



JULY 2005

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 #: -

JULY 2005
 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	70	80	4	70	72	0	15	RA FG+ BR HZ				0.20	28.93	29.85	0.3	29	2.1	30*	32	18	31	01		
02	84	70	77	1	69	71	0	12	RA FG+ BR HZ				0.05	28.94	29.87	0.9	05	1.6	15	06	12	06	02		
03	78	68	73	-3	69	70	0	8	RA BR HZ				0.36	29.02	29.96	0.2	11	.6	10	28	8	29	03		
04	89	68	79	3	69	72	0	14	FG+ BR HZ				0.00	29.11	30.04	1.1	21	3.5	14	21	9	18	04		
05	84	72	78	1	69	72	0	13	RA BR HZ				0.08	29.09	30.02	0.8	24	3.6	16	22	12	24	05		
06	77	70	74	-3	69	71	0	9	RA BR				0.02	29.07	30.00	0.6	20	1.8	9	19	8	18	06		
07	75	64	70*	-7	65	67	0	5	RA FG+ BR				0.87	29.02	29.95	1.4	06	3.3	15	35	9	36	07		
08	85	64	75	-2	64	67	0	10	FG+ BR				0.00	29.11	30.05	0.6	11	1.7	12	07	9	06	08		
09	90	64*	77	0	64	69	0	12	FG+ BR HZ				0.00	29.15	30.08	1.1	08	1.9	13	08	9	08	09		
10	88	69	79	2	69	72	0	14	BR HZ				0.00	29.12	30.04	1.5	06	2.1	10	11	8	12	10		
11	82	69	76	-1	70	72	0	11	RA BR				0.35	29.00	29.93	0.9	06	3.3	21	20	14	20	11		
12	86	71	79	2	68	71	0	14	RA				0.03	29.06	29.98	5.5	21	7.2	22	21	16	21	12		
13	76	68	72	-5	69	70	0	7	RA FG BR HZ				1.69	29.00	29.93	2.8	21	4.3	17	21	13	26	13		
14	82	70	76	-1	71	71	0	11	RA FG+ BR HZ				3.24	28.95	29.88	1.5	20	2.8	15	19	13	20	14		
15	85	72	79	2	70	72	0	14	RA BR HZ				0.22	29.04	29.96	2.4	22	3.7	13	28	10	21	15		
16	86	73	80	3	70	72	0	15	RA BR				0.05	29.13	30.06	2.9	21	4.3	16	22	13	20	16		
17	86	73	80	3	72	74	0	15	RA				0.01	29.16	30.09	0.8	21	2.3	15	22	10	21	17		
18	89	73	81	3	72	74	0	16	RA BR				0.01	29.15	30.07	1.0	19	2.7	17	28	13	28	18		
19	89	72	81	3	71	73	0	16	RA BR				0.04	29.15	30.08	1.0	23	2.8	13	28	12	20	19		
20	88	70	79	1	71	73	0	14	RA FG+ BR				T	29.17	30.10	0.1	26	.5	17	27	13	29	20		
21	91	72	82	4	72	74	0	17	RA BR				0.24	29.14	30.06	0.4	27	1.4	29	29	18*	28	21		
22	91	71	81	3	69	73	0	16	RA BR				T	29.10	30.02	0.3	32	2.4	14	21	12	20	22		
23	91	70	81	3	70	73	0	16	BR				0.00	29.14	30.06	1.5	06	3.1	13	08	10	06	23		
24	91	70	81	3	69	73	0	16	BR HZ				0.00	29.15	30.07	0.5	18	2.1	10	12	8	18	24		
25	94	70	82	4	73	75	0	17	FG+ BR HZ				0.00	29.10	30.02	0.0	00	1.5	12	25	9	25	25		
26	95*	75	85*	7	74	77	0	20	FG+ BR HZ				0.00	29.04	29.95	1.5	21	2.9	12	21	9	21	26		
27	94	73	84	6	73	75	0	19	RA BR HZ				0.06	29.02	29.94	0.5	23	3.3	18	36	15	36	27		
28	85	71	78	0	70	72	0	13	RA BR HZ				0.08	29.08	30.00	1.9	07	2.8	13	07	10	07	28		
29	86	71	79	1	70	72	0	14	BR				0.00	29.14	30.07	1.3	08	2.0	10	35	8	06	29		
30	87	70	79	1	69	72	0	14	BR HZ				0.00	29.18	30.11	1.8	07	3.6	14	08	10	36	30		
31	91	71	81	4	68	72	0	16	BR HZ				0.00	29.17	30.09	0.6	09	2.6	16	15	14	11	31		
MONTHLY AVERAGES										TOTALS-->				<-- MONTHLY AVERAGES											
DEPARTURE FROM NORMAL														SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 4.14 DATE: 13-14				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.16 30 0853							
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH:				MINIMUM				: 29.80 01 1253							
HEATING: 0 0 0 0										NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 10				MINIMUM TEMP ≤ 32: 0				PRECIPITATION ≥ 0.01 INCH: 18			
COOLING: 423 43 820 70										MAXIMUM TEMP ≤ 32: 0				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 8							
										THUNDERSTORMS: 0				HEAVY FOG: 10				SNOWFALL ≥ 1.0 INCH: :							

