MAY 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 #: —

DATE	TEMPERATURE °F MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	DEG DAYS BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) 0700 LST DEPTH	1300 LST WATER EQUIV	PRECIPITATION (INCHES) 2400 LST SNOW–FALL	2400 LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 5–SEC SPEED	5–SEC DIR	MAXIMUM 2–MIN SPEED	2–MIN DIR	DATE
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	77	57	67	6	62	63	0	2	RA FG+ BR				T	29.02	29.97	0.9	20	1.3	14	27	10	26	01
02	66	43	55	-7	54	55	10	0	RA BR				1.02	28.97	29.92	0.9	23	3.4	18	22	14	21	02
03	57	39	48*	-14	40	43	17	0	RA FG+ BR				T	29.14	30.13	0.7	01	1.8	13	01	10	06	03
04	67	36*	52	-10	40	46	13	0	FG+ BR				0.00	29.19	30.18	1.2	24	2.6	14	22	9	20	04
05	80	49	65	2	54	58	0	0	RA BR				0.04	29.11	30.07	1.2	23	2.9	14	26	9	23	05
06	85	53	69	6	57	62	0	4	FG+ BR				0.00	29.19	30.14	1.7	22	3.4	18	21	13	21	06
07	88	54	71	8	56	62	0	6	BR				0.00	29.25	30.19	0.8	25	2.0	13	30	9	27	07
08	88	55	72	9	56	62	0	7					0.00	29.23	30.17	0.5	18	1.2	13	03	10	18	08
09	89	58	74	10	58	64	0	9	BR				0.00	29.19	30.13	1.6	15	2.8	16	20	13	20	09
10	85	60	73	9	62	65	0	8	RA BR				0.06	29.20	30.15	0.8	20	2.3	22	19	17	18	10
11	84	60	72	8	63	65	0	7	FG+ BR HZ				0.00	29.22	30.17	1.5	21	2.3	23	19	16	18	11
12	84	60	72	7	63	66	0	7	RA BR HZ				0.01	29.21	30.15	0.7	21	1.7	21	19	16	20	12
13	81	66	74	9	66	68	0	9	RA BR				0.14	29.20	30.14	0.4	19	2.3	22	13	18*	14	13
14	80	62	71	6	64	66	0	6	RA FG+ BR				T	29.21	30.15	2.0	21	3.3	17	20	14	21	14
15	82	62	72	7	63	66	0	7	BR				0.00	29.22	30.17	1.6	24	3.0	18	19	14	19	15
16	83	63	73	7	63	66	0	8	BR				0.00	29.28	30.23	1.2	20	3.1	15	20	12	21	16
17	84	62	73	7	63	67	0	8	RA BR				T	29.31	30.26	2.5	19	3.6	21	20	16	18	17
18	86	63	75	9	58	64	0	10	RA FG BR				0.27	29.27	30.21	1.6	22	2.7	21	22	16	22	18
19	86	66	76	10	32	54	0	11	RA BR HZ				0.02	29.21	30.15	1.6	24	3.6	15	23	10	27	19
20	88	64	76	9	66	70	0	11	BR HZ				0.00	29.23	30.16	1.9	22	3.3	16	21	13	20	20
21	90	66	78	11	66	70	0	13					0.00	29.19	30.11	1.2	23	2.8	13	28	10	19	21
22	88	65	77	10	67	70	0	12	RA FG+ BR				0.33	29.08	30.01	1.1	22	2.3	15	19	12	19	22
23	88	67	78	10	65	69	0	13	BR HZ				0.00	29.03	29.96	3.1	23	4.6	18	22	14	24	23
24	89	64	77	9	64	69	0	12					0.00	29.03	29.96	2.9	22	4.3	21	20	14	21	24
25	90*	68	79*	11	67	71	0	14	RA				T	29.00	29.92	3.7	22	5.2	20	20	14	21	25
26	83	65	74	6	67	70	0	9	RA BR				0.58	28.95	29.87	3.4	22	5.9	21	36	14	35	26
27	86	65	76	7	64	68	0	11					0.00	28.89	29.82	4.0	22	5.7	24	20	17	20	27
28	77	67	72	3	66	68	0	7	RA BR				0.52	28.92	29.85	2.0	23	4.3	18	34	14	34	28
29	84	68	76	7	65	69	0	11					0.00	29.01	29.94	0.8	20	3.0	13	27	9	17	29
30	87	69	78	9	69	72	0	13	RA BR				0.24	28.92	29.85	3.5	22	4.7	24	23	14	21	30
31	81	65	73	3	64	66	0	8	RA BR				0.67	28.83	29.76	2.6	23	5.4	26*	29	16	28	31
	82.7	60.0	71.4		60.1	64.3	1.3	7.8	< MONTHLY AVERAGES TOTALS–>				3.90	29.12	30.06	1.4	22	3.3					<– MONTHLY AVERAGES
	4.9	6.6	5.8		<–––––––––––DEPARTURE FROM NORMAL–––––––––––>								-1.24	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	40	-40	3516	-471
COOLING:	243	148	286	170

