



AUGUST 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 #: -

AUGUST 2004
 OAK RIDGE, TN

DATE	TEMPERATURE °F						DEG DAYS BASE 65°		WEATHER	SNOW/ICE ON GND(IN)		PRECIPITATION (INCHES)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								DATE																																						
	MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	HEATING	COOLING		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION	AVERAGE SEA LEVEL	RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM																																											
																			5-SEC		2-MIN																																									
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24																																							
01	90	71	81	3	71	73	0	16	BR				0.00	29.09	30.02	1.4	03	2.1	9	36	8	36	01																																							
02	91	71	81	3	70	73	0	16	BR HZ				0.00	28.99	29.91	0.7	04	2.3	13	01	9	02	02																																							
03	91	68	80	3	67	71	0	15	BR HZ				0.00	28.97	29.89	1.5	06	2.3	14	06	12	08	03																																							
04	91	67	79	2	68	71	0	14	FG+ BR HZ				0.00	28.95	29.87	0.6	21	2.9	15	35	10	35	04																																							
05	80	66	73	-4	67	69	0	8	RA BR				0.29	28.92	29.84	1.7	04	3.3	22*	01	15	01	05																																							
06	77	58	68	-9	54	60	0	3					0.00	29.05	29.99	3.4	03	5.3	18	02	14	01	06																																							
07	80	53*	67	-10	52	58	0	2					0.00	29.13	30.08	1.6	06	2.7	14	06	12	08	07																																							
08	82	54	68	-9	58	62	0	3	BR				0.00	29.20	30.15	1.3	16	2.1	12	17	9	18	08																																							
09	80	60	70	-7	61	64	0	5	BR				0.00	29.21	30.15	0.6	19	1.4	10	26	8	26	09																																							
10	87	60	74	-3	63	67	0	9	RA FG+ BR				0.01	29.09	30.03	1.7	21	3.4	14	20	10	19	10																																							
11	85	69	77	0	67	69	0	12	RA BR HZ				0.15	29.03	29.95	2.3	21	4.6	18	26	13	28	11																																							
12	69	61	65	-12	60	62	0	0	RA BR				0.54	29.00	29.94	1.7	05	3.0	10	06	8	06	12																																							
13	74	54	64*	-13	52	57	1	0	BR				0.00	29.11		1.1	02	2.3	14	05	9	35	13																																							
14	79	58	69	-8	54	60	0	4					0.00	29.18	30.13	2.6	03	4.1	15	36	12	02	14																																							
15	81	60	71	-6	57	62	0	6					0.00	29.24	30.19	1.0	06	2.1	15	08	12	07	15																																							
16	82	60	71	-5	59	64	0	6	BR HZ				0.00	29.25	30.19	0.7	05	1.6	13	06	10	06	16																																							
17	85	63	74	-2	61	66	0	9	BR HZ				0.00	29.15	30.09	0.4	33	2.1	13	18	9	16	17																																							
18	87	62	75	-1	63	67	0	10	BR HZ				0.00	29.08	30.02	1.6	23	2.6	14	20	10	20	18																																							
19	91*	70	81*	5	67	71	0	16	BR HZ				0.00	29.14	30.06	1.2	21	3.1	14	23	12	20	19																																							
20	83	68	76	0	69	71	0	11	RA BR HZ				0.08	29.10	30.03	1.1	21	3.6	16	22	10	22	20																																							
21	84	69	77	1	67	70	0	12	RA FG BR				0.59	29.03	29.96	1.2	21	5.9	16	26	10	36	21																																							
22	80	64	72	-4	64	67	0	7	BR				0.00	29.07	30.01	0.7	05	2.9	12	24	8	28	22																																							
23	85	68	77	2	67	70	0	12	RA BR HZ				T	29.08	30.01	0.4	21	1.8	12	19	9	16	23																																							
24	81	67	74	-1	68	70	0	9	RA FG+ BR				0.72	29.14	30.07	0.3	03	1.5	20	29	13	28	24																																							
25	85	68	77	2	69	70	0	12	RA FG BR HZ				0.03	29.19	30.12	0.6	18	1.9	17	22	12	23	25																																							
26	83	69	76	1	68	71	0	11	BR HZ				0.00	29.20	30.14	1.1	21	2.6	14	21	12	20	26																																							
27	89	67	78	3	69	71	0	13	FG+ BR HZ				0.00	29.19	30.12	0.5	22	1.4	13	17	9	21	27																																							
28	90	70	80	5	70	72	0	15	RA FG+ BR HZ				0.26	29.07	29.99	1.1	18	2.8	20	20	15*	20	28																																							
29	86	68	77	2	69	71	0	12	RA FG BR				0.18	29.00	29.93	0.3	16	1.3	12	28	9	01	29																																							
30	85	68	77	3	69	71	0	12	RA FG+ BR				0.06	29.05	29.98	0.4	01	1.6	13	35	9	33	30																																							
31	86	69	78	4	66	70	0	13	BR HZ				0.00	29.16	30.09	2.0	05	4.0	15	06	12	06	31																																							
83.8										64.5		74.2		■ ■		64.1		67.4		0.0		9.5		< MONTHLY AVERAGES		TOTALS-->		2.91		29.10		0.2		36		2.7		<-- MONTHLY AVERAGES																								
-3.4				-.7		-2.0		■ ■		<-----DEPARTURE FROM NORMAL----->										-.48		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																																								
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.72 DATE: 24									SEA LEVEL PRESSURE									DATE			TIME																																
MONTHLY TOTAL DEPARTURE									SEASON TO DATE TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL:									MAXIMUM MINIMUM									: 30.25			16 0753																							
HEATING: 1 1									COOLING: 293 -54									1275 178									NUMBER OF DAYS WITH =>									MAXIMUM TEMP ≥ 90: 6									MINIMUM TEMP ≤ 32: 0									PRECIPITATION ≥ 0.01 INCH: 11								
																											MAXIMUM TEMP ≤ 32: 0									MINIMUM TEMP ≤ 0: 0									PRECIPITATION ≥ 0.10 INCH: 7																	
																																				THUNDERSTORMS: 0									HEAVY FOG: 6									SNOWFALL ≥ 1.0 INCH: :								

