



OCTOBER 2003

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN

OAK RIDGE (OQT)

Lat: 36°01' N Long: 84°14' W Elev (Ground): 913 Feet

Time Zone: EASTERN WBAN: 53868 ISSN #: —

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	61	42	52	-12	45	49	13	0	RA				0.02	29.29	30.27	0.8	03	2.7	12	01	8	34	01		
02	62	39	51	-13	38	43	14	0	FG+ BR				0.00	29.25	30.24	2.0	06	2.9	17	06	14	06	02		
03	64	37*	51	-13	40	45	14	0					0.00	29.15	30.14	1.0	23	3.3	22	27	14	21	03		
04	73	47	60	-3	50	55	5	0	RA				T	29.03	30.00	1.3	24	3.4	16	29	12	28	04		
05	69	46	58	-5	50	53	7	0	FG+ BR				0.00	29.12	30.09	0.2	07	1.1	7	22	6	24	05		
06	74	54	64	2	54	58	1	0	RA BR				T	29.13	30.09	0.6	17	1.2	9	19	7	21	06		
07	78	52	65	3	54	58	0	0	FG+ BR				0.00	29.16	30.12	1.1	06	2.2	12	08	8	06	07		
08	79	54	67	6	57	60	0	2	BR				0.00	29.19	30.15	1.4	06	2.5	13	13	9	13	08		
09	76	57	67	6	60	62	0	2	RA BR				T	29.12	30.07	0.8	10	1.5	12	09	9	09	09		
10	73	61	67	6	62	64	0	2	RA FG+ BR				0.15	29.07	30.01	0.7	06	1.9	9	35	8	01	10		
11	78	61	70*	10	61	64	0	5	RA BR				0.05	29.07	30.02	0.8	07	2.0	12	06	9	10	11		
12	77	61	69	9	62	64	0	4	BR				0.00	29.07	30.02	0.4	20	1.0	9	18	8	17	12		
13	78	59	69	10	62	64	0	4	FG+ BR HZ				0.00	29.02	29.96	0.3	18	1.2	8	15	7	08	13		
14	72	51	62	3	56	59	3	0	RA BR				0.60	28.83	29.77	4.1	25	5.7	29*	29	20*	26	14		
15	69	44	57	-2	41	48	8	0					0.00	29.10	30.07	1.3	28	2.8	15	29	10	27	15		
16	71	40	56	-2	44	48	9	0	FG+ BR				0.00	29.20	30.18	0.7	19	2.0	14	29	10	27	16		
17	59	43	51	-7	48	50	14	0	FG+ BR				0.00	29.16	30.14	0.1	19	.3	7	12	5	18	17		
18	68	46	57	-1	46	51	8	0					0.00	29.15	30.12	0.8	06	1.7	12	05	10	06	18		
19	74	41	58	1	46	51	7	0	BR				0.00	29.16	30.13	0.5	19	1.2	10	16	8	16	19		
20	77	46	62	5	50	54	3	0	FG+ BR				0.00	29.19	30.15	1.3	21	1.6	10	19	8	19	20		
21	79	54	67	11	50	57	0	2	RA				T	28.96	29.91	4.2	24	5.5	18	29	14	22	21		
22	71	46	59	3	42	50	6	0	RA				T	28.89	29.84	1.9	35	3.5	20	28	13	34	22		
23	66	42	54	-2	43	47	11	0					0.00	28.91	29.88	0.8	11	2.6	12	07	8	05	23		
24	71	41	56	1	44	49	9	0	FG+ BR				0.00	29.14	30.12	0.5	07	1.7	10	06	7	06	24		
25	75	45	60	5	50	54	5	0					0.00	29.27	30.24	0.4	19	1.3	13	21	10	22	25		
26	64	56	60	5	58	59	5	0	RA BR				0.37	29.12	30.08	0.3	28	.8	8	28	7	28	26		
27	58	41	50	-4	46	48	15	0	RA FG+ BR				0.37	28.94	29.91	0.4	10	2.2	13	01	9	36	27		
28	53	41	47*	-7	44	45	18	0	RA FG+ BR				0.02	28.88	29.86	0.3	36	.7	9	09	7	17	28		
29	66	47	57	4	45	49	8	0	BR				0.00	28.96	29.93	1.7	22	3.1	17	22	12	22	29		
30	79*	42	61	8	46	52	4	0					0.00	29.19	30.17	1.2	22	2.1	14	19	13	22	30		
31	76	48	62	9	52	56	3	0	BR				0.00	29.32	30.29	1.2	24	2.5	15	28	9	27	31		
70.6		47.9	59.3	■ ■	49.9	53.8	6.1	0.7	< MONTHLY AVERAGES		TOTALS-->		1.58	29.10	30.06	0.3	23	2.2	<- MONTHLY AVERAGES						
-.5		2.2	0.9	■ ■	<-----DEPARTURE FROM NORMAL----->							-1.44	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3												
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.69				DATE : 26-27				SEA LEVEL PRESSURE				DATE		TIME		
MONTHLY									GREATEST 24-HR SNOWFALL:				DATE :				MAXIMUM				DATE		TIME		
TOTAL DEPARTURE									GREATEST SNOW DEPTH:				DATE :				MINIMUM				DATE		TIME		
HEATING: 190 -40									NUMBER OF DAYS WITH ➡				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH : 7				
COOLING: 21 -2													MAXIMUM TEMP ≤ 32 : 0				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 4				
1334 34													THUNDERSTORMS : 0				HEAVY FOG : 11				SNOWFALL ≥ 1.0 INCH : :				

