JUNE 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	83	64	74	4			0	9	TS RA				T					4.9	17	22	13	21	01
02	84	58	71	1	61	64	0	6	RA BR				0.59	29.07	30.01	1.6	21	4.2	31*	34	21*	34	02
03	81	68	75	5	63	66	0	10	RA				T	29.15		0.7	35	2.1	12	01	8	36	03
04	79	61	70	-1	59	63	0	5	RA BR				0.41	29.11	30.05	1.8	02	4.1	17	36	12	34	04
05	78	55*	67*	-4	54	59	0	2	BR				0.00	29.10	30.05	3.3	07	3.5	14	07	10	09	05
06	81	57	69	-2	58	62	0	4					0.00	29.09	30.04	1.4	05	2.9	10	15	8	06	06
07	82	64	73	1			0	8	RA BR HZ				T	29.16		1.1	07	1.9	9	07	7	09	07
08	83	71	77	5			0	12	RA BR HZ				T	29.23		1.4	07	1.9	9	07	8	07	08
09	86	65	76	4	67	70	0	11	FG+ BR				0.00	29.20	30.13	0.4	15	1.8	9	29	7	29	09
10	87	69	78	6	70	72	0	13	BR				0.00	29.08	30.01	0.1	01	1.4	16	29	12	29	10
11	92*	67	80	8	70	73	0	15	RA FG+ BR HZ				0.02	29.02	29.94	1.5	24	2.8	16	32	10	27	11
12	90	69	80	7	70	73	0	15	RA FG+ BR HZ				T	29.07	29.99	0.6	33	2.3	20	19	16	18	12
13	87	68	78	5	69	72	0	13						29.10	30.03	2.8	22	4.4	17	22	13	22	13
14	89	71	80	7	71	73	0	15	RA FG BR				0.36	29.08	30.00	2.2	17	4.6	18	15	14	15	14
15	83	71	77	4	72	73	0	12	RA FG BR				1.19	29.12	30.05	1.1	08	1.7	17	13	14	13	15
16	87	72	80	6	73	74	0	15	RA BR				0.10	29.17	30.10	1.0	21	2.1	24	29	15	27	16
17	89	72	81*	7	72	74	0	16	RA BR				0.22	29.18	30.11	1.8	20	3.1	20	35	13	34	17
18	88	71	80	6	72	74	0	15	RA FG BR				T	29.14	30.06	0.5	22	2.8	12	18	9	21	18
19	89	71	80	6	68	72	0	15	BR				0.00	29.11	30.03	1.3	36	3.2	17	01	12	01	19
20	85	65	75	1	62	67	0	10	BR				0.00	29.09	30.02	1.1	04	2.3	14	06	9	06	20
21	86	66	76	1	66	69	0	11	RA FG+ BR				1.16	28.98	29.91	1.0	11	3.2	18	32	13	33	21
22	84	69	77	2	70	72	0	12	RA BR HZ				0.11	28.98	29.91	2.8	20	3.6	15	21	10	19	22
23	75	69	72	-3	70	71	0	7	RA FG+ BR				2.06	29.07	30.00	1.3	23	3.4	13	28	9	26	23
24	85	70	78	3	68	71	0	13					0.00	29.14	30.07	1.7	20	3.1	13	21	9	21	24
25	73	67	70	-5	69	69	0	5	RA BR				1.45	29.08	30.02	0.5	14	2.5	12	33	9	22	25
26	82	66	74	-1	65	68	0	9	FG BR HZ				0.00	29.11	30.06	0.8	07	2.2	13	05	9	06	26
27	79	62	71	-5	62	65	0	6	BR				0.00	29.18	30.12	0.9	07	1.7	13	05	9	06	27
28	79	63	71	-5	64	66	0	6	RA FG BR				0.07	29.16	30.10	0.5	20	.7	8	27	7	22	28
29	85	63	74	-2	65	68	0	9	FG+ BR				0.00	29.21	30.15	0.6	21	1.8	10	19	8	22	29
30	81	68	75	-1	68	70	0	10	RA BR HZ				0.01	29.19	30.13	0.6	15	2.1	15	21	12	20	30
	83.7	66.4	75.1				0.0	10.3	< MONTHLY AVERAGES TOTALS–>				7.75					2.8	<– MONTHLY AVERAGES				
	-1.2	4.7	1.8		<–––––––––––DEPARTURE FROM NORMAL–––––––––––>								3.11	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

JUNE 2004
OAK RIDGE, TN

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING:	0	-6	3516	-477
COOLING:	309	55	595	225