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

AUGUST 2004

OQT

WBAN # 53868

DATE	FOR HOUR (LST) ENDING AT												DATE	FOR HOUR (LST) ENDING AT												DATE	Sum if Different (See Note)	2400 LST	
	1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17	18	19	20	21	22	23	24			Water	Equiv.
01													01												01		0.00		
02													02												02		0.00		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.29		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.01		
11													11												11		0.15		
12	0.02	0.01	T			0.01		T	0.01	0.03	0.26	0.18	0.01	12	0.02	T				0.07	T	0.02	T		12		0.54		
13														13											13		0.00		
14														14											14		0.00		
15														15											15		0.00		
16														16											16		0.00		
17														17											17		0.00		
18														18											18		0.00		
19														19											19		0.00		
20														20	T	0.02	T			0.01	0.04	0.01	T		20		0.08		
21			T	T	T	0.01	0.01	0.51	0.05	0.01				21											21		0.59		
22														22											22		0.00		
23														23											23		T		
24														24	0.72	T									24		0.72		
25														25							0.03	T			25		0.03		
26														26											26		0.00		
27														27											27		0.00		
28														28											28		0.26		
29	0.08	0.02												29											29		0.18		
30														30	T	T				0.08	T			30		0.06			
31														31											31		0.00		

MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	.25	.44	.61	.71	.72	.72	.72	.72	.72	.72	.72	.72
Ending Date	24	24	24	24	24	24	24	24	24	24	24	24
Ending Time (Hour/Min)	1216	1216	1218	1219	1221	1221	1221	1221	1221	1221	1221	1221

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 2004

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

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

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

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

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

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

ADDITIONAL NOTES:

DATE	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR–SS		MN–MN		MINIMUM	MAXIMUM	
			CEILOMETER	SATELLITE	CEILOMETER	SATELLITE			
01							1.50	10.00	
02							3.00	10.00	
03							1.75	10.00	
04							.25	10.00	
05							1.00	10.00	
06							.00	10.00	
07							8.00	10.00	
08							4.00	10.00	
09							1.50	10.00	
10							<.25	10.00	
11							2.00	10.00	
12							1.75	10.00	
13							6.00	10.00	
14							10.00	10.00	
15							7.00	10.00	
16							2.50	10.00	
17							2.50	7.00	
18							1.50	10.00	
19							4.00	10.00	
20							.75	10.00	
21							.50	10.00	
22							6.00	10.00	
23							3.00	10.00	
24							.25	10.00	
25							.50	10.00	
26							2.50	7.00	
27							<.25	8.00	
28							<.25	10.00	
29							.50	10.00	
30							.25	10.00	
31							4.00	10.00	
MONTHLY AVGS							2.82	9.74	
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 22 4									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2004

