



OCTOBER 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

OCTOBER 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																												
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	74	55	65	0	61	63	0	0	RA FG+ BR				0.01	29.20	30.23	0.8	05	2.0	8	31	7	32	01																										
02	78	65	72*	8	66	67	0	7	RA BR				0.16	29.13	30.16	2.8	28	3.5	14	03	11	03	02																										
03	75	57	66	2	60	62	0	1	FG+ BR				0.00	29.13	30.16	5.8	03	8.7	24	04	20	03	03																										
04	71	53	62	-1	51	55	3	0					0.00	29.24	30.28	9.2	04	7.5	20	04	16	05	04																										
05	64	48	56	-6	48	52	9	0	BR				0.00	29.30	30.34	7.9	04	5.0	14	04	11	04	05																										
06	67	44	56	-6	47	51	9	0					0.00	29.20	30.24	5.1	04	3.6	11	07	9	04	06																										
07	70	50	60	-2	51	54	5	0	BR				0.00	28.93	29.96	5.9	05	6.2	15	04	13	05	07																										
08	73	52	63	2	52	57	2	0					0.00	28.66	29.68	3.3	05	6.0	15	03	13	03	08																										
09	63	45	54	-7	43	50	11	0	RA BR				T	28.84	29.86	8.6	28	8.2	22	28	20	28	09																										
10	59	43	51	-10	44	47	14	0	TS RA				0.02	29.02	30.06	5.8	27	3.5	16	02	13	02	10																										
11	63	36	50	-10	43	46	15	0	FG+ BR HZ				0.00	29.23	30.28	5.6	25	2.7	16	06	13	05	11																										
12	66	37	52	-7	42	47	13	0	BR				0.00	29.28	30.34	3.4	24	1.8	9	34	8	35	12																										
13	70	39	55	-4	45	50	10	0	BR				0.00	29.24	30.29	0.5	02	1.6	10	27	8	29	13																										
14	76	43	60	1	49	53	5	0	FG BR				0.00	29.14	30.18	0.5	02	1.6	11	02	9	02	14																										
15	78	48	63	4	53	57	2	0	BR HZ				0.00	29.07	30.10	1.7	04	1.3	9	27	8	29	15																										
16	78	48	63	5	54	58	2	0	BR				0.00	29.02	30.05	1.7	04	2.5	17	24	11	29	16																										
17	77	55	66	8	57	60	0	1	RA BR HZ				0.01	28.94	29.96	3.3	04	2.2	13	33	8	33	17																										
18	62	40	51	-7	47	51	14	0	TS TSRA RA BR				0.39	28.86	29.88	5.0	27	6.0	38	30	31	29	18																										
19	59	35	47*	-10	30	39	18	0	BCFG				0.00	28.91	29.96	1.9	25	3.3	21	31	16	30	19																										
20	62	33*	48	-9	31	40	17	0					0.00	28.89	29.93	3.6	26	3.3	15	25	13	25	20																										
21	69	44	57	1	42	49	8	0					0.00	28.96	30.00	2.4	28	2.6	10	22	8	02	21																										
22	74	51	63	7	51	57	2	0					0.00	28.85	29.88	2.4	04	6.4	31	18	26	19	22																										
23	73	44	59	3	40	48	6	0	RA BR				0.31	28.83	29.86	15.2	24	15.6	40	28	33	28	23																										
24	68	44	56	1	38	47	9	0					0.00	28.98	30.02	8.4	24	3.5	20	27	11	26	24																										
25	67	42	55	0	46	50	10	0	RA				T	29.06	30.10	3.7	25	2.4	11	11	8	32	25																										
26	66	56	61	6	57	58	4	0	RA BR				0.11	29.20	30.24	6.6	04	6.1	15	03	14	03	26																										
27	69	59	64	10	61	62	1	0	RA BR HZ				0.13	29.29	30.34	5.2	03	2.8	10	17	8	17	27																										
28	76	63	70	16	66	67	0	5	RA BR HZ				0.03	29.09	30.12	6.9	26	5.9	20	25	16	24	28																										
29	80*	62	71	17	64	66	0	6	FG+ BR				0.00	28.91	29.93	6.0	26	5.7	25	22	21	24	29																										
30	78	56	67	14	53	60	0	2	RA				T	28.83	29.85	14.5	25	15.5	40*	24	36*	24	30																										
31	70	46	58	5	42	50	7	0					0.00	29.00	30.04	6.9	25	3.8	13	01	10	01	31																										
70.2										48.2		59.2		■ ■		49.5		54.0		6.3		0.7		< MONTHLY AVERAGES		TOTALS-->		1.17		29.04		30.07		2.0		29		4.9		<- MONTHLY AVERAGES									
-4										2.2		0.8		■ ■		<----- DEPARTURE FROM NORMAL ----->																				-1.67		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.39 DATE: 18										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE:										MAXIMUM : 30.43 12 0900																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOWFALL: DATE:										MINIMUM : 29.62 08 1542																													
HEATING: 196 -42										NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH : 9									
COOLING: 22 -11																				MAXIMUM TEMP ≤ 32: 0										MINIMUM TEMP ≤ 0: 0										PRECIPITATION ≥ 0.10 INCH : 5									
																				THUNDERSTORMS : 2										HEAVY FOG : 4										SNOWFALL ≥ 1.0 INCH : 0									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

