



JUNE 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 #: -

JUNE 2003
 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																		
01	73	52	63	-7	48	55	2	0	BR				0.00	29.00	29.95	2.5	08	4.0	16	07	12	07	01																		
02	76	49*	63*	-7	51	56	2	0	RA BR				0.02	29.01	29.96	0.8	06	2.9	15	06	13	07	02																		
03	77	61	69	-1	64	66	0	4	RA BR HZ				0.16	28.85	29.78	2.4	22	3.6	21	25	15	23	03																		
04	70	61	66	-5	56	60	0	1	RA BR HZ				0.34	28.92	29.86	2.1	26	4.4	17	28	13	27	04																		
05	77	51	64	-7	52	58	1	0	FG BR HZ				0.00	29.06	30.02	0.9	09	2.2	15	08	10	08	05																		
06	84	56	70	-1	60	63	0	5	RA BR HZ				0.29	28.99	29.93	1.5	07	2.7	15	06	12	06	06																		
07	79	68	74	2	69	70	0	9	RA FG+ BR				2.21	28.84	29.77	1.5	24	3.2	18	23	14	19	07																		
08	84	63	74	2	65	68	0	9	RA BR HZ				0.28	28.90	29.84	2.1	25	3.1	32	28	23	27	08																		
09	83	59	71	-1	58	63	0	6	FG+ BR				0.00	29.04	29.97	1.9	24	2.6	17	24	13	20	09																		
10	85	57	71	-1	60	65	0	6	RA BR				T	29.07	30.01	2.6	23	3.3	18	19	14	19	10																		
11	88	66	77	5	67	69	0	12	RA BR HZ				0.25	29.00	29.93	1.8	22	3.0	32*	23	23*	21	11																		
12	84	66	75	2	68	70	0	10	RA FG+ BR HZ				0.27	28.95	29.88	0.8	21	3.3	16	21	12	22	12																		
13	83	69	76	3	68	71	0	11	RA BR HZ				0.08	28.98	29.90	4.0	21	5.9	17	20	14	20	13																		
14	83	70	77	4			0	12	RA HZ				0.08	29.02		1.3	22	3.1	15	21	9	22	14																		
15	84	69	77	4			0	12	RA BR HZ				0.05	29.04		2.2	22	4.0	16	23	12	22	15																		
16	83	67	75	1	70	71	0	10	RA FG+ BR HZ				0.79	29.08		0.4	27	1.5	15	28	9	27	16																		
17	83	68	76	2	68	70	0	11	RA BR HZ				0.07	29.07	30.00	1.5	20	3.1	12	20	9	17	17																		
18	76	69	73	-1	69	70	0	8	RA BR HZ				0.18	28.98	29.92	0.5	14	1.1	9	01	6	06	18																		
19	82	68	75	1	67	70	0	10	RA BR HZ				T	28.93	29.86	0.2	04	.8	9	06	7	17	19																		
20	79	63	71	-3	55	62	0	6	BR HZ				0.00	29.01	29.95	4.2	04	5.2	15	36	12	07	20																		
21	80	52	66	-9	51	58	0	1	BR				0.00	29.06	30.01	1.7	05	3.7	17	06	13	07	21																		
22	82	55	69	-6	56	61	0	4	BR				0.00	29.05	30.00	2.1	06	3.5	16	05	13	08	22																		
23	85	58	72	-3	59	64	0	7	BR				0.00	29.08	30.02	1.3	08	2.5	13	10	10	06	23																		
24	88	59	74	-1	61	66	0	9	BR HZ				0.00	29.15	30.09	0.8	08	1.7	12	08	9	07	24																		
25	90*	63	77	2	65	69	0	12	BR HZ				0.00	29.18	30.11	0.9	20	1.5	14	20	10	20	25																		
26	89	66	78	3	67	71	0	13	BR HZ				0.00	29.09	30.02	1.9	21	3.7	16	20	13	19	26																		
27	75	63	69	-7	66	67	0	4	RA BR				0.11	29.07	30.00	1.7	06	3.3	10	05	8	05	27																		
28	86	60	73	-3	64	67	0	8	FG+ BR HZ				0.00	29.10	30.04	0.1	15	1.9	13	28	9	29	28																		
29	88	68	78*	2	68	71	0	13	BR HZ				0.00	29.20	30.13	0.9	16	2.7	14	17	10	17	29																		
30	78	67	73	-3	70	71	0	8	RA FG+ BR HZ				0.87	29.25	30.19	1.2	20	2.2	20	26	14	26	30																		
										81.8		62.1		72.0		■ ■		0.2		7.4		< MONTHLY AVERAGES				TOTALS-->		6.05		29.03		0.5		20		3.0		<-- MONTHLY AVERAGES			
										-3.1		0.4		-1.3		■ ■		<-----DEPARTURE FROM NORMAL----->										1.41		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 2.48 DATE :06-07										SEA LEVEL PRESSURE										DATE		TIME									
MONTHLY TOTAL DEPARTURE										SEASON TO DATE TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:										MAXIMUM		30.22		30		2153					
HEATING: 5										-1										3622										-371											
COOLING: 221										-33										349										-21		NUMBER OF DAYS WITH		MAXIMUM TEMP ≥ 90: 1		MINIMUM TEMP ≤ 32: 0		PRECIPITATION ≥ 0.01 INCH: 16			
																														MAXIMUM TEMP ≤ 32: 0		MINIMUM TEMP ≤ 0: 0		PRECIPITATION ≥ 0.10 INCH: 11							
																														THUNDERSTORMS: 0		HEAVY FOG: 6		SNOWFALL ≥ 1.0 INCH: :							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