OQT

WBAN # 53868

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)					
	SKY COVER	CEILING 100'S OF FT		OBSERVATION TIME (LST)	EFF CLD AMT Oktas	VISIBILITY (MILES)	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	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG
SUNRISE: 0545				AUG 01				SUNSET: 1942				SUNRISE: 0549				AUG 07				SUNSET: 1936							
01	OVC	006		7.00		73	71	72	94	3	01	29.10	30.03	01	CLR	NC		10.00	57	52	54	83	0	00	29.11	30.06	
04	OVC	003		5.00	BR	71	70	70	96	0	00	29.08	30.02	04	CLR	NC		10.00	54	51	52	90	3	07	29.11	30.07	
07	OVC	001		1.50	BR	71	70	70	96	0	00	29.11	30.05	07	SCT	NC		10.00	56	52	54	87	0	00	29.15	30.11	
10	OVC	013		10.00		78	72	74	82	3	VR	29.13	30.06	10	CLR	NC		10.00	69	53	60	57	7	VR	29.17	30.12	
13	CLR	NC		10.00		86	71	76	61	3	05	29.09	30.02	13	CLR	NC		10.00	75	49	60	40	7	VR	29.13	30.09	
16	BKN	050		10.00		90	71	77	54	7	36	29.04	29.96	16	CLR	NC		10.00	78	49	61	36	0	00	29.10	30.05	
19	CLR	NC		10.00		83	71	75	67	3	02	29.04	29.96	19	CLR	NC		10.00	75	52	62	45	0	00	29.09	30.05	
22	CLR	NC		10.00		77	72	74	85	0	00	29.07	29.98	22	CLR	NC		10.00	62	57	59	84	0	00	29.14	30.09	
SUNRISE: 0545				AUG 02				SUNSET: 1941				SUNRISE: 0550				AUG 08				SUNSET: 1935							
01	SCT	NC		7.00		74	71	72	91	0	00	29.03	29.95	01	CLR	NC		10.00	58	55	56	90	0	00	29.15	30.10	
04	FEW	NC		6.00	BR	73	70	71	90	0	00	29.02	29.93	04	CLR	NC		10.00	56	53	54	90	0	00	29.17	30.12	
07	BKN	110		4.00	BR	73	70	71	90	0	00	29.04	29.96	07	FEW	NC		4.00	55	54	54	96	0	00	29.22	30.17	
10	FEW	NC		8.00		81	71	74	72	6	VR	29.03	29.95	10	CLR	NC		10.00	71	59	64	66	3	VR	29.24	30.19	
13	FEW	NC		10.00		87	71	76	59	5	VR	29.00	29.91	13	FEW	NC		10.00	79	59	67	50	6	VR	29.20	30.15	
16	SCT	NC		10.00		86	70	75	59	3	VR	28.94	29.85	16	BKN	055		10.00	81	57	66	44	7	13	29.17	30.12	
19	SCT	NC		8.00		83	70	74	65	0	00	28.96	29.88	19	FEW	NC		10.00	79	59	67	50	3	19	29.19	30.14	
22	CLR	NC		7.00		74	67	69	79	0	00	28.96	29.88	22	CLR	NC		8.00	68	63	65	84	0	00	29.20	30.15	
SUNRISE: 0546				AUG 03				SUNSET: 1940				SUNRISE: 0551				AUG 09				SUNSET: 1934							
01	CLR	NC		5.00	BR	71	68	69	90	0	00	28.97	29.89	01	CLR	NC		4.00	64	61	62	90	0	00	29.20	30.15	
04	CLR	NC		4.00	BR	69	67	68	93	0	00	28.96	29.88	04	CLR	NC		3.00	62	61	61	96	0	00	29.21	30.15	
07	CLR	NC		2.50	BR	70	67	68	90	0	00	28.99	29.91	07	FEW	NC		1.50	61	59	60	93	0	00	29.24	30.19	
10	CLR	NC		4.00	HZ	81	71	74	72	3	11	29.00	29.91	10	CLR	NC		9.00	71	62	65	73	0	00	29.26	30.20	
13	FEW	NC		9.00		88	63	71	43	8	04	28.98	29.89	13	CLR	NC		10.00	77	60	66	56	3	VR	29.23	30.17	
16	CLR	NC		10.00		90	64	73	42	9	07	28.96	29.87	16	CLR	NC		10.00	78	61	67	56	3	VR	29.19	30.13	
19	CLR	NC		10.00		85	66	72	53	3	07	28.95	29.87	19	CLR	NC		10.00	76	63	68	64	3	14	29.16	30.11	
