



JANUARY 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 #: -

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	55	27	41	4	30	36	24	0	FZFG BR				0.00	29.40	30.42	0.5	21	2.1	8	21	6	22	01			
02	58	46	52	15	40	47	13	0	RA				0.01	29.23	30.21	0.8	25	1.0	7	26	6	27	02			
03	66	55	61	24	57	58	4	0	RA FG+ BR				0.10	29.14	30.10	2.5	22	3.4	16	22	13	21	03			
04	71*	60	66*	29	59	62	0	1	RA BR				0.03	29.00	29.95	8.1	22	8.9	31*	21	22*	20	04			
05	70	34	52	15	43	46	13	0	RA BR				1.18	29.07	30.04	2.9	27	7.3	26	21	18	21	05			
06	35	19	27	-9	15	25	38	0					0.00	29.46	30.49	2.5	33	4.2	17	34	13	34	06			
07	31	14	23*	-13	5	18	42	0					0.00	29.57	30.63	0.3	18	3.4	13	19	10	20	07			
08	33	22	28	-8	16	25	37	0	RA SN UP				T	29.37	30.41	0.5	05	.5	7	32	6	33	08			
09	35	29	32	-4	27	30	33	0	RA FZRA SN BR UP				0.15	29.19	30.22	2.2	03	2.9	14	03	9	01	09			
10	35	23	29	-7	16	25	36	0					0.00	29.39	30.42	4.5	04	5.4	15	02	10	07	10			
11	43	17	30	-6	18	26	35	0					0.00	29.41	30.45	1.6	24	2.8	15	22	12	22	11			
12	55	30	43	7	27	35	22	0					0.00	29.30	30.32	3.3	24	4.0	16	20	12	26	12			
13	59	27	43	7	29	36	22	0					0.00	29.27	30.28	1.3	25	2.8	20	26	14	26	13			
14	56	26	41	5	30	37	24	0					0.00	29.05	30.05	3.2	24	4.7	23	28	15	27	14			
15	52	30	41	5	21	34	24	0					0.00	29.09	30.09	4.1	35	6.3	23	29	17	28	15			
16	50	26	38	2	17	29	27	0					0.00	29.20	30.22	2.0	05	2.7	10	07	8	07	16			
17	48	31	40	4	31	37	25	0	RA BR				0.19	29.05	30.05	0.4	19	2.3	16	22	12	26	17			
18	50	34	42	6	37	40	23	0	RA BR				0.57	28.74	29.73	3.1	35	4.2	16	32	13	01	18			
19	34	22	28	-8	16	25	37	0	SN				T	29.05	30.07	5.1	01	5.8	16	05	10	34	19			
20	37	18	28	-9	12	23	37	0					0.00	29.24	30.28	2.7	06	4.2	15	06	10	07	20			
21	41	24	33	-4	17	26	32	0					0.00	29.22	30.25	0.2	21	1.6	12	25	8	22	21			
22	49	22	36	-1	19	29	29	0					0.00	29.15	30.17	5.7	26	6.6	24	30	16	28	22			
23	39	17	28	-9	5	22	37	0					0.00	29.19	30.22	2.5	23	3.9	14	22	12	21	23			
24	58	26	42	5	25	35	23	0					0.00	29.01	30.02	1.0	22	4.0	20	22	13	24	24			
25	45	35	40	3	31	36	25	0	RA BR HZ				0.85	28.92	29.91	3.6	05	5.3	15	05	12	06	25			
26	48	41	45	8	30	38	20	0	HZ				0.00	28.90	29.89	1.4	23	3.5	12	27	8	21	26			
27	43	25	34	-3	24	31	31	0	RA SN HZ				0.10	28.96	29.96	7.1	27	8.9	26	29	16	28	27			
28	38	21	30	-7	14	24	35	0	SN				T	29.28	30.31	3.1	25	5.1	18	26	15	29	28			
29	49	22	36	-1	18	29	29	0					0.00	29.13	30.15	3.2	23	4.9	17	21	12	21	29			
30	42	24	33	-5	20	30	32	0					0.00	28.99	30.00	4.2	24	6.5	21	27	14	22	30			
31	40	13*	27	-11	7	20	38	0					0.00	29.16	30.20	5.5	05	5.8	15	05	12	06	31			
< MONTHLY AVERAGES											TOTALS-->				<- MONTHLY AVERAGES											
1.4											0.5				0.9											
DEGREE DAYS											GREATEST 24-HR PRECIPITATION: 1.18 DATE :05											SEA LEVEL PRESSURE DATE TIME				
MONTHLY TOTAL DEPARTURE											GREATEST 24-HR SNOWFALL:											: 30.70 07 0953				
SEASON TO DATE TOTAL DEPARTURE											GREATEST SNOW DEPTH:											: 29.61 18 0853				
HEATING: 847 -35 2209 -238											NUMBER OF DAYS WITH =>				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32 : 24				PRECIPITATION ≥ 0.01 INCH : 9			
COOLING: 1 1 1 1															MAXIMUM TEMP ≤ 32 : 1				MINIMUM TEMP ≤ 0 : 0				PRECIPITATION ≥ 0.10 INCH : 7			
															THUNDERSTORMS : 0				HEAVY FOG : 1				SNOWFALL ≥ 1.0 INCH :			