KNOXVILLE, TN

OCTOBER 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													01				0.01								01		0.01		
02		0.04	0.05	T									02												02		0.16		
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		T		
10				T									10	T	0.02	T				T					10		0.02		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14												14		0.00		
15													15												15		0.00		
16													16												16		0.00		
17													17												17		0.01		
18				T	0.01	0.13	0.07	T			0.01	0.08	18	0.01											18	0.30	0.39		
19													19												19		0.00		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23		0.11	0.14	0.06	T								23												23		0.31		
24													24												24		0.00		
25													25												25		T		
26	T												26			T	0.02	0.06	0.01						26		0.11		
27	0.02	T											27												27	0.02	0.13		
28													28				0.01	T	T						28	0.01	0.03		
29													29												29		0.00		
30													30												30		T		
31													31												31		0.00		

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

OCTOBER 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
SUNRISE: 0631						OCT 01	SUNSET: 1819						SUNRISE: 0636						OCT 07	SUNSET: 1811							
01	OVC	120			8.00	61	60	60	97	0	00	29.21	30.24	01	CLR	NC			7.00	52	50	51	93	0	00	29.06	30.10
04	CLR	NC			6.00	59	58	58	96	0	00	29.21	30.24	04	CLR	NC			7.00	51	50	51	96	3	06	29.02	30.05
07	OVC	009			< .25	56	56	56	100	0	00	29.22	30.27	07	CLR	NC			8.00	52	50	51	93	7	04	29.02	30.06
10	OVC	080			10.00	65	60	62	84	0	00	29.25	30.29	10	CLR	NC			10.00	57	52	54	83	7	08	29.00	30.04
13	OVC	070			10.00	71	62	65	73	5	01	29.21	30.24	13	CLR	NC			10.00	65	54	59	68	8	04	28.92	29.96
16	OVC	047			10.00	73	63	67	71	3	35	29.16	30.19	16	CLR	NC			10.00	68	53	59	59	12	09	28.86	29.89
19	OVC	090			10.00	69	65	66	87	0	00	29.16	30.19	19	CLR	NC			10.00	63	53	57	70	6	03	28.84	29.86
22	BKN	080			10.00	68	65	66	90	0	00	29.18	30.21	22	CLR	NC			10.00	57	46	51	67	10	04	28.81	29.84
SUNRISE: 0632						OCT 02	SUNSET: 1818						SUNRISE: 0637						OCT 08	SUNSET: 1809							
01	OVC	050			8.00	67	65	66	93	5	23	29.17	30.19	01	FEW	NC			10.00	54	47	50	77	7	04	28.72	29.74
04	OVC	003			5.00	66	65	65	96	0	00	29.15	30.17	04	CLR	NC			10.00	53	49	51	86	10	01	28.64	29.66
07	OVC	007			5.00	65	64	64	97	5	28	29.17	30.19	07	OVC	055			10.00	55	50	52	83	3	04	28.65	29.68
10	OVC	009			8.00	68	65	66	90	5	21	29.19	30.22	10	FEW	NC			10.00	64	54	58	70	3	VR	28.65	29.67
13	SCT	NC			10.00	73	67	69	81	5	31	29.13	30.16	13	OVC	038			10.00	69	56	61	63	6	VR	28.62	29.64
16	SCT	NC			10.00	77	66	70	69	5	33	29.07	30.09	16	FEW	NC			10.00	72	56	62	57	6	VR	28.61	29.63
19	CLR	NC			10.00	73	66	69	79	3	27	29.08	30.10	19	FEW	NC			10.00	67	54	59	63	10	28	28.64	29.66
22	OVC	044			10.00	69	67	68	93	3	04	29.11	30.13	22	BKN	048			10.00	61	53	57	75	5	22	28.71	29.73
SUNRISE: 0633						OCT 03	SUNSET: 1816						SUNRISE: 0638						OCT 09	SUNSET: 1808							
01	OVC	055			8.00	68	66	67	93	0	00	29.11	30.13	01	CLR	NC			10.00	55	51	53	87	6	23	28.71	29.73
04	VV	001			< .25	65	65	65	100	0	00	29.08	30.10	04	OVC	012			5.00	54	52	53	93	8	23	28.72	29.74