GREATEST 24–HR PRECIPITATION: 1.02 DATE :02
GREATEST 24–HR SNOWFALL: DATE :
GREATEST SNOW DEPTH: DATE :

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM	30.32	17	0853
MINIMUM	29.69	31	0153

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 90:	2	MINIMUM TEMP ≤ 32 :	0
MAXIMUM TEMP ≤ 32 :	0	MINIMUM TEMP ≤ 0 :	0
THUNDERSTORMS :	0	HEAVY FOG :	7
		PRECIPITATION ≥ 0.01 INCH :	12
		PRECIPITATION ≥ 0.10 INCH :	8
		SNOWFALL ≥ 1.0 INCH :	

MAY 2004
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

MAY 2004 OQT WBAN # 53868

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST Water Equiv.
	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										T			01		T	T	T									01		T
02		T	0.02	0.02	T	0.03	0.44	0.08	0.18	0.14	0.09	0.02	02	T	T	T										02		1.02
03												T	03	T												03		T
04													04													04		0.00
05								0.03	0.01				05													05		0.04
06													06													06		0.00
07													07													07		0.00
08													08													08		0.00
09													09													09		0.00
10													10					0.01	0.02	0.03						10		0.06
11													11													11		0.00
12													12				0.01	T								12		0.01
13													13			0.11	0.03			T						13		0.14
14												T	14	T	T												14		T
15													15													15		0.00
16													16													16		0.00
17													17				T									17		T
18													18					0.25	0.02	T	T		T			18		0.27
19													19										0.02			19		0.02
20													20													20		0.00
21													21													21		0.00
22													22			0.10	0.23									22		0.33
23													23													23		0.00
24													24													24		0.00
25													25										T			25		T
26								T					26						T	.11	0.41	0.02	0.04			26		0.58
27													27													27		0.00
28						0.33	0.14	0.03	T	0.01	T	T	28			0.01							T			28		0.52
29													29													29		0.00
30							0.09	0.07					30			0.02								T	0.06	30		0.24
31			0.40	0.15	0.05	0.01	0.02	0.02	0.01	T		T	31	0.01												31		0.67

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

* = Extreme for the month (last occurence 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		
DESCRIPTOR	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

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

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

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

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

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

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

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
			SR−SS		MN−MN				
	TOTAL MINUTES	PERCENT POSSIBLE	CEILOMETER	SATELLITE	CEILOMETER	SATELLITE	MINIMUM	MAXIMUM	
01							.25	10.00	
02							.75	10.00	
03							<.25	10.00	
04							<.25	10.00	
05							6.00	10.00	
06							<.25	10.00	
07							5.00	10.00	
08							7.00	10.00	
09							5.00	10.00	
10							2.00	10.00	
11							.25	10.00	
12							2.50	10.00	
13							2.50	10.00	
14							.25	10.00	
15							5.00	10.00	
16							3.00	10.00	
17							4.00	10.00	
18							.50	10.00	
19							5.00	10.00	
20							.00	10.00	
21							8.00	10.00	
22							.25	10.00	
23							4.00	10.00	
24							7.00	10.00	
25							7.00	10.00	
26							.75	10.00	
27							7.00	10.00	
28							1.75	10.00	
29							7.00	10.00	
30							.75	10.00	
31							1.00	10.00	
MONTHLY AVGS							3.63	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
6	16	8

