.97	29.98				
07	SCT	250	9.00		75	70	72	84	0	00	28.92	29.92	07	SCT	250	10.00		76	71	73	85	0	00	28.99	30.00				
10	BKN	090	10.00		79	70	73	74	3	26	28.92	29.93	10	SCT	250	10.00		87	69	75	55	0	00	28.98	29.98				
13	BKN	250	10.00		86	72	76	63	6	26	28.91	29.91	13	BKN	180	10.00		91	68	75	47	9	21	28.93	29.94				
16	BKN	250	10.00		91	67	75	45	8	25	28.84	29.84	16	BKN	250	10.00	VCTS	85	71	75	63	9	30	28.90	29.91				
19	SCT	150	10.00		87	69	75	55	6	25	28.84	29.84	19	SCT	250	10.00		87	67	73	51	9	16	28.89	29.90				
22	OVC	150	10.00		81	70	73	69	9	35	28.87	29.88	22	CLR	NC	10.00		83	68	73	61	5	15	28.92	29.93				

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN
AUGUST 2016 **KTYS**

WBAN # 13891

HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG)	
					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)			STATION	SEA LEVEL						DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)			STATION	SEA LEVEL
SUNRISE: 0553 AUG 13 SUNSET: 1929										SUNRISE: 0558 AUG 19 SUNSET: 1922															
01	FEW	250	10.00		76	70	72	82	0	00	28.95	29.96	01	BKN	250	10.00		75	72	73	90	0	00	29.02	30.04
04	FEW	250	10.00		78	70	73	76	9	23	28.93	29.94	04	BKN	100	10.00		74	71	72	91	3	27	29.00	30.02
07	SCT	200	10.00		77	70	72	79	5	19	28.96	29.97	07	BKN	100	10.00		73	71	72	94	6	22	29.02	30.03
10	BKN	200	10.00		84	69	74	61	14	20	28.99	29.99	10	OVC	170	10.00		76	70	72	82	3	22	29.01	30.02
13	SCT	200	10.00		91	66	74	44	17	22	28.96	29.97	13	BKN	110	10.00		80	71	74	74	6	33	29.00	30.02
16	BKN	090	10.00		91	66	74	44	13	26	28.94	29.95	16	OVC	150	9.00	-RA	75	71	72	88	8	22	28.95	29.97
19	SCT	055	10.00		88	65	73	46	13	22	28.95	29.96	19	BKN	150	10.00		76	69	71	79	3	29	28.93	29.95
22	CLR	NC	10.00		81	67	72	62	7	21	29.01	30.01	22	OVC	200	10.00		74	70	71	88	6	24	28.93	29.95
SUNRISE: 0554 AUG 14 SUNSET: 1928										SUNRISE: 0558 AUG 20 SUNSET: 1921															
01	CLR	NC	10.00		77	68	71	74	3	17	29.02	30.03	01	BKN	200	10.00		73	70	71	90	3	21	28.94	29.95
04	CLR	NC	10.00		75	67	70	76	5	21	29.01	30.02	04	OVC	027	10.00		73	70	71	90	6	23	28.91	29.93
07	FEW	200	10.00		76	69	71	79	0	00	29.06	30.07	07	OVC	020	10.00		74	70	71	88	5	21	28.91	29.93
10	OVC	250	10.00		86	69	74	57	5	VR	29.10	30.11	10	OVC	028	10.00		78	70	73	76	10	21	28.91	29.92
13	OVC	250	10.00		92	68	75	46	11	28	29.08	30.09	13	OVC	250	10.00		83	71	75	67	10	21	28.85	29.86
16	BKN	055	10.00	-RA	86	68	74	55	23	15	29.03	30.04	16	BKN	050	10.00		87	69	75	55	15	21	28.79	29.80
19	FEW	070	10.00		86	69	74	57	7	09	29.02	30.03	19	BKN	085	10.00		78	72	74	82	9	23	28.82	29.83
22	FEW	150	10.00		80	70	73	71	0	00	29.10	30.10	22	BKN	036	6.00	BR	75	72	73	90	7	22	28.85	29.87
SUNRISE: 0554 AUG 15 SUNSET: 1927										SUNRISE: 0559 AUG 21 SUNSET: 1920															
01	CLR	NC	10.00		76	71	73	85	5	34	29.09	30.10	01	BKN	085	10.00		74	71	72	91	7	22	28.84	29.85
04	SCT	150	10.00		74	71	72	91	0	00	29.09	30.10	04	OVC	090	10.00		74	71	72	91	7	24	28.84	29.84
07	BKN	250	10.00		74	70	71	88	3	36	29.14	30.15	07	OVC	095	10.00		74	71	72	91	10	22	28.87	29.88