07	VV	001			< .25	62	62	62	100	0	00	29.11	30.14	07	OVC	014			5.00	56	52	54	87	8	25	28.78	29.80
10	BKN	016			7.00	71	64	67	79	9	03	29.14	30.16	10	OVC	032			10.00	54	45	49	72	13	28	28.85	29.88
13	BKN	055			7.00	72	62	66	71	13	02	29.13	30.16	13	SCT	NC			10.00	59	42	50	54	12	27	28.86	29.88
16	CLR	NC			10.00	71	61	65	71	14	01	29.11	30.14	16	FEW	NC			10.00	63	36	50	37	12	29	28.85	29.87
19	SCT	NC			10.00	60	55	57	84	13	02	29.16	30.19	19	CLR	NC			10.00	57	34	46	42	3	31	28.88	29.92
22	OVC	021			10.00	58	52	55	81	13	04	29.21	30.24	22	CLR	NC			10.00	51	38	45	61	0	00	28.95	29.99
SUNRISE: 0634						OCT 04	SUNSET: 1815						SUNRISE: 0639						OCT 10	SUNSET: 1807							
01	OVC	017			10.00	56	48	52	75	14	04	29.21	30.24	01	SCT	NC			10.00	44	39	42	83	0	00	28.94	29.98
04	OVC	015			10.00	55	47	51	74	12	05	29.21	30.24	04	OVC	065			10.00	47	43	45	86	5	16	28.94	29.98
07	OVC	013			10.00	53	46	49	77	10	02	29.24	30.29	07	OVC	060			10.00	47	45	46	93	0	00	28.96	30.00
10	SCT	NC			10.00	57	49	53	75	10	07	29.27	30.32	10	OVC	042			10.00	53	44	49	72	0	00	28.99	30.03
13	FEW	NC			10.00	65	52	58	63	3	VR	29.25	30.30	13	OVC	036			10.00	56	47	51	72	8	05	29.00	30.04
16	CLR	NC			10.00	71	55	62	57	8	02	29.21	30.26	16	BKN	080			10.00	55	48	51	77	5	14	29.02	30.06
19	CLR	NC			10.00	64	55	59	73	6	02	29.22	30.27	19	BKN	060			10.00	54	45	49	72	8	02	29.08	30.12
22	CLR	NC			8.00	59	55	57	87	6	02	29.26	30.31	22	CLR	NC			10.00	49	43	46	80	9	01	29.15	30.19
SUNRISE: 0634						OCT 05	SUNSET: 1813						SUNRISE: 0639						OCT 11	SUNSET: 1805							
01	SCT	NC			10.00	55	50	52	83	0	00	29.27	30.31	01	CLR	NC			9.00	44	42	43	93	0	00	29.16	30.21
04	CLR	NC			10.00	50	46	48	86	7	05	29.28	30.32	04	VV	001			1.00	43	42	43	97	0	00	29.19	30.24
07	BKN	025			10.00	50	44	47	80	8	05	29.33	30.38	07	SCT	NC			1.75	37	37	37	100	0	00	29.23	30.29
10	OVC	023			10.00	53	44	49	72	7	04	29.35	30.40	10	SCT	NC			3.00	47	45	46	93	3	06	29.28	30.34
13	OVC	021			10.00	58	47	52	67	3	VR	29.32	30.37	13	FEW	NC			10.00	60	47	53	61	8	02	29.25	30.31
16	CLR	NC			10.00	64	51	57	63	8	03	29.25	30.30	16	CLR	NC			10.00	62	44	53	52	9	06	29.21	30.25
19	CLR	NC			10.00	60	51	55	72	6	03	29.27	30.32	19	CLR	NC			10.00	54	42	48	64	0	00	29.21	30.27
22	CLR	NC			6.00	53	51	52	93	3	06	29.27	30.32	22	CLR	NC			10.00	46	43	45	89	0	00	29.24	30.29
SUNRISE: 0635						OCT 06	SUNSET: 1812						SUNRISE: 0640						OCT 12	SUNSET: 1804							
01	CLR	NC			10.00	52	46	49	80	5	02	29.26	30.31	01	CLR	NC			8.00	44	40	42	85	0	00	29.24	30.29
04	CLR	NC			10.00	49	42	46	77	3	35	29.26	30.31	04	SCT	NC			5.00	41	39	40	93	0	00	29.27	30.32
07	CLR	NC			9.00	44	42	43	93	6	03	29.26	30.32	07	CLR	NC			5.00	39	38	39	96	0	00	29.31	30.37
10	CLR	NC			10.00	55	46	50	72	5	06	29.27	30.32	10	CLR	NC			9.00	51	44	48	77	0	00	29.36	30.42
13	CLR	NC			10.00	63	47	54	56	7	VR	29.21	30.25	13	CLR	NC			10.00	64	42	53	45	0	00	29.30	30.35
16	CLR	NC			10.00	66	49	57	54	5	03	29.15	30.18	16	CLR	NC			10.00	65	41	53	42	7	33	29.23	30.28
19	CLR	NC			10.00	61	51	56	70	0	00	29.12	30.17	19	CLR	NC			10.00	59	42	50	54	0	00	29.24	30.29
22	CLR	NC			10.00	54	52	53	93	0	00	29.11	30.15	22	CLR	NC			10.00	51	44	48	77	0	00	29.25	30.30