OCTOBER 2003
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

OCTOBER 2003

OQT

WBAN # 53868

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	T	0.02	T										01												01			0.02	
02													02												02			0.00	
03													03												03			0.00	
04					T								04												04			T	
05													05												05			0.00	
06													06												06			T	
07	T	T	T										07												07			0.00	
08													08												08			0.00	
09													09												09			T	
10													10					T	T	0.01	0.01	0.04	0.02	0.07	10			0.15	
11	0.01	T	T		0.01	0.03							11												11			0.05	
12													12												12			0.00	
13													13												13			0.00	
14													14	0.08	0.20	0.31	T								14			0.60	
15												0.01	15												15			0.00	
16													16												16			0.00	
17													17												17			0.00	
18													18												18			0.00	
19													19												19			0.00	
20													20												20			0.00	
21													21												21		T	T	
22	T												22												22		T	T	
23													23												23			0.00	
24													24												24			0.00	
25													25												25			0.00	
26										0.04	0.08	0.24	26						0.01						26		T	0.37	
27	T	0.02	0.05	0.01	0.02	0.09	0.09	0.04	0.04	0.01			27												27			0.37	
28													28						T	T	0.01	0.01			28			0.02	
29													29												29			0.00	
30													30												30			0.00	
31													31												31			0.00	

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)												
Ending Date												
Ending Time (Hour/Min)												

Date and time are not entered for TRACE amounts.

Note : The sum of the hourly totals is given when it differs from the daily total. NWS does not edit ASOS hourly values but may edit daily and monthly totals. Hourly, daily, and monthly totals are printed as reported by the ASOS site.

* = 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

Wind direction is recorded in tens of degrees (2 digits) clockwise from true north. '00' = calm, 'VR' = variable.

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

WEATHER NOTATIONS

**OAK RIDGE, TN
OCTOBER 2003**

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.

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							10.00	10.00	
02							.25	10.00	
03							10.00	10.00	
04							7.00	10.00	
05							<.25	10.00	
06							1.25	10.00	
07							.25	10.00	
08							4.00	10.00	
09							3.00	10.00	
10							.25	10.00	
11							1.50	10.00	
12							5.00	10.00	
13							.25	10.00	
14							.75	10.00	
15							10.00	10.00	
16							<.25	10.00	
17							.25	10.00	
18							7.00	10.00	
19							1.25	10.00	
20							<.25	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							.25	10.00	
25							7.00	10.00	
26							.75	10.00	
27							.25	10.00	
28							.25	10.00	
29							1.50	10.00	
30							10.00	10.00	
31							6.00	10.00	
MONTHLY AVGS							3.90	10.00	

SUNSHINE (MINUTES)

Total:

Possible:

Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR PTLY CLDY CLOUDY MISSING

31

MINIMUM VISIBILITY (MILES)

