



OCTOBER 2004

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 #: -

OCTOBER 2004
OAK RIDGE, 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	25																									
01	80	54	67	3	58	61	0	2	FG+ BR HZ				0.00	29.16	30.11	0.3	23	1.8	15	27	10	24	01	26																									
02	79	59	69	5	62	64	0	4	RA BR HZ				0.09	29.22	30.17	0.8	21	1.4	14	19	10	19	02	27																									
03	75	53	64	0	57	60	1	0	BR				0.00	29.22	30.18	0.1	05	1.8	12	22	9	22	03	28																									
04	78	49	64	1	51	56	1	0	FG+ BR				0.00	29.21	30.18	0.8	20	1.3	12	17	8	22	04	29																									
05	76	49	63	0	49	55	2	0	BR				0.00	29.29	30.26	2.0	05	2.9	14	06	9	07	05	30																									
06	78	47	63	1	48	53	2	0					0.00	29.39	30.36	1.3	08	2.5	12	06	9	06	06	31																									
07	76	50	63	1	54	57	2	0	FG+ BR				0.00	29.42	30.39	0.3	05	.8	7	14	6	19	07	01																									
08	74	54	64	3	55	58	1	0	FG+ BR HZ				0.00	29.30	30.27	0.8	08	1.6	10	18	7	20	08	02																									
09	68	59	64	3	58	60	1	0	RA BR				0.04	29.20	30.15	1.2	06	1.5	7	05	6	06	09	03																									
10	77	59	68	7	58	62	0	3	BR				0.00	29.11	30.06	1.6	05	3.3	15	05	12	06	10	04																									
11	81*	57	69	9	53	59	0	4					0.00	29.07	30.01	1.0	06	2.9	12	09	10	07	11	05																									
12	74	59	67	7	61	63	0	2	RA FG BR				1.37	28.89	29.83	0.5	15	1.6	10	19	8	27	12	06																									
13	65	56	61	2	57	59	4	0	RA BR				0.58	28.72	29.67	2.4	23	4.8	20	27	14	26	13	07																									
14	62	51	57	-2	51	54	8	0	RA BR				0.20	28.70	29.66	2.7	22	5.5	21	29	14	26	14	08																									
15	57	45	51*	-8	41	46	14	0					0.00	28.71	29.68	2.9	23	5.2	17	26	12	26	15	09																									
16	62	43	53	-5	37	46	12	0	RA				T	28.90	29.87	4.2	26	5.5	28*	28	20*	25	16	10																									
17	67	38*	53	-5	40	47	12	0					0.00	29.09	30.07	0.5	21	1.2	10	21	8	20	17	11																									
18	68	54	61	3	55	57	4	0	RA BR				0.30	29.00	29.96	0.4	26	1.7	12	30	8	19	18	12																									
19	69	63	66	9	61	63	0	1	RA BR				1.68	28.95	29.89	1.8	23	4.4	15	33	10	22	19	13																									
20	74	62	68	11	62	63	0	3	RA BR				0.04	29.01	29.96	0.7	22	1.2	8	08	7	10	20	14																									
21	76	58	67	11	60	62	0	2	FG BR				0.00	29.06	30.00	0.5	08	.9	10	04	8	06	21	15																									
22	73	55	64	8	57	59	1	0	BR				0.00	29.11	30.06	0.2	06	.8	8	23	7	21	22	16																									
23	68	58	63	7	56	59	2	0	RA BR				0.06	29.06	30.02	3.3	23	4.9	16	20	12	21	23	17																									
24	74	57	66	11	59	61	0	1	BR				0.00	28.99	29.95	1.4	21	2.7	12	20	9	17	24	18																									
25	77	54	66	11	54	57	0	1	FG+ BR				0.00	29.10	30.06	0.0	00	.5	10	18	7	19	25	19																									
26	77	50	64	9			1	0	RA FG+ BR				T	29.17		0.2	15	1.4	12	26	8	26	26	20																									
27	78	62	70	16			0	5	RA FG+ BR HZ				0.20	29.18		0.7	23	2.4	14	23	10	25	27	21																									
28	76	63	70	16	65	66	0	5	RA FG+ BR				0.38	29.19	30.13	0.0	00	1.2	9	26	7	26	28	22																									
29	78	65	72*	19	66	67	0	7	RA BR HZ				0.57	29.10	30.04	1.1	21	2.8	10	21	9	19	29	23																									
30	75	65	70	17	64	66	0	5	BR HZ				0.00	29.00	29.94	6.0	22	7.1	24	20	17	20	30	24																									
31	77	62	70	17	62	64	0	5	RA BR				T	29.08	30.03	0.6	25	2.4	13	27	8	27	31	25																									
										73.2		55.2		64.2		■ ■		2.2		1.6		< MONTHLY AVERAGES				TOTALS-->		5.51		29.08		0.7		22		2.6		<-- MONTHLY AVERAGES											
										2.1		9.5		5.8		■ ■		<-----DEPARTURE FROM NORMAL----->										2.49		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																			
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 1.98 DATE: 18-19										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE: DATE:										MAXIMUM MINIMUM : 30.47 07 0953 : 29.55 14 2153																			
HEATING: 68 -162										71 -189										NUMBER OF DAYS WITH =>										MAXIMUM TEMP ≥ 90: 0 MINIMUM TEMP ≤ 32: 0										PRECIPITATION ≥ 0.01 INCH : 12									
COOLING: 50 27										1521 221										MAXIMUM TEMP ≤ 32 : 0 MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 8																			
																				THUNDERSTORMS : 0 HEAVY FOG : 8										SNOWFALL ≥ 1.0 INCH :																			

