



# FEBRUARY 2000

## 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): 992 Feet  
 Time Zone: EASTERN WBAN: 13891 ISSN #: 0198-4810

FEBRUARY 2000  
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		
1	2	3	4	5	6	7	8	9	11	12	13	14	15	16	17	18	19	20	21	22	23	24	
01	34	21	28*	-9	24	27	37	0			0.0	0.00	29.15	30.24	6.5	26	8.1	20	27	16	29	01	
02	43	19	31	-6	19	26	34	0	BR		0.0	0.00	29.25	30.34	0.9	03	2.0	10	34	8	01	02	
03	50	21	36	-1	22	32	29	0			0.0	0.00	28.93	30.00	11.3	24	11.7	31	23	25	24	03	
04	43	30	37	-1	23	31	28	0	SN		T	T	28.98	30.05	10.1	28	10.7	28	29	21	29	04	
05	41	27	34	-4	19	28	31	0	SN		T	T	29.26	30.35	3.2	26	4.2	14	30	10	36	05	
06	48	18*	33	-5	18	28	32	0			0.0	0.00	29.28	30.37	1.3	29	5.2	13	01	10	26	06	
07	56	31	44	6	24	35	21	0			0.0	0.00	29.20	30.27	6.7	22	7.0	17	21	15	21	07	
08	59	27	43	5	29	37	22	0			0.0	0.00	29.23	30.30	1.1	03	2.4	10	01	8	32	08	
09	60	28	44	5	31	39	21	0			0.0	0.00	29.13	30.20	2.3	23	3.7	18	25	14	25	09	
10	68	30	49	10	34	42	16	0	BR HZ		0.0	0.00	28.89	29.95	5.3	23	7.0	23	22	21	22	10	
11	67	44	56	17	46	51	9	0	RA BR		0.0	0.11	28.87	29.91	5.3	27	12.1	23	23	20	23	11	
12	47	43	45	6	45	45	20	0	TSRA RA DZ BR		0.0	1.21	28.95	30.01	4.3	02	5.7	16	02	14	02	12	
13	58	45	52	13	49	49	13	0	TSRA RA FG+ BR		0.0	0.63	28.85	29.90	1.1	32	6.8	46	25	34	26	13	
14	55	41	48	8	45	47	17	0	TSRA RA BR		0.0	0.10	28.82	29.87	10.3	27	11.9	25	29	21	29	14	
15	58	33	46	6	36	41	19	0			0.0	0.00	29.11	30.18	2.6	36	3.7	13	03	10	03	15	
16	69	40	55	15	40	47	10	0			0.0	0.00	29.09	30.15	5.1	29	8.0	26	25	23	25	16	
17	54	35	45	4	36	41	20	0	TSRA RA BR		0.0	0.16	29.21	30.28	8.4	03	8.9	20	04	16	04	17	
18	70	45	58	17	53	54	7	0	TS RA BR		0.0	0.68	28.98	30.03	10.9	23	13.9	47*	22	39*	22	18	
19	63	38	51	10	40	43	14	0	RA BR		0.0	0.19	29.11	30.17	9.8	29	11.2	32	29	26	29	19	
20	44	30	37	-4	30	35	28	0			0.0	0.00	29.34	30.43	1.8	34	4.4	18	26	11	23	20	
21	55	26	41	-1	29	36	24	0	BR		0.0	0.00	29.37	30.46	3.0	03	3.5	13	07	11	05	21	
22	52	34	43	1	37	41	22	0	RA		0.0	T	29.34	30.42	2.0	04	2.5	8	03	8	01	22	
23	66	38	52	10	41	46	13	0			0.0	0.00	29.29	30.36	0.7	24	3.2	11	24	11	24	23	
24	71	43	57	14	45	51	8	0			0.0	0.00	29.21	30.27	4.6	24	6.2	26	23	23	23	24	
25	75	46	61	18	51	55	4	0	BR		0.0	0.00	29.17	30.22	3.4	23	4.7	18	23	15	23	25	
26	77*	49	63*	20	50	57	2	0			0.0	0.00	29.10	30.15	9.7	20	10.9	29	17	24	23	26	
27	67	47	57	13	51	53	8	0	RA BR		0.0	0.34	29.07	30.12	7.1	23	9.2	28	29	22	29	27	
28	59	35	47	3	36	42	18	0			0.0	0.00	29.22	30.29	3.4	04	4.9	17	04	14	05	28	
29	68	32	50	6	38	44	15	0			0.0	0.00	29.14	30.20	1.8	23	3.4	15	22	13	31	29	
< MONTHLY AVERAGES										TOTALS-->		T	3.42	29.12	30.19	3.0	26	6.8	<- MONTHLY AVERAGES				
6.9				5.2		6.0		<----- DEPARTURE FROM NORMAL ----->						- .64						SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.21 DATE :12				SEA LEVEL PRESSURE				DATE		TIME				
MONTHLY									GREATEST 24-HR SNOWFALL: T DATE :05+				MAXIMUM				: 30.55		: 21 1053				
SEASON TO DATE									GREATEST SNOW DEPTH: 0 DATE :				MINIMUM				: 29.63		: 14 0053				
TOTAL DEPARTURE									NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 0		MINIMUM TEMP ≤ 32: 13		PRECIPITATION ≥ 0.01 INCH : 8						
HEATING: 542 -176									2675 -459		MAXIMUM TEMP ≤ 32 : 0		MINIMUM TEMP ≤ 0 : 0		PRECIPITATION ≥ 0.10 INCH : 8								
COOLING: 0 0									0 0		THUNDERSTORMS : 5		HEAVY FOG : 1		SNOWFALL ≥ 1.0 INCH : 0								