<=0.25 <=3.0 >=7.0

10 18 10

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

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WBAN # 53868

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION		SEA LEVEL	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)		EFF CLD AMT Oktas	VISIBILITY (MILES)	DRY BULB		DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0632						OCT 01	SUNSET: 1821						SUNRISE: 0637						OCT 07	SUNSET: 1812									
01	OVC	085			10.00	-RA	56	47	51	72	3	VR	29.32	30.28	01	OVC	001			0.25	FG	53	53	53	100	0	00	29.13	30.09
04	OVC	044			10.00		52	50	51	93	5	08	29.30	30.27	04	VV	001			0.25	FG	53	53	53	100	0	00	29.14	30.10
07	OVC	032			10.00		52	48	50	86	3	06	29.31	30.29	07	VV	001			0.25	FG	53	53	53	100	3	06	29.17	30.14
10	OVC	029			10.00		57	45	51	64	6	VR	29.31	30.29	10	CLR	NC			10.00		62	57	59	84	7	07	29.20	30.17
13	OVC	044			10.00		58	43	50	58	6	01	29.29	30.27	13	CLR	NC			10.00		74	56	63	54	5	VR	29.16	30.12
16	BKN	047			10.00		60	44	52	56	0	00	29.25	30.23	16	CLR	NC			10.00		78	53	63	42	3	VR	29.11	30.07
19	CLR	NC			10.00		51	43	47	74	0	00	29.26	30.24	19	CLR	NC			10.00		64	55	59	73	0	00	29.12	30.09
22	CLR	NC			10.00		45	43	44	93	0	00	29.27	30.26	22	OVC	065			10.00		60	55	57	84	0	00	29.17	30.14
SUNRISE: 0633						OCT 02	SUNSET: 1820						SUNRISE: 0637						OCT 08	SUNSET: 1811									
01	BKN	001			0.25	FG	41	40	41	96	0	00	29.27	30.25	01	CLR	NC			10.00		56	54	55	93	0	00	29.19	30.14
04	VV	001			0.25	FG	41	40	41	96	0	00	29.26	30.24	04	OVC	075			8.00		56	54	55	93	0	00	29.20	30.15
07	VV	001			0.25	FG	39	39	39	100	0	00	29.27	30.27	07	BKN	090			4.00	BR	55	54	54	96	0	00	29.23	30.19
10	CLR	NC			10.00		52	42	47	69	5	VR	29.29	30.28	10	BKN	100			10.00		65	57	60	76	7	05	29.26	30.22
13	SCT	NC			10.00		61	39	50	44	8	07	29.25	30.24	13	CLR	NC			10.00		75	58	65	55	7	VR	29.20	30.15
16	CLR	NC			10.00		60	30	46	32	6	VR	29.22	30.21	16	CLR	NC			10.00		77	55	64	47	6	VR	29.14	30.10
19	CLR	NC			10.00		51	35	44	54	0	00	29.22	30.22	19	FEW	NC			10.00		67	60	63	79	0	00	29.14	30.11
22	CLR	NC			10.00		44	38	41	79	3	06	29.24	30.24	22	BKN	110			6.00	BR	62	60	61	93	0	00	29.16	30.12
SUNRISE: 0633						OCT 03	SUNSET: 1818						SUNRISE: 0638						OCT 09	SUNSET: 1810									
01	CLR	NC			10.00		41	37	39	86	0	00	29.23	30.22	01	OVC	110			8.00		63	59	61	87	0	00	29.15	30.10
04	CLR	NC			10.00		39	37	38	93	3	07	29.21	30.20	04	CLR	NC			3.00	BR	57	56	56	96	3	VR	29.13	30.08
07	CLR	NC			10.00		38	36	37	93	0	00	29.23	30.23	07	CLR	NC			4.00	BR	57	56	56	96	0	00	29.17	30.13
10	CLR	NC			10.00		51	37	45	59	0	00	29.22	30.22	10	BKN	100			10.00		68	59	63	73	5	VR	29.18	30.14
13	CLR	NC			10.00		62	40	51	44	9	23	29.16	30.14	13	FEW	NC			10.00		75	59	65	58	3	VR	29.11	30.06
16	CLR	NC			10.00		63	41	52	45	8	25	29.08	30.06	16	OVC	095			10.00		75	59	65	58	5	07	29.08	30.03
19	CLR	NC			10.00		56	44	50	65	3	VR	29.07	30.05	19	OVC	100			10.00		70	64	66	82	0	00	29.08	30.03
22	CLR	NC			10.00		51	45	48	80	3	26	29.07	30.04	22	OVC	085			10.00		65	64	64	97	0	00	29.08	30.03
SUNRISE: 0634						OCT 04	SUNSET: 1817						SUNRISE: 0639						OCT 10	SUNSET: 1808									
01	FEW	NC			10.00		49	45	47	86	0	00	29.04	30.00	01	BKN	085			9.00		63	62	62	97	0	00	29.07	30.01
04	OVC	065			10.00		54	47	50	77	5	VR	29.03	29.98	04	BKN	055			7.00		62	61	61	96	0	00	29.06	30.00
07	OVC	050			10.00		53	48	50	83	0	00	29.04	30.01	07	BKN	100			9.00		62	60	61	93	3	VR	29.08	30.03
10	OVC	033			10.00		57	49	53	75	5	VR	29.06	30.03	10	BKN	080			10.00		65	61	63	87	5	06	29.10	30.06
13	CLR	NC			10.00		71	52	60	51	5	VR	29.02	29.97	13	SCT	NC			10.00		71	62	65	73	6	VR	29.07	30.01
16	BKN	080			10.00		72	51	60	48	6	VR	29.00	29.95	16	OVC	080			10.00		70	62	65	76	0	00	29.04	29.98
19	CLR	NC			10.00		64	53	58	68	0	00	29.01	29.97	19	OVC	090			8.00	-RA	67	64	65	91	0	00	29.04	29.99
22	CLR	NC			9.00		56	54	55	93	0	00	29.08	30.04	22	OVC	100			3.00	-RA BR	65	64	64	97	0	00	29.07	30.02
SUNRISE: 0635						OCT 05	SUNSET: 1815						SUNRISE: 0640						OCT 11	SUNSET: 1807									
01	CLR	NC			8.00		53	51	52	93	0	00	29.09	30.05	01	OVC	055			4.00	BR	63	62	62	97	0	00	29.07	30.02
04	CLR	NC			6.00	BR	49	48	48	97	0	00	29.10	30.07	04	OVC	065			2.50	BR	63	62	62	97	0	00	29.07	30.01
07	VV	001			<.25	FG	47	47	47	100	0	00	29.13	30.11	07	SCT	NC			1.75	BR	61	60	60	97	5	02	29.09	30.05
10	CLR	NC			10.00		56	52	54	87	0	00	29.15	30.12	10	SCT	NC			10.00		68	60	63	76	7	06	29.10	30.05
13	CLR	NC			10.00		67	46	56	47	3	VR	29.12	30.09	13	BKN	100			10.00		73	61	66	66	6	06	29.08	30.02
16	CLR	NC			10.00		67	45	55	45	0	00	29.10	30.07	16	OVC	055			10.00		75	61	66	62	3	15	29.04	29.98
19	CLR	NC			10.00		61	53	57	75	0	00	29.11	30.09	19	FEW	NC			10.00		70	63	66	79	0	00	29.05	29.99
22	CLR	NC			10.00		56	53	54	90	0	00	29.13	30.11	22	CLR	NC			10.00		63	61	62	93	0	00	29.07	30.02
SUNRISE: 0636						OCT 06	SUNSET: 1814						SUNRISE: 0641						OCT 12	SUNSET: 1806									
01	OVC	100			10.00		56	54	55	93	0	00	29.12	30.09	01	CLR	NC			7.00		62	60	61	93	0	00	29.08	30.02
04	BKN	095			8.00		56	55	55	97	0	00	29.12	30.08	04	OVC	046			8.00		63	62	62	97	0	00	29.08	30.02
07	OVC	003			4.00	BR	55	54	54	96	0	00	29.15	30.12	07	OVC	004			7.00		63	62	62	97	0	00	29.09	30.04
10	CLR	NC			10.00		66	55	60	68	0	00	29.17	30.13	10	OVC	033			10.00		68	62	64	81	3	21	29.11	30.06
13	CLR	NC			10.00		71	52	60	51	5	13	29.13	30.09	13	BKN	040			10.00		76	62	67	62	0	00	29.07	30.01
16	CLR	NC			10.00		71	52	60	51	6	19	29.09	30.05	16	OVC	080			10.00		76	62	67					

