



# AUGUST 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 #: -

AUGUST 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					
																			SPEED	DIR	SPEED	DIR				
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24			
01	84	70	77	-1	71	72	0	12	RA BR HZ				0.10	29.10	30.02	1.0	20	2.4	23	33	15	34	01			
02	87	67	77	-1	70	72	0	12	RA FG+ BR HZ				T	29.08	30.01	0.2	04	2.3	14	02	10	29	02			
03	83	69	76	-1	71	72	0	11	RA FG+ BR HZ				0.73	29.04	29.97	0.8	21	1.7	13	30	9	20	03			
04	85	66	76	-1	68	70	0	11	RA FG BR				1.23	29.02	29.96	2.1	21	3.6	31*	21	24*	21	04			
05	86	66	76	-1	69	71	0	11	RA BR HZ				0.11	28.96	29.89	1.8	21	3.5	20	28	13	27	05			
06	86	68	77	0	69	71	0	12	FG+ BR HZ				0.00	28.95	29.88	1.7	22	2.7	20	22	15	21	06			
07	84	68	76	-1	68	70	0	11	RA BR HZ				T	28.93	29.86	1.0	03	1.7	10	07	8	07	07			
08	84	64	74*	-3	66	69	0	9	BR HZ				0.00	28.96	29.89	1.1	06	2.2	13	31	9	05	08			
09	85	64	75	-2	68	70	0	10	RA FG+ BR HZ				0.31	29.00	29.93	0.3	34	1.2	14	28	10	06	09			
10	84	67	76	-1	69	71	0	11	RA FG+ BR HZ				T	29.02	29.95	0.6	05	2.3	15	01	10	35	10			
11	82	67	75	-2	68	70	0	10	RA FG BR HZ				T	29.02	29.95	0.6	14	1.3	10	29	8	29	11			
12	86	63*	75	-2	67	70	0	10	RA FG BR HZ				0.01	29.11	30.05	1.1	07	1.5	12	09	7	08	12			
13	87	70	79	2	71	73	0	14	RA BR HZ				T	29.30	30.23	0.6	07	1.4	9	10	8	06	13			
14	92	70	81	4	72	75	0	16	FG+ BR HZ				0.00	29.38	30.32	0.6	06	2.0	13	07	10	06	14			
15	93	72	83	6	72	75	0	18	RA BR HZ				0.03	29.27		0.9	04	2.4	10	21	8	21	15			
16	87	72	80	4	72	74	0	15	RA BR				0.03	29.09	30.01	0.5	28	2.2	10	03	8	29	16			
17	89	68	79	3	71	72	0	14	RA FG+ BR HZ				0.04	29.02	29.95	0.4	17	1.9	12	26	9	28	17			
18	87	68	78	2			0	13	FG+ BR HZ				0.00	29.10		0.7	07	1.6	9	09	7	09	18			
19	89	67	78	2			0	13	BR HZ				0.00	29.16		1.0	06	2.4	9	16	8	05	19			
20	90	69	80	4	71	74	0	15	RA FG+ BR HZ				0.10	29.18	30.11	0.4	09	2.2	13	16	10	16	20			
21	89	74	82	6	73	75	0	17	RA BR HZ				0.01	29.15	30.07	0.5	23	2.1	15	21	10	21	21			
22	90	72	81	5	71	74	0	16	RA BR HZ				0.21	29.08	30.00	0.4	23	2.8	18	28	13	30	22			
23	90	67	79	4	69	71	0	14	FG+ BR HZ				0.00	29.08	30.00	1.2	06	2.4	12	01	9	01	23			
24	88	69	79	4	67	70	0	14	BR HZ				0.00	29.13	30.06	2.4	07	3.2	14	06	13	06	24			
25	90	65	78	3	68	71	0	13	BR HZ				0.00	29.17	30.10	0.6	22	1.5	12	22	9	22	25			
26	93	69	81	6	71	73	0	16	FG+ BR HZ				0.00	29.13	30.05	1.0	20	2.0	15	18	10	20	26			
27	93*	72	83*	8	73	75	0	18	BR HZ				0.00	29.10	30.02	0.4	21	1.5	12	28	9	17	27			
28	90	72	81	6	71	74	0	16	RA BR HZ				T	29.15	30.08	1.0	19	1.7	17	21	14	20	28			
29	91	69	80	5	71	74	0	15	BR				0.00	29.17	30.10	0.9	21	2.6	13	21	10	20	29			
30	89	75	82	8	72	74	0	17					0.00	29.22	30.14	1.3	22	3.4	13	22	10	21	30			
31	91	70	81	7	71	73	0	16	RA FG+ BR				0.95	29.24	30.17	1.3	19	3.3	30	19	22	19	31			
MONTHLY AVERAGES											TOTALS-->				<-- MONTHLY AVERAGES											
DEPARTURE FROM NORMAL															SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.56 DATE :03-04				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.38 14 0853							
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH:				MINIMUM				: 29.82 07 1653							
HEATING: 0 0 0 0											NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 11				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 13			
COOLING: 420 73 1145 48															MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 8			
															THUNDERSTORMS: 0				HEAVY FOG: 12				SNOWFALL ≥ 1.0 INCH: :			

