



# MARCH 2002

## LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

# KNOXVILLE, TN

MC GHEE TYSON AIRPORT (TYS)  
 Lat: 35° 49' N Long: 83° 59' W Elev (Ground): 979 Feet  
 Time Zone: EASTERN WBAN: 13891 ISSN #:0198-4810

MARCH 2002  
KNOXVILLE, TN

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE																																																							
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																																												
																			5-SEC		2-MIN																																																										
																			SPEED	DIR	SPEED	DIR																																																									
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	55	19	37	-9	16	30	28	0					0.00	29.27	30.34	4.5	06	6.0	21	16	17	17	01																																																								
02	51	37	44	-2	41	44	21	0	RA DZ BR				0.13	28.91	29.96	3.1	02	6.9	17	12	14	04	02																																																								
03	52	24	38	-8	30	35	27	0	RA SN BR				0.03	28.94	29.99	11.4	28	12.4	26	28	22	29	03																																																								
04	30	18*	24*	-22	7	19	41	0	SN				T	29.24	30.32	9.4	26	10.4	23	29	18	26	04																																																								
05	51	21	36	-10	16	31	29	0					0.00	29.35	30.43	6.9	23	7.2	17	22	15	22	05																																																								
06	63	27	45	-2	24	37	20	0					0.00	29.28	30.34	5.3	24	6.3	24	23	18	23	06																																																								
07	68	37	53	6	31	43	12	0					0.00	29.22	30.28	1.7	24	3.1	17	23	15	25	07																																																								
08	74	35	55	8	39	48	10	0					0.00	29.20	30.25	1.3	18	4.9	16	18	14	21	08																																																								
09	75	41	58	10	49	55	7	0	RA BR				0.29	29.15	30.18	13.3	22	16.7	41*	22	35*	22	09																																																								
10	50	29	40	-8	15	32	25	0					0.00	29.43	30.50	2.7	02	5.4	16	31	14	36	10																																																								
11	61	27	44	-4	21	36	21	0					0.00	29.19	30.24	4.1	04	4.8	16	06	14	04	11																																																								
12	54	44	49	0	46	48	16	0	RA BR				0.42	28.95	29.99	6.5	05	8.7	17	20	14	07	12																																																								
13	57	50	54	5	52	53	11	0	RA DZ BR				0.03	28.83	29.86	2.3	25	5.3	12	24	10	24	13																																																								
14	73	51	62	13	52	56	3	0	BR				0.00	28.91	29.95	3.0	26	3.9	17	26	16	26	14																																																								
15	76	52	64	15	56	60	1	0					0.00	28.94	29.97	12.2	25	12.7	28	24	23	24	15																																																								
16	76	57	67*	17	60	63	0	2	TSRA RA BR				0.57	28.98	30.00	8.2	24	12.2	32	23	29	24	16																																																								
17	65	55	60	10	59	60	5	0	TSRA RA BR				3.70	29.00	30.03	2.0	04	6.6	18	20	16	20	17																																																								
18	63	55	59	9	57	58	6	0	RA BR				2.45	29.09	30.12	4.6	03	6.1	22	03	18	02	18																																																								
19	74	55	65	14	55	59	0	0					0.00	29.00	30.03	3.1	24	8.9	31	22	25	23	19																																																								
20	68	54	61	10	55	57	4	0	RA BR				0.32	28.93	29.95	5.8	25	10.4	38	21	31	22	20																																																								
21	64	36	50	-1	40	47	15	0	HZ				0.00	29.03	30.07	7.6	34	11.1	28	31	21	34	21																																																								
22	41	24	33	-18	12	26	32	0	SN				T	29.27	30.34	6.3	34	8.3	25	01	21	01	22																																																								
23	56	24	40	-12	17	32	25	0					0.00	29.17	30.23	4.0	24	5.3	21	25	16	25	23																																																								
24	71	32	52	0	26	41	13	0					0.00	29.02	30.07	5.2	25	6.5	25	23	21	24	24																																																								
25	76	44	60	8	40	51	5	0					0.00	28.99	30.02	8.5	24	9.1	35	22	28	23	25																																																								
26	69	44	57	5	51	55	8	0	RA BR HZ				0.24	28.93	29.96	10.8	24	13.3	36	22	28	22	26																																																								
27	44	34	39	-14	31	36	26	0	DZ HZ				T	29.14		9.2	02	9.7	17	01	14	01	27																																																								
28	65	30	48	-6	31	40	17	0	BR HZ				0.00	29.03	30.09	1.9	04	4.6	14	24	10	03	28																																																								
29	79*	45	62	8	43	53	3	0	TS TSRA RA BR				0.58	28.88	29.91	9.8	23	12.2	39	21	32	23	29																																																								
30	61	52	57	3	54	55	8	0	TSRA RA BR				1.46	28.93	29.96	3.0	02	8.0	22	20	17	20	30																																																								
31	55	50	53	-1	50	51	12	0	TSRA RA BR				0.37	28.90	29.94	5.6	02	6.8	32	30	25	29	31																																																								
61.8										38.8		50.3		■ ■		37.9		45.5		14.5		0.1		< MONTHLY AVERAGES		TOTALS->		10.59		29.07		2.7		27		8.2		<- MONTHLY AVERAGES																																									
1.5										-.3		0.6		■ ■		<-----DEPARTURE FROM NORMAL----->																				5.42		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 4.89 DATE: 17-18										SEA LEVEL PRESSURE										DATE		TIME																																															
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:										MAXIMUM										:		30.59		10		0853																																	
HEATING: 451										-45										3061										-548										MINIMUM										:		29.75		03		0253																							
COOLING: 2										-3										2										-4										NUMBER OF DAYS WITH										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 11										PRECIPITATION ≥ 0.01 INCH: 13									
																																								MAXIMUM TEMP ≤ 32: 1										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH: 11																			
																																																		THUNDERSTORMS: 5										HEAVY FOG: 0										SNOWFALL ≥ 1.0 INCH: :									