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

JULY 2005

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			0.15	0.05	T							01		0.20		
02													02			0.05									02		0.05		
03									0.04	0.11	0.05	03	0.03	0.13											03		0.36		
04												04	0.07	T											04		0.00		
05			0.01	T								05	0.07	T											05		0.08		
06												06	0.01	0.01	T	T	T							T	06		0.02		
07				0.01	0.07	0.06	0.07	0.27	0.25	0.06	0.01	0.07	07	T										T	07		0.87		
08												08													08		0.00		
09												09													09		0.00		
10												10													10		0.00		
11												11	0.04	0.01	T	T	0.03							0.02	T	11		0.35	
12			T	T	0.01	0.04	0.01	T	0.01	0.03	T	T	12											0.02	T	12		0.03	
13												13	0.24	0.06	0.01	T	T							0.03	T	13		1.69	
14	0.42	0.48	0.06	0.53	T	0.05	0.01	0.01	0.26	0.04	0.02	0.09	14						0.94	0.35			T	0.01	0.01	14		3.24	
15		0.22	T			0.02			0.07	0.05	0.20	0.10	15													15		0.22	
16													16													16		0.05	
17													17		T											17		0.01	
18													18		0.01											18		0.01	
19													19		T	T										19		0.04	
20													20		T	T										20		T	
21													21			0.24	T									21		0.24	
22	T	T	T										22													22		T	
23													23													23		0.00	
24													24													24		0.00	
25													25													25		0.00	
26													26													26		0.00	
27													27	T												27		0.06	
28													28													28		0.08	
29													29													29		0.00	
30													30													30		0.00	
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 JULY 2005

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							.75	10.00	
02							.25	10.00	
03							1.50	10.00	
04							<.25	9.00	
05							6.00	10.00	
06							.75	10.00	
07							.25	10.00	
08							<.25	10.00	
09							<.25	10.00	
10							3.00	9.00	
11							2.50	10.00	
12							6.00	10.00	
13							.75	9.00	
14							.75	8.00	
15							.75	10.00	
16							2.00	10.00	
17							8.00	10.00	
18							1.75	10.00	
19							8.00	10.00	
20							.25	10.00	
21							4.00	10.00	
22							5.00	10.00	
23							5.00	10.00	
24							2.00	10.00	
25							<.25	8.00	
26							.25	10.00	
27							2.50	8.00	
28							2.00	10.00	
29							4.00	10.00	
30							3.00	10.00	
31							1.50	10.00	
MONTHLY AVGS							2.35	9.71	
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									
8 23 2									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JULY 2005