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

OCTOBER 2004

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													01												01		0.00		
02													02												02		0.09		
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	0.01	0.01	T	T	T		T	T				09		0.04		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		1.37		
13	0.23	T			0.22			T	0.12				13	0.08	0.25	0.02	0.28			T	T	0.05	0.27	0.42	13		0.58		
14													14				T			T	T				14		0.20		
15													15											0.15	0.05	15		0.00	
16													16												16		T		
17													17												17		0.00		
18													18		T	T	0.06	0.16	0.08						18		0.30		
19	T	0.04	0.01	0.02	0.71	0.52	0.19	0.18	T	0.01			19												19		1.68		
20	T	0.02	0.01	0.01									20											T	20		0.04		
21													21												21		0.00		
22													22												22		0.00		
23													23							T	T	T	0.01	0.04	0.01	23		0.06	
24													24												24		0.00		
25													25												25		0.00		
26													26												26		T		
27					.17	.01	.01						27												27		0.20		
28													28		T	T	0.10	0.12				.01	0.01		28		0.38		
29					0.18	0.24	0.15	T					29		0.04	0.05	0.10	0.12	0.05	0.01	0.01				29		0.57		
30													30												30		0.00		
31											T		31												31		T		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.28	.36	.44	.48	.53	.59	.75	1.02	1.17	1.24	1.33	1.43
Ending Date	12	12	12	12	12	19	19	19	19	19	19	19
Ending Time (Hour/Min)	2102	2101	2102	2105	2111	0516	0523	0523	0533	0554	0624	0652

Date and time are not entered for TRACE amounts.

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

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurrence if more than one)

T = Trace precipitation amount

+ = also occurs on earlier date

FG+ = Heavy fog, visibility .25 miles or less
BLANK entries denote missing or unreported data

Resultant wind is the vector sum of the wind speeds and directions divided by the number of observations.

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

Precipitation is for the 24-hour period ending at the time indicated in the column heading.

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

NORMALS ARE FOR THE YEARS 1971–2000

WEATHER NOTATIONS

QUALIFIER	WEATHER PHENOMENA		
	PRECIPITATION	OBSCURATION	OTHER
BC Patches	DZ Drizzle	BR Mist	DS Duststorm
BL Blowing	GR Hail	DU Widespread Dust	FC Funnel Cloud
DR Low Drifting	GS Small Hail and/or Snow Pellets	FG Fog	+FC Tornado Waterspout
FZ Freezing	IC Ice Crystals	FU Smoke	PO Well-Developed Dust/Sand Whirls
MI Shallow	PL Ice Pellets	HZ Haze	SQ Squalls
PR Partial	RA Rain	PY Spray	SS Sandstorm
SH Shower(s)	SG Snow Grains	SA Sand	GL Glaze
TS Thunderstorm	SN Snow	VA Volcanic Ash	
VC In the Vicinity	UP Unknown Precipitation		

Intensity (as indicated on pages 4 to 6):
'+' = Heavy ' ' = Moderate '-' = Light

OAK RIDGE, TN OCTOBER 2004

Ceilorometer (30-second) data are used to derive cloudiness at or below 12,000 feet. This cloudiness is the mean cloud cover detected during sunrise to sunset (SR–SS), or midnight to midnight (MN–MN).

Satellite data are used to derive cloudiness above 12,000 feet. Effective Cloud Amount is based on the cloud cover and the transparency of the clouds within the satellite field of view (approx. 31x31 miles).

Sky Condition is based on the sum (not to exceed 8) of the sunrise to sunset cloud cover below and above 12,000 feet. Both ceilometer and satellite data must be present to compute Sky Condition. Clear = 0–2 oktas, Partly Cloudy = 3–6 oktas, Cloudy = 7–8 oktas.

A Heating (Cooling) Degree Day is the difference between the average daily temperature and 65 degrees F. The HDD season begins July 1, the CDD season begins January 1.

Dew Point is the temperature to which the air must be cooled to achieve 100% relative humidity. Wet Bulb is the temperature the air would have if cooled to saturation at constant pressure by evaporation of water into it.

Snow Depth, Snowfall, and Sunshine data may come from nearby sites that the National Weather Service deems Climatologically representative of this site.

