



# AUGUST 2002

## 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 2002  
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	92	68	80	4	69	73	0	15	FG+ BR HZ				0.00	29.04	29.96	1.0	03	2.0	13	35	9	07	01	
02	96	71	84	8	69	73	0	19	RA BR HZ				0.04	29.07	29.99	1.3	09	3.2	16	19	14	17	02	
03	96	68	82	6	69	73	0	17	BR HZ				0.00	29.17	30.09	1.5	08	2.5	14	10	10	09	03	
04	96	70	83	7	67	72	0	18	BR HZ				0.00	29.19	30.11	0.6	05	1.9	15	03	10	02	04	
05	97*	68	83	7	68	73	0	18	BR HZ				0.00	29.12	30.04	0.1	17	1.4	13	20	9	18	05	
06	91	71	81	5	62	69	0	16	BR HZ				0.00	29.05	29.96	4.5	02	5.5	22	01	14	35	06	
07	89	62	76	0	55	63	0	11					0.00	29.11	30.04	2.3	05	5.0	16	06	13	06	07	
08	90	61*	76	1	55	63	0	11					0.00	29.17	30.10	1.6	07	3.3	12	14	9	06	08	
09	91	62	77	2	60	66	0	12					0.00	29.17	30.10	1.0	15	2.2	14	29	10	30	09	
10	91	68	80	5	64	69	0	15	HZ				0.00	29.19	30.11	2.5	21	3.6	17	15	14	18	10	
11	93	68	81	6	64	70	0	16	BR HZ				0.00	29.19	30.11	0.6	23	2.3	15	33	9	32	11	
12	94	68	81	7	64	70	0	16	BR HZ				0.00	29.17	30.09	1.1	19	2.3	16	18	13	18	12	
13	93	64	79	5	62	68	0	14	BR HZ				0.00	29.14	30.06	2.8	18	3.5	17	18	14	17	13	
14	93	68	81	7	67	71	0	16	RA BR HZ				T	29.10	30.02	1.2	22	2.9	18	16	15	17	14	
15	91	70	81	7	71	73	0	16	RA BR HZ				0.01	29.21	30.13	1.3	24	3.0	17	27	13	26	15	
16	91	70	81	6	71	73	0	16	RA BR				0.30	29.27	30.21	0.8	17	2.4	25	17	20*	17	16	
17	85	71	78	3	72	73	0	13	RA BR				0.13	29.19	30.12	2.9	22	4.4	17	29	14	28	17	
18	90	71	81	6	71	73	0	16	RA BR				0.01	29.11	30.04	3.3	21	4.4	20	22	14	21	18	
19	87	68	78	3	70	71	0	13	RA FG+ BR HZ				0.72	29.07	30.01	0.3	12	1.8	17	18	14	17	19	
20	90	68	79	5	69	72	0	14	FG+ BR				0.00	29.12	30.05	2.4	06	3.5	18	05	14	06	20	
21	95	68	82	7	68	72	0	17	BR				0.00	29.19	30.11	0.6	07	2.3	12	21	9	06	21	
22	96	70	83	8	70	74	0	18	BR HZ				0.00	29.21	30.13	0.5	23	2.1	14	21	10	35	22	
23	94	72	83	11	70	74	0	18	BR HZ				0.00	29.10	30.02	1.6	20	2.5	17	18	10	19	23	
24	92	75	84*	10	70	74	0	19					0.00	29.02	29.93	1.9	24	4.3	16	31	12	21	24	
25	86	68	77	3	70	71	0	12	RA BR				0.33	29.00	29.93	0.6	20	2.3	28*	34	16	34	25	
26	85	66	76	2	66	69	0	11	RA BR				0.05	28.98	29.91	1.8	06	3.2	14	05	12	07	26	
27	86	64	75	1	66	68	0	10	RA FG+ BR				0.75	29.05	29.98	1.0	10	1.8	18	16	17	15	27	
28	87	63	75*	1	64	68	0	10	BR				0.00	29.08	30.01	2.9	05	4.0	13	03	10	07	28	
29	86	66	76	2	65	69	0	11					0.00	29.09	30.02	0.7	06	2.4	14	01	9	01	29	
30	85	69	77	3	69	71	0	12	RA FG+ BR				0.19	29.17	30.10	0.6	09	1.5	13	15	10	15	30	
31	89	68	79	6	66	70	0	14	BR				0.00	29.25	30.19	0.4	06	2.3	13	08	10	08	31	
90.9		67.9	79.4	■ ■	66.6	70.6	0.0	14.6	< MONTHLY AVERAGES	TOTALS-->			2.53	29.13	30.05	0.1	23	2.9	<-- MONTHLY AVERAGES					
3.2				■ ■	<-----DEPARTURE FROM NORMAL----->										-3.10				SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3					
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 0.77 DATE :26-27				SEA LEVEL PRESSURE				DATE		TIME					
MONTHLY TOTAL DEPARTURE					SEASON TO DATE TOTAL DEPARTURE				GREATEST 24-HR SNOWFALL:				MAXIMUM				DATE		TIME					
HEATING: 0 0					0 0				GREATEST SNOW DEPTH:				MINIMUM				DATE		TIME					
COOLING: 454 107					1424 327				NUMBER OF DAYS WITH →				MAXIMUM TEMP ≥ 90: 21				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 10			
													MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 6			
													THUNDERSTORMS: 0				HEAVY FOG: 5				SNOWFALL ≥ 1.0 INCH: :			