GREATEST 24–HR PRECIPITATION: 2.06 DATE :23
GREATEST 24–HR SNOWFALL: DATE :
GREATEST SNOW DEPTH: DATE :

SEA LEVEL PRESSURE		DATE	TIME
MAXIMUM	30.21	09	0753
MINIMUM	29.82	21	1653

NUMBER OF DAYS WITH →

MAXIMUM TEMP ≥ 90:	2	MINIMUM TEMP ≤ 32 :	0
MAXIMUM TEMP ≤ 32 :	0	MINIMUM TEMP ≤ 0 :	0
THUNDERSTORMS :	1	HEAVY FOG :	6
		PRECIPITATION ≥ 0.01 INCH :	13
		PRECIPITATION ≥ 0.10 INCH :	10
		SNOWFALL ≥ 1.0 INCH :	

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

JUNE 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													01													01	0.00	T
02													02							0.47	T	0.08		0.03	0.01	02		0.59
03													03												T	03		T
04		T				0.34	0.07						04													04		0.41
05													05													05		0.00
06													06													06		0.00
07					T	T	T		T				07													07		T
08													08													08	0.00	T
09													09													09		0.00
10													10													10		0.00
11													11	0.01	0.01											11		0.02
12													12													12	0.00	T
13													13													13		
14								T					14				T	T		T				T		14	T	0.36
15	0.55	T	T	0.14	0.04	0.01	0.01	0.01	T				15			0.14	0.10			0.11	0.05	T	0.01		0.02	15		1.19
16				0.01		0.01	T		T				16			0.07	T					0.01				16		0.10
17													17			0.16	0.05	0.01	T							17		0.22
18												T	18	T		T											18		T
19													19													19		0.00
20													20													20		0.00
21											T		21								0.03	0.10		0.01		21	0.14	1.16
22								T			0.01	0.10	22	T									T			22		0.11
23											0.56	0.92	23	0.41	0.13	0.01	T	T	0.02	0.01	T		T			23		2.06
24													24													24		0.00
25			T	0.04	0.01	0.05	0.02	0.07	0.04	0.08	0.18	0.27	25	0.13	0.52	0.03	T	T			T	0.01				25		1.45
26													26													26		0.00
27													27													27		0.00
28												T	28	0.04	0.03	T										28		0.07
29													29													29		0.00
30													30		0.01	T	T		T							30		0.01

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

OAK RIDGE, TN
JUNE 2004

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							10.00	10.00	
02							.75	10.00	
03							.00	10.00	
04							1.25	10.00	
05							.75	10.00	
06							8.00	10.00	
07							4.00	8.00	
08							1.75	10.00	
09							<.25	10.00	
10							5.00	10.00	
11							.25	10.00	
12							.25	10.00	
13							9.00	10.00	
14							.50	10.00	
15							.50	10.00	
16							5.00	10.00	
17							1.75	10.00	
18							.50	10.00	
19							4.00	10.00	
20							6.00	10.00	
21							.25	10.00	
22							1.75	10.00	
23							.25	10.00	
24							9.00	10.00	
25							.75	10.00	
26							.50	10.00	
27							5.00	10.00	
28							.50	10.00	
29							<.25	10.00	
30							2.00	8.00	
MONTHLY AVGS							3.56	7.87	

SUNSHINE (MINUTES)

Total: Possible:
Percent Possible:

NUMBER OF DAYS WITH:

SKY CONDITION

CLR	PTLY CLDY	CLOUDY	MISSING
			30

MINIMUM VISIBILITY (MILES)

