



# DECEMBER 1996

## 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

DECEMBER 1996  
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	62	43	53	9	48	51	12	0	RA FG BR				0.56	28.69	29.72	6.7	29	9.9	29	30	25	30	01														
02	49	28	39	-5	29	35	26	0					0.00	29.04	30.09	2.9	32	3.0	22	27	18	27	02														
03	56	28	42	-1	32	38	23	0					0.00	29.07	30.12	5.2	25	6.8	24	26	22	25	03														
04	50	30	40	-3	31	37	25	0					0.00	29.22	30.28	4.2	35	5.2	18	03	15	04	04														
05	53	30	42	-1	35	37	23	0	TS TSGS TSRA RA BR				0.28	28.88	29.93	6.0	24	9.6	57*	28	39	28	05														
06	61	32	47	4	36	42	18	0					0.00	28.79	29.83	3.6	22	5.5	24	22	20	21	06														
07	59	36	48	6	42	46	17	0	RA BR				1.00	28.75	29.78	4.1	34	6.0	20	02	16	02	07														
08	49	33	41	-1	29	35	24	0					0.00	28.86	29.91	12.5	27	12.9	37	28	29	27	08														
09	40	25	33	-9	22	29	32	0					0.00	29.11	30.18	5.6	26	2.5	20	29	16	29	09														
10	62	25	44	3	33	39	21	0					0.00	29.00	30.06	7.5	25	9.6	39	25	32	24	10														
11	65	58	62	21	55	58	3	0	RA				T	28.87	29.90	16.9	23	17.1	32	23	28	23	11														
12	64	53	59	18	57	58	6	0	RA BR				0.43	28.90	29.92	9.9	23	11.4	29	28	23	27	12														
13	53	37	45	4	41	43	20	0	DZ BR				T	29.14	30.19	4.7	35	6.9	15	02	13	02	13														
14	54	32	43	3	35	39	22	0					0.00	29.20	30.26	7.4	04	7.7	16	04	14	04	14														
15	57	32	45	5	36	40	20	0					0.00	29.20	30.26	6.4	04	2.7	10	03	9	03	15														
16	55	33	44	4	38	41	21	0	RA BR				T	28.93	29.98	5.7	04	3.3	26	16	20	16	16														
17	56	39	48	8	39	42	17	0	RA				0.12	28.78	29.82	9.7	25	12.6	45	24	39*	25	17														
18	41	32	37	-2	28	33	28	0	SN				T	28.95	30.01	6.7	27	7.5	17	30	15	30	18														
19	31	19	25	-14	13	20	40	0	SN BR				T	29.06	30.13	12.4	27	12.7	30	29	25	29	19														
20	28	16	22*	-17	10	18	43	0	SN				T	29.31	30.41	6.0	24	5.8	15	22	14	22	20														
21	38	12*	25	-14	14	22	40	0					0.00	29.36	30.45	2.3	25	2.2	10	19	8	11	21														
22	42	23	33	-6	27	31	32	0	RA FZRA PE				0.01	29.28	30.36	1.0	19	3.4	10	14	9	14	22														
23	65	30	48	10	39	43	17	0	BR				0.00	29.14	30.20	1.6	21	6.3	23	23	20	23	23														
24	62	26	44	6	41	44	21	0	RA BR				0.60	29.00	30.04	11.0	25	13.3	40	22	32	21	24														
25	38	22	30	-8	24	28	35	0					0.00	29.29	30.37	2.8	31	3.5	11	03	10	04	25														
26	45	24	35	-3	30	33	30	0	RA BR				0.10	29.21	30.28	2.9	02	3.3	11	06	10	22	26														
27	50	38	44	6	43	44	21	0	RA BR				0.02	29.13	30.19	2.8	05	2.7	9	03	8	03	27														
28	61	45	53	16	52	52	12	0	FG+ BR				0.00	29.07	30.11	1.7	10	2.5	13	24	10	24	28														
29	69*	56	63*	26	60	61	2	0	TSRA RA FG BR				1.55	29.07	30.10	6.8	25	7.4	28	26	22	27	29														
30	63	56	60	23	60	60	5	0	RA DZ FG+ BR				0.35	29.15	30.19	5.0	25	1.6	10	21	7	21	30														
31	65	50	58	21	58	59	7	0	RA BR				0.42	29.09	30.13	4.9	26	4.1	16	23	14	24	31														
< MONTHLY AVERAGES										TOTALS-->				<- MONTHLY AVERAGES																							
2.9										3.6				3.2						<----- DEPARTURE FROM NORMAL ----->				0.90				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.55				DATE: 29				SEA LEVEL PRESSURE				DATE TIME															
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:				DATE:				MAXIMUM				: 30.53				21 1009											
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:				DATE:				MINIMUM				: 29.56				17 0253											
HEATING: 663										-109				1512				-5				NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 18				PRECIPITATION ≥ 0.01 INCH: 12			
COOLING: 0										0				1387				121				MAXIMUM TEMP ≤ 32: 2				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 10							
																						THUNDERSTORMS: 2				HEAVY FOG: 2				SNOWFALL ≥ 1.0 INCH: 0							