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

FEBRUARY 2000

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													02												02		0.00		
03													03												03		0.00		
04													04				T							T	04		T		
05	T	T	T	T	T	T							05				T							T	05		T		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12	0.04	0.22	0.19	0.01	0.03	0.07	0.22		0.01				12												12	0.10	0.11		
13													13				T								13	0.79	1.21		
14	0.10		0.01	T	0.01								14				T				0.01				14	0.61	0.63		
15													15												15	0.12	0.10		
16													16												16		0.00		
17													17												17		0.16		
18	T	0.02		T	T	0.03	T	T	0.01				18								T	0.06			18	0.61	0.68		
19	0.08	T	0.16	0.02	T								19												19	0.26	0.19		
20													20								T	0.06			20		0.00		
21													21												21		0.00		
22					T	T	T						22												22		T		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27				T		0.07	0.01	0.05	0.14	0.02			27	0.01	0.04	T								27		0.34			
28													28												28		0.00		
29													29												29		0.00		

### 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 (Hour/Min)												

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 1961 – 1990

## 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	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		
Intensity (as indicated on pages 4 to 6): '+ ' = Heavy      ' ' = Moderate      '- ' = Light			

# KNOXVILLE, TN FEBRUARY 2000

Ceilorometer (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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							8.00	10.00	
02							5.00	10.00	
03							10.00	10.00	
04							4.00	10.00	
05							9.00	10.00	
06							8.00	10.00	
07							9.00	10.00	
08							7.00	10.00	
09							8.00	10.00	
10							6.00	10.00	
11							4.00	10.00	
12							1.25	6.00	
13							<.25	10.00	
14							6.00	10.00	
15							7.00	10.00	
16							10.00	10.00	
17							5.00	10.00	
18							1.25	10.00	
19							2.50	10.00	
20							7.00	10.00	
21							6.00	10.00	
22							10.00	10.00	
23							7.00	10.00	
24							10.00	10.00	
25							6.00	10.00	
26							10.00	10.00	
27							2.00	10.00	
28							9.00	10.00	
29							10.00	10.00	
MONTHLY AVGS							6.68	9.86	
<b>SUNSHINE (MINUTES)</b>									
Total:					Possible:				
					Percent Possible:				
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR PTLY CLDY CLOUDY MISSING									
29									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25			<=3.0				>=7.0		
1			4				17		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