<=0.25	<=3.0	>=7.0
5	16	7

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

JUNE 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: 0522	**JUN 01**			**SUNSET: 1948**					
01	SCT	NC			10.00		65	61	63	87	3	21	28.90	29.83
04														
07														
10														
13	CLR	NC			10.00		81	59	67	47	8	22	28.96	29.89
16	CLR	NC			10.00		82	55	65	40	6	VR	28.92	29.85
19	CLR	NC			10.00		79	57	65	47	6	VR	28.92	29.85
22	CLR	NC			10.00		68	59	63	73	0	00	28.96	29.90
					SUNRISE: 0521	**JUN 02**			**SUNSET: 1949**					
01	CLR	NC			10.00		64	58	60	81	0	00	29.01	29.93
04	CLR	NC			10.00		59	57	58	93	0	00	29.04	29.98
07	FEW	NC			10.00		62	57	59	84	0	00	29.09	30.03
10	FEW	NC			10.00		73	61	66	66	7	25	29.08	30.02
13	CLR	NC			10.00		81	62	69	53	6	27	29.08	30.02
16	CLR	NC			10.00		83	61	69	48	8	20	29.05	29.98
19	BKN	045			0.75	-RA BR	64	60	62	87	6	16	29.08	30.03
22	FEW	NC			7.00		64	63	63	96	3	24	29.11	30.06
					SUNRISE: 0521	**JUN 03**			**SUNSET: 1949**					
01	SCT	NC			10.00		63	62	62	97	5	06	29.13	30.07
04	CLR	NC			9.00		64	62	63	93	3	36	29.14	30.08
07	CLR	NC			8.00		64	62	63	93	0	00	29.18	30.14
10														
13	BKN	030			10.00		79	65	70	62	3	VR	29.15	
16	CLR	NC			10.00		79	65	70	62	5	26	29.11	
19	CLR	NC			10.00		73	63	67	71	6	01	29.13	
22	OVC	110			10.00		70	62	65	76	3	36	29.14	
					SUNRISE: 0521	**JUN 04**			**SUNSET: 1950**					
01	OVC	090			10.00		67	63	64	87	0	00	29.11	30.05
04	OVC	070			10.00		66	62	64	87	0	00	29.08	30.02
07	BKN	120			10.00		61	59	60	93	7	10	29.11	30.06
10	SCT	NC			10.00		70	60	64	71	5	33	29.13	30.08
13	BKN	055			10.00		76	58	65	54	0	00	29.11	30.05
16	CLR	NC			10.00		77	58	65	52	8	02	29.08	30.02
19	OVC	060			10.00		72	57	63	60	6	32	29.09	30.04
22	CLR	NC			10.00		65	58	61	78	3	VR	29.12	30.08
					SUNRISE: 0520	**JUN 05**			**SUNSET: 1950**					
01	CLR	NC			10.00		61	57	59	87	3	09	29.11	30.06
04	CLR	NC			4.00	BR	56	55	55	97	0	00	29.09	30.04
07	OVC	003			1.00	BR	56	55	55	97	0	00	29.14	30.10
10	CLR	NC			10.00		70	56	62	61	7	07	29.13	30.09
13	CLR	NC			10.00		77	52	62	42	12	08	29.11	30.05
16	CLR	NC			10.00		78	53	63	42	7	08	29.07	30.01
19	CLR	NC			10.00		73	51	60	46	6	06	29.07	30.02
22	CLR	NC			10.00		64	55	59	73	0	00	29.08	30.03
					SUNRISE: 0520	**JUN 06**			**SUNSET: 1951**					
01	CLR	NC			10.00		58	54	56	87	0	00	29.08	30.02
04	OVC	095			9.00		58	55	56	90	0	00	29.07	30.01
07	BKN	065			10.00		60	56	58	86	3	06	29.11	30.06
10	CLR	NC			10.00		68	58	62	70	7	05	29.11	30.06
13	CLR	NC			10.00		75	56	64	52	3	VR	29.11	30.06
16	CLR	NC			10.00		80	58	66	47	3	VR	29.07	30.01
19	CLR	NC			10.00		76	61	67	60	5	02	29.07	30.01
22	FEW	NC			10.00		70	60	64	71	0	00	29.10	30.05