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## KNOXVILLE, TN

DECEMBER 1996 TYS WBAN # 13891

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note 2)	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		0.03	0.03	0.04	0.10	0.09	0.16	0.11					01												01		0.56		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05		0.01	0.14	0.03	0.03	0.07	T				05		0.28			
06													06												06		0.00		
07	T			0.11	0.44	0.13	0.14	0.13	0.03	0.01	0.01		07												07	1.00	0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		T		
12	T												12												12		0.43		
13													13												13		T		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		T		
17	T	0.01	0.09	0.02	T								17		T		T	T	T	T	T	T			17		0.12		
18													18												18		T		
19	T	T	T	T	T	T	T						19	T	T	T	T							19		T			
20													20												20		T		
21													21												21		0.00		
22													22												22		0.01		
23													23												23		0.00		
24	T	T	0.01	T				0.28	0.03	0.05	0.04	0.03	0.15	24	0.01									24		0.60			
25														25											25		0.00		
26														26											26		0.10		
27	T													27											27		0.02		
28														28											28		0.00		
29														29											29	1.48	1.55		
30		0.74	0.24	0.49	0.01	T	T							30											30		0.35		
31	0.01	0.06	0.01	0.04	0.06	0.03	T	0.23	0.07	0.01	0.03	T		31	0.05	0.05	T							31		0.42			

### MAXIMUM SHORT DURATION PRECIPITATION (See Note 1)

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 1: NCDC derives these data from one-minute ASOS values. The table is not printed when inconsistent with ASOS hourly totals.

Note 2: 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.



# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

## DECEMBER 1996

TYS

WBAN # 13891

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		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	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
SUNRISE: 0728						DEC 01	SUNSET: 1722						SUNRISE: 0733						DEC 07	SUNSET: 1722									
01	BKN	065			3.00	BR	51	51	51	100	5	01	28.72	29.76	01	BKN	085			10.00	58	55	56	90	9	23	28.65	29.68	
04	OVC	041			2.50	-RA BR	52	52	52	100	6	04	28.66	29.70	04	OVC	020			2.50	RA BR	54	54	54	100	5	27	28.64	29.67
07	OVC	043			2.50	+RA BR	55	55	55	100	12	33	28.62	29.65	07	OVC	011			4.00	BR	52	52	52	100	12	01	28.68	29.71
10	OVC	031			7.00		56	56	56	100	0	00	28.63	29.66	10	OVC	055			10.00		49	46	47	90	8	03	28.73	29.76
13	OVC	034			10.00		60	48	54	65	18	25	28.64	29.67	13	SCT	NC			10.00	52	35	44	53	10	01	28.78	29.81	
16	SCT	NC			10.00		57	44	50	62	15	27	28.64	29.67	16	FEW	NC			10.00	52	33	43	49	6	34	28.79	29.82	
19	OVC	070			10.00		53	42	48	66	9	28	28.73	29.75	19	CLR	NC			10.00	48	32	41	54	0	00	28.81	29.85	
22	OVC	018			10.00		46	41	44	83	12	29	28.83	29.86	22	CLR	NC			10.00	37	34	36	89	3	21	28.83	29.87	
SUNRISE: 0729						DEC 02	SUNSET: 1722						SUNRISE: 0734						DEC 08	SUNSET: 1722									
01	OVC	028			10.00		41	32	37	70	14	28	28.93	29.98	01	CLR	NC			10.00	36	34	35	93	7	22	28.83	29.87	
04	CLR	NC			10.00		34	28	32	79	0	00	29.01	30.06	04	FEW	NC			10.00	37	35	36	93	0	00	28.83	29.87	
07	CLR	NC			10.00		31	28	30	89	0	00	29.05	30.10	07	SCT	NC			10.00	33	32	33	96	10	23	28.84	29.89	
10	CLR	NC			10.00		38	31	35	76	0	00	29.10	30.16	10	FEW	NC			10.00	42	31	37	65	14	25	28.89	29.95	
13	CLR	NC			10.00		46	29	39	51	3	VR	29.08	30.14	13	SCT	NC			10.00	47	26	38	44	23	26	28.81	29.85	
16	CLR	NC			10.00		48	27	39	44	5	27	29.03	30.09	16	SCT	NC			10.00	47	21	37	36	23	28	28.80	29.84	
19	CLR	NC			10.00		41	28	36	60	3	09	29.01	30.08	19	SCT	NC			10.00	40	25	34	55	14	30	28.88	29.94	
22	CLR	NC			10.00		35	29	33	78	0	00	29.03	30.09	22	FEW	NC			10.00	36	25	32	64	9	30	28.95	30.01	
SUNRISE: 0730						DEC 03	SUNSET: 1722						SUNRISE: 0735						DEC 09	SUNSET: 1722									
01	CLR	NC			10.00		33	29	31	85	0	00	29.01	30.07	01	FEW	NC			10.00	33	21	29	61	10	31	28.98	30.03	
04	CLR	NC			10.00		32	30	31	92	0	00	29.06	30.11	04	FEW	NC			10.00	28	21	26	75	5	08	29.02	30.08	
07	CLR	NC			10.00		31	29	30	92	5	03	29.07	30.14	07	FEW	NC			10.00	27	20	25	75	3	21	29.10	30.16	
10	CLR	NC			10.00		39	32	36	76	0	00	29.09	30.15	10	FEW	NC			10.00	33	23	29	67	3	10	29.16	30.23	
13	CLR	NC			10.00		55	36	46	49	18	28	29.03	30.08	13	CLR	NC			10.00	37	24	32	60	0	00	29.15	30.21	
16	CLR	NC			10.00		56	38	47	51	15	23	29.01	30.07	16	CLR	NC			10.00	40	22	33	49	0	00	29.14	30.21	
19	CLR	NC			10.00		48	32	41	54	7	28	29.08	30.14	19	CLR	NC			10.00	36	23	31	59	0	00	29.16	30.23	
22	CLR	NC			10.00		44	32	39	63	7	28	29.13	30.19	22	CLR	NC			10.00	31	24	28	76	3	09	29.15	30.22	
SUNRISE: 0731						DEC 04	SUNSET: 1722						SUNRISE: 0735						DEC 10	SUNSET: 1723									
01	CLR	NC			10.00		39	34	37	82	0	00	29.20	30.25	01	CLR	NC			10.00	27	25	26	92	3	07	29.11	30.18	
04	SCT	NC			10.00		38	34	36	86	0	00	29.22	30.28	04	CLR	NC			10.00	26	24	25	92	0	00	29.12	30.19	
07	OVC	030			10.00		38	33	36	83	8	02	29.27	30.33	07	CLR	NC			10.00	26	24	25	92	0	00	29.09	30.16	
10	CLR	NC			10.00		41	31	37	67	12	03	29.29	30.35	10	CLR	NC			9.00	34	28	32	79	0	00	29.10	30.16	
13	CLR	NC			10.00		46	31	40	56	3	VR	29.25	30.32	13	CLR	NC			10.00	57	38	48	49	10	25	28.99	30.04	
16	CLR	NC			10.00		49	31	41	50	8	03	29.19	30.25	16	CLR	NC			10.00	61	40	50	46	22	24	28.90	29.95	
19	CLR	NC			10.00		41	28	36	60	6	02	29.19	30.25	19	CLR	NC			10.00	54	39	47	57	13	24	28.89	29.95	
22	CLR	NC			10.00		35	28	32	76	3	08	29.16	30.22	22	CLR	NC			10.00	57	41	49	55	16	24	28.89	29.94	
SUNRISE: 0731						DEC 05	SUNSET: 1722						SUNRISE: 0736						DEC 11	SUNSET: 1723									
01	SCT	NC			10.00		32	28	31	85	0	00	29.09	30.15	01	CLR	NC			10.00	59	47	53	64	18	23	28.88	29.92	
04	CLR	NC			7.00		31	31	31	100	0	00	29.03	30.09	04	OVC	037			10.00	61	53	57	75	17	24	28.89	29.92	
07	SCT	NC			10.00		34	32	33	92	7	33	29.00	30.06	07	OVC	047			10.00	62	54	57	75	20	20	28.88	29.91	
10	OVC	085			8.00		38	34	36	86	6	11	28.96	30.02	10	OVC	031			10.00	63	55	58	76	23	23	28.87	29.91	
13	BKN	100			10.00		53	34	44	49	18	18	28.69	29.73	13	OVC	027			10.00	65	57	60	76	25	23	28.83	29.85	
16	OVC	050			3.00	-RA BR	47	44	46	90	18	21	28.66	29.70	16	OVC	028			10.00	64	58	60	81	16	23	28.84	29.86	
19	CLR	NC			10.00		43	35	40	74	20	25	28.82	29.86	19	OVC	090			10.00	63	58	60	84	12	23	28.87	29.90	
22	CLR	NC			10.00		39	33	37	79	14	23	28.84	29.89	22	OVC	043			10.00	62	57	59	84	8	23	28.88	29.92	
SUNRISE: 0732						DEC 06	SUNSET: 1722						SUNRISE: 0737						DEC 12	SUNSET: 1723									
01	CLR	NC			10.00		35	32	34	89	8	25	28.86	29.90	01	BKN	090			10.00	63	57	59	81	15	22	28.88	29.91	
04	CLR	NC			10.00		34	31	33	89	5	23	28.88	29.94	04	OVC	030			10.00	63	56	59	78	12	21	28.87	29.89	
07	CLR	NC			10.00		34	31	33	89	0	00	28.88	29.94	07	OVC	030			10.00	63	57	59	81	13	22	28.87	29.90	
10	CLR	NC			10.00		40	34	37	79	5	08	28.88	29.94	10	OVC	036			8.00	61	60	60	97	10	21	28.87	29.91	
13	FEW	NC			10.00		53	32	44	45	0	00	28.78	29.83	13	OVC	028			10.00	59	58	58	96	12	19	28.87	29.89	
16	FEW	NC			10.00		60	38	49	44	3	VR	28.67	29.71	16	BKN	026			10.00	59	57	58	93	7	25	28.87	29.91	
19	CLR	NC			10.00		52	36	45	55	6	26	28.67	29.71	19	BKN	060			10.00	57	56	56	96	8	26	28.92	29.95	
22	OVC	041			10.00		58	47	52	67	15	23	28.72	29.75	22	BKN	009			7.00	56	55	55	97	9	26	28.98	30.01	