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

MARCH 2002

TYS

WBAN # 13891

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02					T	0.01	0.01	0.02	T	T	T		02	0.02	0.03	0.01	0.02	T		T	0.01	T	T		02		0.13		
03		0.02	T	T	0.01	T	T						03								T				03		0.03		
04		T	T	T	T	T				T	T	T	04												04		T		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09	T	0.21	0.08			T						09		0.29		
10													10												10		0.00		
11													11												11		0.00		
12		T	T	0.03	0.10	0.06	0.07	0.04	0.01			0.03	0.03	0.04	0.01									12		0.42			
13		0.01	0.02	T	T	T							13											13		0.03			
14													14											14		0.00			
15													15											15		0.00			
16						T	0.15	0.33	0.09	T			16						T					16		0.57			
17			T	0.06	0.44	0.42	1.04	0.97	0.09	0.16	0.12	0.21	17	0.05	0.03	0.10					T			17		3.70			
18	0.13	0.28	0.35	0.37	0.56	0.28	0.32	0.15	0.01	T	T		18	T	T									18		2.45			
19													19												19		0.00		
20							T				T	0.20	20	0.05	T	0.04	0.03							20		0.32			
21													21											21		0.00			
22					T								22											22		T			
23													23											23		0.00			
24													24											24		0.00			
25													25											25		0.00			
26										0.14	0.07	0.03	26	T	T	T	T							26		0.24			
27	T	T	T										27											27		T			
28													28											28		0.00			
29				T									29								T	0.24	0.34	29		0.58			
30	0.12	0.09	0.02	T									30	0.01	0.11	0.27	0.48	0.15	0.06	0.03	0.01	0.08	0.01	0.08	30		1.46		
31	0.02	0.08	0.07	T	0.01	0.05	0.05	T	T				31		T	T	0.02	0.03	0.04	T				31		0.37			

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.14	.23	.26	.29	.34	.42	.49	.60	.67	.75	.87	.90
Ending Date	29	29	29	29	29	29	29	30	30	30	30	30
Ending Time (Hour/Min)	2255	2255	2257	2255	2313	2329	2336	1552	1552	1604	1604	1653

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. 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.

## 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.

Water Equivalent of snow on the ground is reported only when the depth is 2 or more inches.

NORMALS ARE FOR THE YEARS 1971–2000

### WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	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 Unknown Precipitation		

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

## KNOXVILLE, TN MARCH 2002

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).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. 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.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

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

### ADDITIONAL NOTES:

ERRATA for Jan & Feb 2002 LCD's: To stay consistent with the Heating Degree Day Season (July 2001–June 2002), NCDC reinstalled the 1961–1990 Heating Degree Day Normals and corrected the Jan & Feb 2002 LCD's. The corrected LCD's are available on NCDC's Website. The 1971–2000 Heating Degree Day Normals will go into effect with the July 2002 LCD. The new Cooling Degree Day Normals went into effect with the Jan 2002 LCD.

ERRATA –Feb LCD 2002– Please change the max temp to 45 on day 11. Monthly Heating & Dep or 657/–40 & Seasonal Heating & Dep or 2610/–503.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							2.50	10.00	
03							4.00	10.00	
04							4.00	10.00	
05							10.00	10.00	
06							8.00	10.00	
07							9.00	10.00	
08							10.00	10.00	
09							2.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							4.00	10.00	
13							4.00	10.00	
14							3.00	10.00	
15							9.00	10.00	
16							2.00	10.00	
17							.75	10.00	
18							1.75	10.00	
19							7.00	10.00	
20							1.50	10.00	
21							6.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							1.50	10.00	
27							6.00	10.00	
28							5.00	10.00	
29							2.00	10.00	
30							1.00	10.00	
31							2.00	10.00	
<b>MONTHLY AVGS</b>							5.97	10.00	
<b>SUNSHINE (MINUTES)</b>									
Total:		Possible:		Percent Possible:					
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR	PTLY	CLDY	CLOUDY	MISSING					
					31				
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25		<=3.0		>=7.0					
0		11		14					