FEBRUARY 2000

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
SUNRISE: 0737				FEB 01	SUNSET: 1803				SUNRISE: 0732				FEB 07	SUNSET: 1809									
01	CLR	NC	10.00	25	21	24	85	6	21	29.10	30.18	01	CLR	NC	10.00	34	17	28	50	8	23	29.21	30.29
04	CLR	NC	10.00	23	21	22	92	5	27	29.08	30.16	04	CLR	NC	10.00	34	18	29	52	0	00	29.20	30.28
07	BKN	041	10.00	28	24	27	85	14	23	29.11	30.19	07	CLR	NC	10.00	34	17	28	50	5	24	29.22	30.31
10	OVC	039	10.00	32	26	30	79	10	25	29.13	30.22	10	CLR	NC	10.00	44	24	36	45	8	21	29.24	30.32
13	OVC	030	10.00	34	27	31	76	15	27	29.13	30.22	13	CLR	NC	10.00	51	27	41	39	12	21	29.19	30.27
16	OVC	039	10.00	34	24	30	67	13	29	29.15	30.24	16	CLR	NC	10.00	55	29	44	37	13	22	29.14	30.21
19	OVC	041	10.00	31	24	28	76	5	28	29.21	30.30	19	CLR	NC	10.00	47	28	39	48	7	22	29.16	30.24
22	CLR	NC	9.00	29	22	27	75	3	05	29.25	30.34	22	CLR	NC	10.00	45	28	38	52	3	29	29.20	30.27
SUNRISE: 0736				FEB 02	SUNSET: 1804				SUNRISE: 0731				FEB 08	SUNSET: 1810									
01	CLR	NC	9.00	25	21	24	85	3	02	29.25	30.34	01	CLR	NC	10.00	35	28	32	76	0	00	29.21	30.29
04	CLR	NC	9.00	21	19	20	92	5	34	29.25	30.35	04	CLR	NC	9.00	32	27	30	82	0	00	29.21	30.28
07	CLR	NC	6.00	20	19	20	96	0	00	29.31	30.40	07	SCT	NC	8.00	30	26	29	85	5	02	29.24	30.32
10	CLR	NC	7.00	27	24	26	89	3	08	29.34	30.43	10	CLR	NC	9.00	39	32	36	76	6	07	29.29	30.36
13	CLR	NC	10.00	37	18	30	46	7	06	29.28	30.37	13	CLR	NC	10.00	54	31	44	42	7	08	29.24	30.32
16	CLR	NC	10.00	42	13	32	30	3	06	29.21	30.29	16	FEW	NC	10.00	58	30	45	35	5	VR	29.19	30.26
19	CLR	NC	10.00	39	15	31	38	3	29	29.21	30.30	19	CLR	NC	10.00	53	29	43	40	0	00	29.21	30.28
22	CLR	NC	10.00	30	18	26	61	0	00	29.16	30.25	22	CLR	NC	10.00	42	31	37	65	0	00	29.22	30.30
SUNRISE: 0735				FEB 03	SUNSET: 1805				SUNRISE: 0730				FEB 09	SUNSET: 1811									
01	CLR	NC	10.00	28	18	25	66	8	27	29.11	30.19	01	CLR	NC	10.00	38	30	35	73	0	00	29.21	30.28
04	CLR	NC	10.00	24	17	22	75	0	00	29.03	30.11	04	CLR	NC	10.00	32	28	31	85	0	00	29.20	30.28
07	FEW	NC	10.00	24	16	22	71	6	27	29.01	30.09	07	CLR	NC	9.00	31	28	30	89	0	00	29.21	30.29
10	FEW	NC	10.00	38	22	32	53	17	23	28.98	30.06	10	CLR	NC	10.00	41	32	37	70	0	00	29.21	30.29
13	FEW	NC	10.00	47	20	37	34	21	24	28.88	29.95	13	CLR	NC	10.00	56	33	45	42	9	23	29.14	30.22
16	CLR	NC	10.00	50	22	39	33	15	24	28.80	29.87	16	CLR	NC	10.00	60	33	47	36	10	24	29.06	30.12
19	BKN	100	10.00	45	25	37	46	12	23	28.82	29.89	19	CLR	NC	10.00	51	31	42	46	6	23	29.03	30.10
22	SCT	NC	10.00	41	28	36	60	12	23	28.84	29.90	22	CLR	NC	10.00	45	32	39	61	0	00	29.05	30.11