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

DECEMBER 1996

TYS

WBAN # 13891

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		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	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						
SUNRISE: 0738						DEC 13						SUNSET: 1723						SUNRISE: 0741						DEC 19						SUNSET: 1725					
01	OVC	027			10.00	51	49	50	92	12	29	29.01	30.06	01	OVC	030			9.00	-SN	30	25	28	82	7	29	28.96	30.02							
04	OVC	021			10.00	49	47	48	93	9	28	29.06	30.10	04	OVC	043			9.00	-SN	27	17	24	66	12	27	28.97	30.03							
07	OVC	013			10.00	47	46	46	97	6	27	29.10	30.15	07	OVC	049			10.00		26	14	22	60	8	29	28.96	30.03							
10	OVC	013			10.00	47	44	46	90	6	01	29.17	30.21	10	OVC	025			1.50	-SN	24	15	21	68	16	27	29.01	30.08							
13	OVC	028			10.00	47	39	43	74	7	01	29.17	30.22	13	BKN	038			8.00	-SN	23	10	19	57	15	27	29.01	30.09							
16	BKN	034			10.00	48	36	43	63	10	01	29.17	30.22	16	BKN	038			10.00		22	7	18	52	20	25	29.07	30.15							
19	BKN	033			10.00	44	35	40	71	6	02	29.20	30.25	19	OVC	034			10.00		21	9	18	59	14	26	29.15	30.23							
22	CLR	NC			10.00	39	33	37	79	6	01	29.19	30.24	22	BKN	040			10.00		19	9	16	65	9	28	29.21	30.30							
SUNRISE: 0738						DEC 14						SUNRISE: 1724						SUNRISE: 0742						DEC 20						SUNSET: 1726					
01	CLR	NC			10.00	35	33	34	93	3	08	29.15	30.21	01	OVC	040			10.00		19	11	17	71	7	22	29.24	30.34							
04	CLR	NC			10.00	35	33	34	93	6	01	29.16	30.22	04	OVC	034			10.00		18	11	16	74	5	23	29.26	30.35							
07	CLR	NC			8.00	32	32	32	100	7	05	29.20	30.26	07	OVC	022			10.00		17	9	15	70	6	26	29.29	30.39							
10	CLR	NC			10.00	41	36	39	82	13	05	29.23	30.30	10	FEW	NC			10.00		19	10	17	68	10	23	29.35	30.45							
13	CLR	NC			10.00	49	38	44	66	8	06	29.21	30.27	13	FEW	NC			10.00		25	11	21	55	8	23	29.32	30.42							
16	CLR	NC			10.00	54	34	45	47	10	07	29.19	30.24	16	CLR	NC			10.00		28	10	23	47	5	26	29.30	30.40							
19	CLR	NC			10.00	46	36	42	68	7	05	29.21	30.27	19	CLR	NC			10.00		24	10	20	55	5	19	29.33	30.42							
22	CLR	NC			10.00	43	34	39	71	10	03	29.21	30.28	22	CLR	NC			10.00		23	10	19	57	0	00	29.34	30.44							
SUNRISE: 0739						DEC 15						SUNRISE: 1724						SUNRISE: 0742						DEC 21						SUNSET: 1726					
01	CLR	NC			10.00	39	34	37	82	9	03	29.21	30.28	01	CLR	NC			10.00		20	11	17	68	0	00	29.35	30.44							
04	CLR	NC			10.00	37	32	35	82	8	03	29.22	30.28	04	CLR	NC			10.00		15	12	14	88	5	04	29.36	30.45							
07	CLR	NC			10.00	33	31	32	92	3	07	29.23	30.30	07	CLR	NC			10.00		13	9	12	84	3	05	29.38	30.47							
10	CLR	NC			10.00	41	34	38	76	6	07	29.26	30.33	10	CLR	NC			10.00		21	16	20	81	3	05	29.43	30.53							
13	CLR	NC			10.00	52	39	46	61	5	23	29.21	30.26	13	CLR	NC			10.00		32	13	26	45	3	12	29.39	30.48							
16	CLR	NC			10.00	57	39	48	51	0	00	29.16	30.21	16	CLR	NC			10.00		37	14	29	39	0	00	29.35	30.44							
19	CLR	NC			10.00	50	40	45	68	0	00	29.16	30.22	19	CLR	NC			10.00		33	16	27	49	3	06	29.31	30.40							
