



# JANUARY 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 #: -

JANUARY 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	67	42	55	18	46	49	10	0	BR HZ				0.00	29.45	30.44	0.6	21	.6	8	27	6	27	01	
02	59	44	52	15	49	50	13	0	RA BR				0.06	29.47	30.46	0.2	25	.8	8	28	7	27	02	
03	63	45	54	17	51	53	11	0	BR				0.00	29.40	30.38	1.0	24	2.7	12	27	8	26	03	
04	59	50	55	18	54	55	10	0	RA FG BR				0.05	29.30	30.27	0.6	24	2.2	8	27	7	25	04	
05	65	49	57	20	52	55	8	0	BR				0.00	29.08	30.05	3.6	23	5.7	23	22	16	21	05	
06	64	44	54	18	47	51	11	0	RA BR				0.35	28.97	29.94	5.4	23	8.1	30	21	21	21	06	
07	46	37	42	6	40	41	23	0	RA BR				0.62	29.19	30.19	1.2	05	1.7	10	12	8	13	07	
08	56	36	46	10	42	45	19	0	RA BR				0.42	29.25	30.24	2.3	05	4.7	17	25	12	05	08	
09	58	31	45	9	36	40	20	0	FG+ FZFG BR				0.00	29.33	30.34	1.7	24	2.1	12	27	9	27	09	
10	58	43	51	15	42	46	14	0					0.00	29.25	30.24	1.7	21	2.7	10	20	9	21	10	
11	57	44	51	15	50	51	14	0	RA FG+ BR				1.78	29.15	30.14	0.6	21	.7	12	25	7	27	11	
12	67	54	61*	25	53	57	4	0	RA FG+ BR				0.03	29.08	30.05	2.5	21	3.8	23	20	15	20	12	
13	69*	51	60	24	52	55	5	0	RA BR				1.01	28.94	29.89	4.6	20	5.7	33*	21	23*	20	13	
14	52	31	42	6	31	37	23	0	RA				T	29.37	30.37	6.3	02	7.0	22	05	15	05	14	
15	51	30	41	5	27	34	24	0					0.00	29.57	30.59	3.4	05	4.0	14	06	10	07	15	
16	45	23	34	-2	23	30	31	0	SN				T	29.45	30.47	3.4	33	5.7	20	34	15	27	16	
17	30	16	23	-13	4	17	42	0					0.00	29.64	30.70	4.4	01	5.7	16	36	13	36	17	
18	32	13	23	-13	3	17	42	0					0.00	29.65	30.71	2.5	04	4.0	14	06	12	06	18	
19	43	20	32	-4	13	26	33	0					0.00	29.27	30.30	2.8	24	4.8	21	23	15	22	19	
20	48	27	38	1	27	34	27	0	RA				T	29.06	30.07	1.0	21	2.4	14	27	9	22	20	
21	52	36	44	7	34	39	21	0					0.00	29.00	29.99	2.5	05	4.8	16	06	13	06	21	
22	46	19	33	-4	28	33	32	0	RA SN BR HZ				0.03	28.91	29.91	5.5	28	7.4	29	32	20	30	22	
23	28	17	23*	-14	4	17	42	0	SN				T	29.37	30.42	5.7	36	7.4	25	01	18	35	23	
24	38	11*	25	-12	10	20	40	0					0.00	29.28	30.33	0.3	25	1.7	12	26	9	25	24	
25	55	22	39	2	20	31	26	0					0.00	29.00	30.01	0.9	23	2.7	16	26	10	26	25	
26	62	38	50	13	36	42	15	0	RA BR HZ				0.05	28.90	29.89	2.4	28	5.1	17	34	14	26	26	
27	45	33	39	2	21	32	26	0					0.00	29.32	30.33	8.3	03	8.8	21	05	15	05	27	
28	45	30	38	1	15	30	27	0	RA				T	29.48	30.50	3.5	05	4.6	16	05	12	05	28	
29	38	31	35	-2	31	32	30	0	RA FZRA BR UP				0.53	29.27	30.28	1.1	05	2.4	12	06	9	05	29	
30	41	35	38	0	35	36	27	0	RA BR				0.01	29.16	30.17	1.3	03	2.3	13	05	9	05	30	
31	46	37	42	4	33	38	23	0					0.00	29.25	30.26	1.8	05	2.5	10	03	8	02	31	
< MONTHLY AVERAGES										TOTALS-->				<- MONTHLY AVERAGES										
51.1 33.5 42.3														5.2 6.3 5.7										
DEPARTURE FROM NORMAL														SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3										
DEGREE DAYS									GREATEST 24-HR PRECIPITATION: 1.81 DATE: 11-12				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY TOTAL DEPARTURE									GREATEST 24-HR SNOWFALL:				MAXIMUM				: 30.83 18 0953							
SEASON TO DATE TOTAL DEPARTURE									GREATEST SNOW DEPTH:				MINIMUM				: 29.75 22 1353							
HEATING: 693 -189 1897 -550									NUMBER OF DAYS WITH				MAXIMUM TEMP ≥ 90: 0				MINIMUM TEMP ≤ 32: 14				PRECIPITATION ≥ 0.01 INCH: 12			
COOLING: 0 0 0 0													MAXIMUM TEMP ≤ 32: 3				MINIMUM TEMP ≤ 0: 0				PRECIPITATION ≥ 0.10 INCH: 6			
													THUNDERSTORMS: 0				HEAVY FOG: 3				SNOWFALL ≥ 1.0 INCH: :			