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: 0520	**JUN 07**			**SUNSET: 1951**					
01	CLR	NC			7.00		66	61	63	84	5	06	29.10	30.04
04	CLR	NC			7.00		65	61	63	87	0	00	29.11	30.05
07	FEW	NC			5.00	BR	66	62	64	87	0	00	29.15	30.10
10	BKN	065			7.00		68	62	64	81	5	08	29.20	30.14
13	CLR	NC			8.00		75	63	67	66	6	VR	29.18	30.13
16	CLR	NC			7.00		82	66	71	58	5	VR	29.14	30.08
19	CLR	NC			6.00	HZ	79	67	71	67	6	07	29.14	30.08
22	OVC	036			5.00	HZ					0	00	29.19	
					SUNRISE: 0520	**JUN 08**			**SUNSET: 1952**					
01	CLR	NC			3.00	BR					0	00	29.19	
04	SCT	NC			3.00	BR					0	00	29.21	
07	BKN	090			2.00	-RA					0	00	29.25	
10	OVC	100			4.00	HZ	73	67	69	81	0	00	29.28	
13														
16	CLR	NC			7.00		83	67	72	59	6	VR	29.22	
19	CLR	NC			10.00		81	66	71	61	5	08	29.21	
22	OVC	080			8.00		74	68	70	82	0	00	29.26	
					SUNRISE: 0520	**JUN 09**			**SUNSET: 1952**					
01	CLR	NC			6.00	BR	69	67	68	93	0	00	29.25	30.19
04	CLR	NC			5.00	BR	66	64	65	93	0	00	29.21	30.14
07	VV	001			0.25	FG	66	66	66	100	3	05	29.27	30.21
10	CLR	NC			10.00		80	67	71	64	0	00	29.26	30.19
13	BKN	043			10.00		83	65	71	55	0	00	29.20	30.14
16	CLR	NC			10.00		85	65	72	51	0	00	29.13	30.07
19	CLR	NC			10.00		83	68	73	61	3	VR	29.13	30.07
22	BKN	100			10.00		76	71	73	85	0	00	29.15	30.09
					SUNRISE: 0520	**JUN 10**			**SUNSET: 1953**					
01	FEW	NC			7.00		72	70	71	94	3	01	29.14	30.07
04	CLR	NC			10.00		71	67	68	87	0	00	29.12	30.05
07	CLR	NC			7.00		72	69	70	91	0	00	29.12	30.05
10	CLR	NC			10.00		80	70	73	71	5	VR	29.12	30.05
13	BKN	040			10.00		86	68	74	55	0	00	29.08	29.99
16	FEW	NC			10.00		81	67	72	62	0	00	29.04	29.96
19	CLR	NC			10.00		82	72	75	72	0	00	29.02	29.94
22	CLR	NC			8.00		74	72	73	94	0	00	29.04	29.96
					SUNRISE: 0520	**JUN 11**			**SUNSET: 1953**					
01	CLR	NC			6.00	BR	71	70	70	96	0	00	29.04	29.96
04	VV	001			0.25	FG	69	68	68	96	0	00	29.02	29.95
07	VV	001			1.00	BR	68	68	68	100	0	00	29.05	29.97
10	CLR	NC			6.00	HZ	81	70	73	69	6	22	29.04	29.96
13	FEW	NC			8.00		85	70	75	61	3	33	29.01	29.93
16	SCT	NC			9.00		92	69	76	47	5	VR	28.97	29.89
19	CLR	NC			9.00		87	70	75	57	5	VR	28.98	29.90
22	CLR	NC			7.00		79	72	74	79	0	00	29.03	29.94
					SUNRISE: 0520	**JUN 12**			**SUNSET: 1954**					
01	CLR	NC			6.00	BR	75	72	73	90	0	00	29.03	29.94
04	CLR	NC			5.00	BR	73	70	71	90	0	00	29.03	29.94
07	CLR	NC			2.50	BR	72	70	71	94	0	00	29.08	30.00
10	BKN	075			10.00		86	72	76	63	6	VR	29.09	30.01
13	BKN	045			10.00		88	70	75	55	0	00	29.06	29.97
16	CLR	NC			10.00		88	70	75	55	5	34	29.01	29.93
19	OVC	060			4.00	-RA BR	73	70	71	90	3	VR	29.11	30.05
22	FEW	NC			10.00		71	69	70	94	0	00	29.11	30.04