22	CLR	NC			9.00	43	40	42	89	0	00	29.14	30.20	22	CLR	NC			10.00		27	18	24	69	0	00	29.31	30.40							
SUNRISE: 0740						DEC 16						SUNRISE: 1724						SUNRISE: 0743						DEC 22						SUNSET: 1727					
01	CLR	NC			8.00	38	37	38	97	0	00	29.12	30.17	01	CLR	NC			10.00		26	18	23	71	6	06	29.32	30.40							
04	CLR	NC			5.00	34	34	34	100	0	00	29.09	30.14	04	OVC	070			10.00	-RA	28	21	26	75	0	00	29.32	30.40							
07	SCT	NC			7.00	36	35	36	97	0	00	29.05	30.10	07	OVC	090			10.00		29	25	28	85	3	08	29.31	30.39							
10	OVC	085			10.00	40	39	40	97	3	05	29.02	30.08	10	OVC	070			10.00		33	23	29	67	6	16	29.33	30.42							
13	BKN	120			10.00	47	39	43	74	6	32	28.95	30.00	13	BKN	095			10.00		41	25	35	53	0	00	29.27	30.35							
16	BKN	120			10.00	48	40	44	74	3	08	28.87	29.93	16	OVC	050			10.00		40	32	37	73	3	03	29.25	30.33							
19	OVC	110			10.00	47	41	44	80	6	36	28.84	29.89	19	OVC	048			10.00		37	34	36	89	7	02	29.25	30.33							
22	OVC	065			10.00	46	42	44	86	5	VR	28.69	29.74	22	BKN	065			8.00		34	34	34	100	5	07	29.21	30.29							
SUNRISE: 0740						DEC 17						SUNRISE: 1725						SUNRISE: 0743						DEC 23						SUNSET: 1727					
01	OVC	085			10.00	55	40	48	57	10	16	28.58	29.61	01	BKN	060			8.00	-RA	35	35	35	100	0	00	29.23	30.30							
04	OVC	050			10.00	51	49	50	92	9	20	28.54	29.57	04	FEW	NC			6.00	BR	33	33	33	100	0	00	29.22	30.29							
07	OVC	033			10.00	46	41	44	83	28	25	28.70	29.73	07	SCT	NC			3.00	BR	31	31	31	100	3	04	29.23	30.31							
10	OVC	041			10.00	43	38	41	82	15	25	28.83	29.87	10	SCT	NC			7.00		38	35	37	89	0	00	29.25	30.32							
13	OVC	022			10.00	43	38	41	82	10	25	28.84	29.88	13	FEW	NC			9.00		52	40	46	64	3	26	29.16	30.21							
16	OVC	024			10.00	43	39	41	86	10	30	28.85	29.88	16	FEW	NC			10.00		63	45	53	52	14	23	29.08	30.13							
19	OVC	025			10.00	41	37	39	86	8	32	28.88	29.93	19	SCT	NC			10.00		58	43	50	58	14	20	29.04	30.09							
22	OVC	017			10.00	40	35	38	83	3	29	28.90	29.95	22	FEW	NC			10.00		53	43	48	69	7	22	29.00	30.05							
SUNRISE: 0741						DEC 18						SUNRISE: 1725						SUNRISE: 0744						DEC 24						SUNSET: 1728					
01	OVC	027			10.00	38	32	35	79	6	27	28.90	29.96	01	OVC	050			10.00	-RA	59	46	52	62	13	20	28.91	29.95							
04	OVC	035			10.00	37	31	35	79	8	25	28.92	29.98	04	OVC	045			10.00		58	52	55	81	22	22	28.87	29.89							
07	BKN	038			10.00	34	25	31	70	6	27	28.97	30.03	07	OVC	015			4.00	RA BR	53	52	52	96	15	28	28.89	29.92							
10	FEW	NC			10.00	36	28	33	73	8	30	29.00	30.06	10	OVC	035			5.00	-RA BR	52	51	52	97	14	21	28.91	29.96							
13	BKN	035			10.00	39	24	33	55	5	28	28.94	29.99	13	OVC	010			10.00		45	44	45	97	16	30	28.94	29.98							
16	OVC	042			10.00	38	26	33	62	9	31	28.95	30.01	16	SCT	NC			10.00		42	37	40	82	14	30	29.03	30.08							
19	OVC	110			9.00	35	33	34	93	6	21	28.94	30.00	19	CLR	NC			10.00		34	28	32	79	8	26	29.13	30.19							
22	OVC	029			9.00	34	28	32	79	8	31	28.93	30.00	22	CLR	NC			10.00		29	25	28	85	5	29	29.21	30.27							