JUNE 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													01												01		0.00		
02													02												02		0.02		
03													03				0.01	T							03		0.16		
04	0.19	0.01		T	0.08	0.04	T			T	0.01		04				0.01								04		0.34		
05		0.12	0.02	0.01	T								05												05		0.00		
06													06					T	0.10	0.10	0.04	T	0.02		0.03	06	0.29		
07	0.02	0.08	0.19	0.33	0.06	0.35	0.38	0.06	0.28	0.07		T	07	T	T	0.37	T	T		0.02				07		2.21			
08													08							0.28					08		0.28		
09													09												09		0.00		
10													10						T						10		T		
11													11							0.15	0.08	0.01			11		0.25		
12													12												12		0.27		
13													13	0.22											13		0.08		
14													14					0.01	0.01						14	0.00	0.08		
15					0.06								15												15	0.00	0.05		
16													16	0.04	T	0.01	T	T		0.01		0.62	0.10	T	16	0.78	0.79		
17													17			T	T								17		0.07		
18													18	0.01	0.02	0.03	0.01	0.04	T						18		0.18		
19	T	T											19												19		T		
20													20												20		0.00		
21													21												21		0.00		
22													22												22		0.00		
23													23												23		0.00		
24													24												24		0.00		
25													25												25		0.00		
26													26												26		0.00		
27													27												27		0.11		
28													28												28		0.00		
29													29												29		0.00		
30	T	0.68											30	T	0.01										30		0.87		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.22	.35	.48	.53	.66	.68	.68	.70	.72	.76	.83	.88
Ending Date	30	16	30	30	30	30	30	16	16	07	07	07
Ending Time (Hour/Min)	0111	2151	0120	0120	0123	0128	0128	2231	2238	0639	0701	0833

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 JUNE 2003

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							6.00	10.00	
02							3.00	10.00	
03							1.25	10.00	
04							.75	10.00	
05							.50	9.00	
06							.75	7.00	
07							.25	10.00	
08							.50	10.00	
09							<.25	10.00	
10							4.00	10.00	
11							.75	10.00	
12							.25	10.00	
13							.00	10.00	
14							1.00	10.00	
15							3.00	10.00	
16							.25	10.00	
17							.00	10.00	
18							2.50	6.00	
19							2.00	8.00	
20							1.75	10.00	
21							4.00	10.00	
22							5.00	10.00	
23							5.00	10.00	
24							4.00	8.00	
25							1.75	5.00	
26							.75	5.00	
27							1.75	10.00	
28							<.25	7.00	
29							2.00	5.00	
30							.25	9.00	
MONTHLY AVGS							2.17	8.97	
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 4 23 0									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JUNE 2003