QQT

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: 0524					JUL 01					SUNSET: 1958					SUNRISE: 0527					JUL 07					SUNSET: 1957																			
01	CLR	NC			5.00	BR	73	70	71	90	5	07	28.96	29.88	01	CLR	NC			7.00	71	69	70	94	3	05	29.05	29.98	04	CLR	NC			9.00	-RA	70	65	67	84	5	07	29.01	29.94	
04	CLR	NC			3.00	BR	72	70	71	94	0	00	28.94	29.86	04	OVC	090			5.00	65	63	64	93	7	05	29.01	29.94	07	OVC	024			6.00	RA BR	65	63	64	93	7	05	29.01	29.94	
07	OVC	003			2.00	BR	73	70	71	90	0	00	28.95	29.87	10	CLR	NC			5.00	83	71	75	67	3	08	28.94	29.86	13	SCT	NC			8.00	-RA	67	65	66	93	7	05	28.99	29.93	
10	CLR	NC			5.00	HZ	83	71	75	67	3	08	28.94	29.86	16	CLR	NC			10.00	74	70	71	88	3	VR	28.89	29.80	19	SCT	NC			10.00	-RA	70	64	66	82	3	VR	29.00	29.93	
13	SCT	NC			8.00		89	67	74	48	5	VR	28.89	29.80	22	CLR	NC			10.00	79	68	72	69	0	00	28.90	29.82	01	CLR	NC			10.00		73	64	67	74	0	00	29.01	29.94	
16	SCT	NC			10.00	-RA	74	70	71	88	3	VR	28.93	29.85	19	CLR	NC			10.00	72	69	70	91	0	00	28.93	29.85	16	OVC	030			10.00		74	66	69	76	0	00	29.02	29.96	
19	CLR	NC			10.00		79	68	72	69	0	00	28.90	29.82	22	CLR	NC			10.00	68	65	66	90	0	00	28.93	29.85	19	FEW	NC			10.00		74	66	69	76	0	00	29.02	29.96	
22	CLR	NC			10.00		72	69	70	91	0	00	28.93	29.85	01	CLR	NC			10.00	68	65	66	90	0	00	28.93	29.85	22	CLR	NC			10.00		68	65	66	90	0	00	29.05	29.99	
SUNRISE: 0524					JUL 02					SUNSET: 1958					SUNRISE: 0528					JUL 08					SUNSET: 1957																			
01	CLR	NC			6.00	BR	70	69	69	97	0	00	28.92	29.83	01	VV	001			0.25	FG	66	65	65	96	0	00	29.07	30.01	01	VV	001			0.25	FG	65	64	64	97	0	00	29.08	30.01
04	VV	001			0.50	FG	70	69	69	97	0	00	28.91	29.84	04	VV	001			0.25	FG	64	64	64	100	0	00	29.13	30.08	04	VV	001			0.25	FG	64	64	64	100	0	00	29.13	30.08
07	OVC	003			4.00	BR	71	69	70	94	0	00	28.94	29.86	07	VV	001			10.00	76	70	72	82	3	VR	28.96	29.89	07	VV	001			10.00		72	66	68	82	3	VR	29.15	30.10	
10	OVC	009			6.00	HZ	76	70	72	82	3	VR	28.96	29.89	10	FEW	NC			10.00	82	69	73	65	8	05	28.95	29.87	10	FEW	NC			10.00		80	63	69	56	6	13	29.12	30.06	
13	BKN	031			9.00		82	69	73	65	8	05	28.95	29.87	13	CLR	NC			10.00	81	67	72	62	0	00	28.92	29.85	13	CLR	NC			10.00		85	62	70	46	3	VR	29.10	30.03	
16	BKN	090			10.00		81	67	72	62	0	00	28.92	29.85	16	CLR	NC			10.00	81	69	73	67	5	06	28.92	29.84	16	CLR	NC			10.00		81	64	70	57	3	18	29.08	30.02	
19	FEW	NC			10.00		81	69	73	67	5	06	28.92	29.84	19	CLR	NC			10.00	72	68	69	87	0	00	28.96	29.89	19	CLR	NC			10.00		72	67	69	84	0	00	29.13	30.07	
22	FEW	NC			8.00		72	68	69	87	0	00	28.96	29.89	22	CLR	NC			9.00	72	67	69	84	0	00	28.96	29.89	22	CLR	NC			9.00		72	67	69	84	0	00	29.13	30.07	
SUNRISE: 0525					JUL 03					SUNSET: 1957					SUNRISE: 0528					JUL 09					SUNSET: 1956																			
01	CLR	NC			5.00	BR	70	68	69	93	0	00	28.97	29.89	01	CLR	NC			5.00	BR	68	65	66	90	0	00	29.13	30.07	01	CLR	NC			2.50	BR	65	64	64	97	0	00	29.13	30.07