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2003

OQT

WBAN # 53868

HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)			SATELLITE		WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)	
	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0642						OCT 13	SUNSET: 1804						SUNRISE: 0647						OCT 19	SUNSET: 1756									
01	VV	001			0.25	FG	62	62	62	100	0	00	29.07	30.01	01	CLR	NC			9.00	BR	45	44	45	97	0	00	29.14	30.12
04	OVC	001			0.25	FG	60	60	60	100	0	00	29.06	30.00	04	CLR	NC			10.00		44	42	43	93	0	00	29.14	30.11
07	OVC	070			3.00	BR	60	59	59	96	0	00	29.08	30.03	07	CLR	NC			2.00		41	41	41	100	0	00	29.18	30.17
10	OVC	070			6.00	HZ	67	62	64	84	5	06	29.08	30.03	10	CLR	NC			10.00		55	45	50	69	0	00	29.20	30.19
13	FEW	NC			9.00		75	63	67	66	3	VR	29.03	29.97	13	CLR	NC			10.00		69	46	57	44	0	00	29.14	30.11
16	CLR	NC			10.00		77	60	66	56	3	18	28.96	29.90	16	CLR	NC			10.00		74	47	59	38	6	15	29.09	30.06
19	CLR	NC			10.00		70	64	66	82	0	00	28.97	29.91	19	CLR	NC			10.00		61	52	56	72	0	00	29.13	30.12
22	CLR	NC			8.00		67	63	64	87	0	00	28.96	29.90	22	CLR	NC			10.00		53	50	51	89	0	00	29.17	30.15
SUNRISE: 0643						OCT 14	SUNSET: 1803						SUNRISE: 0648						OCT 20	SUNSET: 1755									
01	SCT	NC			6.00	BR	65	63	64	93	0	00	28.91	29.85	01	CLR	NC			10.00		49	48	48	97	0	00	29.19	30.16
04	FEW	NC			5.00	BR	63	62	62	97	0	00	28.87	29.81	04	SCT	NC			9.00		47	45	46	93	0	00	29.19	30.16
07	OVC	100			6.00	BR	64	62	63	93	0	00	28.84	29.78	07	VV	001			0.25	FG	47	47	47	100	0	00	29.24	30.22
10	OVC	018			9.00		70	64	66	82	7	20	28.76	29.69	10	CLR	NC			10.00		57	52	54	83	0	00	29.27	30.25
13	OVC	020			2.00	RA BR	67	65	66	93	8	21	28.67	29.60	13	CLR	NC			10.00		73	51	60	46	6	23	29.21	30.18
16	OVC	020			10.00		61	54	57	78	9	29	28.73	29.68	16	CLR	NC			10.00		77	49	61	37	8	20	29.14	30.10
19	OVC	043			10.00		58	43	50	58	13	28	28.89	29.84	19	CLR	NC			10.00		64	53	58	68	0	00	29.13	30.11
22	BKN	049			10.00		54	44	49	69	6	22	28.96	29.91	22	CLR	NC			10.00		55	52	53	90	0	00	29.12	30.09
SUNRISE: 0643						OCT 15	SUNSET: 1802						SUNRISE: 0649						OCT 21	SUNSET: 1754									
01	BKN	049			10.00		52	44	48	75	0	00	28.99	29.95	01	CLR	NC			10.00		57	52	54	83	6	24	29.09	30.04
04	CLR	NC			10.00		47	44	46	90	0	00	29.02	29.99	04	CLR	NC			10.00		55	52	53	90	5	23	29.07	30.01
07	CLR	NC			10.00		44	43	44	96	0	00	29.07	30.05	07	CLR	NC			10.00		54	51	52	90	5	VR	29.02	29.98
10	CLR	NC			10.00		58	45	51	62	5	VR	29.12	30.10	10	CLR	NC			10.00		65	55	59	70	7	23	28.99	29.95
13	CLR	NC			10.00		66	34	50	31	9	28	29.12	30.09	13	CLR	NC			10.00		74	57	64	56	8	25	28.92	29.86
16	CLR	NC			10.00		68	33	51	27	6	33	29.09	30.06	16	CLR	NC			10.00		79	45	60	30	9	29	28.87	29.81
19	CLR	NC			10.00		55	44	49	67	0	00	29.13	30.12	19	CLR	NC			10.00		71	40	55	32	3	27	28.91	29.85