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.25	10.00	
02							1.50	10.00	
03							2.50	10.00	
04							<.25	10.00	
05							.75	10.00	
06							8.00	10.00	
07							.25	10.00	
08							<.25	10.00	
09							5.00	10.00	
10							5.00	10.00	
11							10.00	10.00	
12							.50	10.00	
13							1.50	10.00	
14							1.75	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							10.00	10.00	
18							2.00	10.00	
19							.75	10.00	
20							1.75	10.00	
21							.50	10.00	
22							.75	10.00	
23							2.50	10.00	
24							3.00	10.00	
25							.25	10.00	
26							.25	10.00	
27							<.25	10.00	
28							.25	10.00	
29							.75	7.00	
30							2.50	10.00	
31							2.50	10.00	
MONTHLY AVGS							2.97	9.90	
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									
8 23 5									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2004

QQT

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	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	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
				SUNRISE: 0632		OCT 01		SUNSET: 1820						SUNRISE: 0637		OCT 07		SUNSET: 1811									
01	CLR	NC		5.00	BR	57	54	55	90	0	00	29.13	30.08	01	CLR	NC		10.00	FG	51	48	50	89	0	00	29.43	30.39
04	FEW	NC		5.00	BR	55	53	54	93	0	00	29.13	30.08	04	VV	001		0.25	FG	50	49	49	96	0	00	29.43	30.39
07	VV	001		0.25	FG	56	55	55	97	0	00	29.17	30.13	07	VV	001		0.25	FG	51	50	51	96	0	00	29.47	30.45
10	OVC	003		3.00	BR	61	58	59	90	0	00	29.20	30.16	10	OVC	016		10.00		57	53	55	87	0	00	29.49	30.47
13	SCT	NC		10.00		76	60	66	58	8	22	29.16	30.11	13	CLR	NC		8.00		70	57	62	64	3	VR	29.43	30.40
16	CLR	NC		9.00		80	61	68	52	6	VR	29.13	30.08	16	CLR	NC		10.00		75	55	63	50	0	00	29.37	30.33
19	CLR	NC		7.00		72	63	66	73	0	00	29.14	30.10	19	CLR	NC		8.00		65	59	61	81	0	00	29.38	30.35
22	CLR	NC		5.00	BR	65	62	63	90	0	00	29.18	30.14	22	FEW	NC		3.00	BR	59	57	58	93	0	00	29.38	30.35
				SUNRISE: 0633		OCT 02		SUNSET: 1819						SUNRISE: 0638		OCT 08		SUNSET: 1810									
01	FEW	NC		4.00	BR	62	60	61	93	0	00	29.19	30.14	01	CLR	NC		3.00	BR	57	55	56	93	0	00	29.37	30.33
04	FEW	NC		4.00	BR	60	57	58	90	0	00	29.18	30.12	04	VV	001		0.25	FG	56	55	55	97	5	07	29.35	30.31
07	BKN	065		5.00	HZ	63	58	60	84	0	00	29.21	30.16	07	VV	001		0.25	FG	54	54	54	100	0	00	29.36	30.33
10	BKN	055		5.00	HZ	66	61	63	84	0	00	29.25	30.20	10	CLR	NC		8.00		63	55	58	76	3	VR	29.35	30.32
13	CLR	NC		10.00		73	62	66	69	3	VR	29.23	30.18	13	CLR	NC		10.00		71	55	62	57	0	00	29.29	30.25
16	FEW	NC		8.00		77	63	68	62	3	VR	29.19	30.14	16	CLR	NC		10.00		73	49	59	43	3	VR	29.24	30.20
19	OVC	060		3.00	BR	69	67	68	93	0	00	29.21	30.16	19	CLR	NC		10.00		63	57	60	81	0	00	29.24	30.21
22	SCT	NC		3.00	BR	67	65	66	93	0	00	29.24	30.19	22	OVC	070		7.00		61	57	59	87	0	00	29.25	30.22
				SUNRISE: 0634		OCT 03		SUNSET: 1817						SUNRISE: 0639		OCT 09		SUNSET: 1809									
01	BKN	025		3.00	BR	66	63	64	90	0	00	29.24	30.18	01	BKN	065		8.00		62	57	59	84	0	00	29.22	30.17
04	OVC	015		4.00	BR	64	61	62	90	0	00	29.22	30.17	04	OVC	055		6.00	BR	60	57	58	90	0	00	29.20	30.15
07	OVC	014		8.00		62	58	60	86	0	00	29.25	30.21	07	OVC	049		5.00	BR	60	57	58	90	0	00	29.23	30.19