04	SCT	NC			2.50	BR	69	67	68	93	0	00	28.95	29.88	04	BKN	002			2.50	BR	65	64	64	97	0	00	29.13	30.07	04	BKN	002			0.25	FG	65	65	65	100	0	00	29.18	30.12
07	BKN	100			2.50	BR	71	68	69	90	0	00	29.00	29.93	07	VV	001			0.25	FG	65	65	65	100	0	00	29.18	30.12	07	VV	001			10.00		77	64	69	64	5	05	29.20	30.14
10	OVC	037			3.00	-RA BR	72	69	70	91	0	00	29.06	29.99	10	CLR	NC			10.00	73	70	71	90	3	26	29.06	29.99	10	CLR	NC			10.00		87	65	72	48	3	VR	29.16	30.09	
13	FEW	NC			1.50	BR	73	70	71	90	3	26	29.06	29.99	13	CLR	NC			10.00	77	69	72	77	0	00	29.01	29.93	13	CLR	NC			10.00		87	65	72	48	3	VR	29.16	30.09	
16	CLR	NC			10.00		77	69	72	77	0	00	29.01	29.93	16	CLR	NC			10.00	77	69	72	77	0	00	29.01	29.93	16	CLR	NC			10.00		88	60	70	39	6	08	29.10	30.03	
19	CLR	NC			6.00	HZ	78	71	73	79	0	00	29.04	29.96	19	CLR	NC			10.00	78	71	73	79	0	00	29.04	29.96	19	CLR	NC			10.00		85	65	72	51	0	00	29.10	30.04	
22	CLR	NC			4.00	BR	73	70	71	90	0	00	29.08	30.01	22	CLR	NC			6.00	HZ	74	68	70	82	0	00	29.08	30.01	22	CLR	NC			10.00		74	68	70	82	0	00	29.14	30.07
SUNRISE: 0525					JUL 04					SUNSET: 1957					SUNRISE: 0529					JUL 10					SUNSET: 1956																			
01	CLR	NC			3.00	BR	70	68	69	93	0	00	29.08	30.03	01	FEW	NC			6.00	HZ	73	67	69	81	0	00	29.13	30.05	01	FEW	NC			4.00	BR	70	67	68	90	0	00	29.13	30.06
04	SCT	NC			2.00	BR	68	66	67	93	0	00	29.09	30.03	04	CLR	NC			3.00	BR	71	67	68	87	0	00	29.16	30.09	04	CLR	NC			6.00	HZ	80	68	72	67	5	05	29.17	30.10
07	VV	001			0.25	FG	70	69	69	97	0	00	29.13	30.07	07	CLR	NC			8.00		86	66	73	51	5	08	29.14	30.07	07	CLR	NC			8.00		86	66	73	51	5	08	29.14	30.07
10	BKN	035			8.00		78	70	73	76	3	VR	29.16	30.09	10	CLR	NC			8.00		86	66	73	51	5	08	29.14	30.07	10	CLR	NC			8.00		86	68	74	55	5	VR	29.08	30.01
13	CLR	NC			7.00		85	70	75	61	7	VR	29.13	30.06	13	CLR	NC			9.00		83	70	74	65	3	06	29.07	29.99	13	CLR	NC			9.00		83	70	74	65	3	06	29.07	29.99
16	CLR	NC			9.00		88	69	75	54	8	23	29.08	30.00	16	CLR	NC			7.00		78	72	74	82	0	00	29.07	29.99	16	CLR	NC			7.00		78	72	74	82	0	00	29.07	29.99
19	CLR	NC			6.00	HZ	85	69	74	59	3	VR	29.08	30.00	19	CLR	NC			7.00		83	70	74	65	3	06	29.07	29.99	19	CLR	NC			7.00		83	70	74	65	3	06	29.07	29.99
22	FEW	NC			6.00	HZ	80	70	73	71	3	VR	29.11	30.03	22	CLR	NC			7.00		78	72	74	82	0	00	29.07	29.99	22	CLR	NC			7.00		78	72	74	82	0	00	29.07	29.99
SUNRISE: 0526					JUL 05					SUNSET: 1957					SUNRISE: 0529					JUL 11					SUNSET: 1956																			
01	BKN	060			6.00	HZ	76	70	72	82	3	22	29.12	30.05	01	SCT	NC			10.00	76	70	72	82	0	00	29.05	29.98	01	SCT	NC			8.00	-RA	72	69	70	91	3	VR	29.02	29.94	
04	OVC	016			7.00		73	70	71	90	5	VR	29.08	30.01	04	FEW	NC			10.00	72	69	70	92	0	00	29.01	29.94	04	FEW	NC			10.00	-RA	70	67	68	90	8	05	29.00	29.92	
07	OVC	007			7.00		72	69	70	91	5	VR	29.11	30.04	07	SCT	NC			10.00	76	70	72	82	5	VR	29.11	30.05	07	SCT	NC			10.00	-RA	73	67	69	81	6	04	29.03	29.96	
10	OVC	013			6.00	HZ	76	70	72	82	5	VR	29.11	30.05	10	OVC	021			10.00	76	72	73	88	0	00	29.03																	