JANUARY 2004
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

JANUARY 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				T									02												02		0.01	
03			0.01 T		0.01	T			0.02	0.01	0.01	0.01	03							T				03		0.10		
04	0.01	T	0.02			T			T			T	04							T	T			04		0.03		
05		0.04	0.17	0.09	0.05	0.03	0.17	0.20	0.13	0.16	0.04	0.10	05	T							T			05		1.18		
06													06											06		0.00		
07													07											07		0.00		
08													08			T	T			T	T			08		T		
09	T	T	T	T	T	T	T	T	T	T	T	T	09	0.04	0.04	0.03	0.03	0.01		T	T	T	T	09		0.15		
10													10											10		0.00		
11													11											11		0.00		
12													12											12		0.00		
13													13											13		0.00		
14													14											14		0.00		
15													15											15		0.00		
16													16											16		0.00		
17													17		T	T	0.01	0.01	0.02	0.02	0.01	T	0.01	0.01	0.05	0.06	0.19	
18	0.04	0.01	0.02	0.01	0.07	0.05	0.10	0.07	0.08	0.07	0.03	0.01	18	T			T							18		0.57		
19											T	T	19											19		T		
20													20											20		0.00		
21													21											21		0.00		
22													22											22		0.00		
23													23											23		0.00		
24			T	T	0.01	0.02	0.05	0.08	0.12	0.18	0.11	0.10	24				0.04	0.02	T	0.01			24		0.00			
25													25	0.06	0.03	0.02	0.04	0.02	T				25		0.85			
26													26											26		0.00		
27				0.01	0.05	0.03	T	T	0.01				27	T	T	T	T	T	T				27		0.10			
28			T	T		T							28								T			28		T		
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)	.06	.10	.11	.15	.21	.27	.32	.35	.37	.43	.49	.54
Ending Date	05	05	05	05	05	05	05	05	05	05	05	05
Ending Time (Hour/Min)	0929	0933	0933	0713	0715	0715	0722	0735	0754	0818	0846	0936

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 JANUARY 2004

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							.50	10.00	
02							5.00	10.00	
03							.25	10.00	
04							4.00	10.00	
05							1.75	10.00	
06							10.00	10.00	
07							10.00	10.00	
08							9.00	10.00	
09							1.25	10.00	
10							10.00	10.00	
11							9.00	10.00	
12							10.00	10.00	
13							7.00	10.00	
14							7.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							2.50	10.00	
18							1.25	10.00	
19							8.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							10.00	10.00	
25							2.00	10.00	
26							1.25	10.00	
27							.75	10.00	
28							3.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.60	10.00	
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 1 10 19									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