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

## OAK RIDGE, TN

AUGUST 2002

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		0.04		
03													03												03		0.00		
04													04												04		0.00		
05													05												05		0.00		
06													06												06		0.00		
07													07												07		0.00		
08													08												08		0.00		
09													09												09		0.00		
10													10												10		0.00		
11													11												11		0.00		
12													12												12		0.00		
13													13												13		0.00		
14													14					T							14		T		
15													15				0.01	T		T					15		0.01		
16													16				0.26	0.04	T						16		0.30		
17													17		0.08	0.05									17		0.13		
18													18		T										18		0.01		
19													19	0.54		0.07	0.02	T		0.01					19	0.63	0.72		
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				0.03		T	T						25		T	0.11	0.11			0.08	T			25		0.33			
26				0.01									26							0.02	0.02			26		0.05			
27				0.01									27							0.01	0.01			27		0.75			
28													28									0.72		28		0.00			
29													29			0.09	T							29		0.00			
30	0.01	0.09		T									30											30		0.19			
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)												
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 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 2002

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							< .25	8.00	
02							2.00	10.00	
03							2.00	10.00	
04							1.75	10.00	
05							5.00	10.00	
06							.75	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							7.00	10.00	
10							4.00	10.00	
11							3.00	8.00	
12							2.00	8.00	
13							2.00	10.00	
14							5.00	10.00	
15							2.50	10.00	
16							.75	10.00	
17							1.00	10.00	
18							5.00	10.00	
19							.25	10.00	
20							.25	10.00	
21							5.00	10.00	
22							4.00	9.00	
23							1.75	10.00	
24							9.00	10.00	
25							1.00	10.00	
26							3.00	10.00	
27							< .25	10.00	
28							3.00	10.00	
29							8.00	10.00	
30							< .25	10.00	
31							4.00	10.00	
<b>MONTHLY AVGS</b>							3.50	9.77	
<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 5            18           5									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