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# OAK RIDGE, TN

AUGUST 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	0.10											01			0.10	
02				0.01									02												02	0.01		T	
03	T						T	0.46	0.05	T			03					0.06						03			0.73		
04		T	0.23	0.60									04					0.08	0.32				0.06	04		0.10	1.23		
05	T	0.02	0.08	0.01									05											05			0.11		
06													06											06			0.00		
07													07											07			T		
08													08			T	T					T		08			0.00		
09													09	0.01	T							0.04	0.26	09			0.31		
10													10			T		T						10			T		
11						0.01							11			T								11	0.01		T		
12													12								0.01			12			0.01		
13													13											13			T		
14													14											14			0.00		
15													15									0.03		15			0.03		
16													16			T	T							16			0.03		
17													17	0.03	T	T	T							17			0.04		
18													18							0.01				18			0.00		
19													19											19			0.00		
20													20											20	0.00		0.10		
21	0.06												21											21	0.06		0.01		
22													22											22			0.21		
23													23			0.21								23			0.00		
24													24											24			0.00		
25													25											25			0.00		
26													26											26			0.00		
27													27											27			0.00		
28													28											28			T		
29													29											29			0.00		
30													30											30			0.00		
31													31							0.12	T	0.02		31	0.67		0.95		

## MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.25	.40	.52	.55	.59	.77	.81	.83	.83	.83	.83	.83
Ending Date	04	31	04	04	04	04	04	04	04	04	04	04
Ending Time (Hour/Min)	0317	2336	0320	0322	0325	0322	0325	0325	0325	0325	0325	0325

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 AUGUST 2003

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
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							.75	10.00	
02							.25	10.00	
03							.25	10.00	
04							.50	10.00	
05							2.50	10.00	
06							.25	10.00	
07							2.50	9.00	
08							1.75	7.00	
09							<.25	6.00	
10							<.25	7.00	
11							.50	5.00	
12							.50	5.00	
13							1.50	9.00	
14							.25	10.00	
15							.00	9.00	
16							5.00	10.00	
17							.25	10.00	
18							.25	10.00	
19							3.00	9.00	
20							.25	7.00	
21							1.75	7.00	
22							1.00	10.00	
23							.25	10.00	
24							3.00	10.00	
25							4.00	10.00	
26							<.25	8.00	
27							1.75	6.00	
28							1.50	8.00	
29							4.00	10.00	
30							8.00	10.00	
31							.25	10.00	
<b>MONTHLY AVGS</b>							1.77	8.77	
<b>SUNSHINE (MINUTES)</b>									
Total:                      Possible: Percent Possible:									
<b>NUMBER OF DAYS WITH:</b>									
<b>SKY CONDITION</b>									
CLR   PTLY CLDY   CLOUDY   MISSING 31									
<b>MINIMUM VISIBILITY (MILES)</b>									
<=0.25    <=3.0    >=7.0 11            26            1									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