JANUARY 2004

OQT

WBAN # 53868

HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F				WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER		CEILING 100'S OF FT	SATELLITE		OBSERVATION TIME (LST)	EFF CLD AMT Okta	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: 0747									JAN 13				SUNSET: 1744				SUNRISE: 0746									JAN 19				SUNSET: 1750					
01	CLR	NC						10.00		32	29	31	88	0	00	29.30	30.31	01	OVC	033						10.00		33	22	29	64	7	35	28.93	29.92
04	CLR	NC						9.00		29	26	28	89	0	00	29.30	30.31	04	OVC	035						10.00		32	21	28	64	6	02	28.93	29.93
07	CLR	NC						9.00		28	26	27	92	0	00	29.32	30.34	07	OVC	035						10.00		30	17	26	59	6	34	28.97	29.98
10	CLR	NC						10.00		39	33	37	79	3	VR	29.33	30.34	10	OVC	029						10.00		28	18	25	66	7	03	29.05	30.06
13	CLR	NC						10.00		54	32	44	43	7	VR	29.25	30.25	13	OVC	033						10.00		30	15	25	54	5	36	29.06	30.08
16	CLR	NC						10.00		59	30	46	33	7	VR	29.21	30.21	16	OVC	037						10.00		30	16	25	56	7	06	29.08	30.09
19	CLR	NC						10.00		48	30	40	50	3	33	29.24	30.26	19	CLR	NC						10.00		25	14	22	63	5	02	29.13	30.16
22	CLR	NC						10.00		43	30	38	60	5	28	29.25	30.26	22	CLR	NC						10.00		23	11	20	60	7	03	29.18	30.22
SUNRISE: 0747									JAN 14				SUNSET: 1745				SUNRISE: 0745									JAN 20				SUNSET: 1751					
01	CLR	NC						10.00		33	28	31	82	0	00	29.22	30.22	01	CLR	NC						10.00		22	10	19	60	5	03	29.21	30.25
04	CLR	NC						10.00		31	27	29	85	0	00	29.21	30.21	04	FEW	NC						10.00		21	11	18	65	6	01	29.22	30.26
07	CLR	NC						10.00		26	24	25	92	0	00	29.20	30.22	07	CLR	NC						10.00		18	13	17	81	0	00	29.24	30.29
10	CLR	NC						10.00		38	29	34	70	5	25	29.17	30.18	10	CLR	NC						10.00		25	12	21	58	6	05	29.28	30.33
13	CLR	NC						10.00		51	29	42	43	8	22	29.06	30.05	13	CLR	NC						10.00		32	12	26	43	5	VR	29.26	30.30
16	CLR	NC						10.00		55	28	43	36	9	20	28.92	29.91	16	CLR	NC						10.00		37	12	29	36	7	VR	29.22	30.26
19	BKN	047						10.00		53	32	44	45	5	24	28.90	29.90	19	CLR	NC						10.00		31	12	25	45	3	02	29.23	30.27
22	OVC	041						10.00		52	39	46	61	10	25	28.89	29.88	22	CLR	NC						10.00		28	13	23	53	3	11	29.24	30.28
SUNRISE: 0747									JAN 15				SUNSET: 1746				SUNRISE: 0745									JAN 21				SUNSET: 1752					
01	BKN	046						10.00		50	41	46	71	8	25	28.86	29.83	01	CLR	NC						10.00		25	13	21	60	0	00	29.25	30.28
04	OVC	043						10.00		44	27	37	51	10	34	28.96	29.94	04	OVC	080						10.00		25	17	23	72	0	00	29.25	30.28
07	OVC	037						10.00		39	25	34	57	9	36	29.07	30.06	07	OVC	070						10.00		27	18	24	69	0	00	29.25	30.28
10	OVC	036						10.00		38	24	33	57	7	36	29.16	30.16	10	OVC	065						10.00		29	16	25	58	0	00	29.26	30.30
13	CLR	NC						10.00		42	20	34	41	0	00	29.12	30.12	13	OVC	090						10.00		36	16	29	44	7	22	29.23	30.26
16	CLR	NC						10.00		46	18	36	33	5	02	29.10	30.10	16	FEW	NC						10.00		40	16	32	38	7	22	29.19	30.21
19	CLR	NC						10.00		38	13	30	36	5	01	29.14	30.15	19	CLR	NC						10.00		33	19	28	56	0	00	29.20	30.23
22	CLR	NC						10.00		33	14	27	45	7	05	29.19	30.21	22	CLR	NC						10.00		29	19	26	66	0	00	29.19	30.22
SUNRISE: 0747									JAN 16				SUNSET: 1747				SUNRISE: 0744									JAN 22				SUNSET: 1753					
01	CLR	NC						10.00		29	15	25	56	0	00	29.19	30.21	01	CLR	NC						10.00		26	18	23	71	0	00	29.19	30.22
04	CLR	NC						10.00		27	17	24	66	3	05	29.21	30.22	04	CLR	NC						10.00		28	18	25	66	5	24	29.16	30.18
07	CLR	NC						10.00		27	16	24	63	0	00	29.22	30.25	07	CLR	NC						10.00		24	19	22	81	0	00	29.16	30.19
10	CLR	NC						10.00		31	18	27	59	5	06	29.25	30.28	10	CLR	NC						10.00		34	22	30	61	5	VR	29.15	30.18
13	CLR	NC						10.00		44	12	33	27	3	VR	29.19	30.21	13	CLR	NC						10.00		46	27	38	47	9	24	29.09	30.11
16	CLR	NC						10.00		49	17	37	28	6	02	29.17	30.19	16	BKN	080						10.00		47	28	39	48	15	28	29.07	30.07
19	CLR	NC						10.00		40	20	33	45	0	00	29.18	30.20	19	CLR	NC						10.00		40	24	34	53	13	27	29.12	30.14
22	CLR	NC						10.00		34	22	30	61	0	00	29.19	30.21	22	CLR	NC						10.00		33	-2	24	22	6	VR	29.19	30.21
SUNRISE: 0746									JAN 17				SUNSET: 1748				SUNRISE: 0744									JAN 23				SUNSET: 1754					
01	SCT	NC						10.00		32	24	29	73	3	07	29.17	30.18	01	CLR	NC						10.00		26	5	20	40	3	VR	29.24	30.26
04	OVC	095						10.00		33	25	30	72	0	00	29.16	30.16	04	CLR	NC						10.00		20	8	17	60	0	00	29.27	30.29
07	OVC	090						10.00		36	25	32	64	0	00	29.13	30.14	07	CLR	NC						10.00		18	2	14	49	0	00	29.29	30.32
10	OVC	095						10.00		40	24	34	53	0	00	29.13	30.15	10	CLR	NC						10.00		23	4	18	44	3	21	29.31	30.35
13	OVC	085						10.00		47	24	38	41	8	24	29.08	30.09	13	CLR	NC						10.00		31	3	23	30	5	VR	29.24	30.27
16	OVC	075						10.00	-RA	45	36	41	71	0	00	28.98	29.98	16	CLR	NC						10.00		38	3	28	23	9	24	29.12	30.15
19	OVC	055						5.00	BR	43	41	42	93	0	00	28.93	29.92	19	CLR	NC						10.00		34	6	26	31	6	23	29.08	30.11
22	OVC	060						4.00	-RA BR	42	41	42	96	3	VR	28.89	29.88	22	CLR	NC						10.00		33	8	26	35	5	VR	29.04	30.06
SUNRISE: 0746									JAN 18				SUNSET: 1749				SUNRISE: 0743									JAN 24				SUNSET: 1755					
01	OVC	045						1.75	-RA BR	43	42	43	97	0	00	28.77	29.76	01	CLR	NC						10.00		30	12	24	47	5	VR	29.03	30.05
04	OVC	026						2.50	-RA BR	43	41	42	93	0	00	28.69	29.67	04	SCT	NC						10.00		29	14	24	54	5	21	29.01	30.02
07	OVC	006						1.50	RA BR	43	42	43	97	0	00	28.65	29.62	07	CLR	NC						10.00		27	17	24	66	0	00	29.00	30.02
10	OVC	006						2.00	-RA BR	45	44	45	97	0	00	28.64	29.62	10	CLR	NC						10.00		39	21	32	48	0	00	29.03	30.04
13	OVC	024						10.00		48	46	47	93	0	00	28.66	29.63	13	CLR	NC						10.00		54	34	45	47	7	VR	29.01	30.00
16	OVC	055						10.00		43	35	40	74	12	35	28.74	29.73	16	CLR	NC						10.00		57	33	46	41	6	25	28.98	29.96
19	OVC	031	</																																