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

OCTOBER 1996

TYS

WBAN # 13891

HOUR (LST)	≤ 12K FEET		SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	≤ 12K FEET		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)	DIRECTION TENS OF DEG	STATION	SEA LEVEL						
SUNRISE: 0641						OCT 13						SUNSET: 1803						SUNRISE: 0646						OCT 19						SUNSET: 1755					
01	CLR	NC			7.00		45	43	44	93	0	00	29.26	30.32	01	CLR	NC			10.00		41	38	40	89	0	00	28.92	29.98						
04	CLR	NC			5.00	BR	41	40	41	96	3	07	29.26	30.32	04	CLR	NC			10.00		36	35	36	97	0	00	28.92	29.97						
07	CLR	NC			5.00	BR	41	40	41	96	0	00	29.31	30.37	07	FEW	NC			10.00	BCFG	35	33	34	93	0	00	28.94	29.99						
10	CLR	NC			9.00		57	47	52	69	0	00	29.32	30.37	10	CLR	NC			10.00	BCFG	50	32	42	50	3	VR	28.97	30.01						
13	CLR	NC			10.00		66	46	55	49	5	VR	29.24	30.29	13	CLR	NC			10.00		55	18	40	23	10	35	28.91	29.96						
16	CLR	NC			10.00		69	45	56	42	3	30	29.19	30.23	16	CLR	NC			10.00		59	29	45	32	9	30	28.87	29.91						
19	CLR	NC			10.00		62	47	54	58	5	26	29.17	30.21	19	CLR	NC			10.00		50	26	40	39	5	02	28.87	29.93						
22	CLR	NC			10.00		54	48	51	80	0	00	29.18	30.22	22	CLR	NC			10.00		43	30	38	60	0	00	28.89	29.93						
SUNRISE: 0642						OCT 14						SUNRISE: 0647						OCT 20						SUNSET: 1754											
01	CLR	NC			6.00	BR	49	47	48	93	0	00	29.18	30.22	01	CLR	NC			10.00		38	31	35	76	0	00	28.87	29.91						
04	CLR	NC			5.00	BR	47	46	46	97	0	00	29.19	30.22	04	CLR	NC			10.00		34	31	33	89	5	22	28.87	29.91						
07	SCT	NC			1.00	BR	45	44	45	97	0	00	29.21	30.25	07	CLR	NC			10.00		34	31	33	89	0	00	28.90	29.95						
10	CLR	NC			7.00		59	51	55	75	0	00	29.20	30.24	10	CLR	NC			10.00		48	33	41	56	3	VR	28.93	29.98						
13	CLR	NC			10.00		71	51	60	49	5	35	29.14	30.17	13	CLR	NC			10.00		56	27	43	33	6	VR	28.88	29.93						
16	CLR	NC			10.00		76	47	60	36	8	01	29.08	30.11	16	CLR	NC			10.00		62	27	46	26	6	22	28.85	29.89						
19	CLR	NC			10.00		66	51	58	59	0	00	29.07	30.11	19	CLR	NC			10.00		56	27	43	33	3	17	28.87	29.91						
22	CLR	NC			10.00		58	51	54	78	0	00	29.10	30.13	22	CLR	NC			10.00		49	32	41	52	0	00	28.91	29.96						
SUNRISE: 0643						OCT 15						SUNRISE: 0648						OCT 21						SUNSET: 1752											
01	CLR	NC			5.00	BR	51	50	51	96	3	05	29.09	30.12	01	OVC	065			10.00		46	36	42	68	0	00	28.92	29.96						
04	CLR	NC			6.00	BR	52	50	51	93	0	00	29.08	30.11	04	OVC	060			10.00		47	37	42	69	3	04	28.92	29.96						
07	CLR	NC			3.00	BR	49	48	48	97	0	00	29.11	30.15	07	OVC	055			10.00		47	39	43	74	3	04	28.97	30.01						
10	CLR	NC			6.00	HZ	62	54	57	75	0	00	29.12	30.16	10	OVC	070			10.00		54	39	47	57	0	00	28.99	30.03						
13	CLR	NC			10.00		74	56	63	54	3	VR	29.08	30.11	13	OVC	070			10.00		64	43	53	46	5	24	28.99	30.03						
16	CLR	NC			10.00		78	55	64	45	0	00	29.02	30.04	16	OVC	080			10.00		67	44	55	44	6	21	28.94	29.98						
19	CLR	NC			10.00		68	55	60	63	3	23	29.02	30.06	19	CLR	NC			10.00		59	48	53	67	8	02	28.94	29.98						