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

MAY 2004 OQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0544	**MAY 01**			**SUNSET: 1924**					
01	SCT	NC			4.00	BR	62	61	61	96	0	00	29.11	30.07
04	VV	001			0.25	FG	58	58	58	100	0	00	29.07	30.01
07	SCT	NC			4.00	BR	58	58	58	100	0	00	29.08	30.04
10	BKN	095			10.00		68	63	65	84	0	00	29.08	30.02
13	BKN	032			10.00		74	61	66	64	3	VR	29.02	29.96
16	FEW	NC			10.00		73	65	68	76	5	VR	28.99	29.93
19	CLR	NC			10.00		72	64	67	76	0	00	28.94	29.89
22	FEW	NC			9.00		65	63	64	93	0	00	28.93	29.87
					SUNRISE: 0543	**MAY 02**			**SUNSET: 1925**					
01	OVC	080			10.00		64	62	63	93	0	00	28.90	29.83
04	OVC	033			10.00		66	63	64	90	6	23	28.85	29.78
07	OVC	014			1.50	+RA BR	64	63	63	96	10	21	28.86	29.80
10	OVC	034			4.00	-RA BR	58	56	57	93	0	00	28.89	29.84
13	OVC	015			10.00	-RA	56	54	55	93	6	VR	28.98	29.93
16	OVC	026			10.00		56	48	52	75	5	34	29.03	29.98
19	BKN	043			10.00		52	43	48	72	3	VR	29.08	30.04
22	CLR	NC			8.00		46	45	46	96	0	00	29.11	30.10
					SUNRISE: 0542	**MAY 03**			**SUNSET: 1925**					
01	CLR	NC			7.00		42	41	42	96	0	00	29.09	30.08
04	VV	001			0.25	FG	41	40	41	96	0	00	29.07	30.05
07	OVC	001			1.75	BR	41	41	41	100	0	00	29.08	30.06
10	FEW	NC			10.00		49	43	46	80	5	02	29.12	30.11
13	SCT	NC			10.00		53	40	47	61	3	VR	29.16	30.16
16	OVC	060			10.00		53	38	46	57	6	VR	29.16	30.16
19	BKN	055			10.00		54	37	46	53	0	00	29.18	30.17
22	CLR	NC			10.00		43	41	42	93	0	00	29.22	30.22
					SUNRISE: 0541	**MAY 04**			**SUNSET: 1926**					
01	SCT	NC			1.50	BR	39	38	39	96	0	00	29.21	30.21
04	VV	001			0.25	FG	37	37	37	100	0	00	29.22	30.22
07	VV	001			<.25	FG	37	37	37	100	0	00	29.27	30.27
10	CLR	NC			10.00		52	43	48	72	3	31	29.27	30.26
13	CLR	NC			10.00		62	38	50	41	5	28	29.21	30.20
16	CLR	NC			10.00		66	40	53	39	7	26	29.12	30.10
19	CLR	NC			10.00		64	41	52	43	6	18	29.08	30.07
22	CLR	NC			10.00		53	46	49	77	0	00	29.13	30.11
					SUNRISE: 0540	**MAY 05**			**SUNSET: 1927**					
01	CLR	NC			10.00		51	46	49	83	3	20	29.11	30.09
04	OVC	065			10.00		51	46	49	83	0	00	29.12	30.09
07	OVC	070			10.00		54	47	50	77	3	26	29.14	30.11
10	FEW	NC			10.00		61	52	56	72	6	VR	29.14	30.12
13	CLR	NC			10.00		73	56	63	55	6	18	29.10	30.06
16	FEW	NC			10.00		80	58	66	47	6	VR	29.06	30.01
19	SCT	NC			10.00		77	58	65	52	5	26	29.08	30.02
22	CLR	NC			10.00		65	60	62	84	0	00	29.11	30.07
					SUNRISE: 0539	**MAY 06**			**SUNSET: 1928**					
01	CLR	NC			7.00		60	58	59	93	0	00	29.13	30.08
04	CLR	NC			5.00	BR	57	56	56	96	0	00	29.15	30.10
07	VV	001			<.25	FG	55	55	55	100	0	00	29.21	30.17
10	CLR	NC			10.00		75	57	64	54	6	22	29.23	30.18
13	CLR	NC			10.00		82	57	67	43	8	23	29.21	30.15
16	CLR	NC			10.00		84	56	67	38	9	22	29.16	30.10
19	CLR	NC			10.00		81	58	67	46	5	VR	29.16	30.11
22	CLR	NC			10.00		66	60	62	81	0	00	29.22	30.16