10	OVC	020		8.00		63	58	60	84	0	00	29.27	30.22	10	BKN	055		8.00		64	58	60	81	0	00	29.23	30.19
13	FEW	NC		10.00		71	57	63	61	3	VR	29.23	30.18	13	FEW	NC		9.00	-RA	65	61	63	87	5	01	29.20	30.16
16	BKN	043		10.00		74	54	62	50	6	VR	29.18	30.13	16	OVC	055		10.00	-RA	67	59	62	76	0	00	29.16	30.12
19	CLR	NC		10.00		65	56	60	73	0	00	29.18	30.14	19	OVC	060		10.00	-RA	64	58	60	81	0	00	29.17	30.13
22	CLR	NC		10.00		56	53	54	90	0	00	29.21	30.18	22	BKN	049		9.00		62	59	60	90	3	10	29.18	30.14
				SUNRISE: 0635		OCT 04		SUNSET: 1816						SUNRISE: 0640		OCT 10		SUNSET: 1807									
01	CLR	NC		8.00		52	50	51	93	0	00	29.21	30.17	01	SCT	NC		7.00		61	58	59	90	0	00	29.16	30.12
04	OVC	002		0.50	FG	49	48	48	97	0	00	29.21	30.17	04	OVC	090		5.00	BR	61	59	60	93	0	00	29.12	30.09
07	VV	001		<.25	FG	49	48	48	97	0	00	29.24	30.22	07	OVC	060		9.00		62	59	60	90	0	00	29.13	30.09
10	CLR	NC		10.00		60	53	56	78	0	00	29.26	30.24	10	CLR	NC		10.00		68	59	63	73	7	05	29.15	30.11
13	CLR	NC		10.00		74	50	60	43	5	VR	29.19	30.15	13	FEW	NC		10.00		76	59	65	56	6	05	29.12	30.06
16	CLR	NC		10.00		77	49	61	37	6	21	29.16	30.12	16	CLR	NC		10.00		75	56	64	52	10	07	29.06	30.01
19	CLR	NC		10.00		66	57	61	73	0	00	29.18	30.15	19	CLR	NC		10.00		67	59	62	76	0	00	29.07	30.02
22	CLR	NC		10.00		59	56	57	90	0	00	29.22	30.19	22	CLR	NC		10.00		65	55	59	70	3	VR	29.10	30.05
				SUNRISE: 0636		OCT 05		SUNSET: 1814						SUNRISE: 0641		OCT 11		SUNSET: 1806									
01	CLR	NC		7.00		56	53	54	90	0	00	29.23	30.19	01	OVC	065		10.00		63	50	56	63	5	VR	29.09	30.04
04	BKN	008		3.00	BR	52	51	52	97	0	00	29.24	30.20	04	CLR	NC		10.00		59	47	53	64	5	VR	29.08	30.02
07	CLR	NC		6.00	BR	50	48	49	93	0	00	29.29	30.27	07	CLR	NC		10.00		57	47	52	69	0	00	29.10	30.06
10	CLR	NC		10.00		64	51	57	63	8	05	29.32	30.29	10	CLR	NC		10.00		64	46	54	52	8	07	29.12	30.08
13	CLR	NC		10.00		72	51	60	48	3	VR	29.30	30.26	13	CLR	NC		10.00		76	54	63	47	3	VR	29.07	30.00
16	OVC	055		10.00		75	51	61	43	6	VR	29.26	30.22	16	CLR	NC		10.00		78	56	65	47	6	VR	29.02	29.95
19	CLR	NC		10.00		64	46	54	52	3	VR	29.30	30.27	19	BKN	055		10.00		71	61	65	71	0	00	29.03	29.98
22	CLR	NC		10.00		57	43	50	60	5	06	29.34	30.30	22	CLR	NC		10.00		66	59	62	78	0	00	29.04	29.98
				SUNRISE: 0636		OCT 06		SUNSET: 1813						SUNRISE: 0642		OCT 12		SUNSET: 1805									
01	CLR	NC		10.00		52	45	48	77	0	00	29.34	30.31	01	CLR	NC		10.00		61	57	59	87	0	00	29.01	29.95
04	CLR	NC		10.00		48	45	47	89	3	06	29.34	30.31	04	BKN	046		10.00		61	58	59	90	3	VR	28.99	29.93
07	CLR	NC		10.00		48	45	47	89	0	00	29.39	30.37	07	OVC	037		10.00		62	58	60	86	0	00	28.98	29.92
10	CLR	NC		10.00		63	45	54	52	6	VR	29.43	30.39	10	BKN	038		10.00		66	58	61	75	3	08	28.95	29.90
13	CLR	NC		10.00		74	49	60	41	3	VR	29.40	30.37	13	OVC	043		10.00		73	61	66	66	5	19	28.87	29.81
16	CLR	NC		10.00		77	44	59	31	7	13	29.37	30.33	16	OVC	008		3.00	-RA BR	68	65	66	90	0	00	28.81	29.76
19	CLR	NC		10.00		63	53	57	70	0	00	29.38	30.36	19	OVC	003		3.00	BR	67	65	66	93	3	06	28.80	29.75
22	CLR	NC		10.00		55	51	53	87	0	00	29.42	30.39	22	OVC	075		8.00		65	64	64	97	0	00	28.77	29.71

