



FEBRUARY 2001

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 2001
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	48	34	41	4	31	37	24	0				0.00	29.08	30.15	3.3	25	3.8	14	29	8	23	01			
02	42	26	34	-3	20	30	31	0	BR			0.00	29.12	30.20	6.8	28	9.3	28	26	22	28	02			
03	46	18*	32	-5	13	25	33	0				0.00	29.20	30.29	1.3	02	3.1	13	29	10	28	03			
04	54	24	39	1	21	33	26	0	RA			T	29.07	30.15	4.2	23	5.6	31	25	26	25	04			
05	43	32	38	0	29	35	27	0	RA			T	29.02	30.09	6.2	26	7.1	21	26	18	26	05			
06	58	23	41	3	26	35	24	0	BR			0.00	29.05	30.13	4.6	23	4.8	23	23	20	23	06			
07	65	32	49	11	32	41	16	0				0.00	29.17	30.24	1.6	04	2.7	9	02	7	03	07			
08	71	33	52	14	36	44	13	0	BR HZ			0.00	29.23	30.29	2.9	24	3.5	21	23	18	24	08			
09	73	41	57	18	46	52	8	0	RA BR HZ			0.83	28.99	30.04	9.7	22	12.4	47*	26	38*	26	09			
10	55	33	44	5	34	37	21	0	RA DZ BR			0.05	29.19	30.26	8.2	36	11.1	24	30	18	29	10			
11	47	28	38	-1	30	35	27	0	RA BR			0.07	29.30	30.39	7.5	05	9.4	25	05	21	05	11			
12	46	39	43	4	42	42	22	0	RA DZ BR			0.03	29.31	30.38	1.5	02	3.5	13	05	12	05	12			
13	50	43	47	8	47	47	18	0	RA DZ FG+ BR			0.47	29.25	30.32	1.6	01	2.9	10	05	9	04	13			
14	62	48	55	15	55	55	10	0	RA DZ BR			0.32	29.02	30.07	7.6	24	8.4	20	25	16	22	14			
15	63	56	60	20	58	58	5	0	RA BR			1.03	28.93	29.97	0.4	04	6.8	20	32	17	23	15			
16	73*	45	59	19	55	55	6	0	TSRA RA DZ BR			1.40	28.88	29.92	5.5	01	10.3	35	23	29	23	16			
17	45	29	37	-4	25	33	28	0	RA BR			0.12	29.24	30.31	9.0	36	9.7	25	01	20	01	17			
18	40	24	32*	-9	17	27	33	0				0.00	29.39	30.48	3.8	02	5.1	13	03	10	04	18			
19	58	28	43	2	28	36	22	0				0.00	29.24	30.32	6.9	24	8.0	26	23	23	24	19			
20	59	38	49	8	42	46	16	0	RA BR HZ			T	29.16	30.23	5.1	24	5.9	21	23	17	22	20			
21	56	41	49	7	44	47	16	0	RA BR HZ			0.30	29.15	30.21	4.2	35	6.8	20	01	16	01	21			
22	46	37	42	0	40	41	23	0	TSRA RA DZ BR			0.95	28.99	30.06	2.6	32	5.4	18	33	15	32	22			
23	57	38	48	6	38	42	17	0	DZ BR HZ			T	29.21	30.28	3.7	03	5.8	15	02	13	04	23			
24	68	35	52	9	44	48	13	0	BR			0.00	29.13	30.20	6.6	17	9.2	33	18	26	18	24			
25	68	51	60*	17	52	56	5	0	TSRA RA BR			0.89	29.01	30.06	13.0	22	14.0	32	19	26	23	25			
26	60	41	51	8	33	43	14	0				0.00	29.21	30.28	5.5	03	6.7	16	02	13	03	26			
27	57	38	48	4	35	43	17	0				0.00	29.12	30.18	1.3	34	4.1	14	01	13	01	27			
28	55	44	50	6	36	43	15	0	RA			T	29.00	30.06	5.7	36	6.6	18	02	13	01	28			
										< MONTHLY AVERAGES		TOTALS-->						<- MONTHLY AVERAGES							
										5.0		6.6		5.7		■■■		<-----DEPARTURE FROM NORMAL----->		2.40		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3			
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.48 DATE: 15-16				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL: DATE: DATE:				MAXIMUM : 30.58 18 1053												
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH: DATE: DATE:				MINIMUM : 29.77 16 1453												
HEATING: 530 -167 3098 -15									NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 10				PRECIPITATION ≥ 0.01 INCH : 12				
COOLING: 0 0 0 0													MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 9				
													THUNDERSTORMS : 3				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH :				