OBSERVATIONS AT 3–HOURLY INTERVALS

OAK RIDGE, TN

JUNE 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: 0520	**JUN 13**			**SUNSET: 1954**					
01	CLR	NC			10.00		71	68	69	90	0	00	29.06	29.97
04	FEW	NC			10.00		69	67	68	93	0	00	29.08	30.01
07	FEW	NC			10.00		71	67	68	87	0	00	29.15	30.09
10	BKN	021			10.00		78	70	73	76	7	26	29.15	30.09
13	SCT	NC			10.00		83	72	75	70	3	VR	29.10	30.03
16	CLR	NC			10.00		86	72	76	63	7	VR	29.06	29.98
19	CLR	NC			10.00		83	70	74	65	5	21	29.06	29.98
22	FEW	NC			10.00		79	68	72	69	8	22	29.08	30.01
					SUNRISE: 0520	**JUN 14**			**SUNSET: 1955**					
01	FEW	NC			10.00		77	69	72	77	3	VR	29.10	30.02
04	OVC	042			9.00		76	70	72	82	3	VR	29.09	30.02
07	OVC	037			7.00		76	71	73	85	3	19	29.11	30.03
10	OVC	019			9.00		80	71	74	74	6	VR	29.10	30.03
13	FEW	NC			10.00		87	69	75	55	8	19	29.08	29.99
16	OVC	047			10.00	-RA	85	69	74	59	9	18	29.02	29.94
19	BKN	048			10.00		77	74	75	90	3	12	29.02	29.95
22	BKN	040			10.00		75	70	72	84	3	36	29.08	30.01
					SUNRISE: 0520	**JUN 15**			**SUNSET: 1955**					
01	OVC	007			3.00	-RA BR	72	71	71	97	0	00	29.11	30.03
04	OVC	095			8.00	-RA	72	70	71	94	0	00	29.09	30.02
07	OVC	008			6.00	-RA BR	72	71	71	97	0	00	29.12	30.06
10	BKN	090			10.00		75	72	73	90	3	08	29.15	30.09
13	BKN	050			10.00		81	73	75	77	0	00	29.12	30.05
16	FEW	NC			10.00		81	73	75	77	0	00	29.08	30.01
19	OVC	027			3.00	RA BR	74	73	73	97	0	00	29.11	30.05
22	FEW	NC			10.00		73	72	72	96	0	00	29.15	30.09
					SUNRISE: 0520	**JUN 16**			**SUNSET: 1955**					
01	BKN	065			9.00		73	72	72	96	0	00	29.15	30.08
04	OVC	027			10.00		73	72	72	96	0	00	29.12	30.05
07	OVC	017			7.00		73	72	72	96	0	00	29.18	30.12
10	OVC	010			8.00		77	74	75	90	5	VR	29.22	30.15
13	BKN	036			10.00		86	72	76	63	6	VR	29.19	30.11
16	CLR	NC			10.00		80	72	74	76	5	13	29.16	30.09
19	CLR	NC			10.00		83	73	76	72	0	00	29.14	30.07
22	CLR	NC			7.00		78	76	77	93	3	17	29.17	30.10
					SUNRISE: 0520	**JUN 17**			**SUNSET: 1956**					
01	CLR	NC			10.00		76	72	73	88	0	00	29.18	30.10
04	CLR	NC			10.00		73	70	71	90	0	00	29.17	30.10
07	BKN	007			8.00		73	70	71	90	5	23	29.22	30.15
10	CLR	NC			10.00		82	72	75	72	7	21	29.23	30.15
13	BKN	050			10.00		87	72	76	61	6	20	29.16	30.09
16	OVC	014			2.50	RA BR	75	73	74	94	3	20	29.18	30.12
19	SCT	NC			10.00		78	73	75	85	3	18	29.13	30.07
22	CLR	NC			10.00		74	73	73	97	0	00	29.16	30.09
					SUNRISE: 0520	**JUN 18**			**SUNSET: 1956**					
01	VV	001			1.00	BR	72	72	72	100	0	00	29.14	30.06
04	OVC	002			1.50	BR	71	71	71	100	0	00	29.12	30.06
07	SCT	NC			10.00		74	72	73	94	5	VR	29.16	30.10
10	BKN	055			10.00		81	71	74	72	6	26	29.18	30.11
13	SCT	NC			10.00		86	71	76	61	5	VR	29.15	30.08
16	SCT	NC			10.00		87	73	77	63	6	23	29.10	30.03
19	CLR	NC			10.00		85	73	77	68	3	08	29.09	30.01
22	FEW	NC			6.00	BR	77	74	75	90	0	00	29.13	30.06