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JULY 2005

QQT

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: 0531					JUL 13					SUNSET: 1955					SUNRISE: 0535					JUL 19					SUNSET: 1952				
01	CLR	NC	8.00		75	70	72	84	3	VR	29.05	29.96	01	CLR	NC	10.00		75	71	72	88	0	00	29.13	30.06				
04	BKN	026	9.00		75	70	72	84	3	VR	29.01	29.92	04	FEW	NC	9.00		73	70	71	90	0	00	29.12	30.05				
07	BKN	016	3.00	-RA BR	73	71	72	94	6	20	29.02	29.93	07	BKN	021	8.00		74	71	72	91	3	VR	29.16	30.09				
10	BKN	065	6.00	-RA BR	70	67	68	90	9	22	29.03	29.96	10	FEW	NC	10.00		82	73	76	74	7	19	29.16	30.09				
13	OVC	017	2.00	-RA BR	69	66	67	90	9	20	29.04	29.97	13	BKN	033	10.00		86	73	77	65	8	28	29.12	30.05				
16	OVC	014	5.00	HZ	73	68	70	84	5	21	28.96	29.89	16	BKN	055	10.00	-RA	79	69	72	72	8	28	29.15	30.08				
19	OVC	037	6.00	HZ	74	68	70	82	0	00	28.96	29.89	19	CLR	NC	10.00		75	72	73	90	5	07	29.14	30.08				
22	BKN	046	2.50	BR	71	70	70	96	0	00	28.96	29.90	22	CLR	NC	10.00		74	71	72	91	0	00	29.17	30.10				
SUNRISE: 0531					JUL 14					SUNSET: 1954					SUNRISE: 0535					JUL 20					SUNSET: 1951				
01	OVC	036	3.00	BR	71	70	70	96	0	00	28.94	29.88	01	FEW	NC	10.00		71	69	70	94	0	00	29.16	30.09				
04	OVC	008	3.00	-RA BR	71	70	70	96	0	00	28.94	29.87	04	VV	001	0.25	FG	70	69	69	97	0	00	29.16	30.09				
07	OVC	019	2.50	BR	72	70	71	94	0	00	28.96	29.89	07	OVC	004	0.25	FG	70	70	70	100	0	00	29.19	30.13				
10	OVC	015	1.00	+RA BR	72	69	70	91	6	VR	28.97	29.90	10	OVC	006	9.00		74	70	71	88	0	00	29.21	30.15				
13	OVC	013	5.00	BR	75	71	72	88	10	21	28.96	29.89	13	CLR	NC	10.00		85	70	75	61	0	00	29.17	30.10				
16	BKN	033	8.00		81	71	74	72	3	VR	28.90	29.83	16	FEW	NC	10.00	-RA	78	73	75	85	6	VR	29.14	30.08				
19	OVC	042	3.00	-RA BR	73	71	72	94	0	00	28.93	29.86	19	FEW	NC	10.00		81	72	75	74	0	00	29.13	30.06				
22	BKN	060	4.00	BR	73	71	72	94	0	00	28.97	29.90	22	CLR	NC	10.00		78	73	75	85	0	00	29.15	30.09				
SUNRISE: 0532					JUL 15					SUNSET: 1954					SUNRISE: 0536					JUL 21					SUNSET: 1951				
01	OVC	024	3.00	BR	73	71	72	94	0	00	28.98	29.91	01	CLR	NC	10.00		75	72	73	90	0	00	29.16	30.08				
04	OVC	021	5.00	BR	72	70	71	94	3	23	28.98	29.90	04	CLR	NC	7.00		72	70	71	94	0	00	29.15	30.08				
07	OVC	024	4.00	BR	73	70	71	90	5	VR	29.05	29.98	07	OVC	004	4.00	BR	73	71	72	94	0	00	29.19	30.12				
10	OVC	024	8.00		75	70	72	84	6	22	29.07	30.00	10	FEW	NC	10.00		82	72	75	72	3	VR	29.17	30.10				
13	BKN	040	8.00		79	70	73	74	8	18	29.06	29.98	13	FEW	NC	10.00		89	72	77	57	3	24	29.14	30.06				
16	CLR	NC	9.00		83	70	74	65	6	VR	29.02	29.93	16	BKN	019	8.00	-RA	74	69	71	85	0	00	29.11	30.05				
19	CLR	NC	8.00		82	70	74	67	0	00	29.02	29.94	19	CLR	NC	10.00		83	72	75	70	0	00	29.08	30.00				