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

# OAK RIDGE, TN

JANUARY 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												01		0.00		
02						T	0.01	0.01	0.01	0.01	0.01	0.01	02	T											02		0.06		
03													03												03		0.00		
04					T						T	T	04			T	0.03	0.02							04		0.05		
05													05												05		0.00		
06													06												06		0.35		
07							T	0.10	0.06	0.12	0.07	T	07			T	T				0.05	0.23	0.22	0.11	07		0.62		
08	0.10	0.11	0.09	0.09	0.01	0.02		T	0.01	T	T	T	08												08		0.42		
09													09												09		0.00		
10													10												10		0.00		
11									0.05	0.14	0.07	0.10	11	0.04	T	0.02	0.19	0.02	0.01	0.04	0.12	0.65	0.33	T	11		1.78		
12									T			T	12												12		0.03		
13		T	0.03	T		T					0.01	T	13		T	T	0.29	0.13	0.08	0.11	0.17	0.10	0.06	0.05	0.01	13		1.01	
14	T												14												14		T		
15													15												15		0.00		
16													16						T	T					16		T		
17													17												17		0.00		
18													18												18		0.00		
19													19												19		0.00		
20													20												20		T		
21													21												21		0.00		
22													22				T	0.01	0.02	T	T	T	T	T	22		0.03		
23	T	T	T	T									23												23		T		
24													24												24		0.00		
25													25												25		0.00		
26			0.03	0.01	T		0.01	T					26												26		0.05		
27													27												27		0.00		
28													28												28		T		
29	T	0.02	0.03	0.02	T	0.05	T	0.05	0.02	0.04	0.02	0.01	29	T	0.04	0.02	0.05	0.02	0.01	0.01		0.01	0.02	0.05	0.04	29		0.53	
30	0.01	T											30												30		0.01		
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)	.29	.38	.47	.55	.67	.77	.87	.91	.97	1.02	1.07	1.11
Ending Date	11	11	11	11	11	11	11	11	11	11	11	11
Ending Time (Hour/Min)	2041	2045	2050	2055	2105	2119	2132	2132	2139	2139	2132	2139

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 2005

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							2.50	10.00	
02							2.00	10.00	
03							.75	10.00	
04							.25	10.00	
05							2.00	10.00	
06							1.75	10.00	
07							2.50	10.00	
08							2.50	10.00	
09							<.25	10.00	
10							7.00	10.00	
11							.25	10.00	
12							.50	10.00	
13							1.75	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							1.50	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							9.00	10.00	
21							10.00	10.00	
22							1.00	10.00	
23							6.00	10.00	
24							10.00	10.00	
25							10.00	10.00	
26							4.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							1.50	10.00	
30							1.75	10.00	
31							8.00	10.00	
<b>MONTHLY AVGS</b>							5.59	10.00	
<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 2            13           14									