AUGUST 2002

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	001	0.25	FG	71	71	71	100	0	00	29.07		01	CLR	NC	10.00		68	56	61	66	3	VR	29.10	30.03				
04	VV	001	0.25	FG	70	70	70	100	0	00	29.05	29.97	04	CLR	NC	10.00		65	54	59	68	5	06	29.08	30.00				
07	VV	001	<.25	FG	68	68	68	100	0	00	29.07	30.00	07	CLR	NC	10.00		67	54	59	63	5	VR	29.11	30.05				
10	CLR	NC	6.00	HZ	81	70	73	69	7	VR	29.08	30.00	10	CLR	NC	10.00		75	56	64	52	5	VR	29.15	30.08				
13	FEW	NC	7.00		88	68	74	52	5	VR	29.04	29.96	13	CLR	NC	10.00		85	56	67	37	5	25	29.17	30.04				
16	CLR	NC	8.00		91	66	74	44	5	01	28.99	29.90	16	CLR	NC	10.00		88	55	67	33	7	VR	29.11	29.99				
19	CLR	NC	8.00		88	67	74	50	0	00	29.00	29.92	19	CLR	NC	10.00		83	57	67	41	5	VR	29.08	30.01				
22	CLR	NC	6.00	HZ	78	71	73	79	0	00	29.04	29.95	22	CLR	NC	10.00		74	53	62	48	5	VR	29.12	30.06				
SUNRISE: 0545					AUG 02				SUNSET: 1942				SUNRISE: 0550					AUG 08				SUNSET: 1936							
01	CLR	NC	5.00	HZ	75	70	72	84	0	00	29.02	29.93	01	CLR	NC	10.00		69	51	59	53	3	05	29.15	30.08				
04	CLR	NC	4.00	BR	73	70	71	90	0	00	29.03	29.94	04	CLR	NC	10.00		63	53	57	70	0	00	29.16	30.09				
07	CLR	NC	2.50	BR	73	70	71	90	3	07	29.09	30.01	07	CLR	NC	10.00		63	55	58	76	3	06	29.20	30.14				
10	CLR	NC	7.00		84	71	75	65	5	VR	29.10	30.02	10	CLR	NC	10.00		77	54	63	45	0	00	29.21	30.14				
13	CLR	NC	7.00		93	69	76	46	6	15	29.08	29.99	13	CLR	NC	10.00		85	56	67	37	5	VR	29.17	30.10				
16	CLR	NC	10.00		96	64	74	35	5	07	29.04	29.94	16	CLR	NC	10.00		89	56	68	33	5	VR	29.12	30.06				
19	CLR	NC	8.00		91	67	75	45	3	36	29.04	29.95	19	CLR	NC	10.00		84	57	67	40	3	02	29.12	30.06				
22	FEW	NC	10.00		82	66	71	58	9	09	29.10	30.03	22	CLR	NC	10.00		73	56	63	55	3	VR	29.17	30.11				
SUNRISE: 0546					AUG 03				SUNSET: 1941				SUNRISE: 0550					AUG 09				SUNSET: 1935							
01	CLR	NC	4.00	BR	71	70	70	96	0	00	29.12	30.04	01	CLR	NC	10.00		68	55	60	63	5	07	29.17	30.10				
04	CLR	NC	4.00	BR	69	68	68	96	0	00	29.15	30.07	04	CLR	NC	10.00		63	56	59	78	3	08	29.17	30.10				
07	CLR	NC	2.50	BR	69	68	68	96	0	00	29.19	30.11	07	CLR	NC	10.00		63	58	60	84	0	00	29.19	30.13				
10	CLR	NC	6.00	HZ	82	71	74	69	5	01	29.21	30.13	10	CLR	NC	10.00		79	57	65	47	0	00	29.21	30.14				
13	CLR	NC	8.00		92	67	75	44	5	VR	29.18	30.11	13	CLR	NC	10.00		88	62	71	42	5	VR	29.17	30.10				
16	SCT	NC	8.00		94	67	75	41	5	VR	29.14	30.06	16	CLR	NC	9.00		89	60	70	38	7	21	29.12	30.06				
19	CLR	NC	7.00		90	69	75	50	0	00	29.13	30.06	19	CLR	NC	9.00		87	62	71	43	3	13	29.12	30.06				
22	CLR	NC	5.00	HZ	79	72	74	79	0	00	29.18	30.11	22	SCT	NC	8.00		77	64	69	64	0	00	29.15	30.09				
SUNRISE: 0546					AUG 04				SUNSET: 1940				SUNRISE: 0551					AUG 10				SUNSET: 1934							