# OBSERVATIONS AT 3-HOURLY INTERVALS

# KNOXVILLE, TN

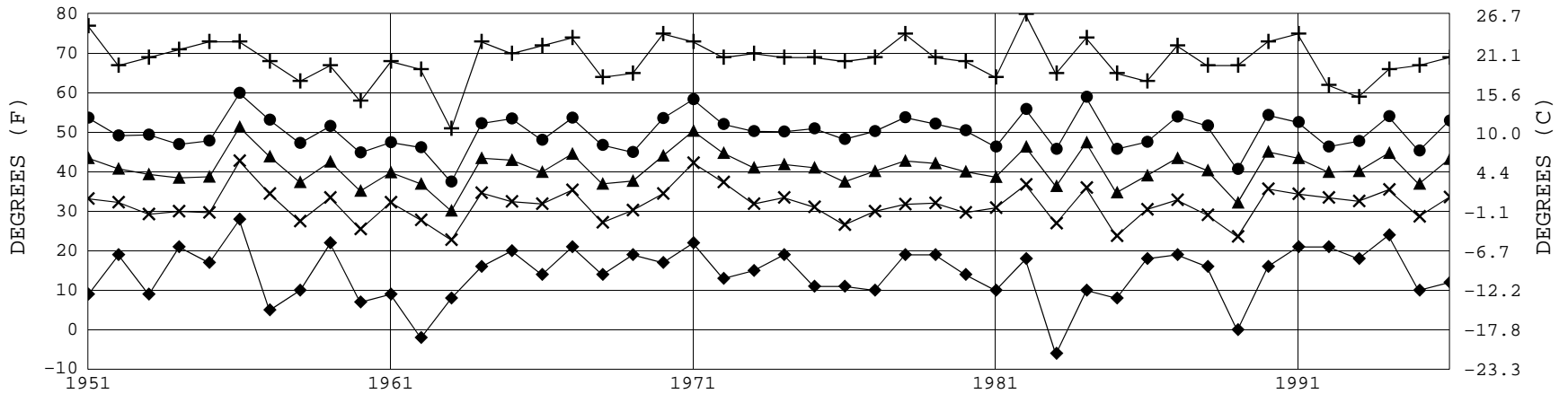
## DECEMBER 1996

TYS

WBAN # 13891

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		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	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																																																																																																																																																																																																																																																																																																																																																
SUNRISE: 0744						DEC 25	SUNSET: 1729						SUNRISE: 0746						DEC 31	SUNSET: 1733																																																																																																																																																																																																																																																																																																																																																									
01	SCT	NC			10.00	26	23	25	88	0	00	29.23	30.31	01	OVC	041			5.00	-RA	BR	62	61	61	96	12	24	29.10	30.13																																																																																																																																																																																																																																																																																																																																																
04	FEW	NC			10.00	25	20	23	81	3	36	29.27	30.35	04	OVC	020			3.00	BR		62	61	61	96	8	25	29.07	30.10																																																																																																																																																																																																																																																																																																																																																
07	CLR	NC			10.00	23	19	22	85	5	36	29.29	30.37	07	OVC	007			1.75	RA	BR	62	61	61	96	8	27	29.08	30.11																																																																																																																																																																																																																																																																																																																																																
10	CLR	NC			10.00	27	23	26	85	7	04	29.35	30.43	10	OVC	021			7.00			60	59	59	96	0	00	29.12	30.16																																																																																																																																																																																																																																																																																																																																																
13	CLR	NC			10.00	35	24	31	64	5	36	29.31	30.40	13	BKN	017			10.00			63	60	61	96	6	02	29.11	30.14																																																																																																																																																																																																																																																																																																																																																
16	CLR	NC			10.00	38	25	33	60	5	29	29.27	30.35	16	SCT	NC			10.00			64	58	60	81	5	15	29.08	30.11																																																																																																																																																																																																																																																																																																																																																
19	CLR	NC			10.00	33	25	30	72	0	00	29.26	30.34	19	CLR	NC			8.00			59	57	58	93	0	00	29.10	30.13																																																																																																																																																																																																																																																																																																																																																
22	CLR	NC			10.00	31	27	29	85	0	00	29.28	30.36	22	VV	001			1.00	BR		53	52	52	96	3	06	29.10	30.14																																																																																																																																																																																																																																																																																																																																																
SUNRISE: 0744						DEC 26	SUNSET: 1729						<b>3-HOURLY OBSERVATION NOTES</b>																																																																																																																																																																																																																																																																																																																																																																
01	CLR	NC			10.00	28	25	27	88	0	00	29.25	30.33	Sky Cover is the amount of the sky obscured. CLR = 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	26	24	25	92	3	04	29.24	30.32	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																															
07	CLR	NC			9.00	26	24	25	92	5	09	29.23	30.31	NC = No ceiling detected.																																																																																																																																																																																																																																																																																																																																																															
10	FEW	NC			9.00	31	27	29	85	6	03	29.25	30.33	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																															
13	SCT	NC			10.00	42	28	36	58	0	00	29.20	30.27	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																															