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2005

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
<p><b>SUNRISE: 0748 JAN 01 SUNSET: 1734</b></p>																									
01	BKN	070	9.00		50	45	48	83	3	22	29.43	30.42	01	CLR	NC	10.00		42	35	39	76	0	00	29.16	30.15
04	FEW	NC	6.00	BR	45	43	44	93	0	00	29.43	30.42	04	CLR	NC	10.00		38	35	37	89	0	00	29.17	30.17
07	CLR	NC	4.00	BR	44	42	43	93	0	00	29.45	30.45	07	FEW	NC	10.00		38	36	37	93	0	00	29.22	30.22
10	BKN	080	6.00	HZ	52	47	49	83	0	00	29.50	30.50	10	OVC	070	10.00		42	38	40	85	3	07	29.27	30.27
13	CLR	NC	10.00		63	48	55	58	0	00	29.45	30.44	13	OVC	055	10.00		44	39	42	83	3	02	29.23	30.23
16	CLR	NC	10.00		65	48	56	54	0	00	29.42	30.40	16	OVC	034	6.00	BR	44	42	43	93	0	00	29.19	30.20
19	CLR	NC	10.00		55	48	51	77	0	00	29.43	30.41	19	OVC	032	10.00		45	43	44	93	3	05	29.15	30.16
22	CLR	NC	9.00		48	45	47	89	0	00	29.45	30.43	22	OVC	030	2.50	+RA BR	45	45	45	100	0	00	29.15	30.15
<p><b>SUNRISE: 0748 JAN 02 SUNSET: 1735</b></p>																									
01	CLR	NC	7.00		46	44	45	93	0	00	29.44	30.42	01	OVC	007	3.00	RA BR	46	45	46	96	6	VR	29.05	30.04
04	CLR	NC	6.00	BR	44	42	43	93	0	00	29.44	30.42	04	OVC	014	5.00	-RA BR	50	49	49	96	3	VR	29.05	30.03
07	BKN	100	5.00	BR	45	44	45	97	0	00	29.46	30.46	07	SCT	NC	10.00		52	47	49	83	7	VR	29.15	30.14
10	OVC	042	2.00	-RA BR	51	50	51	96	0	00	29.51	30.51	10	SCT	NC	10.00		51	44	48	77	5	VR	29.29	30.28
13	OVC	034	5.00	BR	54	52	53	93	3	VR	29.48	30.48	13	SCT	NC	10.00		53	41	47	64	5	06	29.30	30.28
16	BKN	060	10.00		58	52	55	81	0	00	29.44	30.43	16	FEW	NC	10.00		54	40	47	59	8	05	29.32	30.30
19	OVC	042	8.00		54	52	53	93	0	00	29.46	30.45	19	CLR	NC	10.00		45	37	41	74	8	05	29.36	30.35
22	OVC	044	7.00		54	52	53	93	0	00	29.48	30.47	22	CLR	NC	10.00		40	36	38	86	5	05	29.37	30.37
<p><b>SUNRISE: 0748 JAN 03 SUNSET: 1736</b></p>																									
01	OVC	100	5.00	BR	52	51	52	97	0	00	29.46	30.45	01	CLR	NC	6.00	BR	35	33	34	93	0	00	29.38	30.38
04	FEW	NC	2.50	BR	50	49	49	96	0	00	29.45	30.43	04	FEW	NC	5.00	BR	32	31	32	96	0	00	29.37	30.37
07	FEW	NC	3.00	BR	47	45	46	93	0	00	29.44	30.42	07	VV	001	0.25	FZFG	31	31	31	100	0	00	29.39	30.40
10	CLR	NC	6.00	BR	56	52	54	87	3	VR	29.45	30.44	10	VV	001	0.25	FG	35	35	35	100	0	00	29.39	30.41
13	BKN	026	10.00		61	53	57	75	7	VR	29.40	30.37	13	CLR	NC	10.00		51	39	45	64	0	00	29.34	30.34
16	SCT	NC	10.00		63	54	58	73	7	VR	29.34	30.32	16	CLR	NC	10.00		56	37	47	49	6	26	29.28	30.29
19	SCT	NC	10.00		57	53	55	87	3	22	29.36	30.34	19	CLR	NC	10.00		49	39	44	69	5	22	29.27	30.28