22	CLR	NC		7.00		74	68	70	82	0	00	28.97	29.89	22	CLR	NC		9.00	68	63	65	84	0	00	29.17	30.11	
SUNRISE: 0547				AUG 04				SUNSET: 1939				SUNRISE: 0552				AUG 10				SUNSET: 1933							
01	CLR	NC		4.00	BR	70	67	68	90	0	00	28.97	29.88	01	CLR	NC		6.00	63	61	62	93	0	00	29.15	30.10	
04	CLR	NC		3.00	BR	68	66	67	93	0	00	28.97	29.89	04	SCT	NC		4.00	61	60	60	97	0	00	29.13	30.07	
07	VV	001		0.25	FG	67	67	67	100	0	00	28.97	29.90	07	VV	001		<.25	61	60	60	97	0	00	29.15	30.09	
10	CLR	NC		6.00	HZ	78	68	71	71	0	00	28.99	29.92	10	CLR	NC		8.00	76	64	68	67	5	VR	29.12	30.06	
13	CLR	NC		8.00		89	68	75	50	8	21	28.95	29.86	13	CLR	NC		7.00	85	64	71	50	8	22	29.08	30.02	
16	FEW	NC		7.00		90	69	75	50	6	VR	28.90	29.82	16	FEW	NC		10.00	86	61	70	43	6	21	29.04	29.97	
19	CLR	NC		8.00		87	70	75	57	3	22	28.92	29.83	19	CLR	NC		9.00	82	65	71	56	5	VR	29.01	29.94	
22	CLR	NC		10.00		78	65	70	64	7	06	28.96	29.88	22	SCT	NC		9.00	76	69	71	79	3	VR	29.04	29.96	
SUNRISE: 0548				AUG 05				SUNSET: 1938				SUNRISE: 0552				AUG 11				SUNSET: 1932							
01	CLR	NC		10.00		76	66	69	72	0	00	28.87	29.78	01	BKN	026		9.00	73	67	69	81	0	00	29.05	29.97	
04	CLR	NC		10.00		74	68	70	82	3	22	28.87	29.78	04	OVC	017		9.00	71	66	68	84	5	22	29.04	29.96	
07	CLR	NC		8.00		74	69	71	85	6	07	28.89	29.81	07	OVC	009		5.00	70	67	68	90	6	22	29.05	29.97	
10	OVC	030		4.00	-RA BR	73	70	71	90	0	00	28.93	29.85	10	OVC	013		6.00	74	67	69	79	8	22	29.06	29.98	
13	BKN	036		10.00		78	70	73	76	3	VR	28.90	29.82	13	CLR	NC		8.00	82	67	72	60	9	21	29.02	29.94	
16	OVC	038		10.00		75	70	72	84	7	01	28.88	29.81	16	SCT	NC		10.00	78	63	68	60	5	VR	28.98	29.91	
19	CLR	NC		10.00		72	62	66	71	7	VR	28.94	29.87	19	OVC	100		10.00	70	67	68	90	0	00	29.00	29.93	
22	BKN	055		8.00		67	63	64	87	0	00	28.99	29.93	22	OVC	085		8.00	69	67	68	93	3	21	29.04	29.97	
SUNRISE: 0548				AUG 06				SUNSET: 1937				SUNRISE: 0553				AUG 12				SUNSET: 1931							
01	CLR	NC		9.00		66	62	64	87	0	00	28.99	29.92	01	OVC	017		10.00	-RA	68	65	66	90	3	VR	29.02	29.94
04	CLR	NC		10.00		62	58	60	86	0	00	28.99	29.93	04	BKN	031		10.00	64	61	62	90	3	05	28.96	29.90	
07	CLR	NC		10.00		64	56	59	75	5	VR	29.05	29.99	07	OVC	027		10.00	-RA	64	60	62	87	6	05	28.96	29.90
10	CLR	NC		10.00		71	53	61	53	8	03	29.07	30.01	10	OVC	024		1.75	+RA BR	63	62	62	97	0	00	28.98	29.93
13	CLR	NC		10.00		75	51	61	43	8	02	29.07	30.00	13	OVC	024		10.00	-RA	65	63	64	93	5	VR	28.98	29.92
16	CLR	NC		10.00		76	51	61	42	9	08	29.04	29.98	16	OVC	026		10.00	65	60	62	84	5	VR	28.98	29.92	
19	CLR	NC		10.00		71	51	60	49	7	36	29.08	30.02	19	OVC	055		10.00	66	57	61	73	5	35	29.02	29.96	
22	CLR	NC		10.00		63	51	56	65	5	07	29.10	30.05	22	OVC	049		10.00	62	57	59	84	0	00	29.07	30.01	