AUGUST 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 Oktas	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 Oktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0544					AUG 01				SUNSET: 1943				SUNRISE: 0549					AUG 07				SUNSET: 1937							
01	OVC	013		8.00	BR	73	71	72	94	5	VR	29.08	30.01	01	BKN	060		9.00	71	69	70	94	0	00	28.93	29.85			
04	OVC	004		1.25	BR	71	71	71	100	3	21	29.08	30.01	04	OVC	005		7.00	70	69	69	97	0	00	28.91	29.84			
07	OVC	006		3.00	BR	73	71	72	94	0	00	29.10	30.04	07	BKN	060		2.50	70	69	69	97	0	00	28.94	29.87			
10	OVC	019		6.00	HZ	79	72	74	79	6	22	29.13	30.06	10	CLR	NC		4.00	75	68	70	79	0	00	28.96	29.89			
13	FEW	NC		10.00		70	69	69	97	0	00	29.12	30.07	13	CLR	NC		5.00	83	66	72	57	7	35	28.93	29.85			
16	CLR	NC		10.00		82	69	73	65	0	00	29.07	29.99	16	FEW	NC		5.00	83	67	72	59	0	00	28.90	29.82			
19	CLR	NC		10.00		81	70	73	69	3	13	29.06	29.98	19	BKN	080		4.00	76	68	71	77	3	05	28.92	29.85			
22	CLR	NC		9.00		73	71	72	94	0	00	29.09	30.03	22	CLR	NC		5.00	71	68	69	90	0	00	28.96	29.89			
SUNRISE: 0545					AUG 02				SUNSET: 1942				SUNRISE: 0549					AUG 08				SUNSET: 1936							
01	CLR	NC		6.00	BR	70	69	69	97	0	00	29.08	30.01	01	CLR	NC		3.00	68	67	67	96	0	00	28.95	29.87			
04	OVC	001		0.50	FG	67	67	67	100	0	00	29.08	30.01	04	CLR	NC		2.50	65	64	64	97	0	00	28.93	29.86			
07	OVC	001		0.25	FG	70	70	70	100	0	00	29.10	30.03	07	CLR	NC		2.00	65	64	64	97	0	00	28.98	29.92			
10	OVC	012		4.00	HZ	76	71	73	85	5	VR	29.10	30.03	10	CLR	NC		5.00	76	67	70	74	6	VR	28.99	29.91			
13	FEW	NC		6.00	HZ	86	74	77	67	0	00	29.08	30.00	13	CLR	NC		5.00	83	67	72	59	6	VR	28.96	29.88			
16	FEW	NC		7.00		84	70	74	63	0	00	29.05	29.97	16	CLR	NC		5.00	82	65	71	56	6	05	28.93	29.86			
19	CLR	NC		10.00		78	67	71	69	8	34	29.06	29.99	19	CLR	NC		5.00	79	67	71	67	0	00	28.94	29.88			
22	BKN	110		10.00		74	68	70	82	0	00	29.09	30.03	22	CLR	NC		4.00	72	68	69	87	0	00	29.00	29.93			
SUNRISE: 0546					AUG 03				SUNSET: 1941				SUNRISE: 0550					AUG 09				SUNSET: 1935							
01	SCT	NC		6.00	BR	71	69	70	94	0	00	29.07	29.99	01	CLR	NC		2.50	68	67	67	96	0	00	28.98	29.90			
04	OVC	030		6.00	BR	71	69	70	94	0	00	29.07	29.99	04	CLR	NC		2.00	66	65	65	96	0	00	28.98	29.91			
07	BKN	025		4.00	-RA BR	71	70	70	96	0	00	29.06	29.99	07	VV	001		<.25	65	65	65	100	0	00	29.02	29.95			
10	OVC	004		5.00	BR	71	70	70	96	3	36	29.08	30.02	10	CLR	NC		4.00	78	69	72	74	0	00	29.02	29.95			
13	OVC	018		5.00	HZ	78	71	73	79	6	21	29.06	29.98	13	SCT	NC		5.00	84	67	73	57	3	VR	29.01	29.93			
16	OVC	033		10.00		82	71	74	69	3	VR	28.99	29.91	16	CLR	NC		5.00	82	68	73	63	3	01	28.97	29.90			
19	BKN	037		4.00	BR	77	76	76	96	0	00	29.00	29.93	19	CLR	NC		5.00	81	69	73	67	0	00	28.97	29.90			