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

MARCH 2002

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)
SUNRISE: 0706 MAR 01					SUNSET: 1831					SUNRISE: 0658 MAR 07					SUNSET: 1836										
01	CLR	NC	10.00		28	12	23	51	0	00	29.25	30.33	01	SCT	NC	10.00		46	24	37	42	8	27	29.22	30.28
04	CLR	NC	10.00		23	14	20	68	3	05	29.28	30.36	04	BKN	095	10.00		38	28	34	68	0	00	29.21	30.27
07	FEW	NC	10.00		20	15	19	81	5	07	29.33	30.42	07	OVC	100	10.00		40	31	36	70	3	32	29.25	30.31
10	BKN	250	10.00		34	19	29	54	5	07	29.37	30.45	10	BKN	280	9.00		50	29	41	44	0	00	29.28	30.34
13	BKN	250	10.00		48	17	37	29	10	05	29.28	30.36	13	SCT	NC	10.00		64	31	49	29	9	21	29.24	30.29
16	SCT	NC	10.00		54	17	40	23	7	02	29.21	30.27	16	CLR	NC	10.00		67	29	49	24	9	21	29.17	30.22
19	OVC	250	10.00		48	17	36	29	6	05	29.20	30.27	19	FEW	NC	10.00		63	31	48	30	0	00	29.18	30.22
22	OVC	250	10.00		45	15	34	30	5	11	29.21	30.27	22	FEW	NC	10.00		50	34	43	54	0	00	29.22	30.28
SUNRISE: 0705 MAR 02					SUNSET: 1832					SUNRISE: 0657 MAR 08					SUNSET: 1837										
01	OVC	250	10.00		44	17	34	34	6	VR	29.15	30.20	01	CLR	NC	10.00		44	34	40	68	0	00	29.21	30.26
04	OVC	070	10.00		44	22	36	41	7	VR	29.10	30.14	04	CLR	NC	10.00		40	33	37	77	0	00	29.21	30.27
07	OVC	080	7.00	-RA	40	34	37	79	12	02	29.06	30.11	07	CLR	NC	10.00		40	34	37	79	0	00	29.24	30.30
10	OVC	048	10.00	-RA	43	42	43	97	9	06	28.96	30.01	10	SCT	NC	10.00		53	36	45	52	5	03	29.27	30.32
13	OVC	060	10.00	-RA	50	47	48	89	5	36	28.88	29.93	13	SCT	NC	10.00		68	41	54	38	6	VR	29.22	30.27
16	OVC	055	7.00		51	51	51	100	6	36	28.76	29.80	16	FEW	NC	10.00		72	42	56	34	3	VR	29.15	30.19
19	OVC	027	4.00	-DZ BR	50	50	50	100	6	26	28.74	29.78	19	SCT	NC	10.00		68	42	54	39	9	18	29.15	30.19
22	OVC	003	3.00	BR	49	49	49	100	9	27	28.77	29.81	22	BKN	250	10.00		65	44	54	47	0	00	29.18	30.22
SUNRISE: 0703 MAR 03					SUNSET: 1833					SUNRISE: 0655 MAR 09					SUNSET: 1838										
01	OVC	023	7.00		51	51	51	100	9	29	28.75	29.78	01	BKN	250	10.00		59	46	52	62	6	13	29.17	30.20
04	OVC	021	10.00		52	52	52	100	13	24	28.73	29.76	04	BKN	250	10.00		63	51	56	65	10	19	29.11	30.14
07	OVC	014	10.00		47	45	46	93	8	23	28.79	29.83	07	OVC	150	10.00		65	52	58	63	16	20	29.10	30.12
10	OVC	017	10.00		38	33	36	83	13	29	28.93	29.98	10	BKN	150	10.00		71	54	61	55	22	19	29.09	30.11
13	BKN	022	10.00		34	25	31	70	14	29	29.01	30.07	13	OVC	070	10.00		71	55	62	57	25	23	29.10	30.13
16	SCT	NC	10.00		33	21	29	61	15	29	29.04	30.09	16	OVC	100	10.00		64	60	62	87	22	22	29.08	30.11
19	SCT	NC	10.00		29	15	25	56	12	30	29.05	30.11	19	BKN	055	10.00		60	47	53	62	17	29	29.14	30.17