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

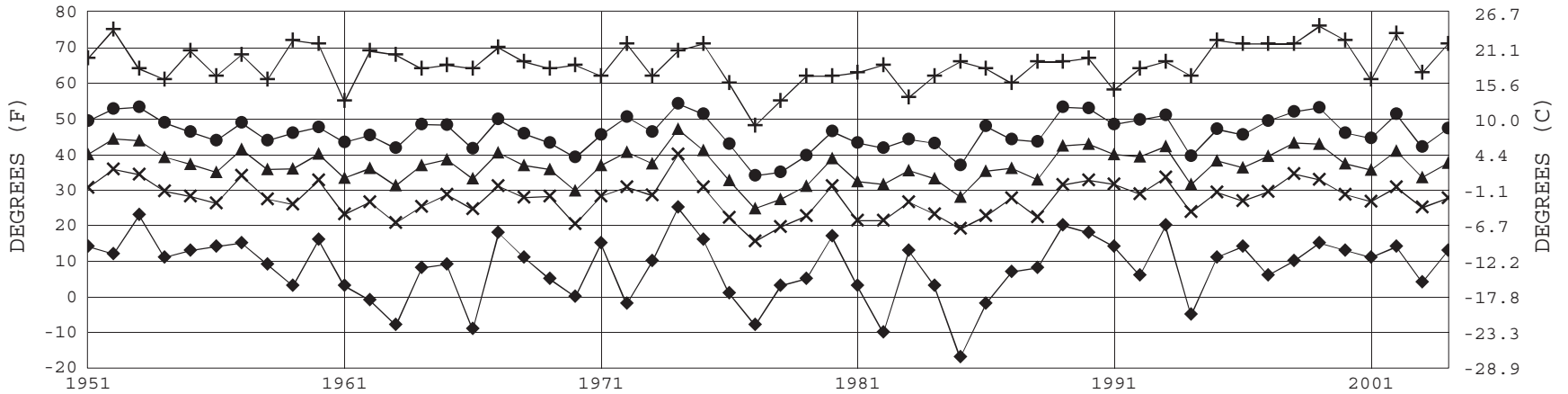
JANUARY 2004

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: 0743					JAN 25			SUNSET: 1756					SUNRISE: 0739					JAN 31			SUNSET: 1802																																																																																																																																																																																																																																																																																																																																																					
01	FEW	NC	10.00		41	28	36	60	7	03	29.05	30.03	01	CLR	NC	10.00		22	11	19	63	5	05	29.09	30.12																																																																																																																																																																																																																																																																																																																																																	
04	OVC	070	10.00	-RA	38	31	35	76	8	05	29.01	29.99	04	CLR	NC	10.00		17	7	15	64	7	06	29.11	30.15																																																																																																																																																																																																																																																																																																																																																	
07	OVC	055	7.00	-RA	36	31	34	82	9	06	29.02	30.01	07	CLR	NC	10.00		14	7	12	73	8	04	29.18	30.22																																																																																																																																																																																																																																																																																																																																																	
10	OVC	032	2.00	+RA BR	35	31	33	85	9	05	28.97	29.96	10	CLR	NC	10.00		19	5	16	54	7	06	29.21	30.26																																																																																																																																																																																																																																																																																																																																																	
13	OVC	022	4.00	-RA	38	31	35	76	3	04	28.86	29.86	13	CLR	NC	10.00		32	4	24	30	8	07	29.16	30.20																																																																																																																																																																																																																																																																																																																																																	
16	OVC	013	3.00	RA	41	31	37	67	6	08	28.76	29.75	16	CLR	NC	10.00		39	2	28	21	7	06	29.12	30.16																																																																																																																																																																																																																																																																																																																																																	
19	OVC	030	10.00		44	31	38	60	8	24	28.82	29.81	19	CLR	NC	10.00		32	6	25	33	0	00	29.16	30.20																																																																																																																																																																																																																																																																																																																																																	
22	OVC	008	10.00		44	31	39	60	3	VR	28.87	29.87	22	CLR	NC	10.00		27	12	23	53	3	04	29.17	30.21																																																																																																																																																																																																																																																																																																																																																	
SUNRISE: 0742					JAN 26			SUNSET: 1757					3-HOURLY OBSERVATION NOTES																																																																																																																																																																																																																																																																																																																																																													
01	OVC	011	10.00		42	32	38	68	5	VR	28.91	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	OVC	010	10.00		41	32	37	70	3	VR	28.91	29.91	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.																																																																																																																																																																																																																																																																																																																																																													
07	OVC	007	8.00		41	31	37	67	0	00	28.93	29.92	NC= No ceiling detected.																																																																																																																																																																																																																																																																																																																																																													
10	OVC	013	10.00		42	31	37	65	5	08	28.93	29.92	& = Original observation contained additional weather elements.																																																																																																																																																																																																																																																																																																																																																													
13	OVC	015	10.00		47	31	40	54	3	21	28.92	29.90	See page 3 for additional notes.																																																																																																																																																																																																																																																																																																																																																													
16	OVC	011	10.00		47	29	39	50	6	VR	28.87	29.86																																																																																																																																																																																																																																																																																																																																																														
19	OVC	008	6.00	HZ	45	28	38	52	5	22	28.88	29.87																																																																																																																																																																																																																																																																																																																																																														