01	CLR	NC	4.00	BR	75	71	72	88	0	00	29.17	30.09	01	CLR	NC	7.00		72	64	67	76	0	00	29.17	30.09				
04	CLR	NC	3.00	BR	72	70	71	94	0	00	29.18	30.11	04	CLR	NC	5.00	HZ	70	65	67	84	0	00	29.18	30.11				
07	CLR	NC	2.00	BR	71	69	70	94	0	00	29.23	30.15	07	CLR	NC	4.00	HZ	70	64	66	82	0	00	29.22	30.14				
10	CLR	NC	6.00	HZ	84	69	74	61	3	VR	29.24	30.17	10	CLR	NC	9.00		81	62	69	53	8	23	29.24	30.17				
13	CLR	NC	8.00		93	66	75	41	7	VR	29.21	30.13	13	CLR	NC	10.00		88	62	71	42	8	26	29.21	30.14				
16	CLR	NC	10.00		94	63	73	36	0	00	29.15	30.07	16	CLR	NC	9.00		90	62	72	39	8	17	29.15	30.07				
19	CLR	NC	9.00		91	67	75	45	3	02	29.15	30.08	19	CLR	NC	8.00		87	63	71	45	5	20	29.13	30.06				
22	CLR	NC	10.00		79	66	70	65	5	08	29.18	30.11	22	BKN	110	7.00		77	66	70	69	0	00	29.17	30.10				
SUNRISE: 0547					AUG 05				SUNSET: 1939				SUNRISE: 0552					AUG 11				SUNSET: 1933							
01	CLR	NC	10.00		72	66	68	82	3	05	29.15	30.08	01	CLR	NC	7.00		74	64	68	71	0	00	29.18	30.11				
04	CLR	NC	7.00		69	66	67	90	0	00	29.13	30.05	04	FEW	NC	5.00	BR	69	65	66	87	0	00	29.19	30.11				
07	CLR	NC	5.00	BR	70	67	68	90	0	00	29.18	30.10	07	CLR	NC	3.00	BR	69	65	66	87	0	00	29.23	30.16				
10	CLR	NC	8.00		83	70	74	65	3	VR	29.18	30.11	10	CLR	NC	6.00	HZ	82	66	71	58	6	21	29.25	30.18				
13	CLR	NC	10.00		93	69	76	46	6	20	29.13	30.06	13	CLR	NC	8.00		90	62	72	39	7	23	29.21	30.14				
16	OVC	070	9.00		95	66	75	39	3	VR	29.06	29.98	16	FEW	NC	6.00	HZ	91	62	72	38	5	VR	29.15	30.08				
19	CLR	NC	8.00		92	68	75	46	3	VR	29.05	29.96	19	CLR	NC	6.00	HZ	88	61	70	40	3	VR	29.13	30.06				
22	CLR	NC	7.00		81	72	75	74	0	00	29.08	29.99	22	CLR	NC	6.00	HZ	77	65	69	66	5	06	29.16	30.08				
SUNRISE: 0548					AUG 06				SUNSET: 1938				SUNRISE: 0553					AUG 12				SUNSET: 1931							
01	CLR	NC	6.00	HZ	77	71	73	82	0	00	29.05	29.96	01	CLR	NC	5.00	HZ	72	66	68	82	0	00	29.17	30.09				
04	CLR	NC	5.00	BR	74	70	71	88	0	00	29.02	29.93	04	CLR	NC	4.00	BR	69	66	67	90	0	00	29.17	30.09				
07	CLR	NC	3.00	BR	73	70	71	90	0	00	29.05	29.96	07	BKN	100	2.50	BR	69	67	68	93	0	00	29.20	30.13				
10	FEW	NC	4.00	HZ	83	70	74	65	10	03	29.08	29.99	10	CLR	NC	6.00	HZ	82	65	71	56	3	06	29.21	30.14				
13	CLR	NC	8.00		88	67	74	50	6	VR	29.04	29.95	13	CLR	NC	6.00	HZ	89	64	72	43	7	21	29.18	30.11				
16	CLR	NC	10.00		89	52	66	28	10	35	29.03	29.94	16	CLR	NC	7.00		93	59	71	32	3	VR	29.11	30.03				
19	CLR	NC	10.00		82	52	64	35	10	01	29.03	29.95	19	CLR	NC	8.00		89	59	70	36	3	22	29.10	30.03				
22	CLR	NC	10.00		74	54	62	50	3	VR	29.08	30.01	22	OVC	095	7.00		79	65	70	62	0	00	29.15	30.08				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