22	BKN	110	10.00		58	53	55	84	3	24	29.34	30.32	22	CLR	NC	10.00		44	39	42	83	5	22	29.25	30.26
<p><b>SUNRISE: 0748 JAN 04 SUNSET: 1736</b></p>																									
01	OVC	055	10.00		56	54	55	93	0	00	29.33	30.30	01	CLR	NC	10.00		45	39	42	80	6	22	29.25	30.24
04	OVC	050	9.00		57	53	55	87	0	00	29.33	30.30	04	OVC	034	10.00		47	40	44	77	0	00	29.26	30.24
07	OVC	042	10.00		57	53	55	87	3	VR	29.33	30.31	07	OVC	032	10.00		48	40	44	74	3	VR	29.27	30.26
10	OVC	032	10.00		58	54	56	87	3	VR	29.36	30.34	10	OVC	028	10.00		52	42	47	69	5	23	29.31	30.30
13	OVC	023	6.00	BR	58	55	56	90	5	VR	29.31	30.29	13	CLR	NC	10.00		56	42	49	60	5	VR	29.27	30.25
16	OVC	010	1.50	-RA BR	58	57	57	97	3	VR	29.28	30.25	16	CLR	NC	10.00		57	43	50	60	5	15	29.22	30.21
19	BKN	120	0.50	FG	56	55	55	97	0	00	29.26	30.24	19	CLR	NC	10.00		49	43	46	80	0	00	29.22	30.21
22	VV	001	0.25	FG	52	51	52	97	3	22	29.24	30.22	22	CLR	NC	9.00		46	42	44	86	0	00	29.21	30.20
<p><b>SUNRISE: 0748 JAN 05 SUNSET: 1737</b></p>																									
01	CLR	NC	4.00	BR	50	49	49	96	3	VR	29.20	30.19	01	CLR	NC	7.00		45	41	43	86	0	00	29.21	30.20
04	OVC	047	8.00		52	50	51	93	5	25	29.16	30.14	04	OVC	025	10.00		48	44	46	86	0	00	29.19	30.17
07	OVC	028	10.00		53	50	51	89	0	00	29.14	30.12	07	OVC	021	8.00		51	46	49	83	3	23	29.18	30.17
10	OVC	032	9.00		55	52	53	90	3	VR	29.17	30.15	10	OVC	013	0.75	+RA BR	51	50	51	96	0	00	29.20	30.19
13	OVC	026	10.00		61	54	57	78	6	VR	29.09	30.07	13	OVC	017	2.50	BR	53	51	52	93	3	22	29.13	30.11
16	OVC	037	10.00		65	53	58	66	7	VR	29.02	29.98	16	OVC	027	1.75	-RA BR	54	53	53	97	0	00	29.11	30.09
19	BKN	060	10.00		64	52	57	65	8	20	28.99	29.95	19	OVC	035	1.75	RA BR	54	53	53	97	0	00	29.12	30.10
22	OVC	050	10.00		62	52	56	70	14	22	28.98	29.93	22	OVC	035	1.75	BR	56	55	55	97	0	00	29.11	30.09
<p><b>SUNRISE: 0748 JAN 06 SUNSET: 1738</b></p>																									
01	OVC	025	10.00		60	53	56	78	8	24	28.91	29.87	01	OVC	033	0.50	FG	55	54	54	96	0	00	29.08	30.06
04	OVC	022	10.00		63	56	59	78	9	23	28.86	29.81	04	OVC	023	2.50	BR	56	55	55	97	0	00	29.08	30.06
07	OVC	041	9.00	-RA	63	57	59	81	13	22	28.83	29.78	07	OVC	031	4.00	BR	57	55	56	93	0	00	29.09	30.06
10	OVC	035	5.00	-RA BR	53	51	52	93	7	VR	28.97	29.93	10	OVC	032	9.00		61	55	58	81	6	22	29.13	30.09
13	BKN	025	10.00		55	50	52	83	10	22	28.95	29.91	13	OVC	048	10.00		64	56	59	75	6	22	29.09	30.06
16	FEW	NC	10.00		54	42	48	64	9	27	28.98	29.94	16	FEW	NC	10.00		67	49	57	53	10	18	29.06	30.01
19	CLR	NC	10.00		49	39	44	69	3	VR	29.05	30.01	19	OVC	065	10.00		60	51	55	72	0	00	29.07	30.03
22	CLR	NC	10.00		46	36	42	68	7	VR	29.13	30.12	22	FEW	NC	10.00		62	49	55	62	6	22	29.06	30.01