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0538	**MAY 07**			**SUNSET: 1929**					
01	CLR	NC			10.00		60	57	58	90	0	00	29.22	30.17
04	CLR	NC			10.00		56	54	55	93	0	00	29.23	30.18
07	FEW	NC			9.00		58	56	57	93	0	00	29.30	30.24
10	CLR	NC			10.00		76	59	65	56	5	21	29.30	30.24
13	CLR	NC			10.00		84	55	66	37	3	VR	29.26	30.20
16	CLR	NC			10.00		87	52	66	30	8	29	29.21	30.16
19	CLR	NC			10.00		83	53	65	36	5	VR	29.20	30.14
22	CLR	NC			10.00		66	58	61	75	0	00	29.23	30.17
					SUNRISE: 0537	**MAY 08**			**SUNSET: 1930**					
01	CLR	NC			10.00		61	57	59	87	0	00	29.24	30.19
04	CLR	NC			9.00		57	55	56	93	0	00	29.24	30.18
07	CLR	NC			7.00		58	56	57	93	0	00	29.28	30.23
10	CLR	NC			10.00		76	58	65	54	0	00	29.28	30.22
13	CLR	NC			10.00		85	58	68	40	3	VR	29.24	30.18
16	CLR	NC			10.00		87	50	65	28	0	00	29.17	30.11
19	CLR	NC			10.00		83	54	65	37	0	00	29.16	30.11
22	CLR	NC			10.00		68	60	63	76	0	00	29.19	30.14
					SUNRISE: 0536	**MAY 09**			**SUNSET: 1930**					
01	CLR	NC			10.00		64	59	61	84	0	00	29.18	30.11
04	SCT	NC			8.00		60	58	59	93	0	00	29.20	30.14
07	BKN	085			5.00	BR	60	58	59	93	0	00	29.25	30.19
10	CLR	NC			10.00		76	58	65	54	6	08	29.24	30.19
13	CLR	NC			10.00		85	59	68	42	0	00	29.19	30.12
16	CLR	NC			10.00		87	57	68	36	5	19	29.13	30.06
19	CLR	NC			10.00		79	56	65	45	6	21	29.13	30.07
22	CLR	NC			10.00		71	58	63	63	0	00	29.18	30.12
					SUNRISE: 0535	**MAY 10**			**SUNSET: 1931**					
01	CLR	NC			10.00		67	58	62	73	0	00	29.18	30.11
04	CLR	NC			9.00		62	58	60	86	0	00	29.17	30.11
07	CLR	NC			5.00	BR	63	60	61	90	3	06	29.23	30.18
10	CLR	NC			10.00		75	61	66	62	3	VR	29.24	30.18
13	CLR	NC			10.00		82	64	70	55	8	22	29.20	30.14
16	SCT	NC			10.00		83	63	70	51	6	VR	29.15	30.09
19	CLR	NC			4.00	BR	68	65	66	90	3	13	29.16	30.12
22	CLR	NC			4.00	BR	66	65	65	96	0	00	29.23	30.17
					SUNRISE: 0534	**MAY 11**			**SUNSET: 1932**					
01	FEW	NC			3.00	BR	65	64	64	97	0	00	29.23	30.17
04	VV	001			0.25	FG	61	61	61	100	0	00	29.21	30.15
07	BKN	001			0.75	BR	61	61	61	100	0	00	29.26	30.22
10	CLR	NC			7.00		71	64	67	79	0	00	29.28	30.23
13	CLR	NC			9.00		80	66	71	62	6	VR	29.22	30.16
16	SCT	NC			9.00		83	63	70	51	8	20	29.16	30.10
19	CLR	NC			10.00		73	60	65	64	0	00	29.19	30.14
22	CLR	NC			9.00		67	61	63	81	0	00	29.23	30.17
					SUNRISE: 0533	**MAY 12**			**SUNSET: 1933**					
01	CLR	NC			8.00		65	61	63	87	0	00	29.23	30.16
04	CLR	NC			5.00	BR	62	60	61	93	0	00	29.22	30.16
07	CLR	NC			2.50	BR	62	60	61	93	0	00	29.26	30.22
10	CLR	NC			10.00		76	63	68	64	0	00	29.26	30.20
13	BKN	044			10.00		81	63	69	54	7	VR	29.22	30.16
16	BKN	048			4.00	-RA	74	67	69	79	6	VR	29.15	30.11
19	FEW	NC			10.00		78	65	70	64	0	00	29.15	30.09
22	CLR	NC			10.00		70	66	67	87	0	00	29.17	30.11