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

FEBRUARY 2001

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												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09	0.81	0.83		
10	0.07	T	T										10												10	0.07	0.05		
11													11												11		0.07		
12	T	0.01	T										12	0.01	0.01										12		0.03		
13	0.01	T	T										13	0.01	0.04										13		0.47		
14	T	T	0.05	0.02	0.09	0.03	0.05	0.02	0.06				14												14		0.32		
15	0.01	0.05	0.18	0.06	0.04	0.12	0.13	0.10	0.01	0.02	0.03	0.04	15	0.03	0.01										15		1.03		
16	0.02	0.08	0.08	0.04	T	0.04	0.02	0.02	0.02	T	0.01	T	16	T											16		1.40		
17	T	0.02	0.04	0.06									17												17		0.12		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.30		
22		0.02	0.12	0.34	T	0.26	0.08	0.06	T		0.07	0.07	22	0.02	0.01	0.01	0.01	0.01							22		0.95		
23													23												23		T		
24													24												24		0.00		
25													25												25		0.89		
26													26												26		0.00		
27													27												27		0.00		
28													28												28		T		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.15	.19	.23	.25	.32	.39	.46	.55	.60	.70	.84	.93
Ending Date	25	25	25	25	25	25	25	25	16	16	16	16
Ending Time (Hour/Min)	0619	0623	0625	0627	0639	0653	0710	0724	2011	2011	2017	2009

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 2001

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:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							7.00	10.00	
02							5.00	10.00	
03							7.00	10.00	
04							6.00	10.00	
05							7.00	10.00	
06							4.00	10.00	
07							7.00	10.00	
08							6.00	10.00	
09							2.00	10.00	
10							3.00	10.00	
11							4.00	10.00	
12							.75	7.00	
13							.25	3.00	
14							.75	7.00	
15							1.25	10.00	
16							1.50	10.00	
17							2.50	10.00	
18							10.00	10.00	
19							1.75	10.00	
20							5.00	10.00	
21							1.25	10.00	
22							.75	10.00	
23							4.00	10.00	
24							5.00	10.00	
25							.75	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							9.00	10.00	
MONTHLY AVGS							4.85	9.54	
SUNSHINE (MINUTES)									
Total: Possible: Percent Possible:									
NUMBER OF DAYS WITH:									
SKY CONDITION									
CLR PTLY CLDY CLOUDY MISSING 28									
MINIMUM VISIBILITY (MILES)									
<=0.25 <=3.0 >=7.0 1 10 10									