22	OVC	006	5.00	HZ	44	28	37	53	3	21	28.88	29.87																																																																																																																																																																																																																																																																																																																																																														
SUNRISE: 0741					JAN 27			SUNSET: 1758					SUMMARY BY HOUR																																																																																																																																																																																																																																																																																																																																																													
01	OVC	002	0.75	HZ	43	32	38	65	3	VR	28.85	29.84	<table border="1"> <thead> <tr> <th rowspan="3">HOUR (LST)</th> <th colspan="10">AVERAGES</th> <th colspan="2">RESULTANT WIND (MPH)</th> </tr> <tr> <th rowspan="2">CEILOMETER</th> <th rowspan="2">EFF CLD AMT</th> <th rowspan="2">DRY BULB</th> <th rowspan="2">DEW POINT</th> <th rowspan="2">WET BULB</th> <th rowspan="2">RELATIVE HUMIDITY</th> <th colspan="2">PRESSURE (INCHES, HG)</th> <th rowspan="2">VISIBILITY (MILES)</th> <th rowspan="2">WIND SPEED (MPH)</th> <th rowspan="2">SPEED</th> <th rowspan="2">DIRECTION</th> </tr> <tr> <th>STATION</th> <th>SEA LEVEL</th> </tr> </thead> <tbody> <tr><td>01</td><td></td><td></td><td>35</td><td>25</td><td>31</td><td>68</td><td>29.16</td><td>30.17</td><td>9.24</td><td>3</td><td>1</td><td>28</td></tr> <tr><td>02</td><td></td><td></td><td>34</td><td>25</td><td>31</td><td>69</td><td>29.16</td><td>30.17</td><td>8.85</td><td>3</td><td>1</td><td>28</td></tr> <tr><td>03</td><td></td><td></td><td>34</td><td>25</td><td>31</td><td>72</td><td>29.17</td><td>30.18</td><td>8.50</td><td>3</td><td>1</td><td>30</td></tr> <tr><td>04</td><td></td><td></td><td>33</td><td>25</td><td>30</td><td>72</td><td>29.16</td><td>30.17</td><td>8.98</td><td>3</td><td>1</td><td>31</td></tr> <tr><td>05</td><td></td><td></td><td>33</td><td>25</td><td>30</td><td>73</td><td>29.16</td><td>30.17</td><td>8.62</td><td>3</td><td>1</td><td>32</td></tr> <tr><td>06</td><td></td><td></td><td>33</td><td>25</td><td>30</td><td>73</td><td>29.16</td><td>30.18</td><td>8.92</td><td>3</td><td>1</td><td>33</td></tr> <tr><td>07</td><td></td><td></td><td>32</td><td>24</td><td>29</td><td>74</td><td>29.18</td><td>30.19</td><td>8.71</td><td>3</td><td>1</td><td>35</td></tr> <tr><td>08</td><td></td><td></td><td>32</td><td>24</td><td>29</td><td>75</td><td>29.18</td><td>30.20</td><td>8.48</td><td>3</td><td>0</td><td>0</td></tr> <tr><td>09</td><td></td><td></td><td>33</td><td>25</td><td>30</td><td>72</td><td>29.20</td><td>30.21</td><td>8.62</td><td>3</td><td>1</td><td>36</td></tr> <tr><td>10</td><td></td><td></td><td>35</td><td>25</td><td>32</td><td>67</td><td>29.21</td><td>30.22</td><td>8.72</td><td>3</td><td>1</td><td>35</td></tr> <tr><td>11</td><td></td><td></td><td>38</td><td>25</td><td>33</td><td>62</td><td>29.21</td><td>30.22</td><td>8.72</td><td>4</td><td>1</td><td>23</td></tr> <tr><td>12</td><td></td><td></td><td>40</td><td>25</td><td>35</td><td>58</td><td>29.20</td><td>30.21</td><td>9.06</td><td>3</td><td>1</td><td>27</td></tr> <tr><td>13</td><td></td><td></td><td>42</td><td>25</td><td>36</td><td>53</td><td>29.17</td><td>30.18</td><td>9.53</td><td>4</td><td>2</td><td>25</td></tr> <tr><td>14</td><td></td><td></td><td>43</td><td>24</td><td>36</td><td>49</td><td>29.14</td><td>30.15</td><td>9.56</td><td>4</td><td>2</td><td>24</td></tr> <tr><td>15</td><td></td><td></td><td>44</td><td>24</td><td>37</td><td>48</td><td>29.13</td><td>30.14</td><td>9.52</td><td>5</td><td>2</td><td>25</td></tr> <tr><td>16</td><td></td><td></td><td>44</td><td>24</td><td>37</td><td>47</td><td>29.13</td><td>30.14</td><td>9.58</td><td>6</td><td>2</td><td>25</td></tr> <tr><td>17</td><td></td><td></td><td>44</td><td>23</td><td>36</td><td>48</td><td>29.13</td><td>30.14</td><td>9.68</td><td>4</td><td>1</td><td>27</td></tr> <tr><td>18</td><td></td><td></td><td>42</td><td>23</td><td>35</td><td>51</td><td>29.14</td><td>30.15</td><td>9.55</td><td>4</td><td>1</td><td>26</td></tr> <tr><td>19</td><td></td><td></td><td>40</td><td>24</td><td>34</td><td>54</td><td>29.15</td><td>30.16</td><td>9.71</td><td>4</td><td>2</td><td>27</td></tr> <tr><td>20</td><td></td><td></td><td>39</td><td>23</td><td>33</td><td>55</td><td>29.15</td><td>30.17</td><td>9.71</td><td>3</td><td>1</td><td>28</td></tr> <tr><td>21</td><td></td><td></td><td>38</td><td>23</td><td>32</td><td>58</td><td>29.16</td><td>30.17</td><td>9.68</td><td>3</td><td>1</td><td>29</td></tr> <tr><td>22</td><td></td><td></td><td>37</td><td>23</td><td>32</td><td>59</td><td>29.16</td><td>30.18</td><td>9.65</td><td>3</td><td>0</td><td>0</td></tr> <tr><td>23</td><td></td><td></td><td>36</td><td>24</td><td>32</td><td>62</td><td>29.17</td><td>30.18</td><td>9.42</td><td>4</td><td>1</td><td>27</td></tr> <tr><td>24</td><td></td><td></td><td>35</td><td>24</td><td>31</td><td>65</td><td>29.16</td><td>30.18</td><td>9.28</td><td>3</td><td>1</td><td>30</td></tr> </tbody> </table>											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			35	25	31	68	29.16	30.17	9.24	3	1	28	02			34	25	31	69	29.16	30.17	8.85	3	1	28	03			34	25	31	72	29.17	30.18	8.50	3	1	30	04			33	25	30	72	29.16	30.17	8.98	3	1	31	05			33	25	30	73	29.16	30.17	8.62	3	1	32	06			33	25	30	73	29.16	30.18	8.92	3	1	33	07			32	24	29	74	29.18	30.19	8.71	3	1	35	08			32	24	29	75	29.18	30.20	8.48	3	0	0	09			33	25	30	72	29.20	30.21	8.62	3	1	36	10			35	25	32	67	29.21	30.22	8.72	3	1	35	11			38	25	33	62	29.21	30.22	8.72	4	1	23	12			40	25	35	58	29.20	30.21	9.06	3	1	27	13			42	25	36	53	29.17	30.18	9.53	4	2	25	14			43	24	36	49	29.14	30.15	9.56	4	2	24	15			44	24	37	48	29.13	30.14	9.52	5	2	25	16			44	24	37	47	29.13	30.14	9.58	6	2	25	17			44	23	36	48	29.13	30.14	9.68	4	1	27	18			42	23	35	51	29.14	30.15	9.55	4	1	26	19			40	24	34	54	29.15	30.16	9.71	4	2	27	20			39	23	33	55	29.15	30.17	9.71	3	1	28	21			38	23	32	58	29.16	30.17	9.68	3	1	29	22			37	23	32	59	29.16	30.18	9.65	3	0	0	23			36	24	32	62	29.17	30.18	9.42	4	1	27	24			35	24	31	65	29.16	30.18	9.28	3	1	30
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			35	25	31	68	29.16	30.17	9.24	3	1	28																																																																																																																																																																																																																																																																																																																																																														
02			34	25	31	69	29.16	30.17	8.85	3	1	28																																																																																																																																																																																																																																																																																																																																																														