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okltas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okltas	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					DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL	
																																				DRY BULB
SUNRISE: 0522 JUN 01 SUNSET: 1947																																				
01	CLR	NC						10.00		59	50	54	72	0	00	28.92	29.85	01	OVC	004						1.50	-RA	BR	69	67	68	93	0	00	28.86	29.78
04	FEW	NC						8.00		54	50	52	87	0	00	28.94	29.88	04	OVC	008						6.00	BR		69	68	68	96	6	00	28.81	29.73
07	CLR	NC						10.00		58	49	53	72	5	02	29.01	29.95	07	OVC	016						1.75	RA	BR	70	68	69	93	7	VR	28.84	29.77
10	CLR	NC						10.00		64	46	54	52	8	04	29.03	29.98	10	OVC	047						10.00			71	68	69	90	3	19	28.83	29.76
13	CLR	NC						10.00		69	46	57	44	5	VR	29.02	29.96	13	OVC	014						10.00			74	69	71	85	0	00	28.83	29.76
16	CLR	NC						10.00		72	48	59	43	0	00	29.00	29.95	16	OVC	055						10.00			76	71	73	85	5	VR	28.81	29.74
19	CLR	NC						10.00		69	47	57	45	8	06	28.99	29.94	19	OVC	047						10.00			76	68	71	77	5	36	28.84	29.77
22	CLR	NC						10.00		61	48	54	63	0	00	29.03	29.98	22	CLR	NC						5.00	BR		69	68	68	96	0	00	28.88	29.82
SUNRISE: 0521 JUN 02 SUNSET: 1948																																				
01	CLR	NC						10.00		55	45	50	69	3	05	29.05	30.00	01	OVC	039						5.00	BR		70	68	69	93	0	00	28.89	29.82
04	CLR	NC						10.00		50	46	48	86	0	00	29.05	30.01	04	OVC	044						2.00	BR		68	67	67	96	0	00	28.88	29.81
07	CLR	NC						10.00		53	47	50	80	3	VR	29.06	30.02	07	OVC	006						2.50	BR		69	67	68	93	0	00	28.90	29.83
10	CLR	NC						8.00		65	48	56	54	6	03	29.07	30.02	10	BKN	018						7.00			76	67	70	74	3	VR	28.91	29.84
13	CLR	NC						10.00		73	47	58	40	0	00	29.02	29.97	13	SCT	NC						10.00			81	65	70	58	9	27	28.89	29.81
16	FEW	NC						9.00		74	51	61	45	7	21	29.00	29.96	16	CLR	NC						8.00			84	61	69	46	10	27	28.86	29.78
19	BKN	110						8.00		71	54	61	55	0	00	28.94	29.89	19	BKN	100						10.00			68	64	66	87	3	23	28.93	29.87
22	OVC	075						7.00		64	60	62	87	5	36	28.93	29.88	22	CLR	NC						6.00	BR		65	64	64	97	0	00	28.96	29.90
SUNRISE: 0521 JUN 03 SUNSET: 1949																																				
01	OVC	060						3.00	BR	63	61	62	93	3	10	28.90	29.83	01	OVC	001						0.25	FG		62	61	61	96	0	00	28.98	29.91
04	OVC	060						5.00	-RA BR	63	60	61	90	0	00	28.90	29.83	04	VV	001						<.25	FG		60	60	60	100	0	00	28.99	29.93
07	SCT	NC						1.75	BR	63	61	62	93	3	16	28.89	29.83	07	VV	001						<.25	FG		60	59	59	96	0	00	29.04	29.99
10	OVC	026						2.50	BR	65	62	63	90	5	26	28.88	29.82	10	CLR	NC						10.00			74	59	65	60	0	00	29.07	30.00
13	BKN	020						4.00	HZ	74	66	69	76	0	00	28.82	29.75	13	CLR	NC						10.00			79	55	64	44	7	27	29.05	29.98
16	OVC	022						2.00	-RA BR	70	67	68	90	6	23	28.80	29.74	16	CLR	NC						10.00			81	55	65	41	7	22	29.02	29.96
19	OVC	012						7.00		72	68	69	87	6	22	28.79	29.73	19	FEW	NC						10.00			79	53	63	41	3	VR	29.04	29.97
22	BKN	090						6.00	BR	70	67	68	90	5	20	28.82	29.76	22	CLR	NC						10.00			66	62	64	87	0	00	29.08	30.02
SUNRISE: 0521 JUN 04 SUNSET: 1949																																				
01	OVC	014						1.25	-RA BR	68	66	67	93	5	21	28.81	29.75	01	CLR	NC						10.00			61	58	59	90	0	00	29.08	30.02
04	OVC	015						5.00	BR	65	63	64	93	0	00	28.82	29.76	04	CLR	NC						7.00			59	57	58	93	0	00	29.09	30.03
07	OVC	029						2.50	BR	63	60	61	90	3	VR	28.87	29.81	07	CLR	NC						7.00			61	57	59	87	0	00	29.13	30.08
10	OVC	039						8.00		66	54	59	65	9	28	28.90	29.84	10	CLR	NC						10.00			74	59	65	60	0	00	29.11	30.06
13	OVC	045						6.00	HZ	66	54	59	65	7	VR	28.92	29.86	13	CLR	NC						10.00			83	58	67	43	8	23	29.07	30.01
16	OVC	043						8.00		67	52	58	59	6	28	28.94	29.88	16	CLR	NC						10.00			84	60	69	44	8	22	29.06	29.99
19	OVC	049						10.00		65	52	58	63	6	26	28.98	29.93	19	FEW	NC						10.00			78	63	68	60	3	VR	29.01	29.94
22	OVC	055						10.00		63	52	57	68	0	00	29.03	29.98	22	CLR	NC						10.00			73	65	68	76	3	23	29.03	29.96
SUNRISE: 0521 JUN 05 SUNSET: 1950																																				
01	OVC	050						8.00		58	54	56	87	0	00	29.03	29.98	01	CLR	NC						8.00			70	65	67	84	0	00	29.04	29.96
04	CLR	NC						5.00	BR	53	52	52	96	0	00	29.05	30.00	04	CLR	NC						8.00			69	64	66	84	3	20	29.04	29.96
07	CLR	NC						1.50	BR	53	52	52	96	0	00	29.08	30.04	07	SCT	NC						5.00	HZ		71	65	67	81	0	00	29.05	29.98
10	CLR	NC						7.00		67	53	59	61	3	VR	29.09	30.04	10	BKN	030						6.00	HZ		79	68	72	69	5	VR	29.04	29.96
13	SCT	NC						7.00		72	50	59	46	8	04	29.08	30.03	13	SCT	NC						5.00	HZ		85	70	75	61	8	23	28.98	29.90
16	CLR	NC						8.00		74	50	60	43	5	19	29.04	29.99	16	CLR	NC						5.00	HZ		83	71	75	67	5	32	28.94	29.86
19	CLR	NC						9.00		74	51	61	45	5	08	29.03	29.98	19	OVC	027						1.00	+RA BR		69	65	66	87	12	23	29.01	29.95
22	CLR	NC						7.00		62	56	59	81	0	00	29.08	30.03	22	CLR	NC						10.00			67	66	66	97	0	00	28.99	29.92
SUNRISE: 0520 JUN 06 SUNSET: 1951																																				
01	CLR	NC						6.00	BR	58	54	56	87	0	00	29.07	30.01	01	SCT	NC						2.50	BR		66	65	65	96	0	00	28.96	29.88
04	CLR	NC						4.00	BR	56	54	55	93	5	06	29.06	30.01	04	OVC	030						5.00	BR		67	66	66	97	0	00	28.94	29.87
07	CLR	NC						4.00	HZ	60	54	57	80	3	VR	29.08	30.03	07	OVC	023						6.00	BR		69	66	67	90	3	VR	28.97	29.91
10	CLR	NC						6.00	HZ	71	56	62	59	8	07	29.06	30.00	10	OVC	013						5.00	BR		73	70	71	90	3	VR	28.99	29.93
13	CLR	NC						7.00		80	59	67	49	0	00	28.98	29.92	13	SCT	NC						4.00	BR		77	73	74	88	6	VR	28.95	29.88
16	BKN	095						6.00	HZ	81	63	6																								