22	CLR	NC			10.00		47	44	46	90	0	00	29.18	30.16	22	FEW	NC			10.00		65	42	53	44	3	VR	28.92	29.86
SUNRISE: 0644						OCT 16	SUNSET: 1800						SUNRISE: 0650						OCT 22	SUNSET: 1753									
01	CLR	NC			10.00		44	42	43	93	0	00	29.21	30.19	01	BKN	120			10.00		57	48	52	72	0	00	28.89	29.83
04	VV	001			1.00	BR	41	40	41	96	0	00	29.20	30.18	04	CLR	NC			10.00		54	45	49	72	0	00	28.88	29.82
07	VV	001			<.25	FG	40	40	40	100	0	00	29.24	30.24	07	CLR	NC			10.00		49	45	47	86	0	00	28.91	29.86
10	CLR	NC			10.00		54	47	50	77	0	00	29.26	30.25	10	CLR	NC			10.00		65	44	54	47	5	VR	28.91	29.86
13	CLR	NC			10.00		69	43	55	39	7	VR	29.21	30.19	13	SCT	NC			10.00		70	41	55	35	10	36	28.86	29.81
16	CLR	NC			10.00		70	41	55	35	6	VR	29.16	30.14	16	CLR	NC			10.00		70	38	54	31	3	VR	28.84	29.79
19	CLR	NC			10.00		58	48	53	70	0	00	29.17	30.15	19	CLR	NC			10.00		60	36	48	41	5	34	28.89	29.86
22	CLR	NC			10.00		52	47	49	83	0	00	29.17	30.15	22	CLR	NC			10.00		51	41	46	69	3	08	28.93	29.89
SUNRISE: 0645						OCT 17	SUNSET: 1759						SUNRISE: 0651						OCT 23	SUNSET: 1752									
01	CLR	NC			10.00		47	46	46	97	0	00	29.15	30.12	01	CLR	NC			10.00		44	40	42	85	0	00	28.89	29.85
04	CLR	NC			10.00		45	43	44	93	0	00	29.16	30.13	04	BKN	110			10.00		43	40	42	89	0	00	28.90	29.86
07	BKN	001			1.25	BR	44	43	44	96	0	00	29.14	30.12	07	OVC	100			10.00		45	41	43	86	0	00	28.91	29.88
10	FEW	NC			9.00		50	48	49	93	0	00	29.17	30.16	10	OVC	065			10.00		50	42	46	74	3	VR	28.93	29.91
13	SCT	NC			10.00		56	50	53	81	0	00	29.17	30.15	13	BKN	065			10.00		61	44	52	54	3	VR	28.86	29.83
16	OVC	070			10.00		59	50	54	72	3	19	29.15	30.13	16	CLR	NC			10.00		66	44	54	45	5	08	28.83	29.80
19	OVC	070			10.00		56	51	53	84	0	00	29.16	30.15	19	CLR	NC			10.00		56	45	50	67	0	00	28.91	29.88
22	OVC	043			10.00		52	50	51	93	0	00	29.17	30.16	22	CLR	NC			10.00		52	44	48	75	3	12	28.99	29.97
SUNRISE: 0646						OCT 18	SUNSET: 1758						SUNRISE: 0652						OCT 24	SUNSET: 1750									
01	OVC	033			10.00		53	51	52	93	0	00	29.17	30.15	01	CLR	NC			10.00		47	44	46	90	0	00	29.04	30.01
04	OVC	037			10.00		54	50	52	87	3	05	29.15	30.12	04	CLR	NC			10.00		43	42	43	97	0	00	29.08	30.04
07	CLR	NC			7.00		49	47	48	93	0	00	29.18	30.16	07	CLR	NC			5.00	BR	41	40	41	96	0	00	29.12	30.11
10	CLR	NC			10.00		59	47	53	64	7	VR	29.19	30.17	10	CLR	NC			10.00		54	43	48	67	7	07	29.18	30.16
13	CLR	NC			10.00		65	42	53	44	6	14	29.14	30.11	13	CLR	NC			10.00		65	43	53	45	0	00	29.16	30.13
16	CLR	NC			10.00		67	42	54	41	5	VR	29.11	30.07	16	CLR	NC			10.00		70	43	56	38	3	VR	29.13	30.10
19	CLR	NC			10.00		56	47	51	72	0	00	29.13	30.11	19	CLR	NC			10.00		57	49	53	75	0	00	29.16	30.15
22	CLR	NC			10.00		49	46	47	90	0	00	29.13	30.11	22	CLR	NC												