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

MAY 2004 OQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0533	**MAY 13**			**SUNSET: 1934**					
01	FEW	NC			10.00		69	65	66	87	0	00	29.19	30.12
04	OVC	075			10.00		68	63	65	84	0	00	29.19	30.13
07	SCT	NC			10.00		68	63	65	84	0	00	29.23	30.16
10	FEW	NC			10.00		75	64	68	69	5	VR	29.24	30.18
13	SCT	NC			10.00		81	64	70	57	7	VR	29.20	30.14
16	CLR	NC			10.00		75	68	70	79	0	00	29.17	30.11
19	FEW	NC			9.00		73	69	70	87	0	00	29.15	30.10
22	BKN	085			7.00		70	68	69	93	0	00	29.20	30.14
					SUNRISE: 0532	**MAY 14**			**SUNSET: 1935**					
01	SCT	NC			2.00	BR	66	66	66	100	0	00	29.18	30.12
04	BKN	060			6.00	BR	65	64	64	97	0	00	29.19	30.14
07	CLR	NC			6.00	BR	67	64	65	91	0	00	29.22	30.17
10	OVC	085			10.00		72	65	67	79	3	VR	29.25	30.20
13	SCT	NC			10.00	-RA	75	66	69	74	7	26	29.24	30.19
16	FEW	NC			10.00		79	66	70	65	9	19	29.19	30.13
19	CLR	NC			10.00		77	60	66	56	8	18	29.16	30.11
22	CLR	NC			10.00		67	62	64	84	0	00	29.20	30.14
					SUNRISE: 0531	**MAY 15**			**SUNSET: 1935**					
01	CLR	NC			8.00		64	61	62	90	3	23	29.19	30.14
04	BKN	075			9.00		64	61	62	90	0	00	29.19	30.14
07	OVC	043			8.00		66	63	64	90	0	00	29.23	30.18
10	BKN	028			9.00		74	63	67	69	7	26	29.26	30.20
13	FEW	NC			10.00		80	64	70	58	8	23	29.22	30.16
16	CLR	NC			10.00		77	64	69	64	5	VR	29.20	30.15
19	CLR	NC			9.00		75	64	68	69	5	26	29.20	30.15
22	CLR	NC			6.00	BR	67	65	66	93	0	00	29.24	30.19
					SUNRISE: 0530	**MAY 16**			**SUNSET: 1936**					
01	BKN	095			5.00	BR	64	63	63	96	0	00	29.26	30.20
04	OVC	100			5.00	BR	64	63	63	96	0	00	29.26	30.21
07	SCT	NC			4.00	BR	65	63	64	93	0	00	29.31	30.25
10	CLR	NC			10.00		76	62	67	62	7	VR	29.33	30.27
13	CLR	NC			10.00		82	63	70	53	7	VR	29.29	30.23
16	SCT	NC			10.00		81	62	69	53	8	21	29.24	30.18
19	FEW	NC			10.00		76	63	68	64	0	00	29.25	30.20
22	BKN	110			10.00		71	63	66	76	0	00	29.31	30.25
					SUNRISE: 0529	**MAY 17**			**SUNSET: 1937**					
01	CLR	NC			9.00		66	62	64	87	0	00	29.31	30.25
04	CLR	NC			6.00	BR	63	62	62	97	0	00	29.31	30.25
07	CLR	NC			5.00	BR	64	62	63	93	0	00	29.37	30.31
10	CLR	NC			10.00		77	65	69	66	8	18	29.37	30.31
13	FEW	NC			10.00		84	65	71	53	8	21	29.32	30.26
16	CLR	NC			10.00		78	62	68	58	7	16	29.27	30.22
19	CLR	NC			10.00		78	63	68	60	0	00	29.25	30.20
22	CLR	NC			10.00		71	63	66	76	0	00	29.32	30.26
					SUNRISE: 0529	**MAY 18**			**SUNSET: 1938**					
01	CLR	NC			9.00		66	63	64	90	0	00	29.30	30.24
04	CLR	NC			8.00		65	62	63	90	0	00	29.28	30.22
07	CLR	NC			7.00		67	63	64	87	0	00	29.32	30.26
10	CLR	NC			10.00		76	66	69	72	5	VR	29.31	30.25
13	SCT	NC			10.00		80	65	70	60	7	21	29.26	30.20
16	BKN	055			10.00		86	63	71	46	8	24	29.19	30.13
19	CLR	NC			5.00	BR	71	68	69	90	3	23	29.22	30.17
22	BKN	110			10.00	-RA	69	28	50	22	0	00	29.25	30.19