10	SCT	250	10.00		84	70	74	63	0	00	29.15	30.15	10	OVC	027	10.00	-RA	78	71	73	79	14	23	28.91	29.93
13	SCT	110	10.00		89	69	75	52	5	VR	29.11	30.12	13	OVC	049	8.00	-RA	79	72	74	79	11	24	28.91	29.92
16	BKN	250	10.00		81	72	75	74	5	03	29.07	30.08	16	BKN	090	10.00		80	70	73	71	6	32	28.90	29.92
19	SCT	120	10.00		83	71	75	67	9	07	29.06	30.07	19	OVC	024	6.00	-RA BR	75	71	72	88	3	04	28.94	29.96
22	SCT	130	10.00		78	72	74	82	6	03	29.15	30.16	22	SCT	065	10.00		73	70	71	90	0	00	29.02	30.03
SUNRISE: 0555 AUG 16 SUNSET: 1926										SUNRISE: 0560 AUG 22 SUNSET: 1918															
01	BKN	250	10.00		75	71	72	88	0	00	29.13	30.14	01	SCT	250	10.00		70	66	67	87	7	01	29.04	30.05
04	BKN	250	10.00		72	70	71	94	0	00	29.13	30.15	04	SCT	002	7.00		66	65	65	96	3	03	29.04	30.06
07	SCT	250	10.00		73	70	71	90	0	00	29.16	30.19	07	SCT	250	9.00		65	63	64	93	0	00	29.10	30.12
10	FEW	050	10.00		85	70	75	61	7	24	29.16	30.18	10	SCT	250	10.00		75	62	67	64	9	06	29.14	30.16
13	SCT	080	10.00		91	67	75	45	11	20	29.12	30.13	13	BKN	250	10.00		79	59	67	50	6	06	29.14	30.16
16	BKN	250	10.00		96	65	75	36	10	23	29.06	30.06	16	BKN	250	10.00		83	56	66	40	8	02	29.10	30.12
19	SCT	250	10.00		91	64	73	41	7	24	29.06	30.06	19	BKN	250	10.00		78	60	67	54	6	36	29.11	30.13
22	SCT	100	10.00		77	70	72	79	6	04	29.15	30.16	22	BKN	250	10.00		72	60	65	66	5	04	29.15	30.17
SUNRISE: 0556 AUG 17 SUNSET: 1925										SUNRISE: 0601 AUG 23 SUNSET: 1917															
01	OVC	250	5.00	-RA	76	71	73	85	0	00	29.15	30.16	01	CLR	NC	10.00		67	62	64	84	0	00	29.16	30.19
04	SCT	250	8.00		73	72	72	96	3	07	29.14	30.14	04	CLR	NC	10.00		64	61	62	90	5	02	29.18	30.20
07	BKN	250	10.00		74	71	72	91	0	00	29.15	30.16	07	SCT	250	10.00		64	60	62	87	0	00	29.21	30.24
10	SCT	180	10.00		82	71	74	69	9	23	29.16	30.18	10	SCT	250	10.00		75	64	68	69	0	00	29.23	30.26
13	SCT	250	10.00		91	70	76	50	11	22	29.10	30.11	13	BKN	250	10.00		86	64	71	48	6	31	29.21	30.22
16	BKN	250	10.00		88	66	73	48	8	31	29.04	30.05	16	BKN	250	10.00		86	63	71	46	10	29	29.15	30.18
19	BKN	130	10.00		78	73	75	85	5	11	29.07	30.09	19	BKN	250	10.00		83	64	71	53	3	28	29.16	30.19
22	BKN	250	10.00		76	72	73	88	3	05	29.12	30.13	22	BKN	250	10.00		77	66	70	69	0	00	29.18	30.20
SUNRISE: 0557 AUG 18 SUNSET: 1923										SUNRISE: 0601 AUG 24 SUNSET: 1916															
01	BKN	250	10.00		73	71	72	94	3	09	29.12	30.13	01	FEW	055	10.00		72	66	68	82	0	00	29.16	30.19
04	SCT	250	9.00		71	70	70	96	3	05	29.10	30.11	04	BKN	065	10.00		71	67	68	87	5	35	29.16	30.18
07	BKN	150	10.00		72	70	71	94	3	05	29.11	30.13	07	OVC	075	10.00		71	67	68	87	0	00	29.21	30.23
10	OVC	180	10.00		76	71	73	85	11	25	29.15	30.16	10	OVC	080	10.00		79	67	71	67	3	VR	29.21	30.24
13	BKN	150	10.00		73	69	70	87	7	15	29.11	30.13	13	BKN	200	10.00		87	68	74	53	8	24	29.18	30.20
16	BKN	200	10.00		83	67	72	59	0	00	29.03	30.04	16	BKN	250	10.00		89	67	74	48	9	22	29.12	30.13
19	BKN	250	10.00		81	70	73	69	6	32	29.01	30.02	19	SCT	250	10.00		85	69	74	59	6	26	29.10	30.12
22	BKN	250	10.00		76	71	73	85	5	16	29.04	30.06	22	FEW	250	10.00		79	70	73	74	5	23	29.14	30.15