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2004

OQT

WBAN # 53868

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		SKY COVER	CEILING 100'S OF FT		DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL				
	OBSERVATION TIME (LST)	EFF CLD AMT Oktas		RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)		OBSERVATION TIME (LST)	EFF CLD AMT Oktas		RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)	RELATIVE HUMIDITY (PCT)			
SUNRISE: 0642				OCT 13				SUNSET: 1803				SUNRISE: 0648				OCT 19				SUNSET: 1756					
01	OVC	020	2.50	RA BR	65	63	64	93	0	00	28.73	29.66	01	OVC	039	5.00	-RA BR	64	61	62	90	5	VR	28.94	29.89
04	OVC	006	7.00		65	63	64	93	3	22	28.70	29.62	04	OVC	020	5.00	+RA BR	65	61	63	87	8	32	28.91	29.85
07	OVC	013	4.00	-RA BR	64	62	63	93	5	VR	28.69	29.62	07	OVC	032	4.00	RA BR	64	62	63	93	8	22	28.94	29.88
10	OVC	026	10.00		62	57	59	84	8	26	28.71	29.65	10	BKN	023	10.00		65	62	63	90	6	21	28.96	29.91
13	OVC	031	10.00		62	52	56	70	9	23	28.71	29.65	13	OVC	016	10.00		67	61	63	81	5	22	28.94	29.88
16	OVC	027	10.00		60	53	56	78	6	VR	28.72	29.67	16	OVC	020	10.00		68	61	64	78	6	VR	28.94	29.88
19	OVC	025	10.00		57	54	55	90	5	24	28.74	29.69	19	OVC	022	10.00		66	60	62	81	5	VR	28.95	29.90
22	OVC	032	10.00		56	54	55	93	7	21	28.76	29.72	22	OVC	020	10.00		65	61	63	87	0	00	28.98	29.93
SUNRISE: 0643				OCT 14				SUNSET: 1802				SUNRISE: 0649				OCT 20				SUNSET: 1754					
01	OVC	020	10.00		56	53	54	90	5	VR	28.75	29.71	01	OVC	017	10.00		63	61	62	93	0	00	28.98	29.93
04	OVC	021	10.00		56	52	54	87	6	VR	28.74	29.70	04	OVC	023	7.00		63	61	62	93	3	23	28.97	29.92
07	OVC	030	10.00		56	52	54	87	5	23	28.76	29.72	07	OVC	007	6.00	BR	63	61	62	93	3	22	29.01	29.96
10	OVC	016	10.00		56	50	53	81	7	26	28.77	29.74	10	OVC	005	3.00	BR	64	62	63	93	0	00	29.04	29.99
13	OVC	022	10.00		59	51	55	75	5	VR	28.72	29.68	13	OVC	026	10.00		68	62	64	81	5	VR	29.03	29.98
16	BKN	036	10.00		61	50	55	67	6	19	28.67	29.61	16	CLR	NC	10.00		73	60	65	64	0	00	28.99	29.93
19	BKN	110	10.00		59	50	54	72	5	19	28.64	29.59	19	BKN	070	9.00		66	63	64	90	0	00	29.01	29.96
22	OVC	075	10.00		58	50	54	75	5	19	28.60	29.55	22	BKN	070	8.00		66	63	64	90	0	00	29.04	29.98
SUNRISE: 0644				OCT 15				SUNSET: 1801				SUNRISE: 0650				OCT 21				SUNSET: 1753					
01	OVC	055	10.00		51	47	49	86	6	23	28.63	29.59	01	OVC	042	5.00	BR	63	61	62	93	0	00	29.03	29.97
04	BKN	046	10.00		47	41	44	80	5	VR	28.64	29.60	04	VV	001	0.50	FG	62	61	61	96	0	00	29.03	29.97
07	OVC	024	10.00		47	40	44	77	7	VR	28.66	29.62	07	OVC	006	5.00	BR	63	61	62	93	0	00	29.06	30.01
10	OVC	028	10.00		50	40	45	68	6	VR	28.70	29.66	10	OVC	008	6.00	BR	66	62	64	87	3	05	29.08	30.03
13	OVC	039	10.00		54	40	47	59	6	VR	28.70	29.66	13	SCT	NC	10.00		73	60	65	64	5	09	29.06	30.00