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2003

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)																	
				DRY BULB	DEW POINT					WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL																		
HOUR (LST)	SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT <small>Okta</small>	VISIBILITY (MILES)	WEATHER	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL																				
SUNRISE: 0653 OCT 25 SUNSET: 1749															SUNRISE: 0658 OCT 31 SUNSET: 1743																			
01	CLR	NC			10.00					50	47	48	89	0	00	29.23	30.21	01	CLR	NC			10.00				59	49	54	69	5	26	29.27	30.22
04	CLR	NC			8.00					47	46	46	97	0	00	29.26	30.23	04	CLR	NC			10.00				54	49	51	83	3	20	29.29	30.25
07	CLR	NC			7.00					46	44	45	93	0	00	29.30	30.29	07	CLR	NC			10.00				49	47	48	93	0	00	29.34	30.31
10	CLR	NC			10.00					60	48	54	65	3	VR	29.34	30.32	10	CLR	NC			10.00				67	52	58	59	6	VR	29.38	30.34
13	CLR	NC			10.00					70	50	59	49	0	00	29.29	30.26	13	CLR	NC			10.00				73	55	62	53	6	27	29.34	30.29
16	CLR	NC			10.00					75	53	62	46	5	VR	29.23	30.19	16	CLR	NC			10.00				75	55	63	50	3	VR	29.29	30.25
19	CLR	NC			10.00					64	56	59	75	0	00	29.23	30.20	19	CLR	NC			10.00				63	56	59	78	0	00	29.31	30.28
22	CLR	NC			10.00					59	55	57	87	0	00	29.26	30.23	22	CLR	NC			8.00				55	54	54	96	0	00	29.34	30.30
SUNRISE: 0654 OCT 26 SUNSET: 1748															3—HOURLY OBSERVATION NOTES																			
01	CLR	NC			8.00					57	54	55	90	0	00	29.24	30.21	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8–2/8, SCT = 3/8–4/8, BKN = 5/8–7/8, OVC = 8/8, VV = Vertical Visibilty = 8/8. Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC= No ceiling detected. & = Original observation contained additional weather elements. See page 3 for additional notes.																
04	BKN	044			9.00					58	55	56	90	0	00	29.20	30.15																	
07	SCT	NC			8.00					58	55	56	90	0	00	29.19	30.15																	
10	OVC	023			1.50	RA	BR			59	58	58	96	0	00	29.18	30.15																	
13	OVC	011			3.00	BR				63	61	62	93	0	00	29.10	30.06																	
16	OVC	043			3.00	BR				64	62	63	93	0	00	29.06	30.01																	
19	OVC	037			9.00					61	60	60	97	0	00	29.06	30.01																	
22	OVC	005			10.00					59	57	58	93	0	00	29.03	29.98																	
SUNRISE: 0654 OCT 27 SUNSET: 1747																																		
01	OVC	006			10.00					56	55	55	97	0	00	28.97	29.93																	
04	OVC	014			10.00					53	51	52	93	0	00	28.94	29.90																	
07	OVC	005			7.00	RA				49	48	48	97	6	07	28.95	29.91																	
10	OVC	030			10.00					49	46	47	90	0	00	28.99	29.96																	
13	BKN	038			10.00					53	46	49	77	6	23	28.96	29.93																	
16	CLR	NC			10.00					56	41	49	57	5	14	28.91	29.88																	
19	CLR	NC			10.00					50	45	47	83	0	00	28.91	29.89																	
22	CLR	NC			10.00					43	42	43	97	0	00	28.94	29.93																	
SUNRISE: 0655 OCT 28 SUNSET: 1746																																		
01	VV	001			0.25	FG				42	42	42	100	0	00	28.92	29.90																	
04	VV	001			0.25	FG				43	43	43	100	0	00	28.92	29.89																	
07	VV	001			0.50	FG				42	42	42	100	0	00	28.92	29.91																	
10	OVC	003			2.50	BR				42	42	42	100	3	VR	28.93	29.92																	
13	OVC	009			9.00					46	43	45	89	0	00	28.86	29.85																	
16	CLR	NC			10.00					52	44	48	75	0	00	28.82	29.80																	
19	OVC	080			10.00	-RA				51	46	49	83	0	00	28.84	29.83																	
22	FEW	NC			8.00					49	48	48	97	0	00	28.82	29.80																	
SUNRISE: 0656 OCT 29 SUNSET: 1745																																		