SUNRISE: 0734				FEB 04	SUNSET: 1806				SUNRISE: 0729				FEB 10	SUNSET: 1812									
01	SCT	NC	10.00	39	30	35	70	3	19	28.83	29.90	01	CLR	NC	6.00	42	31	37	65	0	00	29.01	30.07
04	BKN	050	10.00	41	30	36	65	13	27	28.85	29.91	04	CLR	NC	7.00	32	29	31	88	3	04	28.98	30.04
07	CLR	NC	10.00	34	22	30	61	13	25	28.92	29.99	07	CLR	NC	7.00	32	30	31	92	0	00	28.99	30.05
10	BKN	037	10.00	35	20	30	54	10	29	28.94	30.01	10	FEW	NC	8.00	42	33	38	71	5	06	28.98	30.04
13	OVC	055	10.00	38	20	31	48	13	30	28.94	30.01	13	FEW	NC	10.00	56	36	46	47	3	VR	28.89	29.94
16	OVC	035	4.00	34	25	31	70	15	26	28.99	30.06	16	FEW	NC	10.00	68	35	52	30	20	22	28.77	29.83
19	BKN	047	10.00	31	21	27	67	10	29	29.10	30.18	19	FEW	NC	8.00	57	35	47	44	10	24	28.77	29.83
22	OVC	038	10.00	31	21	27	67	12	29	29.16	30.25	22	OVC	080	10.00	58	37	48	46	10	24	28.79	29.85
SUNRISE: 0733				FEB 05	SUNSET: 1807				SUNRISE: 0728				FEB 11	SUNSET: 1813									
01	OVC	032	10.00	30	20	27	66	5	24	29.18	30.27	01	SCT	NC	10.00	58	39	49	50	14	22	28.77	29.82
04	OVC	028	9.00	30	23	28	75	3	26	29.19	30.28	04	OVC	100	10.00	58	44	51	60	16	24	28.77	29.81
07	OVC	035	10.00	30	24	28	79	0	00	29.26	30.35	07	OVC	038	10.00	56	48	52	75	15	23	28.81	29.86
10	BKN	036	10.00	32	15	27	50	6	01	29.31	30.40	10	BKN	036	10.00	60	50	55	70	14	23	28.88	29.93
13	FEW	NC	10.00	37	18	30	46	8	32	29.29	30.38	13	SCT	NC	10.00	65	50	57	59	9	30	28.87	29.91
16	CLR	NC	10.00	40	15	31	36	3	30	29.25	30.33	16	SCT	NC	10.00	66	48	56	52	12	28	28.86	29.90
19	CLR	NC	10.00	36	17	29	46	5	23	29.27	30.35	19	SCT	NC	9.00	52	47	49	83	13	03	28.93	29.98
22	CLR	NC	10.00	30	16	26	56	6	27	29.30	30.40	22	FEW	NC	6.00	46	43	45	89	13	03	28.96	30.01
SUNRISE: 0732				FEB 06	SUNSET: 1808				SUNRISE: 0727				FEB 12	SUNSET: 1814									
01	CLR	NC	10.00	25	17	23	72	3	08	29.33	30.42	01	OVC	050	4.00	43	43	43	100	13	03	28.93	29.98
04	CLR	NC	10.00	23	17	21	78	5	03	29.33	30.42	04	OVC	050	3.00	44	44	44	100	8	36	28.91	29.96
07	CLR	NC	9.00	18	15	17	88	3	03	29.31	30.41	07	OVC	006	2.50	44	44	44	100	6	09	28.92	29.98
10	CLR	NC	10.00	31	21	28	67	6	02	29.36	30.45	10	BKN	003	1.25	46	46	46	100	5	34	28.91	29.97
13	FEW	NC	10.00	42	20	34	41	5	VR	29.30	30.38	13	OVC	006	2.00	46	46	46	100	5	32	28.98	30.04
16	FEW	NC	10.00	48	18	37	30	5	29	29.20	30.28	16	OVC	006	2.00	46	46	46	100	0	00	28.95	30.01
19	CLR	NC	10.00	41	18	33	39	5	22	29.21	30.30	19	OVC	019	3.00	46	46	46	100	0	00	28.99	30.05
22	CLR	NC	10.00	38	17	31	43	8	27	29.21	30.30	22	OVC	011	5.00	46	46	46	100	3	05	29.00	30.06