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0528	**MAY 19**			**SUNSET: 1939**					
01	CLR	NC			8.00		67	30	50	25	3	VR	29.23	30.17
04	BKN	120			6.00	HZ	67	29	49	24	3	VR	29.21	30.14
07	OVC	012			5.00	HZ	68	30	50	24	3	VR	29.24	30.19
10	BKN	016			8.00		74	31	53	21	3	VR	29.27	30.21
13	FEW	NC			10.00		82	30	56	15	9	20	29.22	30.15
16	CLR	NC			10.00		85	31	57	14	7	28	29.15	30.08
19	FEW	NC			10.00		81	30	56	16	3	VR	29.16	30.10
22	OVC	042			9.00		73	29	52	20	0	00	29.21	30.15
					SUNRISE: 0527	**MAY 20**			**SUNSET: 1939**					
01	CLR	NC			5.00	BR	69	68	68	96	0	00	29.21	30.14
04	CLR	NC			6.00	BR	66	65	65	96	0	00	29.22	30.15
07	FEW	NC			2.00	BR	66	65	65	96	0	00	29.27	30.21
10	FEW	NC			10.00		79	67	71	67	5	VR	29.28	30.21
13	BKN	048			10.00		83	65	71	55	5	VR	29.26	30.19
16	FEW	NC			10.00		88	65	73	46	8	23	29.19	30.12
19	CLR	NC			10.00		84	66	72	55	7	21	29.19	30.13
22	CLR	NC			10.00		76	68	71	77	0	00	29.24	30.17
					SUNRISE: 0527	**MAY 21**			**SUNSET: 1940**					
01	CLR	NC			10.00		70	66	67	87	0	00	29.22	30.16
04	CLR	NC			9.00		68	66	67	93	0	00	29.23	30.16
07	CLR	NC			9.00		70	66	67	87	0	00	29.24	30.17
10	CLR	NC			10.00		81	67	72	62	7	27	29.24	30.17
13	BKN	070			10.00		87	65	72	48	9	24	29.20	30.13
16	FEW	NC			10.00		89	62	71	41	5	VR	29.13	30.06
19	CLR	NC			10.00		85	65	72	51	3	VR	29.10	30.03
22	CLR	NC			10.00		75	67	70	76	0	00	29.14	30.07
					SUNRISE: 0526	**MAY 22**			**SUNSET: 1941**					
01	CLR	NC			10.00		69	66	67	90	0	00	29.11	30.04
04	CLR	NC			10.00		67	65	66	93	0	00	29.09	30.02
07	CLR	NC			9.00		68	65	66	90	0	00	29.13	30.06
10	CLR	NC			10.00		82	68	73	63	5	20	29.13	30.06
13	FEW	NC			10.00		87	65	72	48	7	VR	29.08	30.00
16	CLR	NC			7.00		77	72	74	85	3	VR	29.04	29.98
19	FEW	NC			10.00		75	66	69	74	0	00	29.05	29.98
22	CLR	NC			10.00		71	67	68	87	0	00	29.06	29.98
					SUNRISE: 0526	**MAY 23**			**SUNSET: 1942**					
01	FEW	NC			10.00		69	66	67	90	0	00	29.02	29.94
04	OVC	015			9.00		68	65	66	90	0	00	29.03	29.96
07	OVC	009			6.00	BR	71	67	68	87	0	00	29.08	30.01
10	OVC	014			5.00	HZ	76	69	71	79	6	VR	29.08	30.01
13	CLR	NC			10.00		85	66	72	53	9	23	29.04	29.96
16	FEW	NC			10.00		86	62	70	45	10	24	28.99	29.91
19	CLR	NC			10.00		81	61	68	51	8	20	28.97	29.90
22	CLR	NC			10.00		74	61	66	64	3	VR	29.03	29.96
					SUNRISE: 0525	**MAY 24**			**SUNSET: 1942**					
01	CLR	NC			10.00		71	61	65	71	0	00	29.04	29.96
04	CLR	NC			9.00		65	61	63	87	0	00	29.04	29.96
07	CLR	NC			8.00		68	62	64	81	0	00	29.08	30.01
10	CLR	NC			10.00		79	66	70	65	7	VR	29.07	30.00
13	SCT	NC			10.00		87	66	73	50	10	23	29.04	29.96
16	CLR	NC			10.00		87	62	71	43	7	VR	29.00	29.92
19	CLR	NC			10.00		83	66	72	57	6	21	28.98	29.91
22	CLR	NC			10.00		76	67	70	74	3	22	29.01	29.93