22	OVC	047	10.00		26	14	22	60	8	29	29.11	30.18	22	CLR	NC	10.00		48	26	39	42	17	26	29.33	30.38
SUNRISE: 0702 MAR 04					SUNSET: 1834					SUNRISE: 0654 MAR 10					SUNSET: 1839										
01	BKN	046	10.00		24	13	21	62	8	28	29.11	30.19	01	CLR	NC	10.00		40	28	35	63	6	29	29.40	30.45
04	OVC	032	4.00	-SN	22	16	20	78	7	30	29.13	30.20	04	CLR	NC	10.00		35	20	30	54	6	35	29.45	30.51
07	BKN	048	10.00		19	3	15	49	13	28	29.20	30.28	07	CLR	NC	10.00		29	17	25	61	7	06	29.51	30.58
10	BKN	033	7.00	-SN	20	9	17	62	10	28	29.28	30.37	10	CLR	NC	10.00		37	14	29	39	9	05	29.52	30.58
13	SCT	NC	10.00		25	0	19	33	9	29	29.29	30.38	13	CLR	NC	10.00		44	13	33	28	3	VR	29.46	30.53
16	CLR	NC	10.00		29	1	22	30	14	26	29.26	30.35	16	FEW	NC	10.00		48	12	35	23	3	18	29.39	30.45
19	CLR	NC	10.00		25	6	20	44	9	23	29.25	30.35	19	FEW	NC	10.00		47	10	34	22	5	23	29.37	30.45
22	CLR	NC	10.00		23	8	19	53	9	23	29.27	30.37	22	CLR	NC	10.00		41	12	31	30	5	02	29.37	30.45
SUNRISE: 0701 MAR 05					SUNSET: 1835					SUNRISE: 0652 MAR 11					SUNSET: 1840										
01	CLR	NC	10.00		24	9	20	52	12	22	29.33	30.42	01	CLR	NC	10.00		36	14	29	40	3	07	29.33	30.40
04	OVC	060	10.00		28	9	23	45	10	23	29.33	30.42	04	CLR	NC	10.00		33	16	27	49	8	02	29.28	30.35
07	FEW	NC	10.00		27	7	21	43	0	00	29.37	30.45	07	CLR	NC	10.00		28	18	25	66	8	06	29.27	30.34
10	CLR	NC	10.00		38	12	29	34	10	23	29.42	30.50	10	FEW	NC	10.00		43	20	34	40	12	06	29.29	30.35
13	CLR	NC	10.00		46	20	36	35	6	VR	29.39	30.47	13	FEW	NC	10.00		53	18	39	25	5	VR	29.20	30.25
16	CLR	NC	10.00		50	22	39	33	5	23	29.32	30.39	16	BKN	250	10.00		59	20	43	22	3	06	29.08	30.13
19	FEW	NC	10.00		45	22	36	40	8	24	29.30	30.37	19	OVC	150	10.00		58	22	43	25	0	00	29.06	30.12
22	CLR	NC	10.00		40	24	34	53	9	22	29.32	30.39	22	OVC	250	10.00		55	28	43	36	0	00	29.06	30.11
SUNRISE: 0659 MAR 06					SUNSET: 1835					SUNRISE: 0651 MAR 12					SUNSET: 1841										
01	CLR	NC	10.00		37	22	32	54	0	00	29.32	30.38	01	OVC	070	10.00	-RA	50	33	42	52	10	05	29.05	30.09
04	CLR	NC	10.00		30	23	28	75	0	00	29.31	30.38	04	OVC	038	6.00	-RA	48	43	46	83	5	26	29.05	30.09
07	FEW	NC	10.00		27	22	25	81	0	00	29.34	30.42	07	OVC	055	4.00	-RA BR	44	44	44	100	6	08	29.05	30.10
10	SCT	NC	10.00		42	27	36	55	0	00	29.36	30.43	10	OVC	090	9.00		47	46	46	97	9	03	29.01	30.05
13	SCT	NC	10.00		59	24	44	26	14	25	29.29	30.35	13	OVC	007	4.00	-RA BR	48	48	48	100	10	06	28.94	29.99
16	CLR	NC	10.00		62	23	45	22	14	25	29.21	30.27	16	OVC	007	5.00	BR	51	50	51	96	10	04	28.88	29.93
19	CLR	NC	10.00		51	23	40	33	7	23	29.21	30.28	19	BKN	041	7.00		51	50	51	96	12	06	28.84	29.88
22	SCT	NC	10.00		47	23	37	39	6	22	29.21	30.28	22	OVC	080	5.00	BR	50	49	49	96	10	03	28.82	29.86