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JUNE 2003

OQT

WBAN # 53868

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT			OBSERVATION TIME (LST)	EFF CLD AMT Otkas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG		STATION	SEA LEVEL			SKY COVER	CEILING 100'S OF FT	OBSERVATION TIME (LST)	EFF CLD AMT Otkas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0520 JUN 13					SUNSET: 1954					SUNRISE: 0520 JUN 19					SUNSET: 1956														
01	SCT	NC	10.00		72	68	69	87	9	26	28.96	29.89	01	OVC	033	4.00	BR	70	68	69	93	0	00	28.92	29.85				
04	OVC	027	10.00		72	66	68	82	5	VR	28.95	29.87	04	OVC	042	4.00	BR	69	68	68	96	0	00	28.91	29.85				
07	OVC	027	5.00	BR	70	68	69	93	5	VR	28.99	29.92	07	OVC	039	3.00	BR	69	68	68	96	0	00	28.95	29.88				
10	OVC	025	8.00		74	68	70	82	6	21	29.02	29.95	10	BKN	090	8.00		76	66	69	72	0	00	28.96	29.89				
13	BKN	043	7.00		79	67	71	67	9	21	29.00	29.92	13	FEW	NC	6.00	HZ	80	66	71	62	3	VR	28.95	29.88				
16	CLR	NC	8.00		83	70	74	65	9	21	28.94	29.86	16	OVC	046	5.00	HZ	80	66	71	62	3	VR	28.90	29.83				
19	FEW	NC	9.00		78	69	72	74	5	21	28.95	29.88	19	CLR	NC	5.00	HZ	80	66	71	62	0	00	28.90	29.83				
22	BKN	019	8.00		74	69	71	85	3	23	28.99	29.92	22	FEW	NC	3.00	BR	73	69	70	87	0	00	28.95	29.87				
SUNRISE: 0520 JUN 14					SUNSET: 1954					SUNRISE: 0520 JUN 20					SUNSET: 1956														
01	OVC	023	10.00						0	00	29.01		01	FEW	NC	3.00	BR	69	65	66	87	0	00	28.94	29.87				
04	OVC	023	7.00						0	00	29.01		04	OVC	100	6.00	HZ	68	63	65	84	0	00	28.95	29.88				
07	OVC	011	5.00	HZ					3	VR	29.06		07	BKN	110	5.00	HZ	69	62	65	78	7	02	29.02	29.94				
10	OVC	025	6.00	HZ					0	00	29.08		10	CLR	NC	10.00		73	57	63	57	9	06	29.04	29.97				
13	OVC	023	6.00	HZ					5	VR	29.05		13	CLR	NC	10.00		78	52	63	40	8	08	29.03	29.96				
16	SCT	NC	7.00						0	00	28.99		16	CLR	NC	10.00		79	46	60	31	9	05	29.01	29.94				
19	CLR	NC	5.00	-RA					3	VR	28.99		19	CLR	NC	10.00		74	48	59	40	6	05	29.02	29.95				
22	CLR	NC	7.00						0	00	29.03		22	CLR	NC	10.00		64	53	58	68	0	00	29.07	30.01				
SUNRISE: 0520 JUN 15					SUNSET: 1955					SUNRISE: 0521 JUN 21					SUNSET: 1957														
01	BKN	025	7.00						3	22	29.03		01	CLR	NC	10.00		61	50	55	67	5	06	29.08	30.02				
04	OVC	008	5.00	HZ					3	VR	29.02		04	CLR	NC	9.00		54	52	53	93	0	00	29.08	30.02				
07	BKN	021	4.00	HZ					3	VR	29.05		07	CLR	NC	8.00		57	53	55	87	5	VR	29.10	30.06				
10	OVC	016	6.00	HZ					3	VR	29.07		10	CLR	NC	10.00		69	50	58	51	6	VR	29.09	30.04				
13	FEW	NC	10.00						7	23	29.03		13	CLR	NC	10.00		76	50	61	40	7	VR	29.06	30.00				
16	SCT	NC	10.00						7	22	29.01		16	CLR	NC	10.00		79	51	63	38	10	05	29.01	29.95				
19	FEW	NC	10.00						5	01	29.03		19	CLR	NC	10.00		75	50	61	42	6	VR	29.02	29.97				