16	BKN	120			10.00	44	33	39	65	6	16	29.17	30.23																																																																																																																																																																																																																																																																																																																																																																
19	OVC	075			7.00	39	38	39	96	0	00	29.17	30.24																																																																																																																																																																																																																																																																																																																																																																
22	OVC	060			4.00	39	39	39	100	0	00	29.15	30.21																																																																																																																																																																																																																																																																																																																																																																
SUNRISE: 0745						DEC 27	SUNSET: 1730						<b>SUMMARY BY HOUR</b>																																																																																																																																																																																																																																																																																																																																																																
01	OVC	010			5.00	39	39	39	100	0	00	29.13	30.19	<table border="1"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="11">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>41</td><td>36</td><td>39</td><td>84</td><td>29.03</td><td>30.09</td><td>8.89</td><td>8</td><td>4</td><td>27</td></tr> <tr><td>02</td><td></td><td></td><td>41</td><td>36</td><td>39</td><td>85</td><td>29.03</td><td>30.08</td><td>8.35</td><td>7</td><td>4</td><td>27</td></tr> <tr><td>03</td><td></td><td></td><td>40</td><td>36</td><td>38</td><td>87</td><td>29.04</td><td>30.09</td><td>7.96</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>04</td><td></td><td></td><td>40</td><td>36</td><td>38</td><td>89</td><td>29.04</td><td>30.09</td><td>8.19</td><td>7</td><td>4</td><td>27</td></tr> <tr><td>05</td><td></td><td></td><td>40</td><td>36</td><td>38</td><td>87</td><td>29.04</td><td>30.09</td><td>7.97</td><td>8</td><td>5</td><td>27</td></tr> <tr><td>06</td><td></td><td></td><td>39</td><td>36</td><td>38</td><td>87</td><td>29.04</td><td>30.10</td><td>8.05</td><td>8</td><td>4</td><td>29</td></tr> <tr><td>07</td><td></td><td></td><td>39</td><td>35</td><td>37</td><td>89</td><td>29.06</td><td>30.11</td><td>7.95</td><td>7</td><td>2</td><td>28</td></tr> <tr><td>08</td><td></td><td></td><td>38</td><td>35</td><td>37</td><td>90</td><td>29.07</td><td>30.12</td><td>7.93</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>09</td><td></td><td></td><td>40</td><td>36</td><td>39</td><td>88</td><td>29.08</td><td>30.13</td><td>7.79</td><td>7</td><td>3</td><td>25</td></tr> <tr><td>10</td><td></td><td></td><td>42</td><td>37</td><td>40</td><td>83</td><td>29.09</td><td>30.14</td><td>8.20</td><td>8</td><td>1</td><td>26</td></tr> <tr><td>11</td><td></td><td></td><td>44</td><td>37</td><td>42</td><td>77</td><td>29.09</td><td>30.14</td><td>8.65</td><td>9</td><td>4</td><td>27</td></tr> <tr><td>12</td><td></td><td></td><td>47</td><td>37</td><td>43</td><td>71</td><td>29.07</td><td>30.12</td><td>8.75</td><td>9</td><td>5</td><td>26</td></tr> <tr><td>13</td><td></td><td></td><td>48</td><td>37</td><td>43</td><td>66</td><td>29.04</td><td>30.10</td><td>9.31</td><td>9</td><td>5</td><td>27</td></tr> <tr><td>14</td><td></td><td></td><td>49</td><td>37</td><td>44</td><td>65</td><td>29.03</td><td>30.08</td><td>9.14</td><td>10</td><td>6</td><td>26</td></tr> <tr><td>15</td><td></td><td></td><td>50</td><td>37</td><td>44</td><td>65</td><td>29.02</td><td>30.07</td><td>8.98</td><td>11</td><td>7</td><td>27</td></tr> <tr><td>16</td><td></td><td></td><td>50</td><td>37</td><td>44</td><td>64</td><td>29.02</td><td>30.07</td><td>9.34</td><td>9</td><td>5</td><td>27</td></tr> <tr><td>17</td><td></td><td></td><td>48</td><td>37</td><td>44</td><td>67</td><td>29.03</td><td>30.08</td><td>9.39</td><td>8</td><td>4</td><td>26</td></tr> <tr><td>18</td><td></td><td></td><td>46</td><td>37</td><td>42</td><td>71</td><td>29.03</td><td>30.09</td><td>9.19</td><td>8</td><td>4</td><td>25</td></tr> <tr><td>19</td><td></td><td></td><td>45</td><td>37</td><td>42</td><td>73</td><td>29.04</td><td>30.10</td><td>9.39</td><td>7</td><td>4</td><td>26</td></tr> <tr><td>20</td><td></td><td></td><td>44</td><td>37</td><td>41</td><td>77</td><td>29.05</td><td>30.11</td><td>9.07</td><td>7</td><td>3</td><td>29</td></tr> <tr><td>21</td><td></td><td></td><td>43</td><td>37</td><td>41</td><td>80</td><td>29.05</td><td>30.11</td><td>9.05</td><td>7</td><td>4</td><td>27</td></tr> <tr><td>22</td><td></td><td></td><td>43</td><td>37</td><td>40</td><td>81</td><td>29.05</td><td>30.11</td><td>8.79</td><td>6</td><td>4</td><td>26</td></tr> <tr><td>23</td><td></td><td></td><td>42</td><td>37</td><td>40</td><td>83</td><td>29.05</td><td>30.11</td><td>8.99</td><td>7</td><td>4</td><td>26</td></tr> <tr><td>24</td><td></td><td></td><td>41</td><td>36</td><td>39</td><td>83</td><td>29.05</td><td>30.11</td><td>8.74</td><td>7</td><td>4</td><td>27</td></tr> </tbody> </table>												HOUR (LST)	AVERAGES											RESULTANT WIND (MPH)		CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION	STATION	SEA LEVEL	01			41	36	39	84	29.03	30.09	8.89	8	4	27	02			41	36	39	85	29.03	30.08	8.35	7	4	27	03			40	36	38	87	29.04	30.09	7.96	7	3	27	04			40	36	38	89	29.04	30.09	8.19	7	4	27	05			40	36	38	87	29.04	30.09	7.97	8	5	27	06			39	36	38	87	29.04	30.10	8.05	8	4	29	07			39	35	37	89	29.06	30.11	7.95	7	2	28	08			38	35	37	90	29.07	30.12	7.93	7	3	27	09			40	36	39	88	29.08	30.13	7.79	7	3	25	10			42	37	40	83	29.09	30.14	8.20	8	1	26	11			44	37	42	77	29.09	30.14	8.65	9	4	27	12			47	37	43	71	29.07	30.12	8.75	9	5	26	13			48	37	43	66	29.04	30.10	9.31	9	5	27	14			49	37	44	65	29.03	30.08	9.14	10	6	26	15			50	37	44	65	29.02	30.07	8.98	11	7	27	16			50	37	44	64	29.02	30.07	9.34	9	5	27	17			48	37	44	67	29.03	30.08	9.39	8	4	26	18			46	37	42	71	29.03	30.09	9.19	8	4	25	19			45	37	42	73	29.04	30.10	9.39	7	4	26	20			44	37	41	77	29.05	30.11	9.07	7	3	29	21			43	37	41	80	29.05	30.11	9.05	7	4	27	22			43	37	40	81	29.05	30.11	8.79	6	4	26	23			42	37	40	83	29.05	30.11	8.99	7	4	26	24			41	36	39	83	29.05	30.11	8.74	7	4	27