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

MARCH 2002

TYS

WBAN # 13891

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)							
	OBSERVATION TIME (LST)	EFF CLD AMT Ocktas		DRY BULB	DEW POINT			WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Ocktas		DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Ocktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
		<b>SUNRISE: 0650</b>				<b>MAR 13</b>		<b>SUNSET: 1842</b>						<b>SUNRISE: 0641</b>				<b>MAR 19</b>		<b>SUNSET: 1847</b>																	
01	OVC	065			5.00	BR	50	49	49	96	7	06	28.78	29.82	01	OVC	100					10.00			58	56	57	93	8	03	29.09	30.12					
04	OVC	090			5.00	-RA BR	50	50	50	100	7	07	28.72	29.75	04	OVC	150					9.00			56	54	55	93	7	04	29.05	30.09					
07	OVC	009			4.00	BR	51	51	51	100	6	29	28.77	29.80	07	OVC	250					8.00			55	53	54	93	3	04	29.03	30.07					
10	OVC	011			6.00	BR	52	51	52	97	3	26	28.84	29.87	10	BKN	250					10.00			62	56	59	81	7	32	29.02	30.05					
13	OVC	013			10.00		56	53	54	90	5	25	28.85	29.88	13	OVC	042					10.00			68	57	61	68	10	28	28.99	30.03					
16	OVC	027			9.00		57	53	55	87	10	23	28.83	29.86	16	BKN	250					10.00			72	54	61	53	24	22	28.94	29.97					
19	OVC	018			9.00		56	53	54	90	5	20	28.88	29.92	19	OVC	250					10.00			68	55	60	63	12	23	28.97	30.00					
22	OVC	019			5.00	BR	53	52	52	96	0	00	28.90	29.94	22	OVC	250					10.00			65	54	59	68	5	18	28.96	29.98					
		<b>SUNRISE: 0648</b>				<b>MAR 14</b>		<b>SUNSET: 1842</b>						<b>SUNRISE: 0640</b>				<b>MAR 20</b>		<b>SUNSET: 1848</b>																	
01	OVC	027			4.00	BR	52	52	52	100	0	00	28.91	29.96	01	OVC	090					10.00			64	55	59	73	7	19	28.89	29.92					
04	OVC	021			3.00	BR	52	51	52	97	0	00	28.90	29.93	04	OVC	080					9.00			61	54	57	78	6	24	28.87	29.88					
07	OVC	019			6.00	BR	52	51	52	97	0	00	28.94	29.98	07	OVC	080					8.00			62	56	59	81	15	23	28.90	29.93					
10	BKN	019			10.00		56	50	53	81	3	33	28.97	30.01	10	OVC	042					10.00			68	56	61	66	26	22	28.87	29.88					
13	BKN	250			10.00		64	52	57	65	0	00	28.95	29.98	13	OVC	019			-RA BR		5.00			62	60	61	93	14	26	28.91	29.94					
16	BKN	250			10.00		73	53	61	50	0	00	28.87	29.89	16	OVC	030					7.00			60	56	58	86	7	33	28.95	29.98					
19	SCT	NC			9.00		68	54	60	61	0	00	28.86	29.88	19	SCT	NC					10.00			57	52	54	83	12	03	28.96	30.00					
22	FEW	NC			10.00		62	50	55	65	9	23	28.89	29.93	22	OVC	026					10.00			54	49	51	83	8	01	28.99	30.03					
		<b>SUNRISE: 0647</b>				<b>MAR 15</b>		<b>SUNSET: 1843</b>						<b>SUNRISE: 0638</b>				<b>MAR 21</b>		<b>SUNSET: 1848</b>																	
01	CLR	NC			10.00		62	52	56	70	14	25	28.90	29.93	01	OVC	026					10.00			53	49	51	86	7	07	28.98	30.02					
04	FEW	NC			10.00		59	50	54	72	12	27	28.90	29.92	04	OVC	025					10.00			52	46	49	80	9	02	28.96	30.00					
07	FEW	NC			10.00		56	50	53	81	10	25	28.97	30.00	07	OVC	027					8.00			51	45	48	80	9	04	28.99	30.03					
10	BKN	250			10.00		66	53	59	63	23	24	29.00	30.03	10	OVC	029					10.00			54	46	50	75	10	03	29.05	30.09					
13	BKN	080			10.00		73	59	64	62	16	25	28.97	30.00	13	SCT	NC					10.00			59	43	51	56	7	VR	29.05	30.09					
16	BKN	180			10.00		75	61	66	62	20	23	28.92	29.95	16	FEW	NC					10.00			64	36	50	35	6	36	28.99	30.03					