22	OVC	033	6.00	HZ	77	72	74	85	0	00	29.08	30.01	22	CLR	NC	6.00	BR	76	74	75	94	0	00	29.10	30.03				
SUNRISE: 0533					JUL 16					SUNSET: 1954					SUNRISE: 0537					JUL 22					SUNSET: 1950				
01	BKN	028	10.00		75	69	71	82	3	26	29.08	30.01	01	BKN	120	6.00	BR	75	74	74	96	0	00	29.10	30.03				
04	OVC	025	10.00		74	69	71	85	5	VR	29.09	30.02	04	FEW	NC	10.00		73	70	71	90	0	00	29.09	30.03				
07	OVC	017	10.00		74	69	71	85	6	VR	29.15	30.08	07	FEW	NC	9.00		73	70	71	90	0	00	29.12	30.05				
10	OVC	028	10.00		76	70	72	82	7	21	29.16	30.09	10	SCT	NC	10.00		78	68	71	71	3	18	29.08	30.01				
13	BKN	042	10.00		81	69	73	67	8	19	29.15	30.08	13	CLR	NC	10.00		86	68	74	55	6	19	29.10	30.02				
16	BKN	050	10.00		85	71	75	63	3	VR	29.09	30.02	16	CLR	NC	10.00		91	66	74	44	6	VR	29.07	29.98				
19	FEW	NC	6.00	-RA	76	71	73	85	0	00	29.11	30.05	19	SCT	NC	10.00		87	69	75	55	5	35	29.07	29.99				
22	CLR	NC	10.00		74	71	72	91	0	00	29.14	30.08	22	CLR	NC	10.00		77	71	73	82	0	00	29.10	30.03				
SUNRISE: 0533					JUL 17					SUNSET: 1953					SUNRISE: 0537					JUL 23					SUNSET: 1949				
01	SCT	NC	10.00		74	71	72	91	0	00	29.15	30.08	01	CLR	NC	10.00		73	70	71	90	0	00	29.12	30.05				
04	SCT	NC	10.00		73	70	71	90	0	00	29.14	30.07	04	CLR	NC	9.00		71	69	70	94	3	07	29.11	30.03				
07	OVC	008	8.00		74	71	72	91	0	00	29.19	30.13	07	CLR	NC	7.00		73	69	70	87	3	05	29.14	30.07				
10	BKN	029	10.00		80	70	73	71	6	25	29.20	30.14	10	CLR	NC	10.00		83	70	74	65	5	VR	29.18	30.10				
13	OVC	033	10.00		84	72	76	67	6	VR	29.18	30.10	13	SCT	NC	10.00		88	70	75	55	3	VR	29.16	30.08				
16	FEW	NC	8.00	-RA	79	73	75	82	0	00	29.13	30.06	16	CLR	NC	10.00		91	67	75	45	6	VR	29.12	30.05				
19	CLR	NC	10.00		83	72	75	70	0	00	29.12	30.05	19	SCT	NC	10.00		86	69	74	57	3	01	29.13	30.05				
22	FEW	NC	9.00		78	74	75	87	0	00	29.17	30.09	22	CLR	NC	9.00		77	71	73	82	0	00	29.14	30.06				
SUNRISE: 0534					JUL 18					SUNSET: 1953					SUNRISE: 0538					JUL 24					SUNSET: 1949				
01	CLR	NC	8.00		75	72	73	90	0	00	29.17	30.09	01	CLR	NC	5.00	BR	73	70	71	90	0	00	29.16	30.09				
04	CLR	NC	6.00	BR	73	71	72	94	0	00	29.13	30.06	04	CLR	NC	4.00	BR	71	69	70	94	0	00	29.14	30.06				
07	OVC	005	4.00	BR	74	72	73	94	3	20	29.18	30.11	07	CLR	NC	2.50	BR	72	69	70	91	0	00	29.16	30.09				
10	BKN	060	10.00		82	73	76	74	5	VR	29.19	30.12	10	CLR	NC	9.00		83	68	73	61	6	VR	29.19	30.11				
13	SCT	NC	10.00		87	71	76	59	7	VR	29.14	30.06	13	FEW	NC	7.00		87	70	75	57	3	VR	29.17	30.09				
16	CLR	NC	10.00		81	70	73	69	3	VR	29.11	30.04	16	CLR	NC	9.00		90	69	75	50	6	VR	29.12	30.05				
19	CLR	NC	10.00		80	73	75	79	0	00	29.10	30.03	19	CLR	NC	6.00	HZ	88	68	74	52	3	26	29.10	30.02				
22	CLR	NC	10.00		77	74	75	90	0	00	29.15	30.07	22	CLR	NC	4.00	HZ	77	72	74	85	0	00	29.12	30.04				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