OBSERVATIONS AT 3−HOURLY INTERVALS

OAK RIDGE, TN

MAY 2004 OQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100'S OF FT	SATELLITE: OBSERVATION TIME (LST)	SATELLITE: EFF CLD AMT Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE ℉: DRY BULB	TEMPERATURE ℉: DEW POINT	TEMPERATURE ℉: WET BULB	RELATIVE HUMIDITY (PCT)	WIND: SPEED (MPH)	WIND: DIRECTION TENS OF DEG	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL
					SUNRISE: 0524	MAY 25			SUNSET: 1943					
01	CLR	NC			10.00		73	66	69	79	3	27	29.02	29.93
04	SCT	NC			10.00		71	66	68	84	0	00	29.03	29.95
07	CLR	NC			7.00		72	67	69	84	5	21	29.08	30.00
10	BKN	032			8.00		78	69	72	74	8	22	29.05	29.98
13	FEW	NC			10.00		86	69	74	57	8	23	29.01	29.93
16	CLR	NC			10.00		88	66	73	48	8	23	28.96	29.88
19	CLR	NC			10.00		83	67	72	59	6	22	28.93	29.85
22	FEW	NC			10.00		80	67	71	64	3	21	28.99	29.91
					SUNRISE: 0524	MAY 26			SUNSET: 1944					
01	BKN	100			10.00		78	65	70	64	6	23	28.98	29.90
04	OVC	075			10.00		76	66	69	72	7	VR	28.95	29.87
07	OVC	060			10.00		75	67	70	76	7	VR	28.99	29.90
10	BKN	036			10.00		78	67	71	69	8	22	28.98	29.90
13	SCT	NC			10.00		82	69	73	65	8	22	28.92	29.83
16	SCT	NC			10.00		80	69	73	69	9	21	28.89	29.81
19	OVC	042			1.50	+RA BR	67	65	66	93	3	VR	28.97	29.90
22	OVC	007			10.00		66	64	65	93	3	VR	28.98	29.91
					SUNRISE: 0523	MAY 27			SUNSET: 1945					
01	SCT	NC			10.00		65	64	64	97	0	00	28.90	29.83
04	CLR	NC			10.00		66	64	65	93	0	00	28.93	29.85
07	BKN	039			10.00		65	62	63	90	0	00	28.97	29.91
10	BKN	015			10.00		73	65	68	76	0	00	28.94	29.88
13	FEW	NC			10.00		83	66	72	57	10	25	28.89	29.82
16	FEW	NC			10.00		85	63	70	48	14	22	28.84	29.76
19	SCT	NC			10.00		81	64	70	57	10	21	28.80	29.73
22	FEW	NC			10.00		76	63	68	64	5	VR	28.83	29.75
					SUNRISE: 0523	MAY 28			SUNSET: 1945					
01	OVC	055			10.00		76	63	68	64	3	VR	28.86	29.78
04	OVC	040			10.00		74	63	67	69	0	00	28.83	29.75
07	OVC	031			7.00	-RA	67	66	66	97	6	22	28.91	29.84
10	OVC	043			9.00	-RA	69	67	68	93	5	21	28.94	29.87
13	BKN	036			10.00		73	67	69	81	6	VR	28.93	29.85
16	CLR	NC			10.00		76	68	71	77	8	23	28.92	29.85
19	BKN	048			10.00		75	67	70	76	5	VR	28.95	29.88
22	OVC	024			10.00		71	67	68	87	3	22	29.00	29.93
					SUNRISE: 0523	MAY 29			SUNSET: 1946					
01	OVC	006			10.00		69	66	67	90	5	22	29.00	29.93
04	OVC	004			8.00		68	66	67	93	0	00	28.99	29.92
07	OVC	014			7.00		69	65	66	87	3	16	29.05	29.98
10	BKN	028			10.00		75	64	68	69	0	00	29.05	29.98
13	FEW	NC			10.00		81	64	70	57	6	VR	29.03	29.96
16	SCT	NC			10.00		83	65	71	55	3	VR	28.99	29.92
19	CLR	NC			10.00		80	65	70	60	5	18	28.98	29.91
22	OVC	120			10.00		75	67	70	76	3	22	29.01	29.93
					SUNRISE: 0522	MAY 30			SUNSET: 1947					
01	OVC	022			8.00		73	67	69	81	3	22	29.00	29.93
04	CLR	NC			8.00		70	67	68	90	3	VR	28.97	29.89
07	OVC	016			3.00	-RA BR	70	68	69	93	3	18	29.00	29.93
10	OVC	018			10.00		74	68	70	82	6	VR	29.01	29.93
13	OVC	020			10.00		76	70	72	82	3	VR	28.95	29.88
16	FEW	NC			10.00		85	73	77	68	7	21	28.86	29.78
19	CLR	NC			10.00		84	70	74	63	6	21	28.82	29.74
22	OVC	090			10.00		82	69	73	65	6	19	28.83	29.75
					SUNRISE: 0522	MAY 31			SUNSET: 1947					
01	OVC	090			10.00		76	72	73	88	3	VR	28.80	29.72
04	OVC	041			7.00	RA	66	64	65	93	3	08	28.83	29.75
07	OVC	024			5.00	-RA BR	66	65	65	96	5	VR	28.86	29.79
10	OVC	009			10.00		68	66	67	93	7	VR	28.83	29.76
13	OVC	011			10.00		72	68	69	87	9	22	28.85	29.78
16	CLR	NC			10.00		80	65	70	60	7	VR	28.80	29.73
19	CLR	NC			10.00		77	57	65	50	5	VR	28.82	29.75
22	BKN	065			10.00		67	60	63	79	3	21	28.87	29.81

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 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.

SUMMARY BY HOUR

HOUR (LST)	AVERAGES: CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES,HG): STATION	PRESSURE (INCHES,HG): SEA LEVEL	VISIBILITY (MILES)	WIND SPEED (MPH)	RESULTANT WIND (MPH): SPEED	RESULTANT WIND (MPH): DIRECTION
01			65	60	62	85	29.12	30.06	8.21	1	1	23
02			64	60	62	86	29.11	30.05	7.66	1	1	22
03			63	59	61	88	29.11	30.05	7.16	0	0	0
04			63	59	61	89	29.11	30.05	7.19	0	0	0
05			62	59	60	90	29.12	30.06	7.02	1	0	0
06			62	59	60	90	29.14	30.08	5.66	0	0	0
07			63	60	61	89	29.15	30.10	5.64	1	1	20
08			66	60	63	84	29.16	30.11	7.56	1	1	21
09			69	61	64	77	29.16	30.10	8.64	2	1	21
10			73	61	66	69	29.16	30.10	9.35	2	1	22
11			75	61	66	64	29.16	30.10	9.71	3	3	20
12			77	61	67	60	29.15	30.09	9.87	2	2	22
13			79	61	68	57	29.13	30.07	9.97	4	4	23
14			80	60	68	53	29.11	30.05	9.97	5	4	22
15			80	60	68	54	29.09	30.03	9.26	5	4	23
16			80	60	68	54	29.08	30.02	9.68	5	4	23
17			79	60	67	56	29.08	30.02	9.43	4	3	22
18			78	60	67	58	29.08	30.02	9.42	4	3	21
19			76	60	66	60	29.08	30.02	9.31	3	2	21
20			73	61	65	68	29.09	30.04	9.55	2	2	21
21			70	60	64	72	29.10	30.04	9.61	1	1	22
22			68	60	63	77	29.12	30.06	9.42	1	1	21
23			67	59	63	79	29.12	30.06	9.26	0	0	0
24			66	60	63	84	29.12	30.06	8.77	1	0	0