01	SCT	NC			5.00	BR				48	48	48	100	0	00	28.81	29.79																	
04	OVC	039			5.00	BR				48	48	48	100	3	20	28.82	29.80																	
07	OVC	004			3.00	BR				48	47	47	96	3	VR	28.90	29.87																	
10	OVC	006			6.00	BR				51	48	50	89	5	VR	28.98	29.96																	
13	CLR	NC			10.00					63	43	53	48	8	22	28.98	29.94																	
16	CLR	NC			10.00					65	38	51	37	5	24	29.00	29.96																	
19	CLR	NC			10.00					56	44	50	65	0	00	29.04	30.02																	
22	CLR	NC			10.00					48	45	47	89	0	00	29.06	30.04																	
SUNRISE: 0657 OCT 30 SUNSET: 1744																																		
01	CLR	NC			10.00					47	44	46	90	0	00	29.10	30.08																	
04	CLR	NC			10.00					45	42	44	90	0	00	29.15	30.13																	
07	CLR	NC			10.00					43	41	42	93	0	00	29.20	30.19																	
10	CLR	NC			10.00					56	45	50	67	0	00	29.26	30.24																	
13	CLR	NC			10.00					72	48	59	43	3	VR	29.21	30.18																	
16	CLR	NC			10.00					78	47	60	33	7	17	29.16	30.12																	
19	CLR	NC			10.00					63	53	57	70	0	00	29.17	30.15																	
22	CLR	NC			10.00					65	48	56	54	5	25	29.22	30.19																	
SUNRISE: 0658 OCT 31 SUNSET: 1743																																		
01	CLR	NC			10.00					59	49	54	69	5	26	29.27	30.22																	
04	CLR	NC			10.00					54	49	51	83	3	20	29.29	30.25																	
07	CLR	NC			10.00					49	47	48	93	0	00	29.34	30.31																	
10	CLR	NC			10.00					67	52	58	59	6	VR	29.38	30.34																	
13	CLR	NC			10.00					73	55	62	53	6	27	29.34	30.29																	
16	CLR	NC			10.00					75	55	63	50	3	VR	29.29	30.25																	
19	CLR	NC			10.00					63	56	59	78	0	00	29.31	30.28																	
22	CLR	NC			8.00					55	54	54	96	0	00	29.34	30.30																	
SUMMARY BY HOUR																																		
HOUR (LST)	AVERAGES												RESULTANT																					
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	WIND (MPH)																							
							STATION	SEA LEVEL			SPEED	DIRECTION																						
01			53	50	51	90	29.10	30.06	7.90	0	0	0																						
02			52	50	51	92	29.10	30.06	7.12	1	0	0																						
03			52	49	50	92	29.10	30.06	7.19	1	0	0																						
04			51	49	50	93	29.10	30.06	7.11	1	0	0																						
05			51	49	50	93	29.10	30.07	6.57	1	0	0																						
06			50	49	49	95	29.11	30.08	6.05	1	0	0																						
07			50	48	49	95	29.12	30.09	5.50	1	1	5																						
08			52	49	50	92	29.13	30.11	5.43	1	0	0																						
09			55	50	52	86	29.14	30.11	7.19	1	0	0																						
10			59	51	54	75	29.14	30.11	9.16	2	1	8																						
11			62	51	56	67	29.13	30.10	9.44	2	1	21																						
12			65	50	57	60	29.12	30.08	9.48	2	1	24																						
13			67	50	58	56	29.09	30.06	9.45	3	1	24																						
14			69	50	58	53	29.07	30.03	9.52	3	1	19																						
15			70	49	58	50	29.06	30.02	9.77	3	1	26																						
16			69	48	58	50	29.06	30.02	9.77	3	1	21																						
17			68	49	57	53	29.06	30.02	9.77	3	1	25																						
18			65	50	56	60	29.07	30.03	9.97	1	0	0																						
19			61	51	56	72	29.08	30.05	9.90	1	1	29																						
20			58	51	55	79	29.09	30.06	9.81	1	1	33																						
21			57	51	54	82	29.10	30.06	9.52	1	0	0																						
22			55	51	53	86	29.10	30.07	9.32	1	0	0																						
23			54	50	52	88	29.10	30.07	8.89	1	0	0																						
24			53	50	52	90	29.10	30.06	8.56	1	0	0																						