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: 0520	**JUN 19**			**SUNSET: 1956**					
01	CLR	NC			5.00	BR	73	72	72	96	0	00	29.12	30.05
04	CLR	NC			5.00	BR	71	70	70	96	5	10	29.09	30.02
07	SCT	NC			5.00	BR	73	70	71	90	0	00	29.11	30.04
10	SCT	NC			10.00		83	71	75	67	3	VR	29.12	30.04
13	SCT	NC			10.00		86	68	74	55	5	VR	29.11	30.03
16	CLR	NC			10.00		86	66	73	51	9	01	29.08	30.01
19	FEW	NC			10.00		82	66	71	58	3	35	29.08	30.00
22	CLR	NC			10.00		74	65	68	74	0	00	29.12	30.05
					SUNRISE: 0520	**JUN 20**			**SUNSET: 1957**					
01	CLR	NC			7.00		69	65	66	87	0	00	29.11	30.04
04	CLR	NC			9.00		66	62	64	87	0	00	29.11	30.04
07	CLR	NC			7.00		67	63	64	87	0	00	29.13	30.06
10	CLR	NC			10.00		76	63	68	64	0	00	29.12	30.06
13	FEW	NC			10.00		81	61	68	51	6	08	29.08	30.02
16	FEW	NC			10.00		83	60	68	46	0	00	29.07	29.99
19	CLR	NC			10.00		80	61	68	52	5	06	29.04	29.97
22	CLR	NC			10.00		71	63	66	76	0	00	29.06	29.98
					SUNRISE: 0521	**JUN 21**			**SUNSET: 1957**					
01	CLR	NC			10.00		68	63	65	84	0	00	29.04	29.97
04	FEW	NC			10.00		67	62	64	84	3	08	29.02	29.94
07	CLR	NC			10.00		67	63	64	87	0	00	29.01	29.94
10	BKN	046			10.00		72	63	66	73	6	08	29.02	29.95
13	CLR	NC			10.00		81	68	72	65	5	VR	28.96	29.89
16	SCT	NC			9.00		85	69	74	59	6	11	28.90	29.83
19	BKN	070			3.00	-RA BR	73	71	72	94	0	00	28.92	29.85
22	FEW	NC			8.00		70	69	69	97	0	00	28.96	29.90
					SUNRISE: 0521	**JUN 22**			**SUNSET: 1957**					
01	SCT	NC			8.00		70	69	69	97	0	00	28.95	29.87
04	OVC	016			7.00		71	70	70	96	3	VR	28.95	29.87
07	OVC	008			5.00	BR	72	70	71	94	5	21	28.99	29.92
10	BKN	012			6.00	HZ	77	71	73	82	7	22	29.01	29.94
13	SCT	NC			10.00		75	73	74	94	6	18	29.02	29.95
16	SCT	NC			10.00		82	69	73	65	7	20	28.96	29.88
19	BKN	055			10.00		80	70	73	71	6	19	28.97	29.90
22	CLR	NC			10.00		77	71	73	82	0	00	29.00	29.93
					SUNRISE: 0521	**JUN 23**			**SUNSET: 1957**					
01	OVC	070			10.00		74	70	71	88	3	28	29.03	29.96
04	SCT	NC			10.00		72	68	69	87	0	00	29.02	29.94
07	OVC	013			10.00		72	69	70	91	5	VR	29.07	29.99
10	OVC	025			10.00		75	69	71	82	6	VR	29.08	30.01
13	OVC	013			0.75	+RA BR	71	69	70	94	3	28	29.09	30.02
16	SCT	NC			10.00	-RA	75	71	72	88	6	23	29.08	30.01
19	BKN	014			10.00		73	71	72	94	3	16	29.07	30.00
22	OVC	017			10.00		71	69	70	94	0	00	29.10	30.03
					SUNRISE: 0521	**JUN 24**			**SUNSET: 1957**					
01	OVC	009			10.00		71	70	70	96	0	00	29.09	30.03
04	OVC	005			10.00		71	69	70	94	0	00	29.09	30.03
07	BKN	012			10.00		71	68	69	90	0	00	29.15	30.09
10	BKN	060			10.00		76	68	71	77	3	VR	29.16	30.10
13	CLR	NC			10.00		81	64	70	57	5	VR	29.15	30.08
16	FEW	NC			10.00		82	66	71	58	6	19	29.12	30.05
19	BKN	036			10.00		79	68	72	69	6	23	29.13	30.06
22	OVC	024			10.00		75	69	71	82	5	22	29.16	30.10