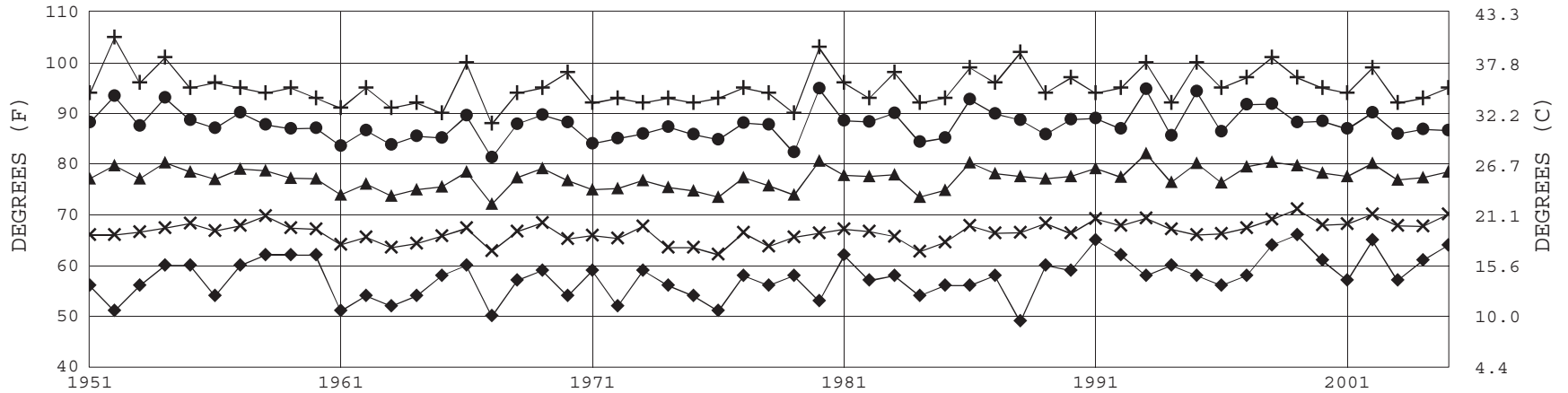
JULY 2005

QQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		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										
SUNRISE: 0539								JUL 25				SUNSET: 1948				SUNRISE: 0544								JUL 31				SUNSET: 1943			
01	CLR	NC			4.00	BR		74	71	72	91	0	00	29.13	30.06	01	FEW	NC			4.00	BR		73	69	70	87	0	00	29.18	30.10
04	CLR	NC			2.00	BR		72	70	71	94	0	00	29.12	30.05	04	OVC	110			5.00	HZ		74	68	70	82	0	00	29.17	30.10
07	VV	001			<.25	FG		71	70	70	96	0	00	29.14	30.06	07	CLR	NC			2.00	HZ		73	68	70	84	0	00	29.20	30.14
10	CLR	NC			4.00	HZ		82	73	76	74	0	00	29.14	30.07	10	SCT	NC			6.00	HZ		82	71	74	69	3	VR	29.19	30.12
13	FEW	NC			8.00			90	71	77	54	3	VR	29.10	30.02	13	SCT	NC			9.00			87	69	75	55	7	VR	29.16	30.09
16	CLR	NC			7.00			91	73	78	56	0	00	29.07	29.98	16	CLR	NC			10.00			90	66	74	45	9	05	29.10	30.02
19	CLR	NC			8.00			90	73	78	58	3	VR	29.05	29.97	19	SCT	NC			10.00			80	68	72	67	5	VR	29.13	30.06
22	CLR	NC			5.00	HZ		81	76	77	85	0	00	29.08	30.00	22	CLR	NC			10.00			73	68	70	84	0	00	29.16	30.10
SUNRISE: 0540								JUL 26				SUNSET: 1947				<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			4.00	BR		79	75	76	88	0	00	29.06	29.97																
04	VV	001			0.25	FG		75	74	74	96	0	00	29.08	29.99																
07	OVC	001			1.25	BR		75	74	74	96	0	00	29.08	30.00																
10	CLR	NC			5.00	HZ		87	75	78	67	3	VR	29.08	29.99																
13	CLR	NC			8.00			93	72	78	50	0	00	29.05	29.96																
16	CLR	NC			8.00			94	73	79	51	6	VR	29.01	29.92																
19	CLR	NC			9.00			90	74	78	59	6	21	28.99	29.90																
22	CLR	NC			7.00			84	76	78	77	0	00	29.01	29.91																
SUNRISE: 0540								JUL 27				SUNSET: 1947																			
01	CLR	NC			5.00	HZ		80	75	77	85	0	00	29.02	29.93																
04	CLR	NC			4.00	BR		78	74	75	87	0	00	29.03	29.93																
07	CLR	NC			3.00	BR		78	74	75	87	0	00	29.03	29.94																
10	CLR	NC			5.00	HZ		87	74	78	65	6	VR	29.04	29.95																
13	FEW	NC			6.00	HZ		90	73	78	58	7	19	29.01	29.92																
16	SCT	NC			8.00			91	70	76	50	7	30	28.99	29.90																
19	SCT	NC			5.00	BR		76	73	74	91	3	VR	29.02	29.93																
22	SCT	NC			6.00	BR		74	72	73	94	0	00	29.06	29.98																
SUNRISE: 0541								JUL 28				SUNSET: 1946																			
01	CLR	NC			6.00	BR		73	71	72	94	0	00	29.04	29.96																
04	OVC	001			2.00	BR		71	70	70	96	3	06	29.05	29.96																
07	OVC	003			3.00	BR		72	70	71	94	3	06	29.08	30.01																
10	BKN	016			6.00	HZ		78	71	73	79	3	VR	29.10	30.03																
13	CLR	NC			7.00			81	71	74	72	5	05	29.09	30.02																
16	BKN	033			6.00	HZ		83	72	75	70	3	06	29.06	29.98																
19	BKN	039			10.00			77	68	71	74	0	00	29.08	30.01																
22	BKN	033			6.00	-RA BR		73	70	71	90	0	00	29.13	30.06																
SUNRISE: 0542								JUL 29				SUNSET: 1945																			
01	BKN	026			4.00	BR		72	70	71	94	0	00	29.10	30.03																
04	OVC	003			4.00	BR		71	69	70	94	0	00	29.10	30.03																
07	SCT	NC			7.00			72	69	70	91	0	00	29.13	30.07																
10	BKN	018			10.00			78	70	73	76	5	07	29.16	30.10																
13	BKN	035			10.00			82	70	74	67	5	VR	29.15	30.08																
16	FEW	NC			10.00			85	69	74	59	3	VR	29.11	30.05																
19	FEW	NC			10.00			82	71	74	69	0	00	29.13	30.06																
22	CLR	NC			10.00			75	69	71	82	0	00	29.16	30.09																
SUNRISE: 0543								JUL 30				SUNSET: 1944																			
01	CLR	NC			7.00			71	68	69	90	0	00	29.16	30.09																
04	CLR	NC			5.00	BR		70	68	69	93	0	00	29.15	30.09																
07	OVC	022			3.00	BR		71	68	69	90	0	00	29.20	30.13																
10	SCT	NC			7.00			79	69	72	72	5	VR	29.22	30.15																
13	FEW	NC			9.00			86	70	75	59	8	04	29.19	30.12																
16	CLR	NC			9.00			86	69	74	57	8	08	29.16	30.09																
19	CLR	NC			5.00	HZ		82	69	73	65	5	VR	29.16	30.09																
22	BKN	042			5.00	HZ		76	70	72	82	3	VR	29.19	30.12																