03			34	25	31	72	29.17	30.18	8.50	3	1	30																																																																																																																																																																																																																																																																																																																																																														
04			33	25	30	72	29.16	30.17	8.98	3	1	31																																																																																																																																																																																																																																																																																																																																																														
05			33	25	30	73	29.16	30.17	8.62	3	1	32																																																																																																																																																																																																																																																																																																																																																														
06			33	25	30	73	29.16	30.18	8.92	3	1	33																																																																																																																																																																																																																																																																																																																																																														
07			32	24	29	74	29.18	30.19	8.71	3	1	35																																																																																																																																																																																																																																																																																																																																																														
08			32	24	29	75	29.18	30.20	8.48	3	0	0																																																																																																																																																																																																																																																																																																																																																														
09			33	25	30	72	29.20	30.21	8.62	3	1	36																																																																																																																																																																																																																																																																																																																																																														
10			35	25	32	67	29.21	30.22	8.72	3	1	35																																																																																																																																																																																																																																																																																																																																																														
11			38	25	33	62	29.21	30.22	8.72	4	1	23																																																																																																																																																																																																																																																																																																																																																														
12			40	25	35	58	29.20	30.21	9.06	3	1	27																																																																																																																																																																																																																																																																																																																																																														
13			42	25	36	53	29.17	30.18	9.53	4	2	25																																																																																																																																																																																																																																																																																																																																																														
14			43	24	36	49	29.14	30.15	9.56	4	2	24																																																																																																																																																																																																																																																																																																																																																														
15			44	24	37	48	29.13	30.14	9.52	5	2	25																																																																																																																																																																																																																																																																																																																																																														
16			44	24	37	47	29.13	30.14	9.58	6	2	25																																																																																																																																																																																																																																																																																																																																																														
17			44	23	36	48	29.13	30.14	9.68	4	1	27																																																																																																																																																																																																																																																																																																																																																														
18			42	23	35	51	29.14	30.15	9.55	4	1	26																																																																																																																																																																																																																																																																																																																																																														
19			40	24	34	54	29.15	30.16	9.71	4	2	27																																																																																																																																																																																																																																																																																																																																																														
20			39	23	33	55	29.15	30.17	9.71	3	1	28																																																																																																																																																																																																																																																																																																																																																														