OBSERVATIONS AT 3−HOURLY INTERVALS

OAK RIDGE, TN

JUNE 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: 0522	JUN 25			SUNSET: 1957					
01	OVC	110			10.00		73	69	70	87	3	VR	29.15	30.08
04	OVC	009			10.00	-RA	71	69	70	94	3	VR	29.13	30.06
07	BKN	026			6.00	-RA BR	71	69	70	94	6	22	29.14	30.08
10	BKN	020			6.00	-RA BR	71	69	70	94	3	18	29.11	30.05
13	OVC	007			1.75	+RA BR	70	69	69	97	0	00	29.06	30.00
16	OVC	050			10.00		71	68	69	90	6	07	29.02	29.96
19	BKN	110			10.00		71	69	70	94	3	07	29.01	29.94
22	SCT	NC			2.50	BR	69	68	68	96	0	00	29.04	29.98
					SUNRISE: 0522	JUN 26			SUNSET: 1958					
01	OVC	001			0.50	FG	68	67	67	96	0	00	29.06	30.00
04	OVC	001			0.75	BR	66	66	66	100	0	00	29.06	30.00
07	VV	001			0.50	FG	66	66	66	100	0	00	29.11	30.06
10	BKN	027			10.00		75	65	69	71	0	00	29.14	30.08
13	SCT	NC			10.00		80	65	70	60	6	VR	29.11	30.05
16	OVC	043			7.00		77	68	71	74	0	00	29.09	30.03
19	OVC	045			6.00	HZ	73	64	67	74	5	VR	29.13	30.07
22	SCT	NC			7.00		68	63	65	84	3	09	29.17	30.11
					SUNRISE: 0522	JUN 27			SUNSET: 1958					
01	SCT	NC			9.00		66	62	64	87	0	00	29.17	30.11
04	CLR	NC			10.00		63	59	61	87	0	00	29.17	30.11
07	CLR	NC			10.00		64	59	61	84	0	00	29.21	30.16
10	CLR	NC			10.00		73	61	66	66	5	VR	29.21	30.15
13	CLR	NC			10.00		78	63	68	60	6	10	29.18	30.12
16	CLR	NC			10.00		77	63	68	62	0	00	29.14	30.09
19	CLR	NC			10.00		75	65	69	71	0	00	29.14	30.09
22	CLR	NC			7.00		68	66	67	93	0	00	29.17	30.11
					SUNRISE: 0523	JUN 28			SUNSET: 1958					
01	CLR	NC			5.00	BR	65	64	64	97	0	00	29.14	30.08
04	OVC	003			2.50	BR	63	63	63	100	0	00	29.12	30.07
07	SCT	NC			3.00	BR	65	63	64	93	0	00	29.16	30.11
10	BKN	027			9.00		72	65	67	79	0	00	29.19	30.13
13	SCT	NC			4.00	-RA BR	72	68	69	87	0	00	29.18	30.13
16	CLR	NC			10.00		77	58	65	52	6	20	29.14	30.09
19	CLR	NC			10.00		76	62	67	62	0	00	29.13	30.08
22	CLR	NC			10.00		68	65	66	90	0	00	29.20	30.14
					SUNRISE: 0523	JUN 29			SUNSET: 1958					
01	CLR	NC			6.00	BR	67	65	66	93	0	00	29.20	30.14
04	VV	003			1.00	BR	63	62	62	97	0	00	29.19	30.14
07	VV	001			<.25	FG	65	65	65	100	0	00	29.23	30.18
10	CLR	NC			7.00		73	66	69	79	3	VR	29.25	30.19
13	CLR	NC			10.00		81	64	70	57	7	VR	29.23	30.16
16	FEW	NC			10.00		82	62	69	51	3	VR	29.17	30.11
19	OVC	110			10.00		81	66	71	61	3	VR	29.17	30.11
22	BKN	100			9.00		75	69	71	82	0	00	29.20	30.14
					SUNRISE: 0524	JUN 30			SUNSET: 1958					
01	CLR	NC			3.00	BR	70	68	69	93	0	00	29.19	30.13
04	SCT	NC			2.50	BR	68	67	67	96	0	00	29.19	30.12
07	SCT	NC			2.00	BR	68	67	67	96	3	VR	29.22	30.15
10	SCT	NC			6.00	HZ	74	68	70	82	5	VR	29.23	30.16
13	FEW	NC			7.00		79	68	72	69	6	17	29.20	30.14
16	CLR	NC			8.00		79	70	73	74	3	VR	29.17	30.11
19	CLR	NC			6.00	HZ	75	70	72	84	0	00	29.15	30.09
22	CLR	NC			6.00	BR	72	69	70	91	0	00	29.18	30.12

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:	JUN 31			SUNSET:					

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			69	66	67	91	29.10	30.03	7.38	1	0	0
02			69	66	67	91	29.10	30.03	7.64	1	0	0
03			68	66	66	92	29.10	30.03	6.94	0	0	0
04			68	65	66	92	29.10	30.03	6.84	0	0	0
05			67	65	66	92	29.11	30.04	6.41	0	0	0
06			67	65	66	92	29.13	30.06	5.57	1	0	0
07			68	66	67	92	29.14	30.07	5.98	1	0	0
08			71	66	68	86	29.15	30.08	7.64	1	1	16
09			73	67	69	80	29.15	30.08	8.61	2	0	0
10			76	67	70	75	29.15	30.08	8.86	3	0	0
11			77	66	70	70	29.14	30.07	8.71	3	1	16
12			79	66	71	67	29.13	30.06	8.97	3	1	16
13			80	66	71	63	29.11	30.04	8.95	2	1	17
14			81	66	71	62	29.10	30.03	8.93	3	0	0
15			81	66	71	63	29.09	30.02	9.05	3	0	0
16			81	66	71	61	29.08	30.00	9.32	3	1	18
17			81	66	71	61	29.07	30.00	9.50	4	1	15
18			80	66	71	65	29.07	30.00	9.25	4	1	8
19			77	67	70	71	29.08	30.01	8.59	3	1	9
20			75	67	70	77	29.09	30.02	9.23	1	0	0
21			73	67	69	82	29.10	30.03	9.10	1	0	0
22			72	67	69	85	29.11	30.04	8.58	1	0	0
23			71	67	68	87	29.12	30.04	8.63	1	0	0
24			70	67	68	88	29.12	30.05	8.23	1	1	20