19	SCT	NC			10.00		70	60	64	71	9	27	28.92	29.95	19	FEW	NC					10.00			56	31	45	39	16	29	29.01	30.05					
22	FEW	NC			10.00		65	58	61	78	7	24	28.93	29.96	22	OVC	021					10.00			42	33	38	71	20	34	29.15	30.20					
		<b>SUNRISE: 0645</b>				<b>MAR 16</b>		<b>SUNSET: 1844</b>						<b>SUNRISE: 0637</b>				<b>MAR 22</b>		<b>SUNSET: 1849</b>																	
01	BKN	200			10.00		67	59	62	76	12	24	28.92	29.94	01	BKN	040					10.00			34	19	29	54	10	35	29.21	30.27					
04	OVC	034			10.00		69	60	64	73	14	24	28.89	29.91	04	BKN	043					10.00			29	16	25	58	18	02	29.25	30.32					
07	OVC	020			3.00	+RA BR	66	63	64	90	14	28	28.93	29.96	07	FEW	NC					10.00			24	8	20	50	9	36	29.32	30.39					
10	OVC	060			10.00		64	61	62	90	12	28	28.98	30.01	10	FEW	NC					10.00			28	11	23	49	7	03	29.34	30.42					
13	OVC	027			10.00		71	61	65	71	17	24	29.01	30.03	13	CLR	NC					10.00			35	11	27	37	8	32	29.31	30.38					
16	SCT	NC			10.00		76	61	67	60	15	24	28.98	30.00	16	CLR	NC					10.00			40	12	31	32	8	28	29.25	30.32					
19	BKN	036			10.00		70	60	64	71	8	02	29.02	30.04	19	CLR	NC					10.00			37	14	29	39	6	22	29.22	30.30					
22	BKN	150			10.00		60	55	57	84	8	01	29.04	30.08	22	CLR	NC					10.00			34	12	27	40	5	29	29.25	30.33					
		<b>SUNRISE: 0644</b>				<b>MAR 17</b>		<b>SUNSET: 1845</b>						<b>SUNRISE: 0635</b>				<b>MAR 23</b>		<b>SUNSET: 1850</b>																	
01	BKN	150			10.00		58	54	56	87	6	03	29.02	30.05	01	CLR	NC					10.00			30	16	25	56	5	22	29.24	30.32					
04	OVC	041			4.00	TSRA BR	56	54	55	93	9	33	28.96	29.98	04	CLR	NC					10.00			27	19	24	72	0	00	29.22	30.30					
07	OVC	008			1.75	TSRA BR	57	57	57	100	10	14	28.99	30.02	07	CLR	NC					10.00			26	18	23	71	0	00	29.25	30.33					
10	OVC	008			2.00	-TSRA BR	59	59	59	100	6	17	29.04	30.08	10	CLR	NC					10.00			37	13	29	37	5	22	29.24	30.32					
13	OVC	028			3.00	-RA BR	63	62	62	97	6	22	29.05	30.09	13	CLR	NC					10.00			48	16	36	28	7	25	29.19	30.24					
16	OVC	028			10.00		64	63	63	96	5	05	28.98	30.01	16	CLR	NC					10.00			55	18	40	23	10	28	29.09	30.15					
19	BKN	100			10.00		63	62	62	97	8	04	28.97	30.01	19	FEW	NC					10.00			51	15	38	24	8	25	29.06	30.12					
22	BKN	110			4.00	BR	62	61	61	96	0	00	28.97	30.00	22	CLR	NC					10.00			47	16	36	29	3	21	29.07	30.13					
		<b>SUNRISE: 0643</b>				<b>MAR 18</b>		<b>SUNSET: 1846</b>						<b>SUNRISE: 0634</b>				<b>MAR 24</b>		<b>SUNSET: 1851</b>																	
01	OVC	020			3.00	RA BR	61	60	60	97	13	34	28.96	30.00	01	CLR	NC					10.00			44	18	34	35	3	25	29.07	30.12					
04	OVC	027			2.00	+RA BR	56	55	55	97	8	05	28.97	30.00	04	CLR	NC					10.00			34	27	31	76	3	07	29.07	30.12					
07	OVC	014			2.00	RA BR	56	55	55	97	5	09	29.08	30.11	07	SCT	NC					10.00			35	24	31	64	3	03	29.11	30.17					
10	OVC	002			9.00	-RA	58	56	57	93	8	03	29.12	30.15	10	SCT	NC					10.00			51	23	40	33	0	00	29.11	30.16					
13	OVC	006			10.00	-RA	60	58	59	93	3	31	29.14	30.17	13	SCT	NC					10.00			65	24	47	21	20	23	29.04	30.08					
16	BKN	085			10.00		62	59	60	90	0	00	29.11	30.14	16	BKN	200					10.00			70	27	50	20	14	26	28.94	29.98					
19	OVC	085			10.00		61	58	59	90	5																										