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2004

OQT

WBAN # 53868

HOUR (LST)	SATellite		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATellite		WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)	
	OBSERVATION TIME (LST)	EFF CLD AMT Okta		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL		OBSERVATION TIME (LST)	EFF CLD AMT Okta		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0554				AUG 13				SUNSET: 1930				SUNRISE: 0559				AUG 19				SUNSET: 1923			
01	BKN	070	10.00	59	55	57	87	0	00	29.06	30.01	01	CLR	NC	7.00	71	66	68	84	3	20	29.11	30.05
04	CLR	NC	6.00	55	54	54	96	0	00	29.03	29.99	04	FEW	NC	7.00	71	66	68	84	0	00	29.13	30.06
07	BKN	060	8.00	56	53	54	90	0	00	29.08	30.03	07	CLR	NC	4.00	71	66	68	84	0	00	29.16	30.09
10												10	CLR	NC	8.00	81	68	72	65	6	22	29.18	30.10
13	OVC	060	10.00	71	52	60	51	3	VR	29.12	30.07	13	CLR	NC	10.00	89	67	74	48	6	VR	29.14	30.07
16	OVC	065	10.00	71	50	59	47	3	VR	29.10	30.06	16	SCT	NC	10.00	90	65	73	44	6	VR	29.11	30.04
19	OVC	070	10.00	67	51	58	57	6	VR	29.15	30.11	19	BKN	110	10.00	86	66	73	51	3	21	29.09	30.01
22	BKN	065	10.00	61	51	56	70	0	00	29.17	30.14	22	CLR	NC	8.00	75	69	71	82	0	00	29.14	30.07
SUNRISE: 0555				AUG 14				SUNSET: 1929				SUNRISE: 0560				AUG 20				SUNSET: 1921			
01	OVC	060	10.00	61	52	56	72	3	06	29.16	30.11	01	BKN	110	6.00	73	69	70	87	0	00	29.15	30.07
04	SCT	NC	10.00	58	52	55	81	5	05	29.14	30.09	04	CLR	NC	3.00	70	68	69	93	0	00	29.12	30.05
07	CLR	NC	10.00	60	53	56	78	0	00	29.17	30.13	07	BKN	002	0.75	68	67	67	96	3	06	29.13	30.06
10	CLR	NC	10.00	69	54	60	59	6	VR	29.19	30.15	10	SCT	NC	5.00	79	67	71	67	7	VR	29.16	30.09
13	BKN	065	10.00	76	53	62	45	7	03	29.17	30.12	13	SCT	NC	5.00	80	69	73	69	7	VR	29.13	30.06
16	FEW	NC	10.00	79	54	64	42	8	36	29.16	30.11	16	SCT	NC	5.00	82	70	74	67	5	VR	29.05	29.98
19	FEW	NC	10.00	72	54	61	53	6	36	29.18	30.14	19	BKN	033	4.00	76	71	73	85	7	22	29.02	29.96
22	OVC	075	10.00	64	56	59	75	0	00	29.22	30.17	22	OVC	014	10.00	72	68	69	87	5	VR	29.05	29.98
SUNRISE: 0556				AUG 15				SUNSET: 1927				SUNRISE: 0600				AUG 21				SUNSET: 1920			
01	BKN	060	10.00	63	56	59	78	0	00	29.22	30.17	01	OVC	008	10.00	71	68	69	90	8	24	29.05	29.97
04	OVC	060	10.00	62	56	59	81	0	00	29.22	30.16	04	OVC	007	3.00	71	69	70	94	7	22	29.00	29.92
07	CLR	NC	7.00	60	56	58	86	0	00	29.25	30.21	07	OVC	005	1.00	71	69	70	94	7	19	29.02	29.95
10	BKN	075	10.00	70	57	62	64	0	00	29.28	30.23	10	OVC	040	10.00	74	70	71	88	8	22	29.04	29.97
13	FEW	NC	10.00	78	58	66	50	8	09	29.25	30.19	13	BKN	038	10.00	80	67	71	64	3	VR	29.02	29.95
16	FEW	NC	10.00	80	58	66	47	6	02	29.22	30.17	16	BKN	040	10.00	82	66	71	58	5	VR	29.00	29.92