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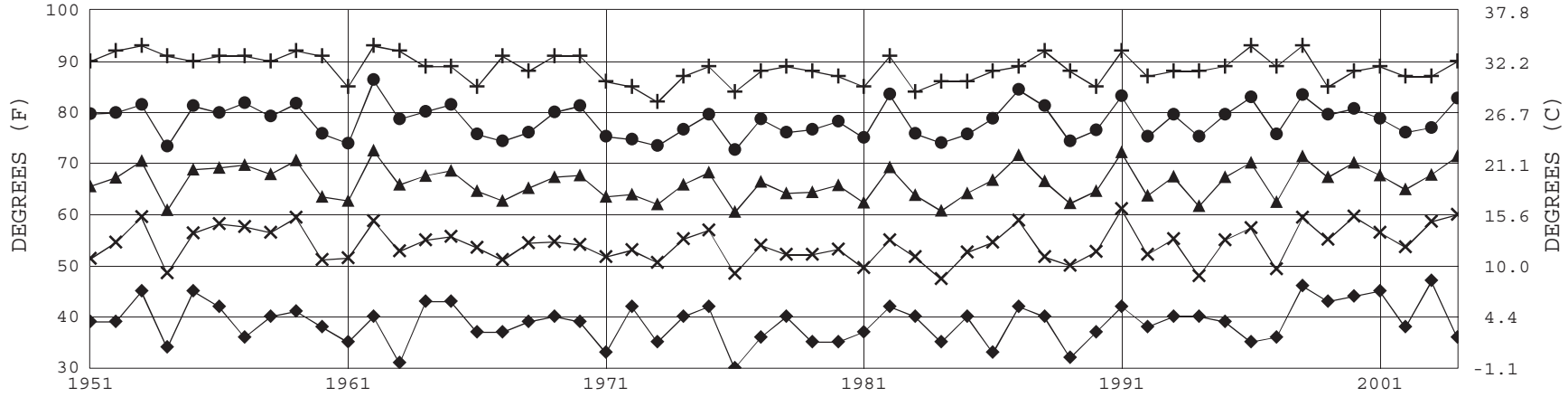
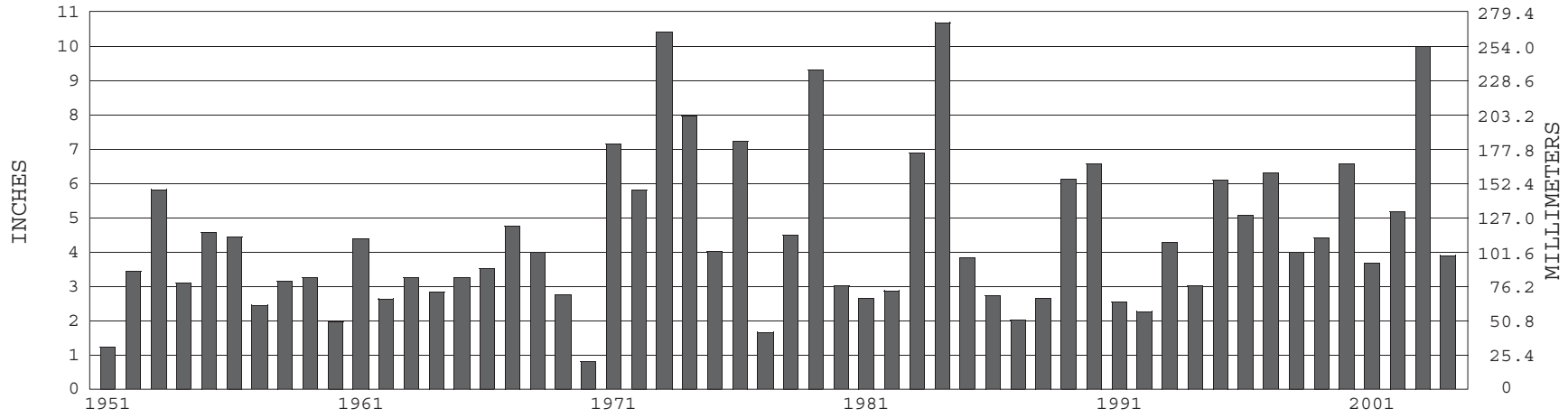
OAK RIDGE, TN MAY TEMPERATURES



Long-Term (1951-2004) Mean: 66.3 1971-2000 Normal: 65.6

OAK RIDGE, TN MAY PRECIPITATION



Long-Term (1951-2004) Mean Monthly Total: 4.47 1971-2000 Normal: 5.14

MAY 2004

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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Thomas R Karl

DIRECTOR

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