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

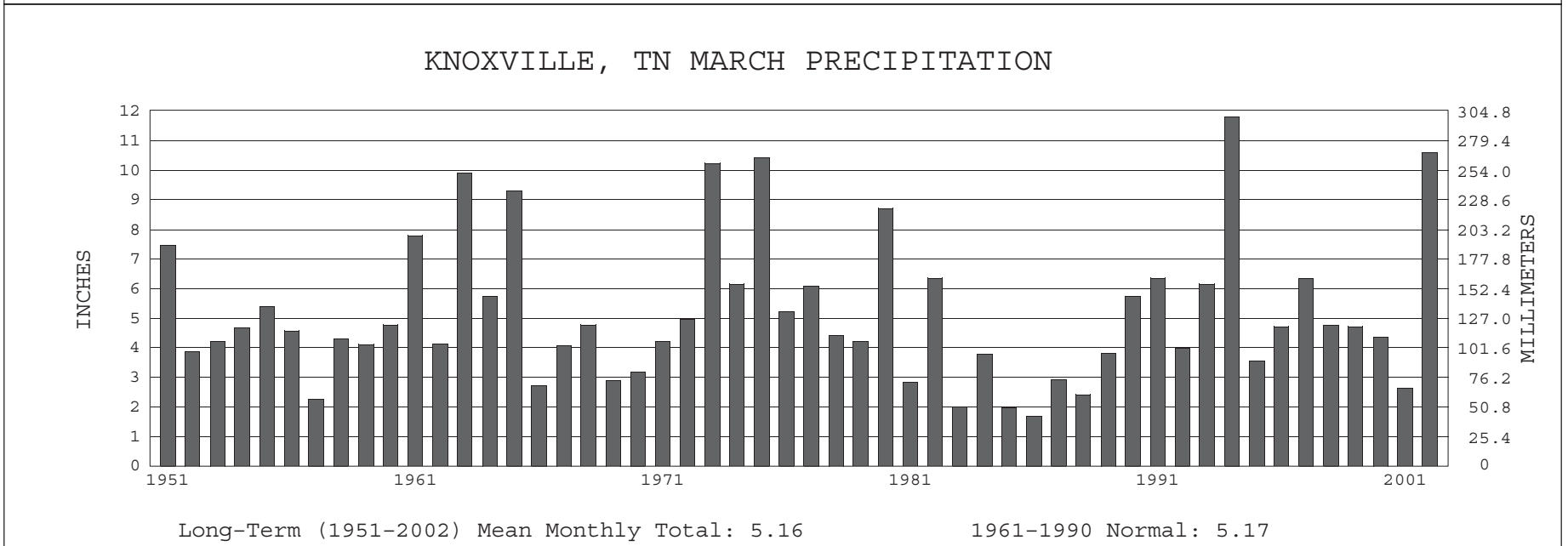
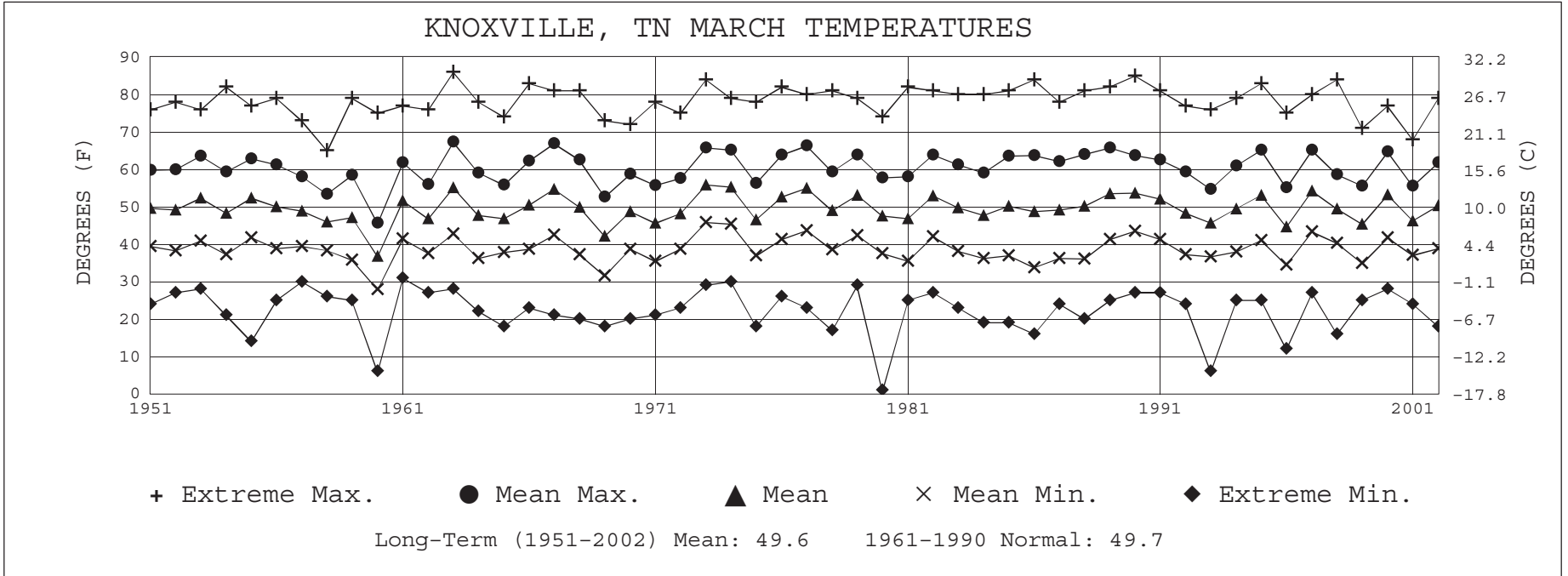
MARCH 2002