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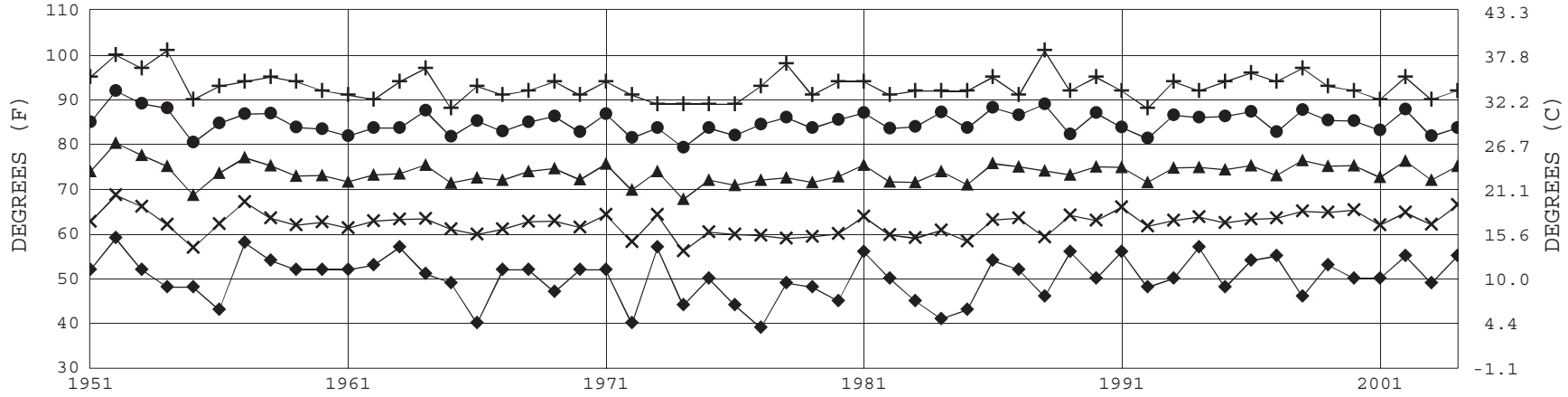
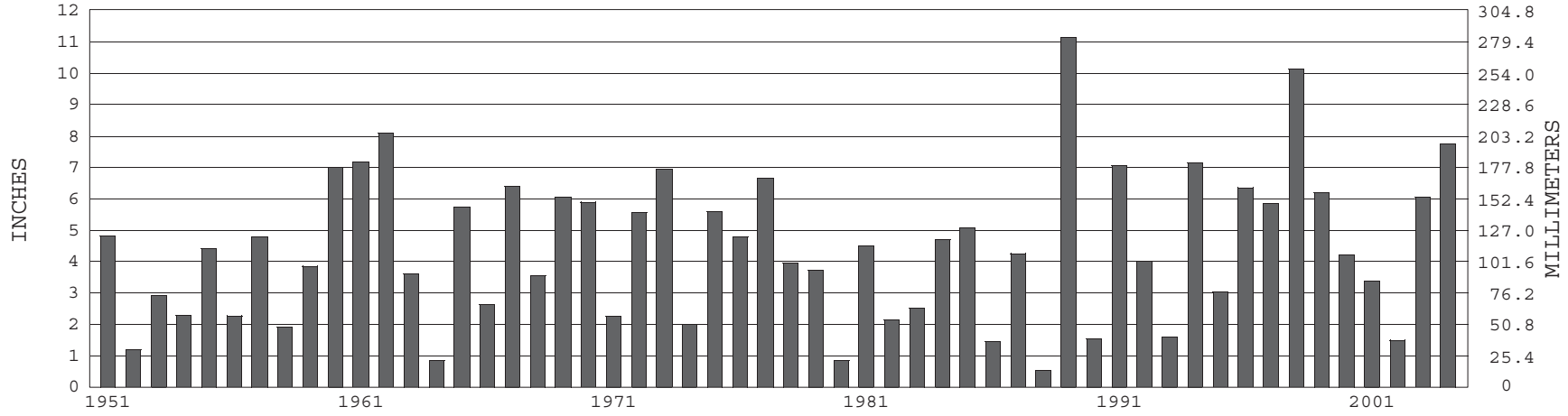
OAK RIDGE, TN JUNE TEMPERATURES



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

Long-Term (1951-2004) Mean: 73.6 1971-2000 Normal: 73.3

OAK RIDGE, TN JUNE PRECIPITATION



Long-Term (1951-2004) Mean Monthly Total: 4.45 1971-2000 Normal: 4.64

JUNE 2004

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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DIRECTOR

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