22	SCT	NC		3.00	BR	74	73	73	97	0	00	29.04	29.97	22	OVC	047		2.00	75	73	74	94	0	00	29.02	29.94			
SUNRISE: 0546					AUG 04				SUNSET: 1940				SUNRISE: 0551					AUG 10				SUNSET: 1934							
01	OVC	035		6.00	BR	72	70	71	94	10	18	29.03	29.96	01	OVC	001		0.25	71	71	71	100	0	00	29.02	29.94			
04	FEW	NC		6.00	BR	66	66	66	100	0	00	29.04	29.97	04	FEW	NC		1.50	68	68	68	100	0	00	29.01	29.94			
07	CLR	NC		5.00	BR	68	66	67	93	0	00	29.07	30.00	07	VV	001		<.25	67	67	67	100	0	00	29.06	29.99			
10	FEW	NC		10.00		77	68	71	74	7	27	29.07	29.99	10	CLR	NC		3.00	77	71	73	82	3	VR	29.06	29.98			
13	BKN	034		10.00		81	70	73	69	6	VR	29.03	29.95	13	BKN	065		6.00	79	66	70	65	8	36	29.04	29.96			
16	CLR	NC		10.00		84	67	73	57	7	VR	28.97	29.89	16	FEW	NC		7.00	83	64	71	53	6	09	29.00	29.93			
19	BKN	120		8.00		69	67	68	93	0	00	29.00	29.94	19	CLR	NC		4.00	75	69	71	82	3	VR	29.00	29.93			
22	CLR	NC		4.00	BR	68	68	68	100	0	00	28.99	29.92	22	BKN	120		4.00	71	69	70	94	0	00	29.02	29.96			
SUNRISE: 0547					AUG 05				SUNSET: 1939				SUNRISE: 0552					AUG 11				SUNSET: 1933							
01	BKN	110		6.00	-RA BR	69	68	68	96	5	21	28.97	29.90	01	SCT	NC		2.50	69	68	68	96	0	00	29.02	29.95			
04	SCT	NC		9.00		67	66	66	97	0	00	28.94	29.87	04	CLR	NC		2.50	68	67	67	96	0	00	29.01	29.93			
07	OVC	023		9.00		67	65	66	93	0	00	28.99	29.93	07	BKN	003		1.00	68	68	68	100	0	00	29.03	29.96			
10	BKN	011		5.00	HZ	75	70	72	84	3	VR	28.98	29.91	10	OVC	014		4.00	74	68	70	82	0	00	29.05	29.98			
13	SCT	NC		8.00		82	71	74	69	9	18	28.98	29.90	13	SCT	NC		2.50	81	68	72	65	6	VR	29.02	29.94			
16	CLR	NC		8.00		86	71	76	61	7	21	28.92	29.83	16	CLR	NC		4.00	79	69	72	72	5	VR	28.99	29.92			
19	FEW	NC		9.00		81	71	74	72	0	00	28.92	29.85	19	CLR	NC		3.00	77	70	72	79	0	00	28.98	29.91			
22	BKN	070		6.00	BR	74	72	73	94	0	00	28.95	29.88	22	CLR	NC		2.50	71	69	70	94	0	00	29.03	29.96			
SUNRISE: 0548					AUG 06				SUNSET: 1938				SUNRISE: 0553					AUG 12				SUNSET: 1932							
01	FEW	NC		3.00	BR	71	70	70	96	0	00	28.96	29.88	01	CLR	NC		2.00	67	66	66	97	0	00	29.05	29.98			
04	BKN	003		2.00	BR	69	68	68	96	0	00	28.94	29.86	04	CLR	NC		2.50	65	64	64	97	0	00	29.07	30.00			
07	OVC	004		2.00	BR	71	70	70	96	0	00	28.98	29.91	07	VV	002		1.00	64	64	64	100	0	00	29.09	30.04			
10	BKN	040		3.00	HZ	77	71	73	82	5	VR	28.99	29.91	10	CLR	NC		5.00	74	67	69	79	5	12	29.11	30.05			
13	CLR	NC		10.00		86	64	71	48	0	00	28.95	29.87	13	FEW	NC		5.00	83	68	73	61	0	00	29.11	30.05			
16	CLR	NC		7.00		77	69	72	77	9	23	28.94	29.86	16	CLR	NC		4.00	85	68	73	57	6	07	29.09	30.03			
19	CLR	NC		10.00		76	69	71	79	6	22	28.92	29.85	19	BKN	049		4.00	80	70	73	71	0	00	29.13	30.07			
22	FEW	NC		10.00		72	69	70	91	0	00	28.95	29.88	22	CLR	NC		3.00	73	71	72	94	0	00	29.17	30.11			



# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

AUGUST 2003

OQT

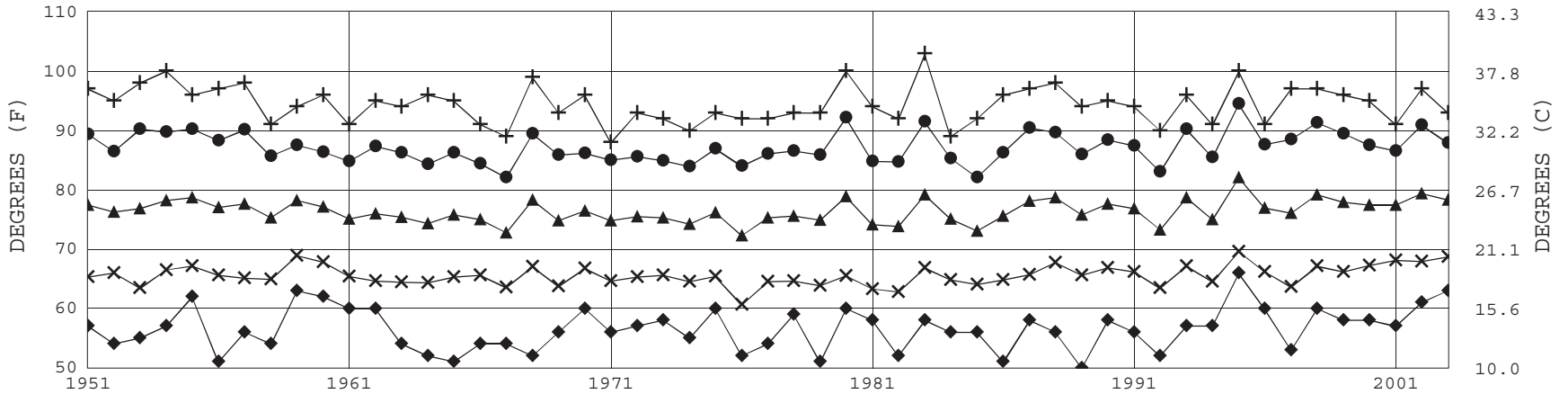
WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		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		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: 0603								AUG 25		SUNSET: 1916								SUNRISE: 0608								AUG 31		SUNSET: 1908							
01	CLR	NC			6.00	BR		69	66	67	90	0	00	29.14	30.07	01	CLR	NC			10.00			75	72	73	90	0	00	29.24	30.16				
04	CLR	NC			5.00	BR		67	65	66	93	0	00	29.16	30.09	04	BKN	060			8.00			73	71	72	94	0	00	29.23	30.16				
07	CLR	NC			4.00	BR		66	64	65	93	0	00	29.19	30.13	07	CLR	NC			6.00	BR		73	71	72	94	0	00	29.26	30.19				
10	CLR	NC			10.00			79	66	70	65	5	18	29.22	30.15	10	FEW	NC			10.00			81	71	74	72	7	27	29.27	30.20				
13	FEW	NC			6.00	HZ		86	69	74	57	8	21	29.18	30.11	13	FEW	NC			10.00			87	72	76	61	7	20	29.23	30.16				
16	CLR	NC			8.00			89	67	74	48	3	VR	29.13	30.06	16	SCT	NC			10.00			89	71	76	55	6	VR	29.17	30.09				
19	CLR	NC			7.00			85	70	75	61	3	21	29.12	30.06	19	OVC	011			0.75	+RA BR		71	70	70	96	7	VR	29.24	30.18				
22	CLR	NC			6.00	BR		75	72	73	90	0	00	29.16	30.09	22	SCT	NC			9.00			71	70	70	96	5	07	29.27	30.21				
SUNRISE: 0604								AUG 26		SUNSET: 1914								3-HOURLY OBSERVATION NOTES																	
01	CLR	NC			3.00	BR		72	70	71	94	0	00	29.15	30.07	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	CLR	NC			2.50	BR		70	69	69	97	0	00	29.15	30.07	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																			
07	VV	001			<.25	FG		69	69	69	100	0	00	29.17	30.10	NC= No ceiling detected.																			
10	CLR	NC			5.00	HZ		80	71	74	74	0	00	29.17	30.11	& = Original observation contained additional weather elements.																			
13	CLR	NC			6.00	HZ		88	71	76	57	8	24	29.13	30.06	See page 3 for additional notes.																			
16	CLR	NC			8.00			92	69	76	47	6	20	29.08	30.00																				
19	CLR	NC			7.00			87	71	76	59	3	21	29.06	29.98																				
22	CLR	NC			5.00	HZ		79	74	75	85	0	00	29.11	30.03																				
SUNRISE: 0604								AUG 27		SUNSET: 1913																									
01	CLR	NC			4.00	BR		75	73	74	94	0	00	29.11	30.03																				
04	CLR	NC			4.00	BR		74	72	73	94	0	00	29.09	30.01																				