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10	OVC	025			2.50	42	42	42	100	5	02	29.18	30.24																																																																																																																																																																																																																																																																																																																																																																
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16	BKN	075			9.00	49	47	48	93	5	05	29.08	30.14																																																																																																																																																																																																																																																																																																																																																																
19	OVC	055			8.00	48	46	47	93	0	00	29.09	30.14																																																																																																																																																																																																																																																																																																																																																																
22	OVC	031			6.00	48	47	47	96	3	08	29.10	30.15																																																																																																																																																																																																																																																																																																																																																																
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13	OVC	035			5.00	57	54	55	90	0	00	29.07	30.11																																																																																																																																																																																																																																																																																																																																																																
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19	OVC	020			6.00	56	56	56	100	0	00	29.05	30.09																																																																																																																																																																																																																																																																																																																																																																
22	OVC	024			10.00	59	58	58	96	7	29	29.05	30.09																																																																																																																																																																																																																																																																																																																																																																
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01	OVC	026			10.00	63	59	61	87	12	22	29.02	30.05																																																																																																																																																																																																																																																																																																																																																																
04	OVC	090			10.00	58	58	58	100	8	24	29.05	30.09																																																																																																																																																																																																																																																																																																																																																																
07	OVC	013			10.00	57	56	56	96	3	29	29.05	30.09																																																																																																																																																																																																																																																																																																																																																																
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16	BKN	045			10.00	68	62	64	81	9	24	29.04	30.08																																																																																																																																																																																																																																																																																																																																																																
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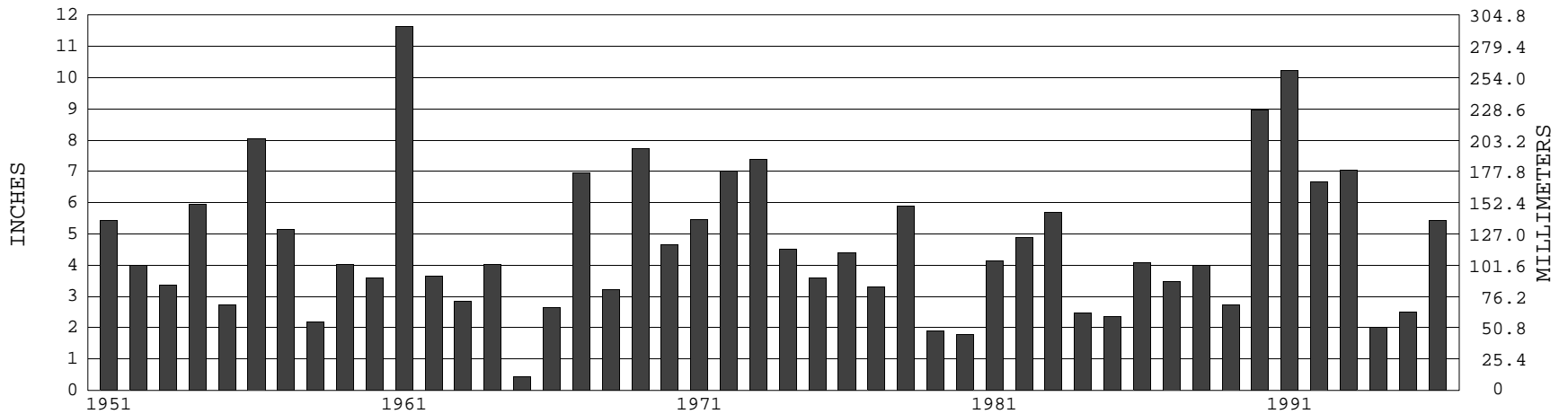
### KNOXVILLE, TN DECEMBER TEMPERATURES



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

Long-Term (1951-1996) Mean: 40.9      1961-1990 Normal: 40.1

### KNOXVILLE, TN DECEMBER PRECIPITATION



Long-Term (1951-1996) Mean Monthly Total: 4.66

1961-1990 Normal: 4.54



**DECEMBER 1996  
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.*

*Kenneth D Hadean*

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  
704-271-4800 (voice), 704-271-4876 (fax),  
704-271-4010(TDD)  
or [orders@ncdc.noaa.gov](mailto:orders@ncdc.noaa.gov)

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151 PATTON AVE  
ASHEVILLE, NORTH CAROLINA 28801 –5001

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