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

AUGUST 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: 0602 AUG 25					SUNSET: 1914							
01	SCT	250	10.00		76	70	72	82	5	28	29.11	30.12
04	FEW	250	10.00		72	69	70	91	0	00	29.13	30.14
07	SCT	200	10.00		73	70	71	90	3	21	29.15	30.16
10	SCT	250	10.00		83	68	73	61	10	21	29.15	30.16
13	SCT	250	10.00		89	70	76	53	5	24	29.11	30.12
16	SCT	250	10.00		93	67	75	42	6	VR	29.05	30.06
19	SCT	250	10.00		88	70	75	55	5	30	29.04	30.05
22	FEW	250	10.00		80	71	74	74	0	00	29.06	30.07
SUNRISE: 0603 AUG 26					SUNSET: 1913							
01	CLR	NC	10.00		75	71	72	88	5	21	29.08	30.09
04	CLR	NC	7.00		73	71	72	94	0	00	29.07	30.08
07	SCT	250	7.00		74	71	72	91	3	01	29.09	30.11
10	SCT	250	10.00		85	72	76	65	5	05	29.11	30.12
13	SCT	250	10.00		92	68	75	46	11	01	29.07	30.08
16	SCT	250	10.00		94	66	75	40	13	05	28.99	30.00
19	BKN	250	10.00		89	66	73	47	8	04	28.99	30.00
22	BKN	250	10.00		84	67	73	57	0	00	29.05	30.05
SUNRISE: 0604 AUG 27					SUNSET: 1912							
01	BKN	250	10.00		78	70	73	76	5	25	29.06	30.07
04	FEW	250	10.00		74	70	71	88	3	07	29.03	30.04
07	CLR	NC	7.00		73	70	71	90	3	07	29.07	30.08
10	FEW	050	10.00		87	70	75	57	3	VR	29.10	30.10
13	SCT	060	10.00		93	68	76	44	3	VR	29.06	30.07
16	OVC	100	0.50	TS+RA	77	72	74	83	32	22	29.04	30.05
19	SCT	110	10.00		74	68	70	82	3	06	29.06	30.08
22	BKN	100	10.00		74	69	71	85	3	02	29.09	30.11
SUNRISE: 0605 AUG 28					SUNSET: 1911							
01	FEW	250	10.00		73	69	70	87	5	03	29.08	30.09
04	FEW	200	9.00		72	70	71	94	3	02	29.08	30.10
07	FEW	200	8.00	BCFG	71	69	70	94	3	13	29.14	30.16
10	FEW	250	10.00	BCFG	84	68	73	59	0	00	29.15	30.17
13	FEW	250	10.00		91	68	75	47	7	29	29.11	30.12
16	SCT	150	10.00		92	67	75	44	0	00	29.02	30.03
19	BKN	090	10.00		79	67	71	67	8	02	29.05	30.06
22	BKN	100	10.00		75	68	70	79	6	34	29.10	30.11
SUNRISE: 0605 AUG 29					SUNSET: 1909							
01	SCT	250	10.00		73	67	69	81	3	36	29.10	30.11
04	SCT	250	10.00		71	67	68	87	0	00	29.08	30.09
07	SCT	080	7.00		71	68	69	90	0	00	29.11	30.13
10	SCT	250	10.00		81	69	73	67	5	VR	29.15	30.16
13	SCT	250	10.00		90	59	70	35	10	07	29.11	30.12
16	SCT	250	10.00		92	59	71	33	6	01	29.04	30.05
19	SCT	250	10.00		87	58	69	37	6	03	29.03	30.04
22	SCT	250	10.00		80	64	70	58	5	02	29.05	30.06
SUNRISE: 0606 AUG 30					SUNSET: 1908							
01	CLR	NC	10.00		74	65	68	74	6	15	29.05	30.06
04	CLR	NC	10.00		71	66	68	84	0	00	29.05	30.06
07	CLR	NC	10.00		70	64	66	82	0	00	29.08	30.09
10	CLR	NC	10.00		84	65	71	53	0	00	29.08	30.09
13	FEW	040	10.00		89	63	72	42	6	18	29.05	30.06
16	SCT	250	10.00		93	63	73	37	7	20	28.97	29.98
19	SCT	250	10.00		87	65	72	48	3	13	28.94	29.96
22	FEW	250	10.00		80	68	72	67	0	00	28.98	29.98