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2005

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: 0747					JAN 13					SUNSET: 1745					SUNRISE: 0745					JAN 19					SUNSET: 1750				
01	OVC	070	10.00		57	50	53	78	0	00	29.04	30.00	01	CLR	NC	10.00		20	9	17	62	0	00	29.46	30.52				
04	BKN	080	10.00		54	51	52	90	0	00	29.00	29.95	04	OVC	NC	10.00		25	10	21	53	5	23	29.41	30.45				
07	OVC	055	10.00		65	52	58	63	14	18	28.96	29.91	07	CLR	050	10.00		28	12	23	51	7	22	29.34	30.38				
10	OVC	037	10.00	-RA	64	54	58	70	9	21	28.93	29.88	10	OVC	041	10.00		31	10	25	42	8	22	29.29	30.33				
13	OVC	055	10.00		68	54	60	61	13	20	28.86	29.81	13	OVC	043	10.00		37	11	29	34	9	24	29.22	30.25				
16	OVC	029	2.00	RA BR	56	52	54	87	8	26	28.85	29.81	16	CLR	NC	10.00		42	14	32	32	8	24	29.14	30.16				
19	OVC	018	6.00	RA BR	54	52	53	93	7	18	28.92	29.87	19	CLR	NC	10.00		34	16	28	48	0	00	29.19	30.22				
22	OVC	022	5.00	-RA BR	53	51	52	93	5	VR	28.98	29.94	22	CLR	NC	10.00		30	19	26	64	0	00	29.20	30.22				
SUNRISE: 0747					JAN 14					SUNSET: 1745					SUNRISE: 0745					JAN 20					SUNSET: 1752				
01	OVC	019	10.00		49	44	47	83	5	31	29.05	30.01	01	FEW	NC	10.00		27	20	25	75	0	00	29.18	30.21				
04	BKN	019	10.00		42	36	39	79	13	36	29.14	30.13	04	OVC	028	10.00		31	21	27	67	0	00	29.16	30.17				
07	OVC	024	10.00		40	32	37	73	6	02	29.27	30.27	07	BKN	028	10.00		32	23	29	69	0	00	29.14	30.16				
10	OVC	034	10.00		40	29	36	65	9	02	29.41	30.40	10	FEW	NC	10.00		36	28	33	73	5	VR	29.14	30.16				
13	CLR	NC	10.00		45	30	39	56	8	04	29.40	30.39	13	BKN	110	10.00		45	28	38	52	6	24	29.07	30.08				
16	CLR	NC	10.00		46	29	39	51	9	02	29.43	30.43	16	FEW	NC	10.00		47	29	39	50	6	17	28.99	29.98				
19	CLR	NC	10.00		36	26	32	67	5	02	29.50	30.53	19	BKN	120	10.00		45	30	39	56	5	21	28.96	29.96				
22	CLR	NC	10.00		33	26	30	75	3	07	29.57	30.60	22	OVC	080	10.00		43	34	39	71	0	00	28.94	29.93				
SUNRISE: 0747					JAN 15					SUNSET: 1746					SUNRISE: 0744					JAN 21					SUNSET: 1753				
01	CLR	NC	10.00		31	26	29	82	5	05	29.58	30.60	01	OVC	065	10.00		41	33	38	74	0	00	28.92	29.91				
04	CLR	NC	10.00		32	26	30	79	3	04	29.58	30.60	04	OVC	120	10.00		41	33	38	74	3	21	28.91	29.90				
07	CLR	NC	10.00		32	26	30	79	3	04	29.60	30.63	07	OVC	040	10.00		42	34	39	73	5	06	28.96	29.95				
10	CLR	NC	10.00		38	27	34	65	9	04	29.63	30.66	10	OVC	036	10.00		45	35	41	68	7	VR	29.04	30.03				
13	CLR	NC	10.00		46	28	39	50	5	VR	29.59	30.61	13	OVC	036	10.00		48	35	42	61	9	03	29.05	30.03				
16	CLR	NC	10.00		50	26	40	39	5	VR	29.53	30.55	16	CLR	NC	10.00		50	35	43	57	7	VR	29.03	30.01				
19	CLR	NC	10.00		44	26	37	49	0	00	29.53	30.55	19	CLR	NC	10.00		43	33	39	68	5	04	29.06	30.05				
22	CLR	NC	10.00		40	28	35	63	6	05	29.52	30.54	22	CLR	NC	10.00		38	31	35	76	5	VR	29.03	30.02				