AUGUST 2002

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	STATION	SEA LEVEL
SUNRISE: 0554					AUG 13					SUNSET: 1930					SUNRISE: 0558					AUG 19					SUNSET: 1923				
01	CLR	NC			5.00	71	64	67	79	3	07	29.16	30.09	01	CLR	NC			10.00	71	70	70	96	0	00	29.09	30.01		
04	CLR	NC			4.00	66	63	64	90	0	00	29.15	30.08	04	SCT	NC			9.00	69	68	68	96	0	00	29.06	29.97		
07	CLR	NC			2.50	66	63	64	90	0	00	29.20	30.13	07	OVC	006			8.00	70	69	69	97	0	00	29.08	30.01		
10	CLR	NC			8.00	82	61	69	49	5	VR	29.19	30.12	10	BKN	010			6.00	76	71	73	85	3	15	29.11	30.05		
13	CLR	NC			10.00	91	61	71	37	9	19	29.14	30.06	13	OVC	001			0.25	71	70	70	96	6	VR	29.12	30.06		
16	SCT	NC			10.00	92	59	71	33	13	17	29.08	30.01	16	BKN	007			6.00	72	71	71	97	6	11	29.06	30.00		
19	CLR	NC			10.00	89	60	70	38	6	21	29.07	29.99	19	CLR	NC			10.00	74	70	71	88	0	00	29.05	29.98		
22	CLR	NC			10.00	78	64	69	62	0	00	29.09	30.02	22	CLR	NC			4.00	70	70	70	100	0	00	29.10	30.04		
SUNRISE: 0554					AUG 14					SUNSET: 1929					SUNRISE: 0559					AUG 20					SUNSET: 1922				
01	CLR	NC			8.00	73	63	67	71	0	00	29.10	30.02	01	OVC	001			0.75	69	69	69	100	0	00	29.08	30.02		
04	OVC	090			8.00	70	63	66	79	0	00	29.08	29.99	04	VV	001			0.50	68	68	68	100	3	07	29.08	30.01		
07	CLR	NC			5.00	71	64	67	79	0	00	29.12	30.05	07	OVC	001			0.25	69	69	69	100	0	00	29.12	30.06		
10	CLR	NC			10.00	81	67	72	62	7	22	29.14	30.06	10	FEW	NC			9.00	77	72	74	85	0	00	29.15	30.09		
13	FEW	NC			10.00	90	68	75	49	5	VR	29.08	30.00	13	FEW	NC			10.00	87	66	73	50	14	06	29.12	30.05		
16	FEW	NC			10.00	90	65	73	44	9	16	29.03	29.95	16	CLR	NC			10.00	90	66	74	45	6	VR	29.10	30.03		
19	FEW	NC			7.00	76	73	74	91	0	00	29.08	30.02	19	CLR	NC			10.00	85	66	72	53	6	36	29.09	30.02		
22	CLR	NC			7.00	74	71	72	91	0	00	29.13	30.06	22	CLR	NC			10.00	75	70	72	84	0	00	29.14	30.08		
SUNRISE: 0555					AUG 15					SUNSET: 1928					SUNRISE: 0560					AUG 21					SUNSET: 1921				
01	SCT	NC			6.00	73	70	71	90	5	21	29.15	30.07	01	CLR	NC			9.00	72	69	70	91	3	07	29.15	30.07		
04	CLR	NC			4.00	71	70	70	96	0	00	29.14	30.07	04	CLR	NC			6.00	69	67	68	93	3	06	29.15	30.07		
07	OVC	030			3.00	71	70	70	96	0	00	29.20	30.14	07	CLR	NC			5.00	70	67	68	90	0	00	29.21	30.14		
10	SCT	NC			6.00	80	71	74	74	7	VR	29.23	30.16	10	CLR	NC			9.00	81	68	72	65	5	VR	29.23	30.16		
13	BKN	046			9.00	88	69	75	54	7	VR	29.20	30.13	13	CLR	NC			10.00	90	68	75	49	5	VR	29.20	30.13		
16	CLR	NC			8.00	86	71	76	61	5	VR	29.18	30.11	16	FEW	NC			10.00	93	66	75	41	5	VR	29.15	30.08		
19	CLR	NC			10.00	78	72	74	82	3	17	29.21	30.15	19	CLR	NC			9.00	88	73	77	61	0	00	29.15	30.08		
22	CLR	NC			9.00	75	72	73	90	0	00	29.25	30.18	22	FEW	NC			8.00	78	72	74	82	0	00	29.20	30.12		