22	BKN	050	5.00	-RA					3	21	29.06		22	CLR	NC	10.00		64	53	58	68	0	00	29.08	30.02				
SUNRISE: 0520 JUN 16					SUNSET: 1955					SUNRISE: 0521 JUN 22					SUNSET: 1957														
01	SCT	NC	3.00	BR	70	69	69	97	0	00	29.06		01	CLR	NC	10.00		58	54	56	87	3	VR	29.07	30.01				
04	VV	001	0.25	FG	69	68	68	96	0	00	29.05		04	CLR	NC	7.00		55	54	54	96	0	00	29.05	29.99				
07	VV	001	0.25	FG	68	68	68	100	3	VR	29.09		07	CLR	NC	8.00		59	55	57	87	3	06	29.08	30.03				
10	BKN	055	5.00	HZ	77	71	73	82	0	00	29.11	30.04	10	CLR	NC	10.00		74	54	62	50	6	VR	29.10	30.05				
13	SCT	NC	4.00	-RA BR	73	70	71	90	5	21	29.10	30.04	13	CLR	NC	10.00		80	55	65	42	9	06	29.07	30.01				
16	CLR	NC	9.00		79	69	72	72	0	00	29.06	29.99	16	CLR	NC	10.00		81	56	66	42	5	VR	29.01	29.95				
19	SCT	NC	6.00	BR	76	72	73	88	0	00	29.06	30.00	19	CLR	NC	10.00		80	58	66	47	5	08	29.01	29.95				
22	OVC	015	0.25	+RA FG	71	70	70	96	3	16	29.12	30.06	22	CLR	NC	10.00		67	61	63	81	0	00	29.05	29.98				
SUNRISE: 0520 JUN 17					SUNSET: 1956					SUNRISE: 0521 JUN 23					SUNSET: 1957														
01	BKN	002	3.00	BR	69	68	68	96	0	00	29.09	30.03	01	CLR	NC	8.00		62	60	61	93	0	00	29.04	29.98				
04	OVC	006	6.00	BR	69	67	68	93	0	00	29.08	30.01	04	CLR	NC	6.00	BR	59	58	58	96	3	05	29.05	29.99				
07	OVC	010	3.00	BR	69	67	68	93	3	VR	29.08	30.02	07	CLR	NC	6.00	BR	62	59	60	90	0	00	29.09	30.04				
10	OVC	015	8.00		75	68	70	79	5	VR	29.09	30.03	10	CLR	NC	10.00		76	60	66	58	6	VR	29.11	30.05				
13	FEW	NC	8.00		82	70	74	67	6	15	29.07	29.99	13	CLR	NC	10.00		83	56	66	40	9	06	29.08	30.02				
16	CLR	NC	6.00	HZ	82	70	74	67	6	18	29.03	29.95	16	CLR	NC	10.00		85	57	67	39	6	10	29.07	30.00				
19	CLR	NC	7.00		74	69	71	85	3	VR	29.05	29.98	19	CLR	NC	10.00		81	59	67	47	0	00	29.07	30.00				
22	CLR	NC	9.00		71	67	68	87	0	00	29.06	29.99	22	CLR	NC	8.00		68	61	64	78	0	00	29.08	30.03				
SUNRISE: 0520 JUN 18					SUNSET: 1956					SUNRISE: 0521 JUN 24					SUNSET: 1957														
01	BKN	120	6.00	BR	70	68	69	93	0	00	29.04	29.96	01	CLR	NC	6.00	BR	63	60	61	90	3	06	29.09	30.03				
04	CLR	NC	6.00	BR	70	68	69	93	0	00	29.04	29.96	04	CLR	NC	5.00	BR	61	59	60	93	0	00	29.10	30.04				
07	BKN	028	4.00	BR	71	68	69	90	0	00	29.03	29.96	07	CLR	NC	4.00	BR	63	61	62	93	0	00	29.16	30.11				
10	BKN	016	6.00	HZ	75	69	71	82	0	00	29.02	29.95	10	CLR	NC	8.00		78	61	67	56	3	VR	29.18	30.12				
13	SCT	NC	3.00	-RA BR	74	71	72	91	6	17	28.99	29.93	13	CLR	NC	8.00		85	59	68	42	0	00	29.17	30.11				
16	SCT	NC	6.00	-RA BR	71	69	70	94	3	05	28.95	29.88	16	CLR	NC	8.00		88	59	69	38	6	08	29.14	30.08				
19	BKN	055	6.00	BR	71	69	70	94	3	06	28.92	29.85	19	CLR	NC	8.00		85	62	70	46	5	08	29.14	30.08				
22	OVC	029	4.00	-RA BR	71	69	70	94	0	00	28.93	29.86	22	CLR	NC	7.00		72	65	67	79	0	00	29.18	30.11				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JUNE 2003