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: 0607 AUG 31					SUNSET: 1906							
01	CLR	NC	10.00		75	68	70	79	0	00	28.99	30.00
04	FEW	100	10.00		74	68	70	82	0	00	28.98	29.98
07	FEW	150	10.00		73	68	70	84	0	00	28.98	29.99
10	FEW	030	10.00		84	66	72	55	3	24	28.98	29.99
13	SCT	040	10.00		91	64	73	41	3	VR	28.91	29.92
16	SCT	250	10.00		93	62	72	36	5	29	28.84	29.85
19	BKN	250	10.00		86	68	74	55	6	31	28.85	29.86
22	SCT	250	10.00		80	68	72	67	5	25	28.89	29.90

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.

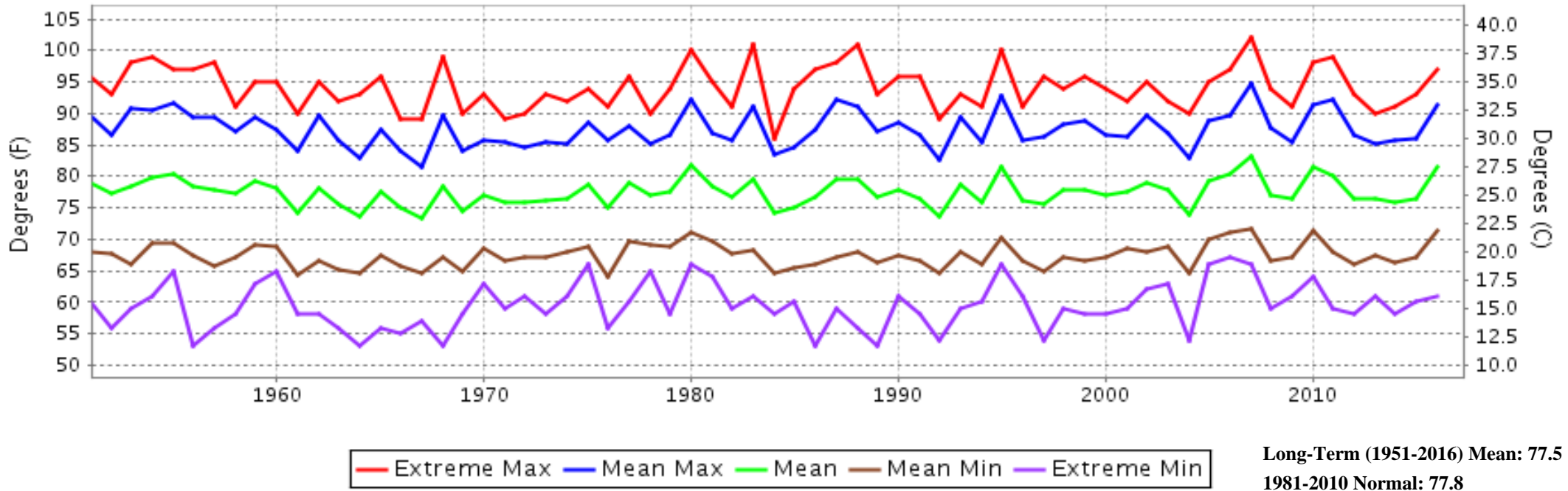
& = Original observation contained additional weather elements.

See page 3 for additional notes.