# OBSERVATIONS AT 3-HOURLY INTERVALS

## KNOXVILLE, TN

FEBRUARY 2000

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)		
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
<b>SUNRISE: 0726 FEB 13 SUNSET: 1815</b>								<b>SUNRISE: 0719 FEB 19 SUNSET: 1821</b>																								
01	OVC	005			5.00	BR		46	46	46	100	5	01	28.96	30.02	01	BKN	075				10.00			60	59	59	96	12	24	28.84	29.88
04	OVC	003			3.00	BR		45	45	45	100	6	09	28.95	30.01	04	OVC	014				10.00			55	54	54	96	17	28	28.88	29.93
07	VV	001			0.25	FG		45	45	45	100	3	12	28.97	30.03	07	OVC	013				10.00			46	43	45	89	17	29	29.00	30.05
10	OVC	001			0.25	FG		46	46	46	100	3	17	28.98	30.04	10	OVC	028				10.00			43	37	40	80	14	28	29.11	30.17
13	OVC	005			2.00	BR		50	50	50	100	0	00	28.89	29.95	13	OVC	025				10.00			42	36	39	79	13	28	29.14	30.20
16	OVC	055			5.00	-RA BR		55	54	54	96	5	01	28.80	29.85	16	OVC	022				10.00			39	33	37	79	8	29	29.18	30.25
19	SCT	NC			10.00			53	52	52	96	8	31	28.71	29.75	19	OVC	022				10.00			39	33	37	79	8	02	29.25	30.33
22	BKN	085			5.00	BR		50	50	50	100	7	33	28.59	29.64	22	OVC	030				10.00			38	32	36	79	3	34	29.28	30.36
<b>SUNRISE: 0725 FEB 14 SUNSET: 1816</b>								<b>SUNRISE: 0718 FEB 20 SUNSET: 1822</b>																								
01	OVC	075			10.00			52	51	52	97	8	15	28.59	29.63	01	OVC	025				10.00			37	32	35	82	5	36	29.30	30.38
04	OVC	075			10.00	-RA		51	51	51	100	14	23	28.65	29.69	04	OVC	034				10.00			36	31	34	82	5	01	29.31	30.39
07	FEW	NC			10.00			51	50	51	96	14	24	28.69	29.73	07	OVC	034				10.00			34	30	32	85	5	31	29.34	30.42
10	OVC	055			10.00			53	51	52	93	13	24	28.77	29.83	10	BKN	030				10.00			37	26	33	65	7	VR	29.37	30.46
13	OVC	041			10.00			54	48	51	80	13	26	28.78	29.83	13	BKN	034				10.00			41	28	36	60	7	34	29.37	30.45
16	BKN	039			10.00			50	42	46	74	16	29	28.88	29.93	16	SCT	NC				10.00			43	30	38	60	6	25	29.33	30.41
19	OVC	040			10.00			43	37	40	80	12	28	28.97	30.03	19	CLR	NC				10.00			40	28	35	63	0	00	29.35	30.43
22	OVC	050			10.00			42	36	39	79	9	27	29.06	30.12	22	CLR	NC				10.00			35	29	33	78	3	01	29.37	30.46
<b>SUNRISE: 0723 FEB 15 SUNSET: 1817</b>								<b>SUNRISE: 0717 FEB 21 SUNSET: 1823</b>																								
01	OVC	036			10.00			41	35	38	79	8	28	29.10	30.16	01	CLR	NC				8.00			31	28	30	89	5	04	29.37	30.46
04	CLR	NC			10.00			37	34	36	89	3	35	29.09	30.15	04	CLR	NC				8.00			30	28	29	92	0	00	29.37	30.46
07	OVC	027			9.00			37	34	36	89	8	02	29.15	30.23	07	CLR	NC				10.00			27	27	27	100	3	01	29.40	30.50
10	CLR	NC			10.00			42	33	38	71	8	02	29.20	30.27	10	CLR	NC				10.00			38	31	35	76	5	03	29.45	30.54
13	CLR	NC			10.00			49	34	42	57	0	00	29.17	30.24	13	CLR	NC				10.00			48	31	41	52	7	05	29.41	30.49
16	CLR	NC			10.00			57	36	47	45	3	30	29.08	30.14	16	CLR	NC				10.00			53	31	43	43	6	03	29.32	30.40
19	CLR	NC			10.00			52	40	46	64	0	00	29.07	30.13	19	CLR	NC				10.00			49	30	41	48	3	02	29.32	30.41