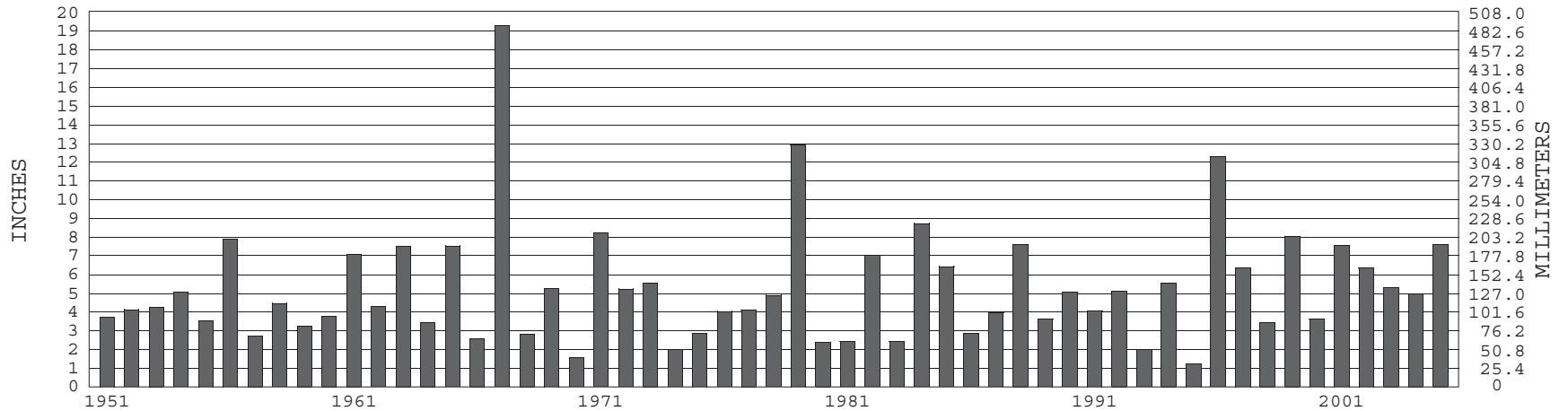
OAK RIDGE, TN JULY TEMPERATURES



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

Long-Term (1951-2005) Mean: 77.3 1971-2000 Normal: 77.3

OAK RIDGE, TN JULY PRECIPITATION



Long-Term (1951-2005) Mean Monthly Total: 5.27

1971-2000 Normal: 5.16



JULY 2005

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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