16	OVC	060	10.00		56	40	48	55	5	VR	28.71	29.68	16	CLR	NC	10.00		75	59	65	58	0	00	29.04	29.98
19	CLR	NC	10.00		51	41	46	69	3	VR	28.77	29.75	19	SCT	NC	10.00		66	60	62	81	0	00	29.06	30.01
22	OVC	070	10.00		47	43	45	86	0	00	28.82	29.79	22	CLR	NC	6.00	BR	60	58	59	93	0	00	29.08	30.03
SUNRISE: 0645				OCT 16				SUNSET: 1759				SUNRISE: 0650				OCT 22				SUNSET: 1752					
01	BKN	080	10.00		47	43	45	86	3	VR	28.85	29.82	01	CLR	NC	5.00	BR	58	55	56	90	0	00	29.08	30.03
04	OVC	100	10.00		48	43	46	83	0	00	28.82	29.79	04	OVC	027	5.00	BR	57	56	56	96	3	06	29.09	30.05
07	OVC	065	10.00		50	44	47	80	3	VR	28.83	29.80	07	OVC	002	0.75	BR	56	54	55	93	0	00	29.13	30.09
10	BKN	046	10.00		56	45	50	67	6	VR	28.88	29.85	10	OVC	014	6.00	BR	60	58	59	93	0	00	29.15	30.11
13	CLR	NC	10.00		60	29	46	31	10	28	28.89	29.86	13	OVC	016	7.00		67	60	63	79	3	VR	29.11	30.07
16	CLR	NC	10.00		61	27	46	27	9	26	28.91	29.87	16	CLR	NC	9.00		73	59	64	62	0	00	29.06	30.01
19	CLR	NC	10.00		52	33	43	49	3	23	28.94	29.91	19	CLR	NC	6.00	BR	64	60	62	87	0	00	29.08	30.05
22	CLR	NC	10.00		46	36	42	68	3	VR	29.00	29.97	22	CLR	NC	5.00	BR	59	57	58	93	0	00	29.09	30.06
SUNRISE: 0646				OCT 17				SUNSET: 1758				SUNRISE: 0651				OCT 23				SUNSET: 1751					
01	CLR	NC	10.00		44	37	41	76	0	00	29.04	30.01	01	BKN	047	5.00	BR	60	57	58	90	0	00	29.09	30.06
04	CLR	NC	10.00		39	36	38	89	0	00	29.08	30.06	04	CLR	NC	4.00	BR	59	57	58	93	5	23	29.08	30.03
07	CLR	NC	10.00		38	35	37	89	0	00	29.11	30.11	07	FEW	NC	3.00	BR	58	56	57	93	5	23	29.12	30.09
10	CLR	NC	10.00		55	42	49	62	0	00	29.14	30.12	10	CLR	NC	8.00		63	57	60	81	8	24	29.14	30.10
13	CLR	NC	10.00		64	35	50	34	5	VR	29.09	30.07	13	OVC	029	10.00		67	54	59	63	8	21	29.07	30.02
16	CLR	NC	10.00		67	34	51	30	0	00	29.06	30.03	16	OVC	041	10.00		67	55	60	66	7	21	29.01	29.96
19	OVC	085	10.00		58	46	52	65	0	00	29.06	30.04	19	OVC	042	10.00		65	55	59	70	6	22	29.01	29.96
22	SCT	NC	10.00		56	47	51	72	0	00	29.08	30.05	22	OVC	030	5.00	-RA	61	56	58	84	5	24	29.00	29.95
SUNRISE: 0647				OCT 18				SUNSET: 1757				SUNRISE: 0652				OCT 24				SUNSET: 1749					
01	OVC	025	10.00		55	49	52	80	0	00	29.06	30.02	01	OVC	030	3.00	BR	60	58	59	93	5	21	28.97	29.92
04	OVC	055	10.00		54	49	51	83	0	00	29.06	30.01	04	OVC	020	7.00		61	58	59	90	0	00	28.97	29.92
07	BKN	100	10.00		54	49	51	83	0	00	29.04	30.01	07	OVC	009	5.00	BR	61	58	59	90	0	00	29.00	29.95
10	OVC	033	10.00		58	46	52	65	0	00	29.04	30.00	10	OVC	007	6.00	BR	63	59	61	87	6	VR	29.02	29.98
13	OVC	034	10.00		67	53	59	61	3	VR	28.98	29.93	13	BKN	019	9.00		68	59	63	73	7	VR	28.99	29.93
16	OVC	060	7.00	-RA	66	61	63	84	5	VR	28.98	29.93	16	FEW	NC	10.00		73	59	64	62	7	19	28.96	29.90
19	OVC	042	7.00		65	62	63	90	0	00	28.98	29.93	19	CLR	NC	10.00		65	60	62	84	0	00	29.00	29.95
22	OVC	039	3.00	BR	64	62	63	93	0	00	28.95	29.91	22	CLR	NC	7.00		60	57	58	90	0	00	29.04	29.99