22	CLR	NC			10.00			46	38	42	73	0	00	29.05	30.11	22	CLR	NC				10.00			41	29	36	62	6	08	29.33	30.41
<b>SUNRISE: 0722 FEB 16 SUNSET: 1818</b>								<b>SUNRISE: 0715 FEB 22 SUNSET: 1824</b>																								
01	SCT	NC			10.00			40	38	39	93	3	03	29.01	30.07	01	CLR	NC				10.00			37	31	35	79	0	00	29.32	30.40
04	FEW	NC			10.00			44	38	41	79	0	00	29.03	30.09	04	OVC	080				10.00			37	34	36	89	0	00	29.33	30.40
07	SCT	NC			10.00			44	37	41	76	0	00	29.05	30.11	07	OVC	060				10.00			38	36	37	93	3	05	29.36	30.44
10	CLR	NC			10.00			59	47	53	64	15	24	29.08	30.14	10	BKN	075				10.00			42	38	40	85	5	06	29.41	30.49
13	FEW	NC			10.00			65	49	56	56	12	27	29.09	30.14	13	BKN	070				10.00			49	37	43	64	0	00	29.38	30.45
16	FEW	NC			10.00			69	40	54	35	10	30	29.07	30.12	16	OVC	060				10.00			51	37	45	59	0	00	29.31	30.39
19	CLR	NC			10.00			61	36	49	39	9	32	29.12	30.19	19	OVC	075				10.00			50	40	45	68	3	06	29.29	30.36
22	CLR	NC			10.00			50	36	44	59	12	01	29.21	30.27	22	FEW	NC				10.00			45	39	42	80	0	00	29.31	30.39
<b>SUNRISE: 0721 FEB 17 SUNSET: 1819</b>								<b>SUNRISE: 0714 FEB 23 SUNSET: 1825</b>																								
01	CLR	NC			10.00			42	33	38	71	5	01	29.24	30.31	01	OVC	095				10.00			46	41	44	83	0	00	29.33	30.40
04	CLR	NC			10.00			38	32	36	79	8	01	29.26	30.32	04	FEW	NC				10.00			42	40	41	92	0	00	29.30	30.37
07	CLR	NC			10.00			35	31	33	85	13	03	29.28	30.35	07	FEW	NC				10.00			41	40	41	96	0	00	29.33	30.40
10	BKN	100			10.00			39	32	36	76	15	05	29.31	30.38	10	FEW	NC				9.00			46	42	44	86	3	06	29.37	30.44
13	BKN	100			10.00			50	35	43	57	9	04	29.22	30.29	13	FEW	NC				10.00			58	39	49	50	5	VR	29.31	30.38
16	FEW	NC			10.00			54	36	46	51	10	03	29.12	30.19	16	SCT	NC				10.00			65	41	53	42	3	09	29.23	30.29
19	OVC	085			10.00			51	36	44	56	8	04	29.11	30.18	19	SCT	NC				10.00			60	43	51	53	3	09	29.19	30.26
22	BKN	050			9.00	-RA		45	45	45	100	6	36	29.12	30.20	22	CLR	NC				10.00			54	40	47	59	7	24	29.24	30.31
<b>SUNRISE: 0720 FEB 18 SUNSET: 1820</b>								<b>SUNRISE: 0713 FEB 24 SUNSET: 1826</b>																								
01	OVC	048			9.00			45	45	45	100	6	02	29.11	30.17	01	FEW	NC				10.00			52	32	43	47	5	23	29.26	30.32
04	OVC	036			6.00	-RA BR		45	45	45	100	7	03	29.04	30.09	04	FEW	NC				10.00			50	33	42	52	0	00	29.24	30.29
07	OVC	028			5.00	-RA BR		45	45	45	100	5	12	29.04	30.10	07	BKN	065				10.00			44	39	42	83	5	01	29.24	30.31
10	OVC	027			4.00	BR		49	48	48	97	0	00	29.05	30.11	10	OVC	065				10.00			50	44	47	80	0	00	29.28	30.34
13	BKN	110			10.00			66	57	61	73	33	23	29.00	30.05	13	SCT	NC				10.00			66	52	58	61	8	24	29.23	30.28
16	BKN	047			10.00			67	58	62	73	31	22	28.93	29.98	16	BKN	080				10.00			71	52	60	51	23	24	29.14	30.19
19	CLR	NC			10.00			63	57	59	81	21	22	28.87	29.92	19	BKN	080				10.00			65	54	59	68	10	23	29.16	30.22
22	FEW	NC			10.00			66	58	61	75	22	22	28.85	29.90	22	FEW	NC				10.00			60	52	56	75	0	00	29.16	30.22