SUNRISE: 0556					AUG 16					SUNSET: 1927					SUNRISE: 0601					AUG 22					SUNSET: 1919				
01	CLR	NC			7.00	74	72	73	94	0	00	29.27	30.20	01	BKN	065			7.00	75	70	72	84	0	00	29.21	30.13		
04	CLR	NC			4.00	71	71	71	100	0	00	29.25	30.18	04	CLR	NC			6.00	72	70	71	94	0	00	29.20	30.12		
07	CLR	NC			5.00	72	70	71	94	0	00	29.31	30.24	07	CLR	NC			4.00	70	69	69	97	0	00	29.26	30.19		
10	CLR	NC			8.00	79	71	74	77	3	19	29.32	30.25	10	CLR	NC			8.00	86	69	74	57	6	25	29.28	30.20		
13	FEW	NC			10.00	85	71	75	63	7	VR	29.27	30.20	13	CLR	NC			8.00	92	70	77	49	5	VR	29.23	30.15		
16	OVC	018			0.75	74	73	73	97	8	17	29.27	30.21	16	FEW	NC			7.00	93	69	76	46	6	VR	29.17	30.09		
19	CLR	NC			6.00	74	73	73	97	5	07	29.25	30.19	19	CLR	NC			6.00	86	70	75	59	0	00	29.14	30.08		
22	OVC	006			4.00	72	72	72	100	0	00	29.27	30.20	22	CLR	NC			5.00	78	72	74	82	0	00	29.18	30.10		
SUNRISE: 0557					AUG 17					SUNSET: 1926					SUNRISE: 0602					AUG 23					SUNSET: 1918				
01	BKN	041			4.00	72	71	71	97	0	00	29.24	30.17	01	CLR	NC			3.00	74	72	73	94	0	00	29.17	30.10		
04	OVC	003			3.00	71	71	71	100	0	00	29.20	30.14	04	CLR	NC			3.00	74	71	72	91	0	00	29.13	30.05		
07	BKN	050			2.50	72	71	71	97	5	21	29.23	30.16	07	CLR	NC			2.00	73	71	72	94	0	00	29.16	30.09		
10	OVC	014			9.00	76	72	73	88	6	VR	29.25	30.19	10	CLR	NC			7.00	85	71	75	63	3	VR	29.16	30.09		
13	SCT	NC			10.00	83	70	74	65	10	25	29.20	30.13	13	SCT	NC			10.00	90	71	77	54	6	VR	29.11	30.03		
16	BKN	048			10.00	81	72	75	74	7	20	29.13	30.07	16	BKN	070			10.00	93	67	75	42	6	24	29.04	29.95		
19	BKN	055			10.00	81	72	75	74	8	20	29.13	30.06	19	BKN	110			10.00	89	69	75	52	0	00	29.01	29.93		
22	CLR	NC			10.00	76	72	73	88	0	00	29.16	30.09	22	CLR	NC			10.00	80	70	73	71	0	00	29.03	29.94		
SUNRISE: 0558					AUG 18					SUNSET: 1924					SUNRISE: 0602					AUG 24					SUNSET: 1917				
01	BKN	014			10.00	74	71	72	91	0	00	29.15	30.08	01	CLR	NC			9.00	76	71	73	85	0	00	29.03	29.94		
04	OVC	008			10.00	72	71	71	97	3	21	29.13	30.06	04	BKN	100			10.00	78	69	72	74	6	22	29.03	29.93		
07	OVC	004			5.00	72	71	71	97	7	21	29.15	30.08	07	CLR	NC			10.00	76	70	72	82	6	22	29.07	29.98		
10	CLR	NC			10.00	79	72	74	79	3	18	29.15	30.08	10	CLR	NC			10.00	82	71	74	69	6	VR	29.06	29.98		
13	SCT	NC			10.00	87	70	75	57	8	24	29.09	30.01	13	FEW	NC			10.00	87	70	75	57	10	28	29.03	29.94		
16	CLR	NC			10.00	88	70	75	55	9	21	29.05	29.96	16	BKN	100			10.00	90	69	75	50	3	VR	28.97	29.88		
19	FEW	NC			10.00	79	67	71	67	7	25	29.07	30.00	19	CLR	NC			10.00	85	70	75	61	5	27	28.97	29.89		
22	CLR	NC			10.00	74	70	71	88	0	00	29.10	30.03	22	CLR	NC			10.00	79	69	72	72	0	00	29.02	29.93		