07	CLR	NC			1.75	BR		72	71	71	97	0	00	29.13	30.05																				
10	CLR	NC			4.00	HZ		83	72	75	70	6	20	29.14	30.06																				
13	SCT	NC			5.00	HZ		90	73	78	58	6	VR	29.10	30.02																				
16	CLR	NC			5.00	HZ		90	71	77	54	0	00	29.05	29.96																				
19	CLR	NC			4.00	HZ		84	74	77	72	0	00	29.06	29.98																				
22	CLR	NC			3.00	BR		78	75	76	90	0	00	29.08	30.01																				
SUNRISE: 0605								AUG 28		SUNSET: 1912																									
01	CLR	NC			4.00	BR		78	74	75	87	0	00	29.12	30.04																				
04	BKN	003			1.50	BR		74	73	73	97	0	00	29.12	30.05																				
07	BKN	005			2.00	BR		74	72	73	94	0	00	29.16	30.09																				
10	CLR	NC			5.00	HZ		81	72	75	74	0	00	29.19	30.12																				
13	FEW	NC			6.00	HZ		89	71	76	55	9	17	29.16	30.08																				
16	CLR	NC			5.00	HZ		87	71	76	59	5	VR	29.13	30.06																				
19	CLR	NC			8.00			78	69	72	74	3	16	29.12	30.05																				
22	CLR	NC			6.00	BR		74	70	71	88	0	00	29.17	30.10																				
SUNRISE: 0606								AUG 29		SUNSET: 1910																									
01	CLR	NC			5.00	BR		71	69	70	94	0	00	29.16	30.09																				
04	CLR	NC			4.00	BR		69	68	68	96	0	00	29.17	30.10																				
07	BKN	031			4.00	BR		71	69	70	94	0	00	29.21	30.15																				
10	BKN	036			8.00			79	71	74	77	5	VR	29.23	30.16																				
13	BKN	043			10.00			86	71	76	61	7	21	29.17	30.10																				
16	BKN	047			10.00			89	70	76	53	6	VR	29.12	30.05																				
19	CLR	NC			10.00			84	73	76	70	3	VR	29.13	30.06																				
22	CLR	NC			9.00			78	75	76	90	3	16	29.18	30.11																				
SUNRISE: 0607								AUG 30		SUNSET: 1909																									
01	CLR	NC			9.00			76	72	73	88	0	00	29.19	30.11																				
04	OVC	040			9.00			76	72	73	88	0	00	29.20	30.13																				
07	BKN	027			9.00			76	71	73	85	0	00	29.23	30.15																				
10	OVC	035			10.00			79	71	74	77	6	VR	29.26	30.19																				
13	FEW	NC			10.00			84	72	76	67	6	VR	29.23	30.16																				
16	BKN	055			10.00			88	70	75	55	5	19	29.18	30.10																				
19	CLR	NC			10.00			84	71	75	65	3	22	29.19	30.11																				
22	CLR	NC			10.00			77	73	74	88	0	00	29.24	30.17																				