22	CLR	NC			9.00		63	57	59	81	0	00	29.05	30.08	22	OVC	085			10.00		56	48	52	75	0	00	28.99	30.03						
SUNRISE: 0644						OCT 16						SUNRISE: 0649						OCT 22						SUNSET: 1751											
01	CLR	NC			5.00	BR	58	56	57	93	0	00	29.05	30.08	01	OVC	075			10.00		55	49	52	80	0	00	28.95	29.99						
04	CLR	NC			3.00	BR	55	54	54	96	0	00	29.05	30.08	04	FEW	NC			10.00		51	48	50	89	0	00	28.93	29.97						
07	FEW	NC			1.00	BR	48	48	48	100	0	00	29.08	30.11	07	BKN	095			10.00		54	49	51	83	5	01	28.94	29.98						
10	CLR	NC			7.00		66	56	60	70	3	01	29.09	30.12	10	FEW	NC			10.00		61	50	55	67	3	02	28.94	29.97						
13	CLR	NC			10.00		77	54	63	45	8	29	29.03	30.05	13	CLR	NC			10.00		71	52	60	51	3	VR	28.87	29.89						
16	FEW	NC			10.00		77	55	64	47	9	30	28.96	29.99	16	FEW	NC			10.00		73	56	63	55	5	07	28.79	29.81						
19	CLR	NC			10.00		70	55	61	59	0	00	28.96	29.99	19	CLR	NC			10.00		74	49	60	41	16	18	28.75	29.77						
22	FEW	NC			8.00		63	56	59	78	0	00	28.98	30.01	22	CLR	NC			10.00		73	50	60	44	17	18	28.72	29.74						
SUNRISE: 0645						OCT 17						SUNRISE: 0650						OCT 23						SUNSET: 1750											
01	CLR	NC			8.00		58	55	56	90	0	00	28.96	29.99	01	OVC	060			10.00	-RA	71	54	61	55	15	24	28.69	29.70						
04	BKN	100			4.00	BR	56	54	55	93	3	03	28.95	29.98	04	OVC	029			10.00	-RA BR	51	49	50	92	16	25	28.80	29.82						
07	BKN	110			3.00	BR	57	55	56	93	5	07	28.98	30.01	07	SCT	NC			10.00		45	41	43	86	8	23	28.87	29.89						
10	BKN	090			7.00		64	57	60	78	3	01	29.00	30.03	10	CLR	NC			10.00		56	38	47	51	18	23	28.87	29.88						
13	BKN	065			4.00	HZ	66	61	63	84	3	12	28.97	30.00	13	CLR	NC			10.00		64	31	48	29	23	24	28.82	29.84						
16	CLR	NC			10.00		76	59	65	56	6	27	28.89	29.92	16	CLR	NC			10.00		64	35	50	34	24	23	28.78	29.80						
19	CLR	NC			9.00		68	59	63	73	3	07	28.89	29.92	19	CLR	NC			10.00		56	37	47	49	13	23	28.84	29.87						
22	CLR	NC			8.00		62	58	60	86	0	00	28.87	29.89	22	CLR	NC			10.00		51	37	45	59	7	24	28.89	29.93						
SUNRISE: 0646						OCT 18						SUNRISE: 0651						OCT 24						SUNSET: 1749											
01	BKN	090			4.00	BR	59	58	58	96	0	00	28.86	29.88	01	CLR	NC			10.00		49	37	43	64	8	24	28.92	29.96						
04	BKN	090			4.00	BR	58	57	57	97	0	00	28.77	29.78	04	CLR	NC			10.00		46	37	42	71	6	26	28.94	29.98						
07	OVC	041			7.00	-RA	60	59	59	96	9	19	28.78	29.80	07	CLR	NC			10.00		44	37	41	76	0	00	28.99	30.03						
10	OVC	016			3.00	-RA BR	54	52	53	93	23	29	28.81	29.56	10	CLR	NC			10.00		57	41	49	55	6	23	29.02	30.06						
13	BKN	030			10.00		49	44	47	83	10	27	28.92	29.96	13	CLR	NC			10.00		64	37	51	37	6	23	28.99	30.03						
16	SCT	NC			10.00		56	41	49	57	0	00	28.89	29.92	16	CLR	NC			10.00		67	38	52	35	6	23	28.97	30.00						
19	FEW	NC			10.00		52	35	44	53	6	32	28.91	29.94	19	CLR	NC			10.00		57	40	49	53	5	06	28.97	30.01						
22	CLR	NC			10.00		46	36	42	68	5	26	28.93	29.98	22	FEW	NC			10.00		52	40	46	64	0	00	29.00	30.04						