OBSERVATIONS AT 3-HOURLY INTERVALS

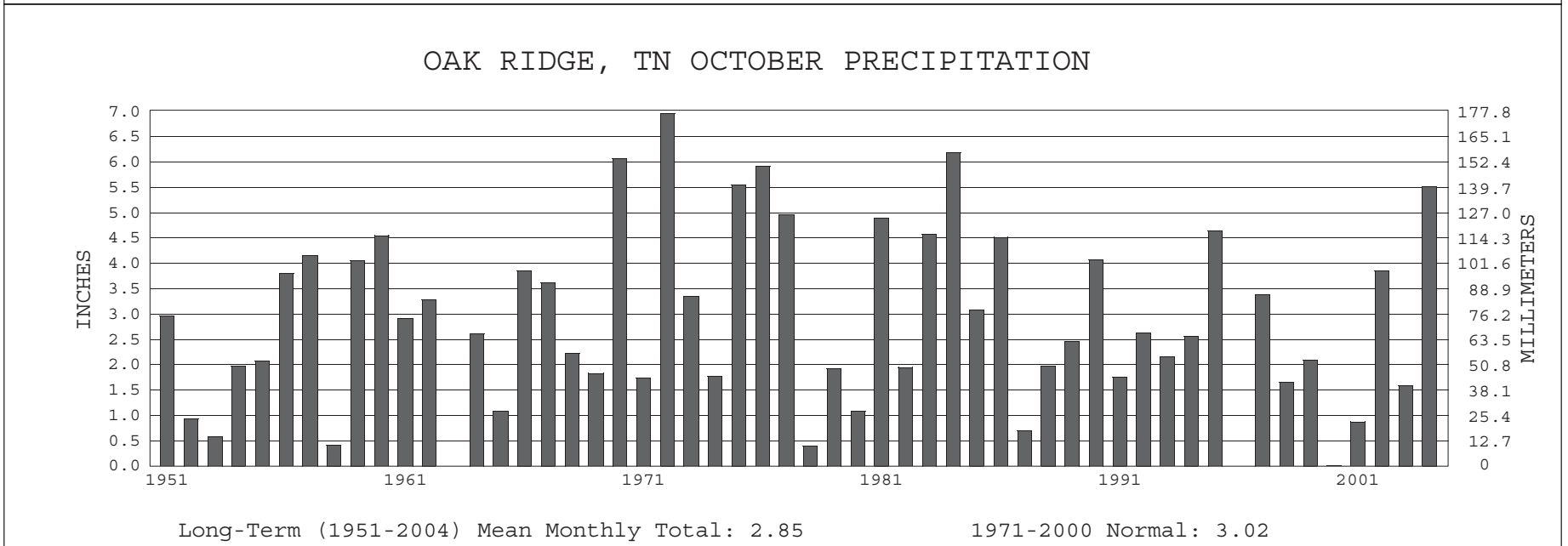
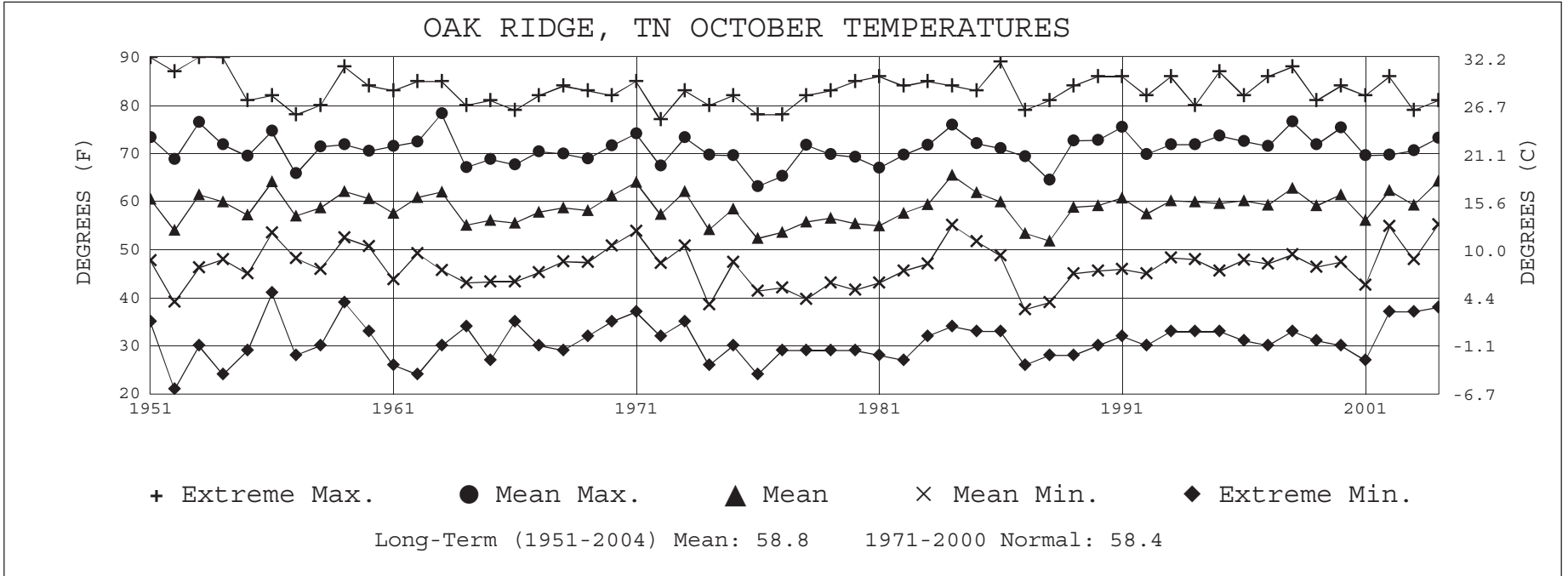
OAK RIDGE, TN