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)			
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Okltas			DRY BULB	DEW POINT	WET BULB		SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		
SUNRISE: 0522								JUN 25		SUNSET: 1957							
01	CLR	NC				5.00	BR	67	64	65	91	0	00	29.16	30.10		
04	CLR	NC				3.00	BR	64	63	63	96	0	00	29.17	30.11		
07	CLR	NC				2.00	BR	65	63	64	93	3	07	29.23	30.16		
10	CLR	NC				5.00	HZ	80	67	71	64	0	00	29.24	30.17		
13	CLR	NC				5.00	HZ	88	64	72	45	6	20	29.20	30.13		
16	CLR	NC				4.00	HZ	89	64	72	43	5	VR	29.14	30.07		
19	CLR	NC				3.00	HZ	85	65	72	51	5	19	29.11	30.04		
22	CLR	NC				3.00	HZ	74	68	70	82	0	00	29.15	30.08		

SUNRISE: 0522								JUN 26		SUNSET: 1957							
01	CLR	NC				2.00	BR	70	67	68	90	0	00	29.14	30.07		
04	CLR	NC				1.75	BR	67	66	66	97	0	00	29.13	30.06		
07	CLR	NC				1.25	BR	71	67	68	87	0	00	29.14	30.07		
10	CLR	NC				2.00	HZ	80	68	72	67	8	20	29.13	30.06		
13	CLR	NC				4.00	HZ	87	66	73	50	7	VR	29.09	30.01		
16	CLR	NC				4.00	HZ	88	65	73	46	9	20	29.03	29.96		
19	CLR	NC				3.00	HZ	83	68	73	61	7	27	29.01	29.93		
22	BKN	048				4.00	HZ	79	70	73	74	3	19	29.05	29.97		