OBSERVATIONS AT 3-HOURLY INTERVALS

KNOXVILLE, TN

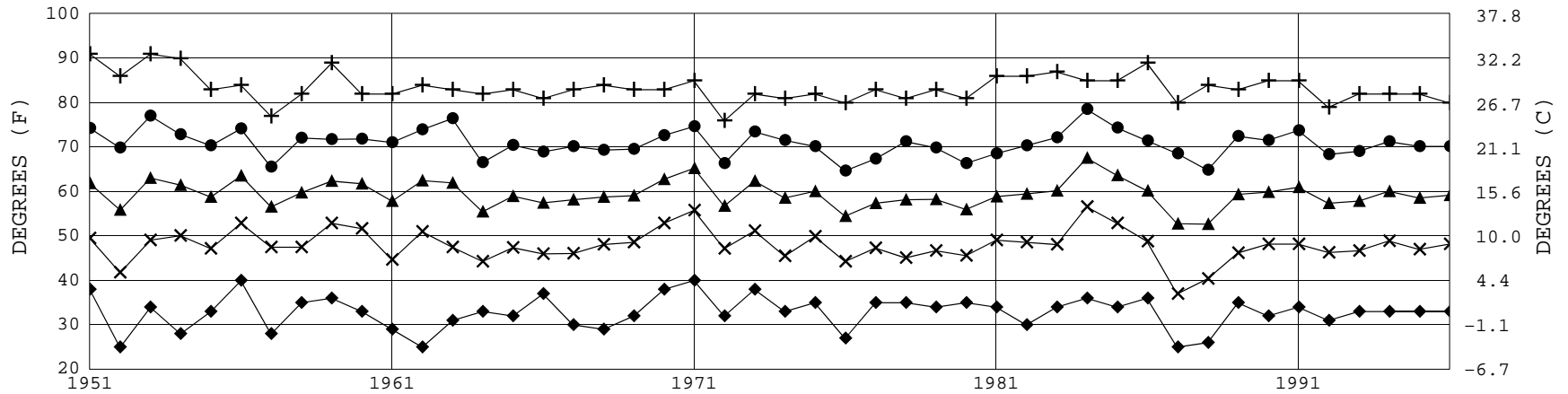
OCTOBER 1996

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: 0652						OCT 25	SUNSET: 1748						SUNRISE: 0658						OCT 31	SUNSET: 1741																																																																																																																																																																																																																																																																																																																																																			
01	SCT	NC			10.00		45	42	44	90	0	00	29.01	30.05	01	CLR	NC			10.00		53	45	49	74	0	00	29.00	30.03																																																																																																																																																																																																																																																																																																																																										
04	BKN	110			10.00		45	41	43	86	0	00	29.03	30.06	04	CLR	NC			10.00		49	46	47	90	3	06	29.00	30.03																																																																																																																																																																																																																																																																																																																																										
07	BKN	120			10.00		44	42	43	93	3	07	29.04	30.08	07	CLR	NC			10.00		49	43	46	80	0	00	29.03	30.06																																																																																																																																																																																																																																																																																																																																										
10	BKN	100			10.00		55	44	49	67	6	07	29.09	30.13	10	CLR	NC			10.00		59	46	52	62	5	06	29.08	30.12																																																																																																																																																																																																																																																																																																																																										
13	FEW	NC			10.00		62	46	54	56	0	00	29.05	30.09	13	CLR	NC			10.00		66	39	52	37	7	29	29.03	30.07																																																																																																																																																																																																																																																																																																																																										
16	BKN	200			10.00		67	45	55	45	3	04	29.02	30.06	16	CLR	NC			10.00		67	40	53	37	5	29	28.96	30.00																																																																																																																																																																																																																																																																																																																																										
19	OVC	070			10.00		62	48	54	60	5	10	29.05	30.09	19	SCT	NC			10.00		62	41	51	46	5	23	28.96	29.99																																																																																																																																																																																																																																																																																																																																										
22	OVC	045			10.00		62	50	55	65	0	00	29.12	30.15	22	SCT	NC			10.00		59	42	50	54	0	00	28.95	29.98																																																																																																																																																																																																																																																																																																																																										
SUNRISE: 0653						OCT 26	SUNSET: 1747						3-HOURLY OBSERVATION NOTES																																																																																																																																																																																																																																																																																																																																																										
01	BKN	120			10.00		57	54	55	90	3	06	29.13	30.17	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	OVC	050			7.00	-RA	56	54	55	93	7	03	29.15	30.19	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																								
07	BKN	110			10.00		56	54	55	93	10	03	29.16	30.19	NC = No ceiling detected.																																																																																																																																																																																																																																																																																																																																																								
10	SCT	NC			8.00		59	55	57	87	8	05	29.21	30.25	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																								
13	SCT	NC			10.00		64	57	60	78	10	04	29.18	30.22	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																								
16	OVC	045			2.50	-RA BR	63	60	61	90	0	00	29.20	30.24																																																																																																																																																																																																																																																																																																																																																									
19	OVC	035			2.50	BR	61	60	60	97	8	02	29.22	30.26																																																																																																																																																																																																																																																																																																																																																									
22	OVC	043			4.00	-RA BR	61	59	60	93	0	00	29.28	30.32																																																																																																																																																																																																																																																																																																																																																									
SUNRISE: 0654						OCT 27	SUNSET: 1745						SUMMARY BY HOUR																																																																																																																																																																																																																																																																																																																																																										