19	FEW	NC	10.00	74	59	65	60	3	VR	29.23	30.18	19	OVC	041	10.00	75	64	68	69	7	05	29.03	29.96
22	CLR	NC	8.00	66	59	62	78	0	00	29.25	30.20	22	OVC	045	10.00	70	63	66	79	6	05	29.08	30.02
SUNRISE: 0556				AUG 16				SUNSET: 1926				SUNRISE: 0601				AUG 22				SUNSET: 1919			
01	BKN	080	7.00	63	58	60	84	0	00	29.25	30.20	01	SCT	NC	10.00	68	62	64	81	3	06	29.08	30.01
04	FEW	NC	5.00	62	58	60	86	0	00	29.26	30.20	04	BKN	027	10.00	67	62	64	84	5	05	29.07	29.99
07	CLR	NC	4.00	62	57	59	84	0	00	29.28	30.24	07	OVC	043	10.00	66	61	63	84	3	VR	29.10	30.04
10	CLR	NC	4.00	74	59	65	60	7	06	29.29	30.24	10	OVC	019	10.00	72	62	66	71	3	VR	29.11	30.05
13	SCT	NC	10.00	79	58	66	49	0	00	29.25	30.20	13	BKN	025	10.00	78	65	70	64	6	28	29.08	30.02
16	BKN	075	10.00	80	58	66	47	6	02	29.22	30.16	16	CLR	NC	10.00	80	65	70	60	5	VR	29.05	29.98
19	CLR	NC	9.00	77	60	66	56	0	00	29.20	30.14	19	CLR	NC	10.00	78	65	70	64	0	00	29.04	29.97
22	CLR	NC	6.00	68	61	64	78	0	00	29.22	30.16	22	CLR	NC	8.00	70	66	67	87	0	00	29.07	30.01
SUNRISE: 0557				AUG 17				SUNSET: 1925				SUNRISE: 0602				AUG 23				SUNSET: 1917			
01	SCT	NC	5.00	65	60	62	84	0	00	29.21	30.15	01	BKN	045	6.00	68	66	67	93	0	00	29.06	29.99
04	SCT	NC	4.00	63	59	61	87	0	00	29.19	30.14	04	OVC	015	6.00	69	66	67	90	0	00	29.06	29.98
07	OVC	080	3.00	64	60	62	87	0	00	29.21	30.15	07	OVC	008	6.00	70	66	67	87	0	00	29.10	30.03
10	SCT	NC	6.00	73	61	66	66	5	VR	29.20	30.15	10	OVC	010	6.00	75	68	70	79	5	VR	29.12	30.06
13	FEW	NC	7.00	80	62	69	54	0	00	29.16	30.10	13	SCT	NC	9.00	82	67	72	60	3	VR	29.08	30.01
16	FEW	NC	7.00	85	58	68	40	5	VR	29.09	30.03	16	SCT	NC	10.00	84	67	73	57	6	VR	29.04	29.96
19	CLR	NC	5.00	81	61	68	51	3	33	29.08	30.02	19	CLR	NC	10.00	82	65	71	56	0	00	29.05	29.98
22	CLR	NC	3.00	70	65	67	84	0	00	29.09	30.04	22	CLR	NC	9.00	73	69	70	87	0	00	29.09	30.03
SUNRISE: 0558				AUG 18				SUNSET: 1924				SUNRISE: 0603				AUG 24				SUNSET: 1916			
01	CLR	NC	3.00	66	63	64	90	0	00	29.09	30.03	01	CLR	NC	4.00	70	67	68	90	0	00	29.09	30.02
04	BKN	050	3.00	65	62	63	90	0	00	29.09	30.02	04	VV	001	0.25	68	67	67	96	0	00	29.09	30.02
07	CLR	NC	1.50	63	60	61	90	0	00	29.12	30.06	07	VV	001	0.25	68	66	67	93	3	05	29.14	30.08
10												10	SCT	NC	8.00	78	68	71	71	0	00	29.16	30.09
13	CLR	NC	10.00	84	60	69	44	7	VR	29.08	30.01	13	CLR	NC	10.00	74	68	70	82	0	00	29.16	30.10
16	SCT	NC	10.00	86	63	71	46	8	21	29.06	29.98	16	CLR	NC	10.00	79	70	73	74	7	08	29.12	30.06
19	CLR	NC	10.00	82	66	71	58	5	21	29.05	29.98	19	CLR	NC	10.00	77	69	72	77	0	00	29.12	30.06
22	CLR	NC	9.00	76	68	71	77	5	28	29.08	30.02	22	CLR	NC	6.00	72	69	70	91	0	00	29.16	30.10