SUNRISE: 0522								JUN 27		SUNSET: 1958							
01	BKN	060				4.00	BR	73	69	70	87	0	00	29.05	29.96		
04	BKN	095				3.00	-RA BR	71	70	70	96	0	00	29.03	29.95		
07	OVC	080				2.50	-RA BR	69	68	68	96	0	00	29.08	30.01		
10	BKN	008				10.00		67	64	65	91	6	VR	29.09	30.03		
13	OVC	023				9.00		71	67	68	87	5	35	29.08	30.02		
16	CLR	NC				9.00		74	66	69	76	3	VR	29.07	30.00		
19	OVC	026				8.00		71	63	66	76	5	07	29.06	30.00		
22	CLR	NC				7.00		66	63	64	90	0	00	29.08	30.03		

SUNRISE: 0523								JUN 28		SUNSET: 1958							
01	CLR	NC				4.00	BR	63	62	62	97	0	00	29.08	30.03		
04	FEW	NC				3.00	BR	60	59	59	96	0	00	29.06	30.00		
07	OVC	001				0.75	BR	61	60	60	97	0	00	29.09	30.04		
10	OVC	060				6.00	HZ	72	64	67	76	0	00	29.10	30.05		
13	SCT	NC				7.00		82	66	71	58	5	VR	29.10	30.04		
16	FEW	NC				6.00	HZ	84	63	70	49	7	VR	29.08	30.02		
19	CLR	NC				5.00	HZ	82	65	71	56	3	VR	29.08	30.02		
22	CLR	NC				4.00	HZ	73	68	70	84	0	00	29.14	30.08		

SUNRISE: 0523								JUN 29		SUNSET: 1958							
01	CLR	NC				3.00	BR	70	67	68	90	0	00	29.15	30.08		
04	CLR	NC				4.00	BR	69	67	68	93	0	00	29.16	30.09		
07	FEW	NC				3.00	BR	71	67	68	87	0	00	29.21	30.14		
10	BKN	023				4.00	HZ	79	68	72	69	5	VR	29.24	30.17		
13	FEW	NC				4.00	HZ	86	68	74	55	6	VR	29.21	30.14		
16	CLR	NC				5.00	HZ	87	67	73	51	7	17	29.19	30.12		
19	CLR	NC				3.00	HZ	81	70	73	69	6	09	29.19	30.12		
22	CLR	NC				3.00	BR	73	69	70	87	0	00	29.23	30.17		

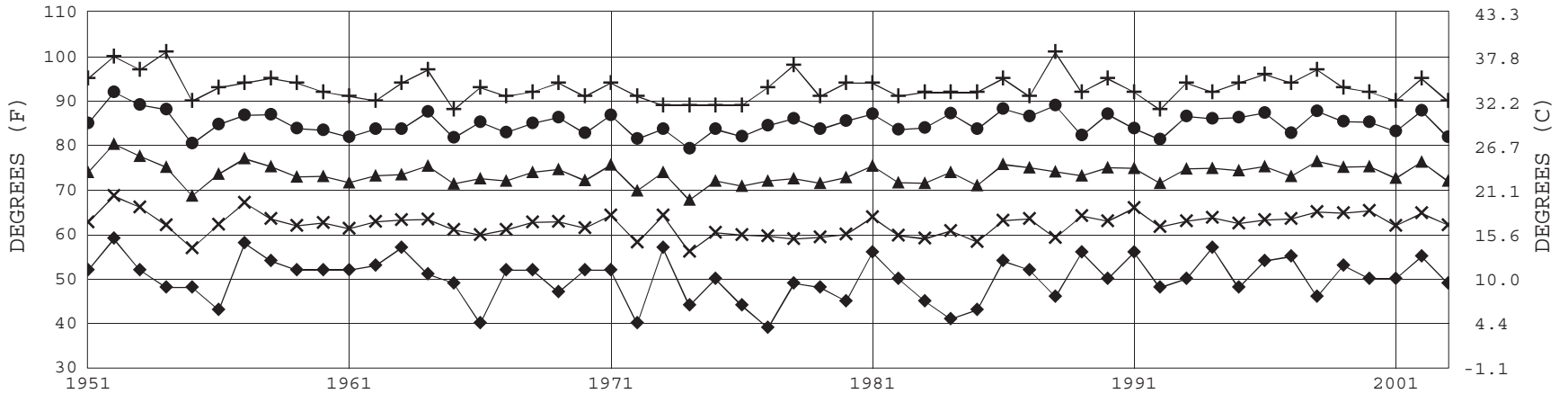
SUNRISE: 0523								JUN 30		SUNSET: 1958							
01	OVC	042				2.50	-RA BR	72	70	71	94	6	23	29.25	30.18		
04	BKN	002				0.50	FG	70	70	70	100	0	00	29.24	30.17		
07	OVC	015				1.00	BR	70	70	70	100	0	00	29.26	30.19		
10	BKN	023				3.00	HZ	77	71	73	82	5	20	29.28	30.22		
13	SCT	NC				3.00	-RA BR	75	72	73	90	6	18	29.26	30.21		
16	SCT	NC				8.00		76	71	73	85	0	00	29.23	30.17		
19	CLR	NC				7.00		76	72	73	88	5	16	29.22	30.16		
22	OVC	060				6.00	-RA BR	68	66	67	93	5	VR	29.28	30.22		