01	OVC	029			2.50	BR	60	59	59	96	6	02	29.28	30.33	<table border="1"> <thead> <tr> <th rowspan="2">HOUR (LST)</th> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th colspan="6">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th>DRY BULB</th> <th>DEW POINT</th> <th>WET BULB</th> <th>RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th>VISIBILITY (MILES)</th> <th>WIND SPEED (MPH)</th> <th>SPEED</th> <th>DIRECTION</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>54</td><td>50</td><td>52</td><td>86</td><td>29.04</td><td>30.07</td><td>7.96</td><td>7</td><td>2</td><td>29</td></tr> <tr><td>02</td><td></td><td></td><td>53</td><td>50</td><td>51</td><td>88</td><td>29.04</td><td>30.07</td><td>7.37</td><td>6</td><td>1</td><td>28</td></tr> <tr><td>03</td><td></td><td></td><td>53</td><td>50</td><td>51</td><td>89</td><td>29.04</td><td>30.07</td><td>6.69</td><td>6</td><td>2</td><td>19</td></tr> <tr><td>04</td><td></td><td></td><td>52</td><td>49</td><td>51</td><td>90</td><td>29.03</td><td>30.07</td><td>6.58</td><td>6</td><td>1</td><td>28</td></tr> <tr><td>05</td><td></td><td></td><td>52</td><td>49</td><td>50</td><td>90</td><td>29.04</td><td>30.08</td><td>6.63</td><td>6</td><td>1</td><td>27</td></tr> <tr><td>06</td><td></td><td></td><td>52</td><td>48</td><td>50</td><td>89</td><td>29.05</td><td>30.09</td><td>6.81</td><td>6</td><td>0</td><td>0</td></tr> <tr><td>07</td><td></td><td></td><td>51</td><td>48</td><td>50</td><td>91</td><td>29.06</td><td>30.10</td><td>6.42</td><td>6</td><td>1</td><td>27</td></tr> <tr><td>08</td><td></td><td></td><td>53</td><td>49</td><td>51</td><td>89</td><td>29.07</td><td>30.11</td><td>6.22</td><td>6</td><td>1</td><td>28</td></tr> <tr><td>09</td><td></td><td></td><td>56</td><td>50</td><td>53</td><td>82</td><td>29.08</td><td>30.12</td><td>7.37</td><td>7</td><td>1</td><td>27</td></tr> <tr><td>10</td><td></td><td></td><td>59</td><td>50</td><td>54</td><td>74</td><td>29.08</td><td>30.11</td><td>8.15</td><td>8</td><td>2</td><td>27</td></tr> <tr><td>11</td><td></td><td></td><td>62</td><td>50</td><td>55</td><td>65</td><td>29.08</td><td>30.12</td><td>9.13</td><td>8</td><td>3</td><td>27</td></tr> <tr><td>12</td><td></td><td></td><td>64</td><td>49</td><td>56</td><td>60</td><td>29.07</td><td>30.10</td><td>9.42</td><td>8</td><td>3</td><td>28</td></tr> <tr><td>13</td><td></td><td></td><td>66</td><td>49</td><td>57</td><td>58</td><td>29.05</td><td>30.08</td><td>9.55</td><td>8</td><td>4</td><td>27</td></tr> <tr><td>14</td><td></td><td></td><td>67</td><td>49</td><td>58</td><td>54</td><td>29.02</td><td>30.05</td><td>9.39</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>15</td><td></td><td></td><td>68</td><td>49</td><td>58</td><td>52</td><td>29.01</td><td>30.04</td><td>9.65</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>16</td><td></td><td></td><td>69</td><td>50</td><td>58</td><td>53</td><td>29.00</td><td>30.04</td><td>9.44</td><td>7</td><td>3</td><td>27</td></tr> <tr><td>17</td><td></td><td></td><td>67</td><td>50</td><td>58</td><td>56</td><td>29.00</td><td>30.03</td><td>9.38</td><td>6</td><td>2</td><td>27</td></tr> <tr><td>18</td><td></td><td></td><td>64</td><td>50</td><td>57</td><td>62</td><td>29.01</td><td>30.04</td><td>9.56</td><td>5</td><td>2</td><td>27</td></tr> <tr><td>19</td><td></td><td></td><td>63</td><td>49</td><td>56</td><td>64</td><td>29.01</td><td>30.05</td><td>9.53</td><td>6</td><td>1</td><td>27</td></tr> <tr><td>20</td><td></td><td></td><td>61</td><td>49</td><td>55</td><td>67</td><td>29.02</td><td>30.06</td><td>9.42</td><td>6</td><td>2</td><td>27</td></tr> <tr><td>21</td><td></td><td></td><td>59</td><td>50</td><td>54</td><td>73</td><td>29.03</td><td>30.07</td><td>9.23</td><td>6</td><td>2</td><td>27</td></tr> <tr><td>22</td><td></td><td></td><td>58</td><td>50</td><td>54</td><td>76</td><td>29.04</td><td>30.07</td><td>9.03</td><td>7</td><td>1</td><td>28</td></tr> <tr><td>23</td><td></td><td></td><td>56</td><td>50</td><td>53</td><td>79</td><td>29.04</td><td>30.07</td><td>8.40</td><td>6</td><td>1</td><td>26</td></tr> <tr><td>24</td><td></td><td></td><td>55</td><td>50</td><td>52</td><td>82</td><td>29.03</td><td>30.07</td><td>8.48</td><td>6</td><td>1</td><td>26</td></tr> </tbody> </table>												HOUR (LST)	CEILOMETER	EFF CLD AMT	AVERAGES						RESULTANT WIND (MPH)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION	01			54	50	52	86	29.04	30.07	7.96	7	2	29	02			53	50	51	88	29.04	30.07	7.37	6	1	28	03			53	50	51	89	29.04	30.07	6.69	6	2	19	04			52	49	51	90	29.03	30.07	6.58	6	1	28	05			52	49	50	90	29.04	30.08	6.63	6	1	27	06			52	48	50	89	29.05	30.09	6.81	6	0	0	07			51	48	50	91	29.06	30.10	6.42	6	1	27	08			53	49	51	89	29.07	30.11	6.22	6	1	28	09			56	50	53	82	29.08	30.12	7.37	7	1	27	10			59	50	54	74	29.08	30.11	8.15	8	2	27	11			62	50	55	65	29.08	30.12	9.13	8	3	27	12			64	49	56	60	29.07	30.10	9.42	8	3	28	13			66	49	57	58	29.05	30.08	9.55	8	4	27	14			67	49	58	54	29.02	30.05	9.39	7	3	27	15			68	49	58	52	29.01	30.04	9.65	7	3	27	16			69	50	58	53	29.00	30.04	9.44	7	3	27	17			67	50	58	56	29.00	30.03	9.38	6	2	27	18			64	50	57	62	29.01	30.04	9.56	5	2	27	19			63	49	56	64	29.01	30.05	9.53	6	1	27	20			61	49	55	67	29.02	30.06	9.42	6	2	27	21			59	50	54	73	29.03	30.07	9.23	6	2	27	22			58	50	54	76	29.04	30.07	9.03	7	1	28	23			56	50	53	79	29.04	30.07	8.40	6	1	26	24			55	50	52	82	29.03	30.07	8.48	6	1	26
HOUR (LST)	CEILOMETER	EFF CLD AMT	AVERAGES						RESULTANT WIND (MPH)																																																																																																																																																																																																																																																																																																																																																														
			DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION																																																																																																																																																																																																																																																																																																																																																											
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04	OVC	029			2.50	BR	59	58	58	96	3	36	29.29	30.33																																																																																																																																																																																																																																																																																																																																																									
07	OVC	021			2.00	BR	60	58	59	93	0	00	29.32	30.37																																																																																																																																																																																																																																																																																																																																																									
10	OVC	021			2.50	BR	63	60	61	90	0	00	29.35	30.40																																																																																																																																																																																																																																																																																																																																																									
13	OVC	011			5.00	BR HZ	67	62	64	84	3	33	29.31	30.35																																																																																																																																																																																																																																																																																																																																																									
16	OVC	033			5.00	BR HZ	69	64	66	84	3	06	29.28	30.32																																																																																																																																																																																																																																																																																																																																																									
19	OVC	009			5.00	BR	65	63	64	93	0	00	29.27	30.31																																																																																																																																																																																																																																																																																																																																																									
22	OVC	007			4.00	BR	66	64	65	93	5	28	29.25	30.29																																																																																																																																																																																																																																																																																																																																																									
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01	OVC	005			2.00	BR	65	64	64	97	6	25	29.21	30.24																																																																																																																																																																																																																																																																																																																																																									