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

AUGUST 2002

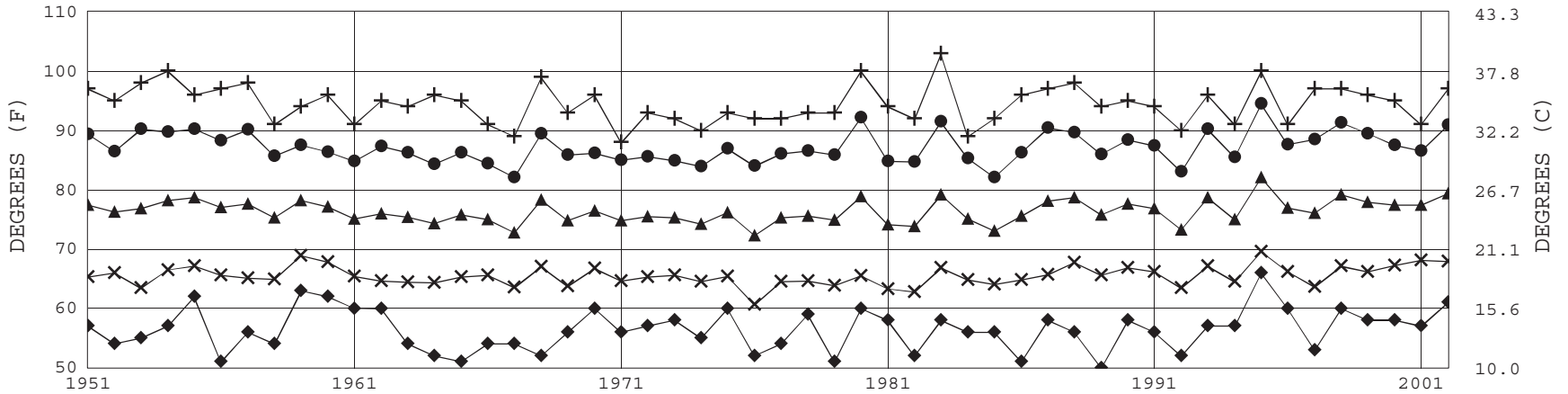
OQT

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 Otktas	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 Otktas	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION TENS OF DEG	STATION	SEA LEVEL
<b>SUNRISE: 0603</b>					<b>AUG 25</b>					<b>SUNSET: 1915</b>					<b>SUNRISE: 0608</b>					<b>AUG 31</b>					<b>SUNSET: 1907</b>				
01	CLR	NC	9.00		74	70	71	88	0	00	29.00	29.91	01	FEW	NC	7.00		69	67	68	93	0	00	29.22	30.15				
04	FEW	NC	5.00	BR	73	72	72	96	0	00	28.99	29.90	04	OVC	030	8.00		70	68	69	93	0	00	29.24	30.17				
07	BKN	110	3.00	BR	73	72	72	96	0	00	29.00	29.92	07	CLR	NC	4.00	BR	68	67	67	96	0	00	29.28	30.22				
10	SCT	NC	5.00	BR	76	73	74	91	5	26	29.03	29.95	10	CLR	NC	10.00		77	66	70	69	3	VR	29.30	30.24				
13	SCT	NC	8.00		83	71	75	67	5	VR	29.01	29.92	13	BKN	040	10.00		85	66	72	53	7	VR	29.27	30.20				
16	CLR	NC	7.00		70	66	67	87	0	00	28.98	29.91	16	SCT	NC	10.00		88	64	72	45	5	VR	29.21	30.14				
19	BKN	047	10.00		73	65	68	76	6	VR	29.01	29.94	19	FEW	NC	10.00		81	66	71	61	0	00	29.22	30.16				
22	CLR	NC	5.00	BR	68	68	68	100	3	06	29.01	29.94	22	OVC	044	10.00		76	68	71	77	0	00	29.27	30.20				
<b>SUNRISE: 0604</b>					<b>AUG 26</b>					<b>SUNSET: 1914</b>					<b>3-HOURLY OBSERVATION NOTES</b>														
01	CLR	NC	4.00	BR	67	67	67	100	0	00	28.98	29.91	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	4.00	BR	66	66	66	100	0	00	28.99	29.93	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																
07	CLR	NC	4.00	BR	67	66	66	97	0	00	29.00	29.94	NC = No ceiling detected.																
10	FEW	NC	9.00		75	68	70	79	3	10	29.02	29.95	& = Original observation contained additional weather elements.																
13	CLR	NC	10.00		82	66	71	58	10	07	28.98	29.91	See page 3 for additional notes.																
16	FEW	NC	10.00		84	64	71	51	3	VR	28.93	29.85																	
19	CLR	NC	10.00		77	63	68	62	5	36	28.96	29.89																	
22	CLR	NC	7.00		70	68	69	93	0	00	28.98	29.91																	
<b>SUNRISE: 0605</b>					<b>AUG 27</b>					<b>SUNSET: 1913</b>					<b>SUMMARY BY HOUR</b>														
01	CLR	NC	4.00	BR	68	67	67	96	0	00	29.00	29.93	AVERAGES																
04	CLR	NC	4.00	BR	65	65	65	100	0	00	29.01	29.93	RESULTANT WIND (MPH)																
07	VV	001	<.25	FG	64	64	64	100	0	00	29.06	29.99	HOUR (LST)																
10	FEW	NC	10.00		73	66	69	79	3	08	29.07	30.00	CEILOMETER																
13	SCT	NC	10.00		83	65	71	55	3	VR	29.06	29.98	EFF CLD AMT																
16	CLR	NC	10.00		84	62	70	48	0	00	29.02	29.94	DRY BULB																
19	OVC	029	1.25	+RA BR	69	68	68	96	7	08	29.07	30.01	DEW POINT																
22	FEW	NC	7.00		68	67	67	96	5	07	29.10	30.04	WET BULB																
<b>SUNRISE: 0605</b>					<b>AUG 28</b>					<b>SUNSET: 1911</b>					RELATIVE HUMIDITY														
01	CLR	NC	4.00	BR	65	64	64	97	0	00	29.08	30.02	PRESSURE (INCHES, HG)																
04	CLR	NC	4.00	BR	64	63	63	96	5	06	29.08	30.02	STATION																
07	CLR	NC	4.00	BR	65	63	64	93	0	00	29.10	30.05	SEA LEVEL																
10	CLR	NC	10.00		75	65	69	71	7	06	29.11	30.06	VISIBILITY (MILES)																
13	CLR	NC	10.00		83	64	71	53	12	06	29.08	30.01	WIND SPEED (MPH)																
16	SCT	NC	10.00		85	63	71	48	6	06	29.04	29.97	SPEED																
19	FEW	NC	10.00		81	63	69	54	7	VR	29.05	29.98	DIRECTION																
22	FEW	NC	10.00		74	65	68	74	0	00	29.07	30.00																	
<b>SUNRISE: 0606</b>					<b>AUG 29</b>					<b>SUNSET: 1910</b>																			
01	CLR	NC	10.00		71	65	67	81	5	10	29.08	30.00																	
04	CLR	NC	10.00		67	64	65	91	0	00	29.08	30.01																	
07	FEW	NC	8.00		66	64	65	93	0	00	29.11	30.05																	
10	CLR	NC	10.00		76	65	69	69	3	VR	29.11	30.05																	
13	CLR	NC	10.00		83	65	71	55	3	VR	29.09	30.02																	
16	CLR	NC	10.00		84	64	71	51	7	VR	29.07	29.99																	
19	CLR	NC	10.00		79	66	70	65	3	01	29.07	30.00																	
22	BKN	120	10.00		75	68	70	79	0	00	29.10	30.03																	
<b>SUNRISE: 0607</b>					<b>AUG 30</b>					<b>SUNSET: 1909</b>																			
01	OVC	039	9.00		73	68	70	84	0	00	29.12	30.05																	
04	OVC	100	6.00	BR	72	70	71	94	0	00	29.13	30.06																	
07	VV	001	<.25	FG	69	69	69	100	0	00	29.18	30.12																	
10	CLR	NC	10.00		79	69	72	72	5	10	29.19	30.12																	
13	BKN	060	10.00		83	66	72	57	5	VR	29.17	30.10																	
16	CLR	NC	10.00		82	69	73	65	3	VR	29.14	30.07																	
19	CLR	NC	10.00		80	69	73	69	0	00	29.15	30.08																	
22	CLR	NC	9.00		72	69	70	91	0	00	29.20	30.13																	