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

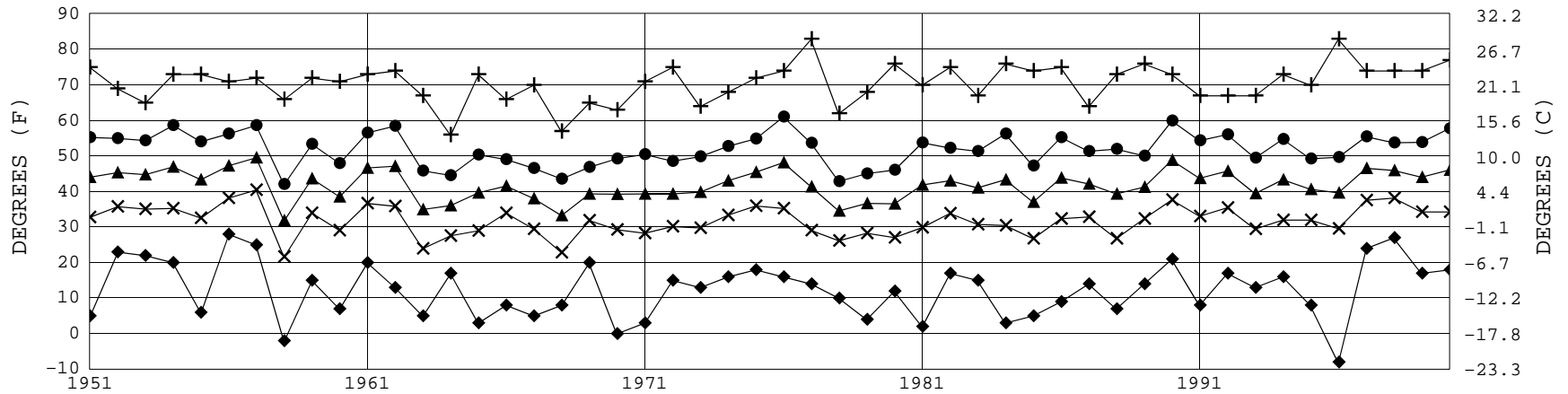
FEBRUARY 2000

TYS

WBAN # 13891

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				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	RELATIVE HUMIDITY (PCT)	SPEED (MPH)		DIRECTION TENS OF DEG	STATION		SEA LEVEL	OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
<b>SUNRISE: 0712</b>				<b>FEB 25</b>				<b>SUNSET: 1827</b>				<b>SUNRISE: FEB 31</b>				<b>SUNSET:</b>												
01	CLR	NC		10.00	55	50	52	83	0	00	29.16	30.21																
04	CLR	NC		9.00	48	48	48	100	3	06	29.17	30.22																
07	CLR	NC		7.00	46	46	46	100	0	00	29.21	30.27																
10	CLR	NC		7.00	58	54	56	87	0	00	29.25	30.31																
13	FEW	NC		10.00	71	54	61	55	8	21	29.19	30.24																
16	FEW	NC		10.00	74	51	61	45	12	24	29.12	30.17																
19	CLR	NC		10.00	66	51	58	59	6	26	29.11	30.16																
22	CLR	NC		10.00	60	49	54	67	8	21	29.13	30.18																
<b>SUNRISE: 0711</b>				<b>FEB 26</b>				<b>SUNSET: 1828</b>				<b>3-HOURLY OBSERVATION NOTES</b>																
01	CLR	NC		10.00	58	50	54	75	9	22	29.12	30.17	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	CLR	NC		10.00	58	49	53	72	7	25	29.15	30.20	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.															
07	FEW	NC		10.00	56	49	52	77	5	14	29.15	30.21	NC= No ceiling detected.															
10	CLR	NC		10.00	66	52	58	61	5	18	29.17	30.23	& = Original observation contained additional weather elements.															
13	CLR	NC		10.00	75	51	61	43	16	19	29.11	30.15	See page 3 for additional notes.															
16	CLR	NC		10.00	75	51	61	43	18	23	29.04	30.08																
19	FEW	NC		10.00	69	50	58	51	13	19	29.06	30.10																
22	CLR	NC		10.00	68	49	57	51	20	17	29.04	30.08																
<b>SUNRISE: 0709</b>				<b>FEB 27</b>				<b>SUNSET: 1829</b>				<b>SUMMARY BY HOUR</b>																
01	OVC	100		10.00	67	49	57	53	15	19	29.03	30.06	AVERAGES															
04	OVC	055		10.00	63	53	57	70	5	VR	29.00	30.03	RESULTANT WIND (MPH)															
07	OVC	075	-RA	9.00	57	57	57	100	10	22	29.06	30.10	HOUR (LST)															
10	BKN	032		10.00	57	57	57	100	8	26	29.06	30.11	CEILOMETER															
13	OVC	012	-RA BR	3.00	52	52	52	100	12	24	29.06	30.10	EFF CLD AMT															
16	OVC	060		10.00	55	52	53	90	8	23	29.06	30.10	DRY BULB															
19	OVC	060		10.00	54	50	52	87	8	27	29.11	30.16	DEW POINT															
22	CLR	NC		10.00	50	44	47	80	5	30	29.16	30.22	WET BULB															
<b>SUNRISE: 0708</b>				<b>FEB 28</b>				<b>SUNSET: 1830</b>				RELATIVE HUMIDITY																
01	FEW	NC		10.00	46	40	43	79	5	02	29.17	30.24	PRESSURE (INCHES, HG)															
04	CLR	NC		10.00	43	36	40	76	3	35	29.19	30.26	STATION															
07	FEW	NC		10.00	36	36	36	100	3	07	29.25	30.32	SEA LEVEL															
10	FEW	NC		10.00	48	39	44	71	6	08	29.30	30.36	VISIBILITY (MILES)															
13	CLR	NC		10.00	53	37	46	55	7	14	29.27	30.34	WIND SPEED (MPH)															
16	CLR	NC		10.00	58	32	46	38	5	34	29.20	30.27	SPEED															
19	CLR	NC		10.00	53	32	44	45	5	07	29.19	30.27	DIRECTION															
22	CLR	NC		10.00	46	35	41	66	5	05	29.20	30.27																
<b>SUNRISE: 0707</b>				<b>FEB 29</b>				<b>SUNSET: 1830</b>																				
01	CLR	NC		10.00	39	36	38	89	0	00	29.16	30.23																
04	CLR	NC		10.00	37	34	36	89	0	00	29.16	30.24																
07	CLR	NC		10.00	33	33	33	100	0	00	29.20	30.28																
10	CLR	NC		10.00	46	39	43	77	5	08	29.23	30.30																
13	CLR	NC		10.00	59	40	50	49	5	25	29.18	30.25																
16	CLR	NC		10.00	67	40	53	37	5	VR	29.08	30.13																
19	CLR	NC		10.00	62	40	51	44	3	14	29.06	30.12																
22	CLR	NC		10.00	53	40	47	61	10	25	29.06	30.11																