SUNRISE: 0746					JAN 16					SUNSET: 1747					SUNRISE: 0744					JAN 22					SUNSET: 1754				
01	CLR	NC	10.00		38	28	34	68	0	00	29.49	30.50	01	CLR	NC	10.00		36	31	34	82	0	00	28.99	29.98				
04	CLR	NC	10.00		35	28	32	76	0	00	29.44	30.45	04	CLR	NC	9.00		36	31	34	82	3	VR	28.92	29.91				
07	CLR	NC	10.00		32	28	31	85	0	00	29.43	30.45	07	CLR	NC	8.00		41	35	38	79	6	24	28.85	29.84				
10	BKN	100	10.00		38	29	34	70	3	VR	29.41	30.42	10	OVC	029	5.00	HZ	44	38	41	79	6	24	28.79	29.78				
13	BKN	100	10.00		44	28	38	53	7	VR	29.36	30.37	13	OVC	013	3.00	HZ	44	39	42	83	12	25	28.76	29.75				
16	OVC	036	10.00		34	20	29	56	12	34	29.42	30.44	16	OVC	025	10.00		40	31	36	70	7	26	28.80	29.80				
19	OVC	045	10.00		28	16	24	61	13	34	29.47	30.52	19	OVC	060	7.00	-SN	29	17	25	61	15	30	28.99	29.99				
22	OVC	045	10.00		25	16	22	69	7	04	29.56	30.60	22	OVC	037	9.00		22	10	19	60	12	30	29.14	30.16				
SUNRISE: 0746					JAN 17					SUNSET: 1748					SUNRISE: 0743					JAN 23					SUNSET: 1755				
01	OVC	038	10.00		23	11	20	60	6	32	29.58	30.62	01	OVC	043	10.00		20	7	17	57	9	33	29.21	30.24				
04	CLR	NC	10.00		19	7	16	59	5	02	29.61	30.66	04	OVC	049	10.00		18	5	15	57	12	34	29.26	30.29				
07	CLR	NC	10.00		16	7	14	67	3	03	29.64	30.70	07	OVC	041	10.00		18	5	15	57	10	35	29.30	30.35				
10	CLR	NC	10.00		20	6	16	55	7	VR	29.67	30.73	10	SCT	NC	10.00		19	3	15	49	7	VR	29.40	30.46				
13	CLR	NC	10.00		25	4	20	40	6	VR	29.63	30.69	13	CLR	NC	10.00		23	4	18	44	7	01	29.42	30.47				
16	CLR	NC	10.00		29	0	22	28	7	02	29.61	30.67	16	CLR	NC	10.00		28	2	21	32	7	VR	29.40	30.45				
19	CLR	NC	10.00		24	-1	18	33	8	35	29.65	30.72	19	CLR	NC	10.00		22	3	17	44	6	36	29.44	30.49				
22	CLR	NC	10.00		20	0	15	41	5	VR	29.68	30.75	22	CLR	NC	10.00		18	5	15	57	5	06	29.45	30.51				
SUNRISE: 0746					JAN 18					SUNSET: 1749					SUNRISE: 0743					JAN 24					SUNSET: 1756				
01	CLR	NC	10.00		17	5	14	59	0	00	29.68	30.75	01	CLR	NC	10.00		16	6	14	65	0	00	29.44	30.50				
04	CLR	NC	10.00		16	-1	12	47	6	VR	29.70	30.76	04	CLR	NC	10.00		13	7	12	77	0	00	29.41	30.47				
07	CLR	NC	10.00		14	0	11	53	6	01	29.72	30.79	07	SCT	NC	10.00		12	7	11	80	0	00	29.41	30.47				
10	CLR	NC	10.00		18	2	14	49	6	04	29.76	30.83	10	OVC	095	10.00		19	11	17	71	0	00	29.39	30.45				
13	CLR	NC	10.00		27	-1	20	30	8	04	29.70	30.76	13	OVC	100	10.00		26	8	21	46	5	VR	29.27	30.32				
16	CLR	NC	10.00		31	1	23	28	5	VR	29.60	30.66	16	SCT	NC	10.00		36	10	28	34	6	VR	29.13	30.17				
19	CLR	NC	10.00		27	3	21	36	0	00	29.55	30.61	19	CLR	NC	10.00		32	13	26	45	0	00	29.12	30.17				
22	CLR	NC	10.00		22	9	18	57	0	00	29.52	30.59	22	CLR	NC	10.00		27	16	24	63	0	00	29.13	30.17				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