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)	DIRECTION	SPEED	DIRECTION
							STATION	SEA LEVEL					
01			66	62	64	89	29.02	29.96	5.53	1	0	0	0
02			65	62	63	91	29.02	29.95	5.40	0	0	0	0
03			64	62	62	92	29.02	29.95	5.41	1	1	22	
04			64	62	62	93	29.02	29.96	5.05	0	0	0	0
05			63	61	62	93	29.03	29.97	4.15	1	0	0	0
06			63	61	62	93	29.04	29.98	3.00	1	0	0	0
07			65	62	63	90	29.05	29.99	3.93	1	1	5	
08			68	62	64	83	29.06	30.00	5.56	1	1	7	
09			71	62	66	76	29.07	30.00	6.28	2	0	0	0
10			73	62	66	69	29.06	30.00	7.15	2	0	0	0
11			75	62	67	65	29.06	30.00	7.20	2	1	21	
12			77	62	68	62	29.05	29.99	7.14	2	2	22	
13			78	62	68	59	29.04	29.97	7.23	4	1	20	
14			80	61	68	56	29.03	29.96	7.85	4	2	19	
15			80	61	68	56	29.02	29.95	7.55	4	3	20	
16			80	62	68	56	29.01	29.94	7.70	5	2	20	
17			79	62	68	57	29.00	29.94	7.53	3	1	19	
18			78	62	68	61	29.00	29.94	7.71	3	1	8	
19			76	62	67	66	29.01	29.94	7.33	3	0	0	
20			73	64	67	73	29.01	29.95	7.07	1	0	0	
21			71	64	66	78	29.03	29.96	7.58	1	1	21	
22			69	64	66	84	29.04	29.98	6.60	1	0	0	
23			68	63	65	87	29.04	29.98	6.53	1	0	0	
24			67	63	65	87	29.04	29.97	6.19	1	0	0	

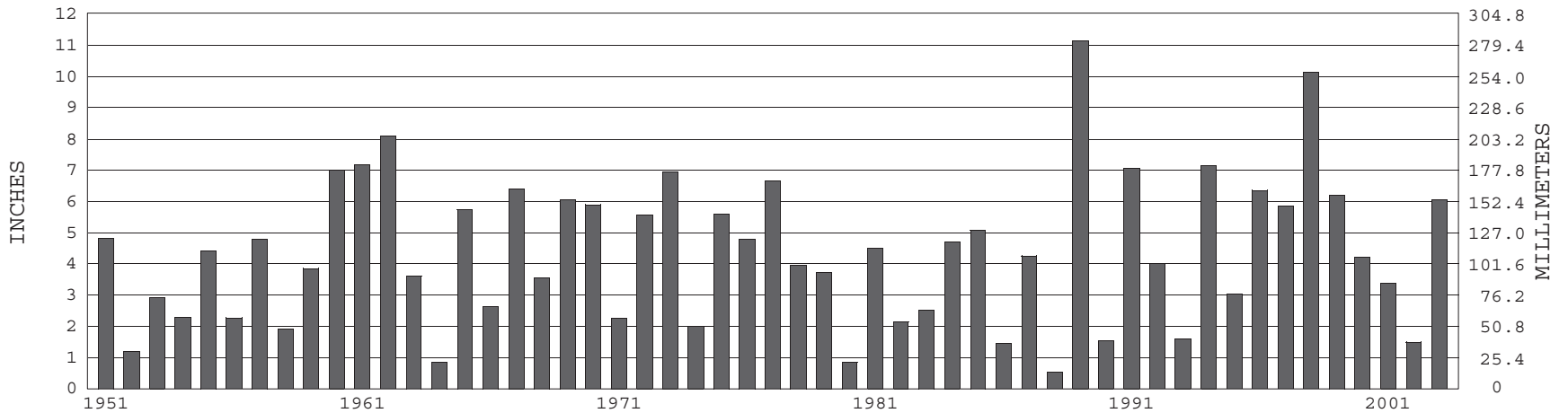
OAK RIDGE, TN JUNE TEMPERATURES



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

Long-Term (1951-2003) Mean: 73.6 1961-1990 Normal: 73.3

OAK RIDGE, TN JUNE PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 4.38

1961-1990 Normal: 4.64



JUNE 2003
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA – National Weather Service / Department Of Transportation – Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.

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