21			38	23	32	58	29.16	30.17	9.68	3	1	29																																																																																																																																																																																																																																																																																																																																																														
22			37	23	32	59	29.16	30.18	9.65	3	0	0																																																																																																																																																																																																																																																																																																																																																														
23			36	24	32	62	29.17	30.18	9.42	4	1	27																																																																																																																																																																																																																																																																																																																																																														
24			35	24	31	65	29.16	30.18	9.28	3	1	30																																																																																																																																																																																																																																																																																																																																																														
04	OVC	004	5.00	HZ	41	32	37	70	3	VR	28.83	29.81																																																																																																																																																																																																																																																																																																																																																														
07	OVC	008	8.00		41	31	37	67	7	VR	28.83	29.82																																																																																																																																																																																																																																																																																																																																																														
10	OVC	027	10.00		39	31	36	73	9	26	28.90	29.89																																																																																																																																																																																																																																																																																																																																																														
13	OVC	038	9.00	-SN	34	25	31	70	14	29	28.95	29.94																																																																																																																																																																																																																																																																																																																																																														
16	OVC	037	4.00	-SN	31	23	28	72	12	28	28.98	29.98																																																																																																																																																																																																																																																																																																																																																														
19	BKN	050	10.00		29	14	24	54	10	28	29.08	30.09																																																																																																																																																																																																																																																																																																																																																														
22	OVC	042	10.00		26	13	22	57	7	VR	29.15	30.17																																																																																																																																																																																																																																																																																																																																																														
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01	OVC	040	10.00		25	14	22	63	7	29	29.18	30.21																																																																																																																																																																																																																																																																																																																																																														
04	OVC	040	10.00		24	11	20	57	8	30	29.22	30.26																																																																																																																																																																																																																																																																																																																																																														
07	OVC	036	10.00		22	11	19	63	5	VR	29.28	30.32																																																																																																																																																																																																																																																																																																																																																														
10	BKN	026	10.00		24	12	21	60	5	27	29.32	30.37																																																																																																																																																																																																																																																																																																																																																														
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07	OVC	018	10.00		39	32	36	76	8	27	28.97	29.96																																																																																																																																																																																																																																																																																																																																																														
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22	OVC	100	10.00		29	13	24	51	0	00	29.05	30.06																																																																																																																																																																																																																																																																																																																																																														