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

AUGUST 2004

OQT

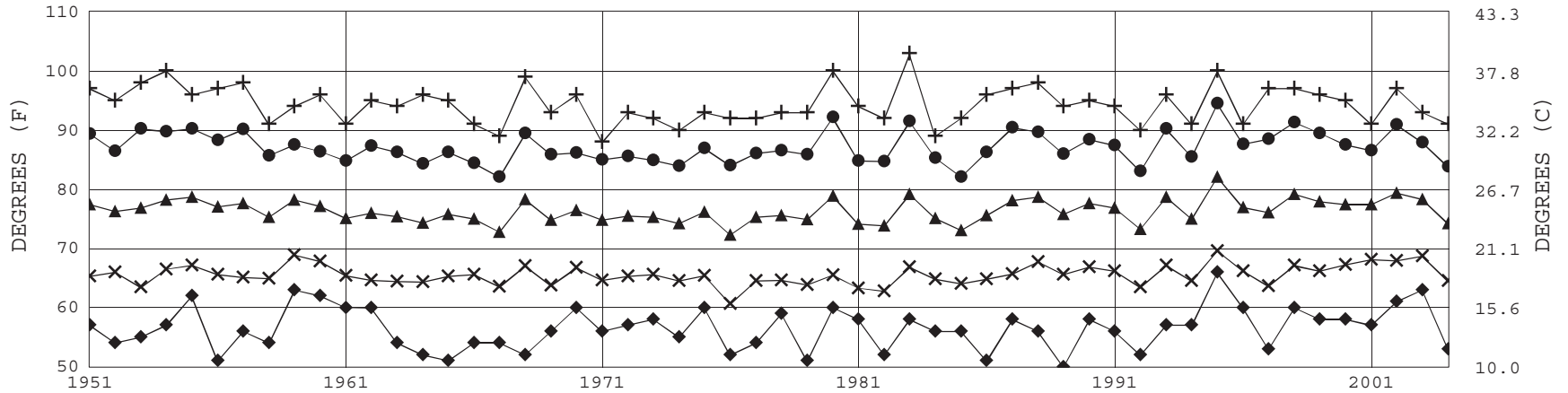
WBAN # 53868

HOUR (LST)	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	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 Oktas	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 Oktas	DRY BULB	DEW POINT	WET BULB	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
SUNRISE: 0603					AUG 25					SUNSET: 1915					SUNRISE: 0608					AUG 31					SUNSET: 1907				
01	SCT	NC	6.00	BR	70	68	69	93	0	00	29.18	30.12	01	OVC	060	5.00	HZ	72	67	69	84	0	00	29.12	30.05				
04	CLR	NC	6.00	BR	69	67	68	93	0	00	29.15	30.09	04	FEW	NC	5.00	BR	70	66	67	87	0	00	29.11	30.05				
07	OVC	001	0.75	BR	69	67	68	93	0	00	29.21	30.15	07	SCT	NC	4.00	HZ	71	66	68	84	0	00	29.15	30.09				
10	CLR	NC	8.00		76	69	71	79	0	00	29.22	30.16	10	SCT	NC	8.00		78	68	71	71	9	06	29.18	30.11				
13	CLR	NC	10.00		85	68	73	57	8	20	29.20	30.13	13	FEW	NC	7.00		82	68	73	63	8	06	29.18	30.11				
16	SCT	NC	4.00	-RA BR	74	71	72	91	3	VR	29.18	30.12	16	FEW	NC	10.00		85	67	73	55	6	VR	29.13	30.06				
19	BKN	110	6.00	HZ	76	71	73	85	0	00	29.16	30.09	19	CLR	NC	10.00		77	66	70	69	3	VR	29.16	30.10				
22	CLR	NC	5.00	BR	72	69	70	91	0	00	29.19	30.13	22	CLR	NC	10.00		72	64	67	76	5	06	29.20	30.13				
SUNRISE: 0604					AUG 26					SUNSET: 1913					<h3>3-HOURLY OBSERVATION NOTES</h3> <p>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.</p>														
01	CLR	NC	5.00	BR	71	69	70	94	0	00	29.19	30.12																	
04	OVC	001	4.00	BR	70	68	69	93	0	00	29.18	30.13																	
07	OVC	048	4.00	BR	73	69	70	87	0	00	29.22	30.16																	
10	SCT	NC	6.00	HZ	75	66	69	74	7	VR	29.24	30.18																	
13	CLR	NC	6.00	HZ	79	67	71	67	5	VR	29.23	30.17																	
16	SCT	NC	6.00	HZ	82	68	73	63	6	VR	29.18	30.11																	
19	CLR	NC	6.00	HZ	80	68	72	67	0	00	29.15	30.08																	
22	CLR	NC	4.00	BR	73	69	70	87	0	00	29.21	30.15																	
SUNRISE: 0605					AUG 27					SUNSET: 1912																			
01	CLR	NC	2.50	BR	70	68	69	93	0	00	29.19	30.13																	
04	VV	001	0.25	FG	68	67	67	96	0	00	29.21	30.15																	
07	VV	001	<.25	FG	67	66	66	97	0	00	29.25	30.19																	
10	CLR	NC	4.00	HZ	78	70	73	76	0	00	29.25	30.18																	
13	FEW	NC	7.00		86	68	74	55	5	VR	29.21	30.14																	
16	FEW	NC	6.00	HZ	88	68	74	52	6	VR	29.13	30.06																	
19	CLR	NC	6.00	HZ	84	70	74	63	0	00	29.12	30.06																	
22	CLR	NC	4.00	HZ	76	71	73	85	0	00	29.15	30.08																	
SUNRISE: 0606					AUG 28					SUNSET: 1911																			
01	CLR	NC	2.50	BR	72	69	70	91	0	00	29.12	30.05																	
04	VV	001	<.25	FG	70	69	69	97	0	00	29.12	30.05																	
07	VV	001	0.25	FG	70	68	69	93	0	00	29.14	30.07																	
10	CLR	NC	6.00	HZ	79	70	73	74	3	20	29.13	30.06																	
13	SCT	NC	8.00		87	69	75	55	3	VR	29.07	29.99																	
16	SCT	NC	8.00		89	69	75	52	7	VR	28.99	29.91																	
19	CLR	NC	6.00	HZ	84	71	75	65	3	VR	28.99	29.91																	
22	CLR	NC	7.00		78	70	73	76	7	19	29.02	29.94																	
SUNRISE: 0607					AUG 29					SUNSET: 1909																			
01	OVC	030	4.00	RA BR	71	69	70	94	5	19	29.05	29.97																	
04	FEW	NC	5.00	BR	70	68	69	93	0	00	28.99	29.90																	
07	OVC	003	0.50	FG	69	68	68	96	0	00	29.02	29.94																	
10	OVC	009	8.00		74	68	70	82	0	00	29.06	29.98																	
13	CLR	NC	10.00		81	69	73	67	5	VR	29.02	29.94																	
16	CLR	NC	10.00		86	68	74	55	3	VR	28.95	29.87																	
19	BKN	110	10.00		76	70	72	82	0	00	28.97	29.89																	
22	FEW	NC	10.00		73	70	71	90	0	00	29.00	29.93																	
SUNRISE: 0607					AUG 30					SUNSET: 1908																			
01	SCT	NC	3.00	BR	71	69	70	94	0	00	29.00	29.93																	
04	VV	001	0.50	FG	69	68	68	96	0	00	29.00	29.92																	
07	VV	001	0.25	FG	69	67	68	93	0	00	29.04	29.97																	
10	FEW	NC	10.00		80	69	73	69	0	00	29.05	29.97																	
13	OVC	070	10.00	-RA	81	72	75	74	5	35	29.04	29.96																	
16	CLR	NC	10.00		79	70	73	74	5	VR	29.04	29.96																	
19	CLR	NC	10.00		75	69	71	82	0	00	29.07	30.00																	
22	FEW	NC	6.00	BR	73	69	70	87	0	00	29.12	30.05																	