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

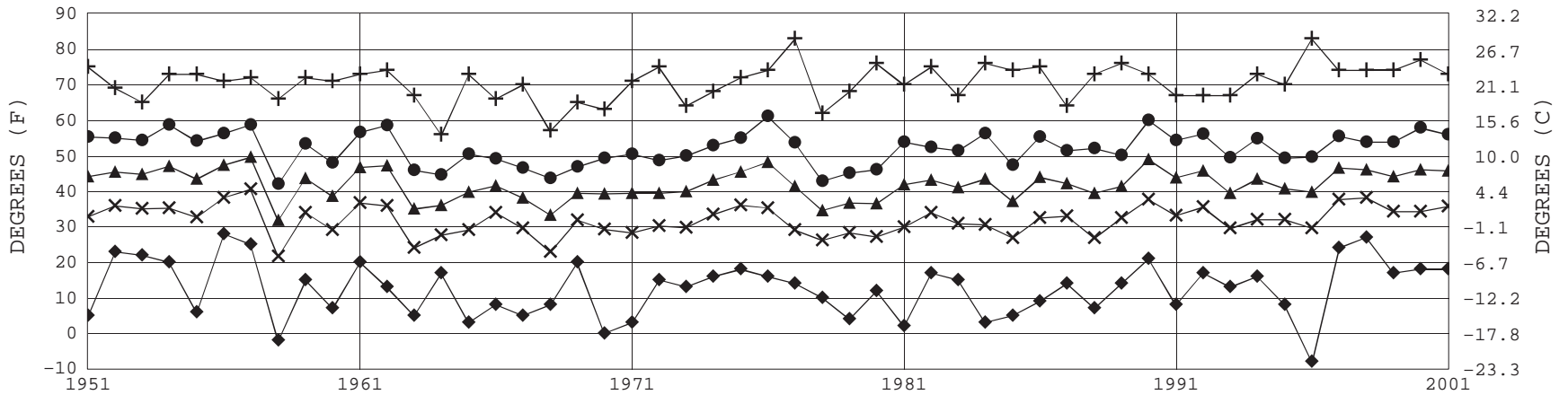
FEBRUARY 2001

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
SUNRISE: 0725 FEB 13 SUNSET: 1816																											
01	OVC	001	1.00	-DZ BR	43	43	43	100	3	25	29.30	30.38	01	CLR	NC	10.00	31	23	28	72	3	09	29.28	30.37			
04	OVC	001	0.25	-DZ FG	44	44	44	100	0	00	29.30	30.37	04	CLR	NC	9.00	29	24	27	82	0	00	29.29	30.37			
07	OVC	003	0.75	-DZ BR	43	43	43	100	0	00	29.31	30.38	07	CLR	NC	10.00	29	21	26	72	0	00	29.28	30.37			
10	OVC	004	1.75	BR	46	46	46	100	6	05	29.30	30.38	10	CLR	NC	8.00	37	25	32	62	8	21	29.32	30.41			
13	OVC	009	2.50	-RA BR	49	49	49	100	3	08	29.25	30.32	13	CLR	NC	10.00	53	32	44	45	21	24	29.25	30.32			
16	OVC	005	1.75	-RA BR	50	50	50	100	0	00	29.20	30.27	16	CLR	NC	10.00	58	34	47	41	15	23	29.17	30.24			
19	OVC	009	2.00	BR	49	49	49	100	5	33	29.20	30.27	19	CLR	NC	10.00	49	32	42	52	7	25	29.15	30.23			
22	OVC	011	1.75	-RA BR	49	49	49	100	5	34	29.18	30.25	22	CLR	NC	10.00	44	33	39	65	10	24	29.16	30.24			
SUNRISE: 0724 FEB 14 SUNSET: 1817																											
01	OVC	003	0.75	-RA BR	49	49	49	100	6	23	29.11	30.18	01	CLR	NC	10.00	45	32	39	61	8	25	29.18	30.24			
04	OVC	003	1.25	-RA BR	48	48	48	100	6	28	29.08	30.14	04	CLR	NC	10.00	40	32	37	73	5	21	29.16	30.23			
07	OVC	003	1.75	-RA BR	49	49	49	100	3	16	29.08	30.14	07	OVC	070	8.00	41	34	38	76	0	00	29.18	30.25			
10	OVC	005	1.50	BR	52	52	52	100	6	15	29.07	30.12	10	BKN	070	7.00	45	38	42	77	0	00	29.20	30.27			
13	OVC	007	2.50	BR	57	57	57	100	8	23	29.01	30.06	13	OVC	055	6.00	57	49	53	75	12	23	29.17	30.23			
16	OVC	014	4.00	BR	60	60	60	100	12	25	28.97	30.02	16	OVC	065	7.00	58	49	53	72	12	23	29.13	30.19			
19	OVC	018	5.00	BR	61	60	60	97	10	23	28.96	30.01	19	OVC	075	6.00	55	50	52	83	5	22	29.12	30.19			
22	OVC	032	4.00	BR	60	60	60	100	10	23	28.94	29.99	22	OVC	042	6.00	55	50	52	83	5	24	29.13	30.20			
SUNRISE: 0723 FEB 15 SUNSET: 1818																											
01	OVC	020	5.00	-RA BR	62	61	61	96	16	23	28.88	29.93	01	OVC	070	5.00	56	51	53	84	6	28	29.13	30.19			
04	OVC	005	3.00	-RA BR	59	59	59	100	12	34	28.89	29.93	04	OVC	060	5.00	54	52	53	93	9	25	29.10	30.15			
07	OVC	041	2.50	-RA BR	57	57	57	100	6	15	28.95	30.00	07	OVC	018	4.00	51	50	51	96	6	36	29.13	30.19			
10	OVC	050	2.50	-RA BR	57	57	57	100	6	26	28.99	30.03	10	OVC	011	1.25	49	49	49	100	8	35	29.20	30.26			
13	OVC	027	1.50	-RA BR	57	57	57	100	5	09	28.97	30.02	13	OVC	016	7.00	47	43	45	86	10	36	29.22	30.29			
16	OVC	028	10.00		61	57	59	87	0	00	28.89	29.93	16	SCT	NC	10.00	52	42	47	69	9	36	29.18	30.24			
19	OVC	030	4.00	-RA BR	58	58	58	100	7	03	28.91	29.96	19	SCT	NC	10.00	49	34	42	57	0	00	29.16	30.23			