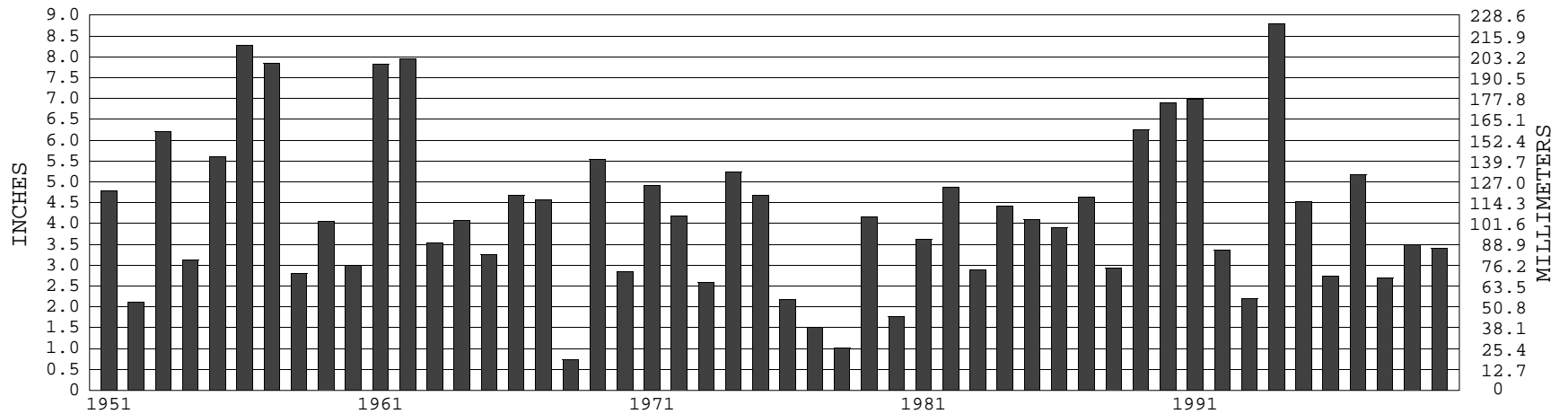
### KNOXVILLE, TN FEBRUARY TEMPERATURES



+ Extreme Max.      ● Mean Max.      ▲ Mean      × Mean Min.      ◆ Extreme Min.

Long-Term (1951-2000) Mean: 41.9      1961-1990 Normal: 40.1

### KNOXVILLE, TN FEBRUARY PRECIPITATION



Long-Term (1951-2000) Mean Monthly Total: 4.27

1961-1990 Normal: 4.06



**FEBRUARY 2000  
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

**NOTICE**

Effective July 1, 1996, the National Weather Service & Federal Aviation Administration began using the METAR format for Hourly Observations.

We welcome your questions or comments, please contact us at  
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