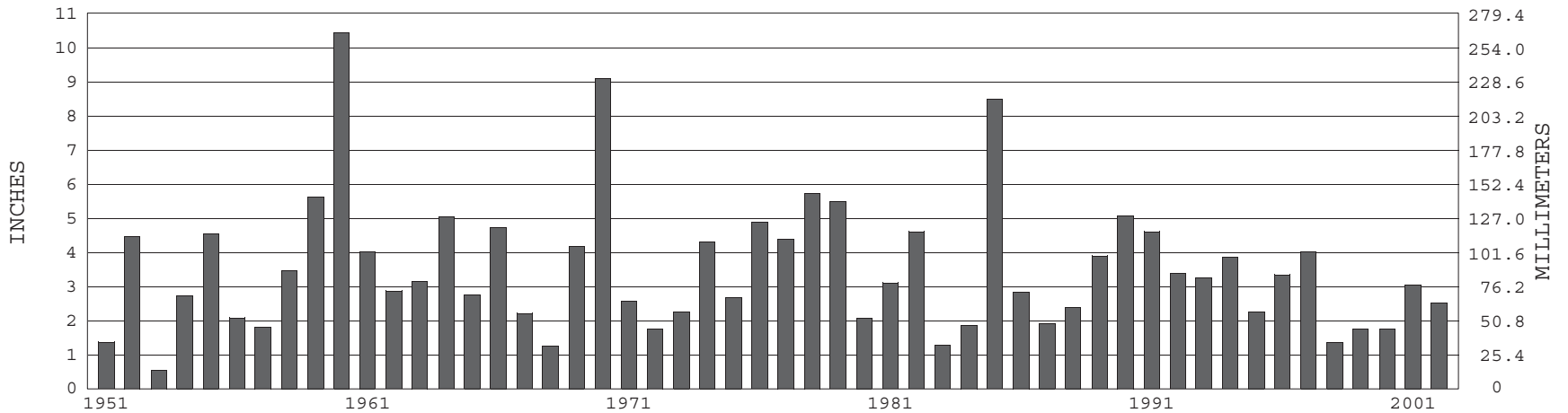
### OAK RIDGE, TN AUGUST TEMPERATURES



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

Long-Term (1951-2002) Mean: 76.4      1961-1990 Normal: .0

### OAK RIDGE, TN AUGUST PRECIPITATION



Long-Term (1951-2002) Mean Monthly Total: 3.52

1961-1990 Normal: 0.00



AUGUST 2002

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.*

DIRECTOR

NCDC now offers an annual online subscription for the **Edited Local Climatological Data Publication**. When you purchase this subscription service, you will have **immediate online access** to all previous publications back to July 1996 and all publications thereafter until the expiration of the subscription. Your subscription is valid for one year after purchase. **The total cost is \$29 for online delivery (including back issues) compared to \$34 for offline delivery.** To order this and other subscriptions on-line with your credit card, go to: [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov) and choose subscriptions.

We welcome your questions or comments, please contact us at  
Toll Free Number (866) 742–3322 (voice)  
Fax Number :(304) 726–4409  
TDD : 828–271–4010  
or Email : [ncdc.info@noaa.gov](mailto:ncdc.info@noaa.gov)  
Local Climatological Data is available at [www.ncdc.noaa.gov](http://www.ncdc.noaa.gov)

For address correction, please return a photocopy of this page to Subscription Services indicating changes

NCDC Subscription Services Center  
310 State Route 956 Building 300  
Rocket Center, WV 26726

OFFICIAL BUSINESS. PENALTY FOR PRIVATE USE \$300

FIRST CLASS  
POSTAGE AND FEES PAID  
NOAA  
PERMIT G-19