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)				
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)
<b>SUNRISE: 0633</b>				<b>MAR 25</b>				<b>SUNSET: 1852</b>				<b>SUNRISE: 0624</b>				<b>MAR 31</b>				<b>SUNSET: 1857</b>						
01	OVC	250		10.00	49	31	41	50	0	00	28.96	30.00	01	OVC	030		5.00	-RA BR	52	50	51	93	3	35	28.98	30.02
04	OVC	250		10.00	47	34	41	61	0	00	28.97	30.00	04	OVC	007		8.00	-RA	51	50	51	96	12	02	28.91	29.95
07	SCT	NC		10.00	45	34	40	66	0	00	28.97	30.01	07	OVC	012		8.00	-RA	50	49	49	96	8	01	28.93	29.97
10	SCT	NC		10.00	66	43	54	43	17	23	29.02	30.06	10	OVC	007		6.00	BR	52	50	51	93	9	05	28.87	29.91
13	SCT	NC		10.00	74	38	55	27	17	27	29.01	30.04	13	OVC	037		10.00		54	50	52	87	3	14	28.88	29.92
16	SCT	NC		10.00	75	43	58	32	17	23	28.95	29.98	16	OVC	012		4.00	-RA BR	52	50	51	93	3	02	28.87	29.91
19	BKN	250		10.00	70	44	56	39	13	26	28.98	30.01	19	OVC	090		9.00		52	50	51	93	7	34	28.87	29.90
22	SCT	NC		10.00	64	49	56	58	6	24	29.01	30.04	22	OVC	021		10.00		52	49	50	89	7	01	28.92	29.96
<b>SUNRISE: 0631</b>				<b>MAR 26</b>				<b>SUNSET: 1853</b>				<b>3-HOURLY OBSERVATION NOTES</b>														
01	OVC	060		10.00	64	48	55	56	3	15	28.95	29.98	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, VV = Vertical Visibility = 8/8.													
04	BKN	100		10.00	61	50	55	67	0	00	28.87	29.89	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.													
07	BKN	085		10.00	69	56	61	63	20	21	28.87	29.88	NC = No ceiling detected.													
10	OVC	036		2.50	63	60	61	90	22	23	28.91	29.94	& = Original observation contained additional weather elements.													
13	BKN	050		7.00	66	60	62	81	22	21	28.87	29.90	See page 3 for additional notes.													
16	OVC	022		10.00	62	56	59	81	14	29	28.88	29.91														
19	SCT	NC		10.00	52	44	48	75	13	28	28.98	30.01														
22	OVC	018		10.00	46	40	43	79	9	28	29.06	30.10														
<b>SUNRISE: 0630</b>				<b>MAR 27</b>				<b>SUNSET: 1853</b>																		
01	OVC	016		10.00	42	36	39	79	12	02	29.09	30.13														
04	OVC	016		10.00	40	33	37	77	7	36	29.10	30.14														
07	OVC	012		7.00	37	33	35	86	10	01	29.14	30.19														
10	OVC	012		6.00	37	31	35	79	12	35	29.18	30.23														
13	OVC	019		9.00	40	32	37	73	9	01	29.16															
16	OVC	021		8.00	41	31	37	67	12	02	29.15															
19	BKN	023		7.00	39	30	35	70	9	08	29.14															
22	BKN	024		10.00	36	28	33	73	9	03	29.14															
<b>SUNRISE: 0628</b>				<b>MAR 28</b>				<b>SUNSET: 1854</b>																		
01	CLR	NC		8.00	33	27	31	78	8	04	29.11	30.17														
04	CLR	NC		8.00	32	27	30	82	7	04	29.09	30.15														
07	CLR	NC		5.00	31	27	29	85	5	01	29.11	30.17														
10	CLR	NC		8.00	42	31	37	65	6	05	29.12	30.18														
13	CLR	NC		10.00	55	34	45	45	3	VR	29.06	30.11														
16	CLR	NC		10.00	64	30	48	28	7	23	28.94	29.99														
19	FEW	NC		10.00	61	31	47	32	0	00	28.93	29.98														
22	CLR	NC		10.00	52	34	44	50	8	17	28.95	30.00														
<b>SUNRISE: 0627</b>				<b>MAR 29</b>				<b>SUNSET: 1855</b>																		
01	SCT	NC		10.00	49	37	43	64	7	30	28.93	29.97														
04	OVC	075		10.00	50	38	44	63	0	00	28.95	29.99														
07	FEW	NC		10.00	45	38	42	77	3	06	28.96	30.00														
10	CLR	NC		10.00	61	39	50	44	0	00	28.95	29.99														
13	BKN	250		10.00	74	42	57	32	21	24	28.89	29.92														
16	SCT	NC		10.00	78	47	60	33	26	22	28.78	29.80														
19	BKN	250		10.00	72	45	57	38	15	23	28.80	29.82														
22	OVC	100		10.00	72	47	58	41	17	21	28.77	29.78														
<b>SUNRISE: 0625</b>				<b>MAR 30</b>				<b>SUNSET: 1856</b>																		
01	OVC	025		8.00	60	57	58	90	15	19	28.86	29.88														
04	OVC	110		10.00	60	56	58	86	6	24	28.84	29.86														
07	BKN	010		10.00	57	53	55	87	5	01	28.92	29.95														
10	OVC	016		2.00	55	53	54	93	8	06	28.93	29.96														
13	OVC	021		5.00	58	52	55	81	8	36	28.97	30.01														
16	OVC	012		1.00	55	54	54	96	8	02	28.94	29.98														
19	OVC	024		3.00	54	53	53	97	3	02	28.95	29.99														
22	OVC	037		6.00	52	51	52	97	5	06	29.01	30.06														







MARCH 2002

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.*

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions on-line with your credit card, go to: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov) and choose subscriptions.

We welcome your questions or comments, please contact us at  
Toll Free Number (866) 742–3322 (voice)  
Fax Number :(304) 726–4409  
TDD : 828–271–4010  
or Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)  
Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center  
310 State Route 956 Building 300  
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS  
POSTAGE AND FEES PAID  
NOAA  
PERMIT G-19