22	OVC	018	7.00	-RA BR	57	57	57	100	9	35	28.93	29.98	22	BKN	085	10.00	44	36	40	73	0	00	29.11	30.19			
SUNRISE: 0722 FEB 16 SUNSET: 1819																											
01	OVC	006	3.00	-RA BR	56	56	56	100	7	36	28.95	29.99	01	SCT	NC	10.00	43	35	40	74	13	03	28.98	30.04			
04	OVC	006	3.00	-RA BR	56	56	56	100	5	03	28.93	29.97	04	OVC	036	2.00	37	37	37	100	7	04	28.98	30.04			
07	OVC	006	4.00	-RA BR	56	56	56	100	7	36	28.91	29.96	07	OVC	003	3.00	37	37	37	100	8	02	28.96	30.02			
10	OVC	004	3.00	BR	56	56	56	100	7	03	28.91	29.96	10	OVC	004	2.50	39	39	39	100	3	02	28.98	30.04			
13	SCT	NC	3.00	BR	64	62	63	93	5	26	28.83	29.88	13	OVC	004	0.75	41	41	41	100	3	23	28.96	30.03			
16	BKN	035	10.00		59	56	57	90	13	04	28.76	29.80	16	OVC	002	0.75	44	44	44	100	3	01	28.96	30.03			
19	OVC	034	3.00	+RA BR	50	49	49	96	13	35	28.93	29.98	19	OVC	004	2.50	45	45	45	100	3	28	29.00	30.07			
22	OVC	022	2.50	-RA BR	47	46	46	97	16	35	28.85	29.91	22	OVC	009	6.00	42	40	41	92	9	29	29.07	30.14			
SUNRISE: 0720 FEB 17 SUNSET: 1820																											
01	OVC	018	6.00	-RA BR	45	43	44	93	14	36	28.95	30.00	01	OVC	010	7.00	40	38	39	93	5	27	29.13	30.21			
04	OVC	026	7.00		37	37	37	100	6	05	29.11	30.18	04	OVC	009	4.00	38	37	38	97	5	25	29.14	30.22			
07	BKN	026	7.00		37	31	35	79	7	36	29.18	30.25	07	OVC	010	4.00	38	38	38	100	0	00	29.19	30.27			
10	CLR	NC	10.00		35	22	30	59	18	01	29.25	30.33	10	OVC	010	6.00	39	36	38	89	7	03	29.26	30.34			
13	CLR	NC	10.00		40	20	33	45	13	36	29.27	30.35	13	FEW	NC	7.00	45	39	42	80	7	04	29.27	30.35			
16	CLR	NC	10.00		42	20	34	41	0	00	29.26	30.34	16	CLR	NC	10.00	56	40	48	55	9	02	29.19	30.26			
19	CLR	NC	10.00		37	18	30	46	12	01	29.34	30.42	19	CLR	NC	10.00	51	39	45	64	8	04	29.21	30.29			
22	CLR	NC	10.00		32	19	28	59	7	03	29.37	30.46	22	CLR	NC	10.00	46	39	43	77	8	04	29.23	30.30			
SUNRISE: 0719 FEB 18 SUNSET: 1821																											
01	CLR	NC	10.00		29	17	25	61	9	02	29.38	30.47	01	CLR	NC	10.00	41	37	39	86	6	04	29.21	30.29			
04	CLR	NC	10.00		26	16	23	66	5	01	29.39	30.48	04	CLR	NC	5.00	37	37	37	100	0	00	29.18	30.25			
07	CLR	NC	10.00		24	16	22	71	6	36	29.43	30.52	07	FEW	NC	7.00	39	37	38	93	3	36	29.19	30.27			
10	CLR	NC	10.00		28	16	24	61	7	02	29.48	30.58	10	FEW	NC	7.00	48	43	46	83	6	08	29.22	30.29			
13	CLR	NC	10.00		34	15	28	46	5	VR	29.44	30.53	13	SCT	NC	10.00	67	45	55	45	16	18	29.13	30.19			
16	CLR	NC	10.00		40	15	31	36	5	VR	29.36	30.45	16	SCT	NC	10.00	65	48	56	54	18	18	29.08	30.13			
19	CLR	NC	10.00		36	18	30	48	6	04	29.33	30.42	19	CLR	NC	10.00	60	50	55	70	10	15	29.07	30.13			
22	CLR	NC	10.00		34	21	29	59	0	00	29.35	30.45	22	SCT	NC	10.00	62	51	56	67	9	16	29.03	30.08			