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			68	64	66	88	29.10	30.03	6.68	1	0	0
02			67	64	65	89	29.09	30.02	6.39	1	0	0
03			67	64	65	90	29.09	30.02	6.02	0	0	0
04			66	63	64	90	29.09	30.02	5.55	1	0	0
05			66	63	64	91	29.09	30.03	5.17	1	0	0
06			66	63	64	92	29.11	30.04	5.33	1	0	0
07			66	63	64	90	29.12	30.05	3.94	1	0	0
08			68	64	66	86	29.12	30.07	5.43	1	1	7
09			72	65	68	80	29.13	30.07	6.41	1	0	0
10			75	65	69	72	29.13	30.07	7.37	2	0	0
11			78	65	69	66	29.13	30.06	8.42	2	1	20
12			79	64	70	61	29.12	30.05	8.74	2	0	0
13			81	64	70	58	29.10	30.04	9.06	3	0	0
14			82	64	70	56	29.09	30.02	9.11	4	0	0
15			82	64	70	56	29.08	30.01	8.67	3	1	25
16			82	64	70	56	29.07	30.00	9.13	3	1	5
17			81	63	70	55	29.06	30.00	9.29	2	0	0
18			80	64	69	59	29.06	30.00	8.71	2	2	2
19			78	64	69	64	29.07	30.01	8.94	2	0	0
20			74	65	68	74	29.08	30.02	8.70	1	0	0
21			72	65	67	78	29.10	30.03	8.43	0	0	0
22			71	65	67	82	29.10	30.04	8.03	1	0	0
23			69	65	66	85	29.10	30.04	7.40	1	0	0
24			68	64	66	87	29.10	30.04	6.81	1	0	0

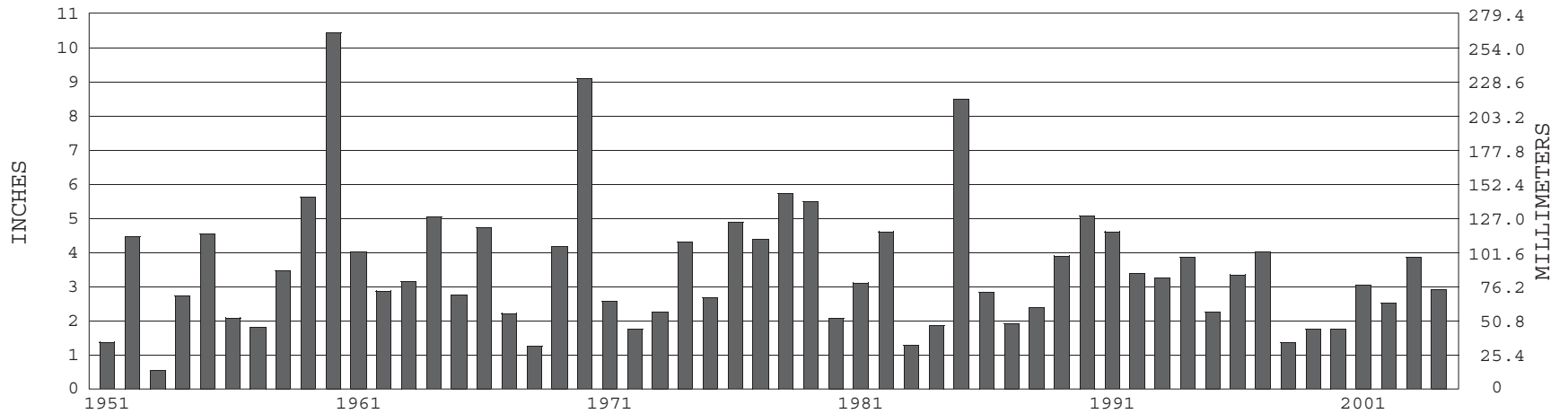
OAK RIDGE, TN AUGUST TEMPERATURES



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

Long-Term (1951-2004) Mean: 76.4 1971-2000 Normal: 76.2

OAK RIDGE, TN AUGUST PRECIPITATION



Long-Term (1951-2004) Mean Monthly Total: 3.52

1971-2000 Normal: 3.39



AUGUST 2004

OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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