OCTOBER 2004

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		
	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)			SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)		SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL											
SUNRISE: 0653								OCT 25				SUNSET: 1748				SUNRISE: 0659								OCT 31				SUNSET: 1742				
01	SCT	NC				4.00	BR	56	54	55	93	0	00	29.05	30.00	01	OVC	011				6.00	BR	69	65	66	87	7	VR	29.04	29.97	
04	VV	001				0.25	FG	56	55	55	97	0	00	29.07	30.01	04	BKN	009				4.00	BR	65	63	64	93	0	00	29.04	29.98	
07	VV	001				0.25	FG	57	56	56	96	0	00	29.10	30.07	07	OVC	005				5.00	BR	65	63	64	93	0	00	29.06	30.00	
10	OVC	001				0.75	BR	58	57	57	97	0	00	29.14	30.10	10	BKN	010				8.00		69	63	65	81	6	VR	29.12	30.07	
13	CLR	NC				10.00		72	57	63	60	5	VR	29.09	30.05	13	CLR	NC				10.00		73	60	65	64	6	VR	29.10	30.04	
16	CLR	NC				10.00		76	50	61	40	3	VR	29.08	30.02	16	BKN	080				10.00		76	61	67	60	3	VR	29.08	30.03	
19	CLR	NC				10.00		63	54	58	73	0	00	29.10	30.07	19	CLR	NC				10.00		68	61	64	78	0	00	29.08	30.03	
22	CLR	NC				10.00		56	53	54	90	0	00	29.14	30.12	22	FEW	NC				9.00		64	60	62	87	0	00	29.10	30.05	
SUNRISE: 0654								OCT 26				SUNSET: 1747				3-HOURLY OBSERVATION NOTES																
01	CLR	NC				8.00		53	51	52	93	0	00	29.14	30.10	Sky Cover is the amount of the sky obscured. CLR or SKC = 0, FEW = 1/8-2/8, SCT = 3/8-4/8, BKN = 5/8-7/8, OVC = 8/8, VV = Vertical Visibility = 8/8.																
04	BKN	009				0.25	FG	50	49	49	96	0	00	29.15	30.11	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																
07	VV	001				0.25	FG	52	51	52	97	3	06	29.20	30.17	NC = No ceiling detected.																
10	CLR	NC				10.00		61	55	58	81	3	07	29.21	30.18	& = Original observation contained additional weather elements.																
13	CLR	NC				10.00		75	53	62	46	8	19	29.17	30.13	See page 3 for additional notes.																
16	SCT	NC				10.00		75	54	63	48	6	27	29.14	30.09																	
19	OVC	070				10.00	-RA							0	00	29.16																
22	CLR	NC				10.00								0	00	29.17																
SUNRISE: 0655								OCT 27				SUNSET: 1746				SUMMARY BY HOUR																
01	SCT	NC				10.00								0	00	29.16	AVERAGES															
04	OVC	035				10.00								3	VR	29.15	RESULTANT WIND (MPH)															
07	BKN	032				5.00	HZ							3	20	29.18	HOUR (LST)															
10																29.21	CEILOMETER															
13	BKN	028				8.00		75	64	68	69	3	VR	29.17	EFF CLD AMT																	
16	BKN	041				10.00		75	65	69	71	6	VR	29.15	DRY BULB																	
19	BKN	090				8.00	-RA	71	66	68	84	0	00	29.17	DEW POINT																	
22	VV	001				< .25	FG	67	66	66	97	0	00	29.19	WET BULB																	
SUNRISE: 0656								OCT 28				SUNSET: 1745				PRESSURE (INCHES, HG)																
01	VV	001				0.25	FG	64	64	64	100	0	00	29.20	30.14	STATION								VISIBILITY (MILES)		WIND SPEED (MPH)						
04	VV	001				0.50	FG	64	63	63	96	0	00	29.20	30.15	SEA LEVEL																
07	OVC	001				1.25	BR	65	64	64	97	0	00	29.22	30.17																	
10	SCT	NC				4.00	BR	68	65	66	90	0	00	29.23	30.18																	
13	BKN	090				10.00		76	64	68	67	5	VR	29.17	30.12																	
16	BKN	037				5.00	-RA BR	69	67	68	93	0	00	29.14	30.09																	
19	BKN	110				8.00	-RA	68	66	67	93	0	00	29.16	30.11																	
22	OVC	002				1.75	BR	67	66	66	97	0	00	29.17	30.12																	
SUNRISE: 0657								OCT 29				SUNSET: 1744				HOUR (LST)																
01	OVC	008				4.00	BR	67	66	66	97	0	00	29.14	30.09	CEILOMETER								WIND SPEED (MPH)		RESULTANT WIND (MPH)						
04	OVC	008				4.00	BR	68	66	67	93	5	VR	29.12	30.07	EFF CLD AMT																
07	OVC	009				2.00	-RA BR	67	65	66	93	3	21	29.13	30.08	DRY BULB																
10	OVC	003				1.50	BR	67	66	66	97	6	VR	29.15	30.10	DEW POINT																
13	OVC	018				4.00	HZ	72	67	69	84	7	22	29.09	30.03	WET BULB																
16	BKN	043				7.00		78	66	70	67	3	21	29.03	29.96	RELATIVE HUMIDITY																
19	CLR	NC				7.00		72	65	67	79	0	00	29.05	29.99	PRESSURE (INCHES, HG)																
22	CLR	NC				3.00	BR	66	63	64	90	0	00	29.07	30.01	STATION																
SUNRISE: 0658								OCT 30				SUNSET: 1743				HOUR (LST)																
01	OVC	025				3.00	BR	66	64	65	93	0	00	29.05	29.99	CEILOMETER								WIND SPEED (MPH)		RESULTANT WIND (MPH)						
04	OVC	011				4.00	BR	68	65	66	90	5	VR	29.01	29.94	EFF CLD AMT																
07	BKN	035				3.00	BR	68	64	66	87	8	21	29.02	29.96	DRY BULB																
10	OVC	020				6.00	HZ	71	63	66	76	9	24	29.03	29.97	DEW POINT																
13	OVC	032				8.00		74	62	66	67	12	20	28.97	29.91	WET BULB																
16	OVC	032				10.00		74	63	67	69	9	22	28.96	29.89	RELATIVE HUMIDITY																
19	BKN	065				9.00		72	63	66	73	8	22	28.98	29.91	PRESSURE (INCHES, HG)																
22	OVC	019				7.00		70	64	66	82	7	VR	29.02	29.95	STATION																





OCTOBER 2004

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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POSTAGE AND FEES PAID
NOAA
PERMIT G-19