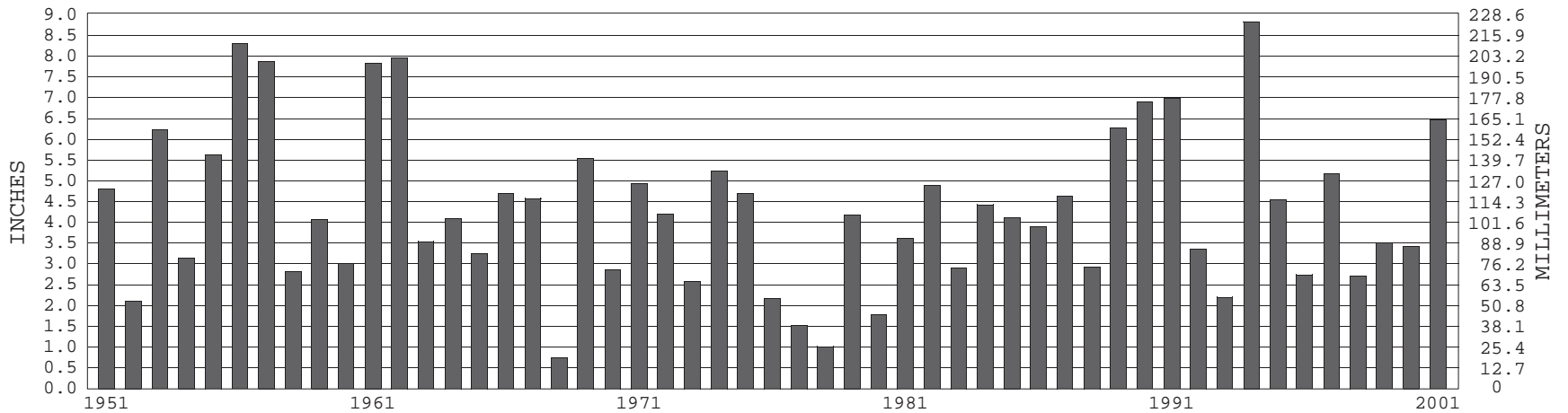
KNOXVILLE, TN FEBRUARY TEMPERATURES



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

Long-Term (1951-2001) Mean: 42.0 1961-1990 Normal: 40.1

KNOXVILLE, TN FEBRUARY PRECIPITATION



Long-Term (1951-2001) Mean Monthly Total: 4.31

1961-1990 Normal: 4.06



FEBRUARY 2001
KNOXVILLE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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