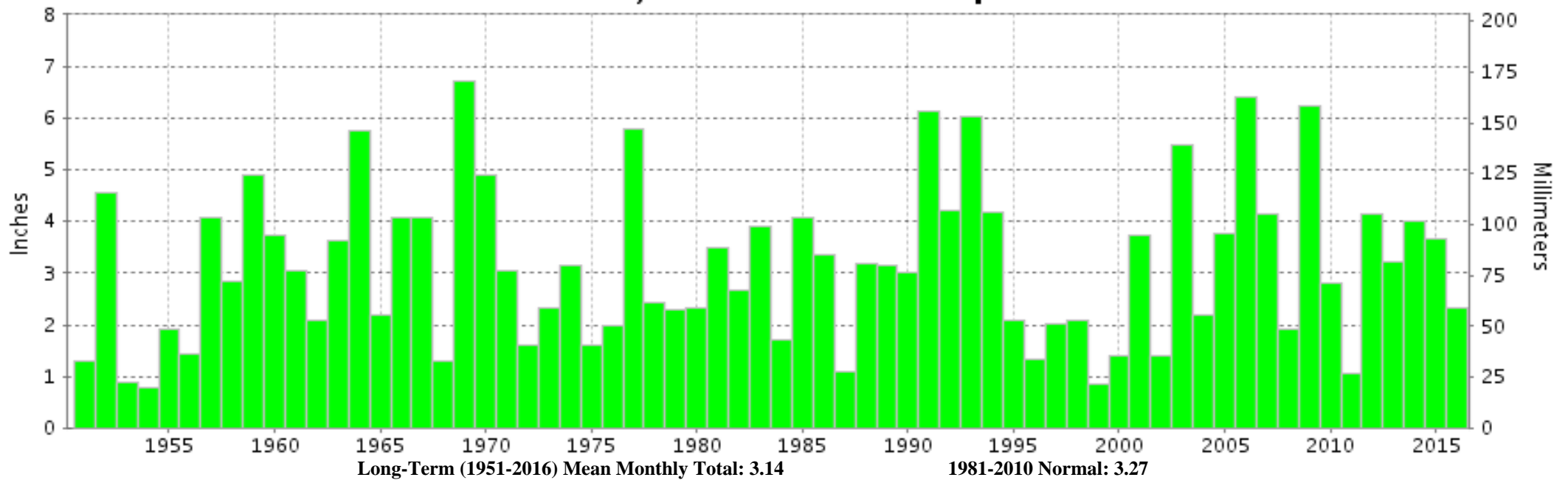
SUMMARY BY HOUR

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	75	70	71	84	29.02	30.03	9.84	2	1	15
02	74	69	71	85	29.01	30.02	9.84	2	1	24
03	74	69	71	87	29.01	30.02	9.81	3	2	26
04	73	69	71	89	29.01	30.02	9.52	3	0	19
05	73	69	70	89	29.02	30.03	9.45	3	0	19
06	72	69	70	90	29.03	30.04	9.30	3	0	14
07	73	69	71	88	29.04	30.06	9.30	3	0	19
08	76	70	72	82	29.05	30.07	9.50	4	1	23
09	79	70	73	74	29.06	30.07	9.81	4	2	26
10	82	69	73	66	29.06	30.07	10.00	5	3	26
11	84	69	74	61	29.05	30.07	9.74	6	3	26
12	86	68	74	56	29.04	30.05	9.97	7	3	26
13	88	68	74	53	29.03	30.04	9.87	8	3	26
14	88	67	74	52	29.01	30.02	9.48	8	4	27
15	89	67	74	51	28.99	30.00	9.90	8	4	27
16	88	67	74	51	28.97	29.98	9.50	9	4	26
17	88	67	74	52	28.97	29.98	9.35	8	2	26
18	86	67	74	55	28.97	29.98	10.00	8	2	26
19	84	68	73	60	28.97	29.99	9.87	7	1	24
20	82	68	73	65	28.99	30.00	9.84	5	1	25
21	80	69	73	70	29.00	30.02	9.74	4	0	17
22	79	69	72	74	29.02	30.03	9.87	4	1	11
23	77	69	72	78	29.02	30.03	9.87	3	0	16
24	76	69	72	80	29.02	30.03	10.00	3	1	25

KNOXVILLE, TN AUGUST Temperatures



KNOXVILLE, TN AUGUST Precipitation





**AUGUST 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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TDD : (828) 271-4010
or Email : ncdc.orders@noaa.gov

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