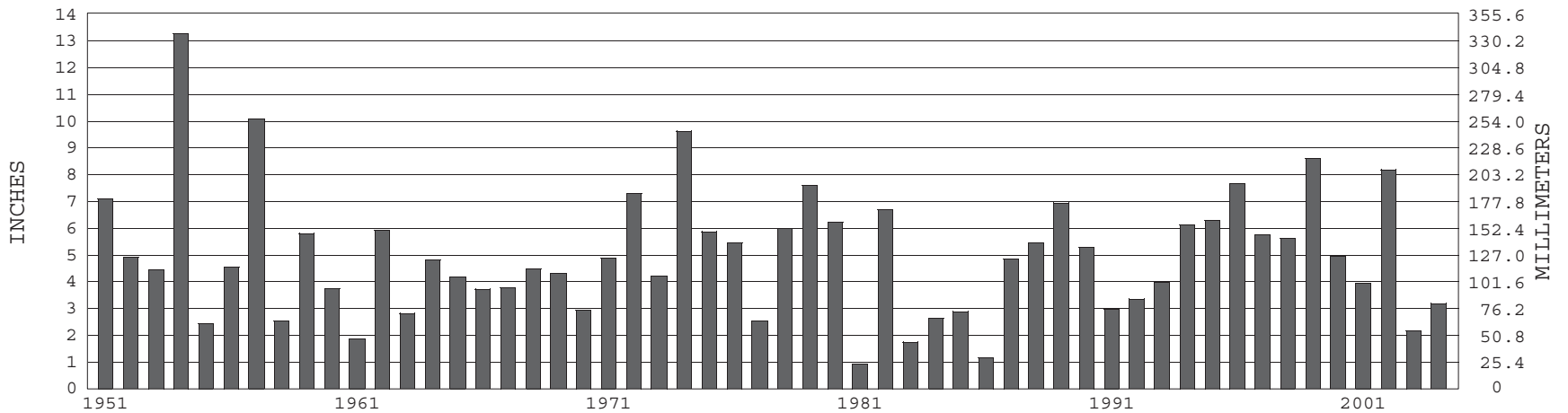
OAK RIDGE, TN JANUARY TEMPERATURES



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

Long-Term (1951-2004) Mean: 36.8 1971-2000 Normal: 36.6

OAK RIDGE, TN JANUARY PRECIPITATION



Long-Term (1951-2004) Mean Monthly Total: 4.98

1971-2000 Normal: 5.13



JANUARY 2004

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

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