04	OVC	003			2.00	BR	66	65	65	96	0	00	29.17	30.19																																																																																																																																																																																																																																																																																																																																																									
07	OVC	015			2.00	-RA BR	66	65	65	96	7	22	29.14	30.16																																																																																																																																																																																																																																																																																																																																																									
10	BKN	047			4.00	HZ	72	67	69	84	14	23	29.13	30.15																																																																																																																																																																																																																																																																																																																																																									
13	OVC	025			10.00		74	66	69	76	13	26	29.08	30.10																																																																																																																																																																																																																																																																																																																																																									
16	OVC	018			5.00	-RA BR	70	67	68	90	5	34	29.05	30.07																																																																																																																																																																																																																																																																																																																																																									
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22	FEW	NC			3.00	BR	65	65	65	100	0	00	29.02	30.04																																																																																																																																																																																																																																																																																																																																																									
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01	OVC	007			0.25	FG	64	64	64	100	7	30	29.00	30.02																																																																																																																																																																																																																																																																																																																																																									
04	VV	001			0.50	FG	62	62	62	100	0	00	28.99	30.01																																																																																																																																																																																																																																																																																																																																																									
07	OVC	003			1.00	BR	63	63	63	100	0	00	29.00	30.02																																																																																																																																																																																																																																																																																																																																																									
10	OVC	003			2.00	BR	68	65	66	90	0	00	28.98	30.01																																																																																																																																																																																																																																																																																																																																																									
13	SCT	NC			10.00		76	64	68	67	5	VR	28.91	29.94																																																																																																																																																																																																																																																																																																																																																									
16	FEW	NC			10.00		80	64	70	58	9	29	28.84	29.85																																																																																																																																																																																																																																																																																																																																																									
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22	OVC	060			10.00		74	64	68	71	14	25	28.83	29.84																																																																																																																																																																																																																																																																																																																																																									
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01	BKN	048			9.00		73	64	67	74	18	24	28.80	29.80																																																																																																																																																																																																																																																																																																																																																									
04	OVC	042			10.00		72	60	65	66	21	23	28.77	29.77																																																																																																																																																																																																																																																																																																																																																									
07	BKN	080			10.00		69	62	65	78	17	24	28.77	29.78																																																																																																																																																																																																																																																																																																																																																									
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13	FEW	NC			10.00		77	48	60	36	16	27	28.81	29.82																																																																																																																																																																																																																																																																																																																																																									
16	CLR	NC			10.00		77	42	58	29	15	28	28.81	29.82																																																																																																																																																																																																																																																																																																																																																									
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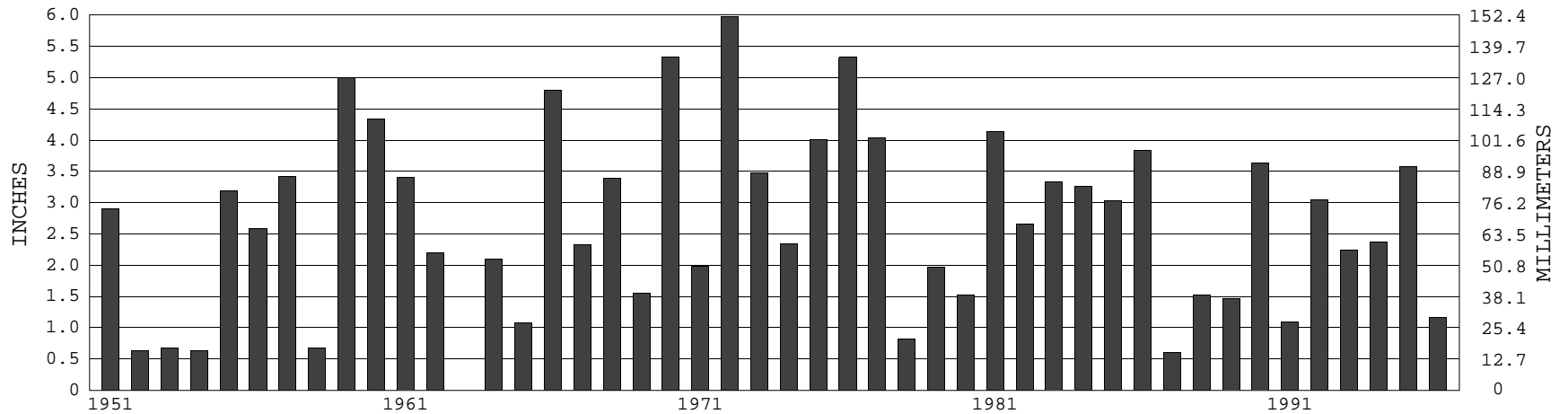
KNOXVILLE, TN OCTOBER TEMPERATURES



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

Long-Term (1951-1996) Mean: 59.5 1961-1990 Normal: 58.4

KNOXVILLE, TN OCTOBER PRECIPITATION



Long-Term (1951-1996) Mean Monthly Total: 2.67

1961-1990 Normal: 2.84



**OCTOBER 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

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151 PATTON AVE
ASHEVILLE, NORTH CAROLINA 28801 –5001

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