## SUMMARY BY HOUR

HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (INCHES, HG)		VISIBILITY (MILES)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			72	70	71	93	29.10	30.03	4.99	0	0	0
02			71	70	70	95	29.10	30.03	4.50	1	0	0
03			71	69	70	95	29.10	30.03	4.05	1	0	0
04			70	69	69	96	29.10	30.02	4.01	0	0	0
05			70	68	69	96	29.10	30.03	3.43	1	0	0
06			70	69	69	96	29.12	30.04	3.44	0	0	0
07			70	69	69	96	29.13	30.06	2.65	0	0	0
08			72	69	70	92	29.14	30.07	3.90	1	0	0
09			77	70	72	82	29.14	30.06	5.60	1	0	0
10			78	70	73	77	29.14	30.06	6.03	2	1	22
11			81	71	74	71	29.14	30.07	6.61	1	1	9
12			83	70	74	65	29.13	30.06	6.90	2	1	14
13			85	70	74	62	29.12	30.04	7.34	3	1	19
14			85	70	74	61	29.10	30.02	7.34	2	0	0
15			85	70	75	61	29.08	30.00	7.27	2	0	0
16			86	69	74	58	29.07	29.99	7.58	2	1	12
17			85	70	74	60	29.06	29.99	7.87	3	1	18
18			84	70	74	65	29.06	29.99	7.53	3	1	15
19			80	71	74	73	29.07	30.00	6.70	2	0	0
20			78	71	74	81	29.09	30.02	7.10	1	0	0
21			76	71	73	86	29.10	30.02	6.68	1	0	0
22			75	71	72	89	29.11	30.03	6.05	1	0	0
23			73	71	71	91	29.12	30.04	5.50	1	1	7
24			73	70	71	93	29.12	30.04	5.15	0	0	0

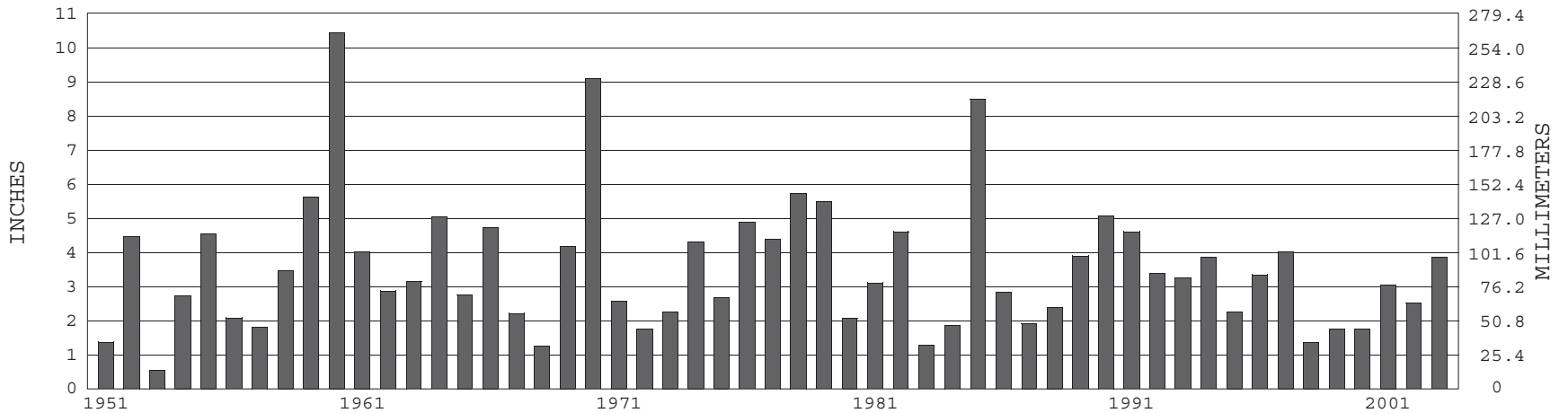
### OAK RIDGE, TN AUGUST TEMPERATURES



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

Long-Term (1951-2003) Mean: 76.4      1961-1990 Normal: 76.2

### OAK RIDGE, TN AUGUST PRECIPITATION



Long-Term (1951-2003) Mean Monthly Total: 3.53

1961-1990 Normal: 3.39



AUGUST 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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