3-HOURLY OBSERVATION NOTES

Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8,

SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.

Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.

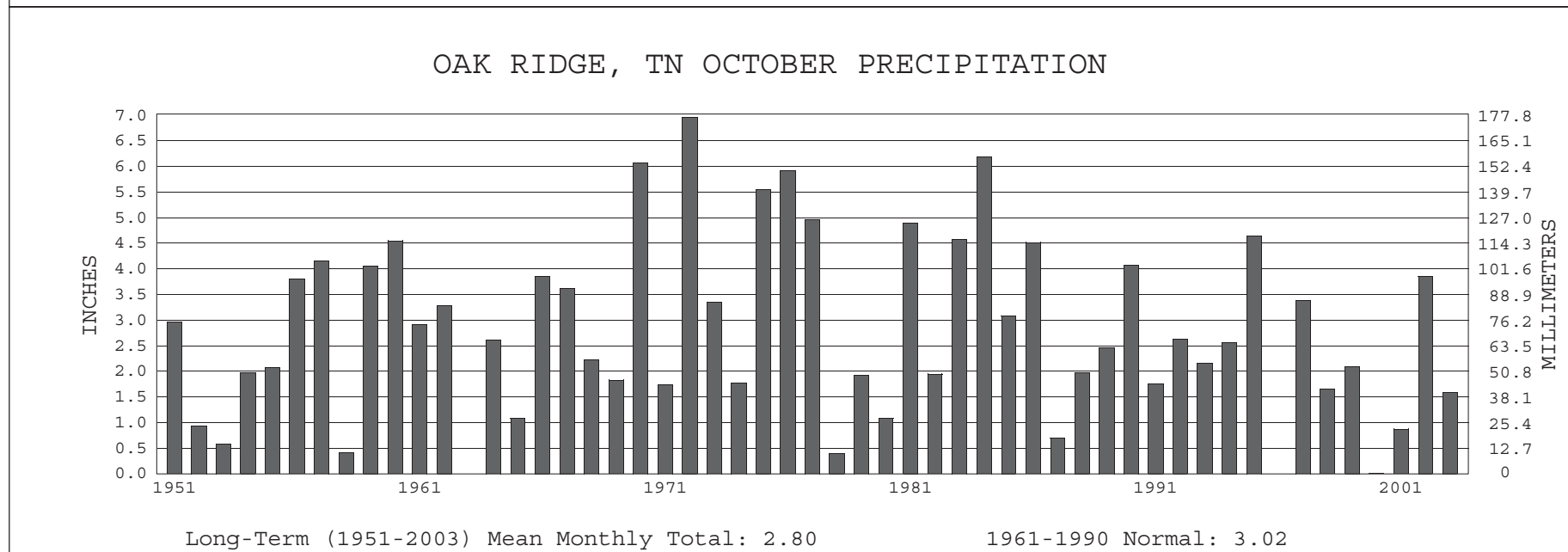
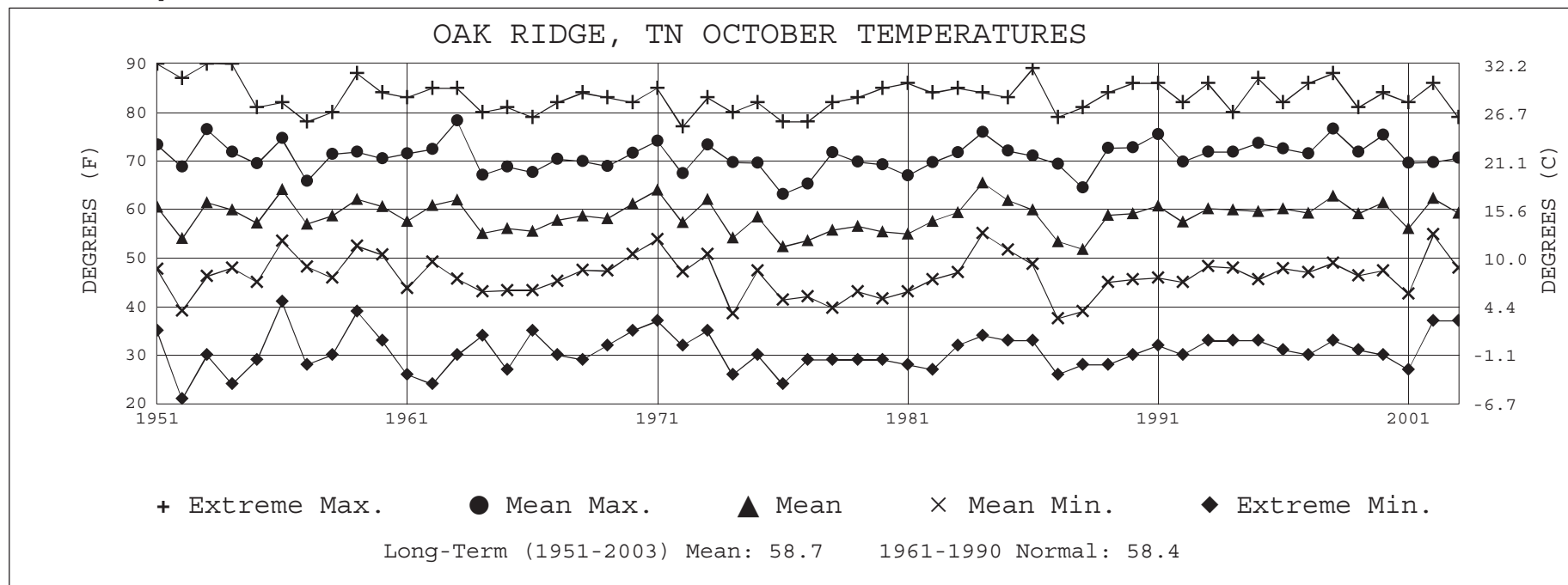
NC= No ceiling detected.

& = Original observation contained additional weather elements.

See page 3 for additional notes.

SUMMARY BY HOUR

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			53	50	51	90	29.10	30.06	7.90	0	0	0
02			52	50	51	92	29.10	30.06	7.12	1	0	0
03			52	49	50	92	29.10	30.06	7.19	1	0	0
04			51	49	50	93	29.10	30.06	7.11	1	0	0
05			51	49	50	93	29.10	30.07	6.57	1	0	0
06			50	49	49	95	29.11	30.08	6.05	1	0	0
07			50	48	49	95	29.12	30.09	5.50	1	1	5
08			52	49	50	92	29.13	30.11	5.43	1	0	0
09			55	50	52	86	29.14	30.11	7.19	1	0	0
10			59	51	54	75	29.14	30.11	9.16	2	1	8
11			62	51	56	67	29.13	30.10	9.44	2	1	21
12			65	50	57	60	29.12	30.08	9.48	2	1	24
13			67	50	58	56	29.09	30.06	9.45	3	1	24
14			69	50	58	53	29.07	30.03	9.52	3	1	19
15			70	49	58	50	29.06	30.02	9.77	3	1	26
16			69	48	58	50	29.06	30.02	9.77	3	1	21
17			68	49	57	53	29.06	30.02	9.77	3	1	25
18			65	50	56	60	29.07	30.03	9.97	1	0	0
19			61	51	56	72	29.08	30.05	9.90	1	1	29
20			58	51	55	79	29.09	30.06	9.81	1	1	33
21			57	51	54	82	29.10	30.06	9.52	1	0	0
22			55	51	53	86	29.10	30.07	9.32	1	0	0
23			54	50	52	88	29.10	30.07	8.89	1	0	0
24			53	50	52	90	29.10	30.06	8.56	1	0	0





OCTOBER 2003

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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