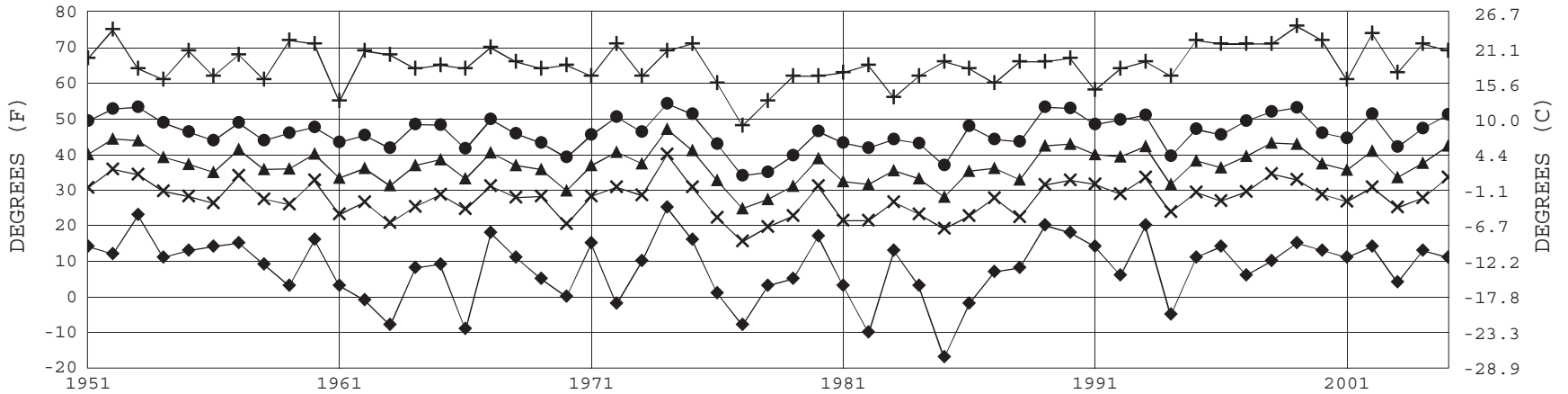
JANUARY 2005

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: 0742										JAN 25				SUNSET: 1757				SUNRISE: 0738										JAN 31				SUNSET: 1803			
01	CLR	NC						10.00		28	15	24	58	5	26	29.11	30.14	01	OVC	015						8.00		37	33	35	86	5	04	29.20	30.21
04	CLR	NC						10.00		24	18	22	77	0	00	29.10	30.13	04	OVC	022						10.00		37	33	35	86	5	04	29.21	30.22
07	CLR	NC						10.00		22	18	21	85	0	00	29.08	30.11	07	OVC	042						10.00		38	32	36	79	0	00	29.26	30.27
10	CLR	NC						10.00		35	18	29	50	0	00	29.08	30.10	10	OVC	032						10.00		39	32	36	76	5	02	29.30	30.31
13	CLR	NC						10.00		48	19	37	32	7	VR	29.01	30.01	13	OVC	035						10.00		43	32	38	65	3	02	29.26	30.27
16	CLR	NC						10.00		55	21	41	27	6	VR	28.91	29.91	16	OVC	039						10.00		45	33	40	63	3	08	29.23	30.24
19	CLR	NC						10.00		48	23	38	37	0	00	28.89	29.89	19	OVC	037						10.00		44	34	40	68	0	00	29.25	30.26
22	CLR	NC						10.00		43	23	35	45	3	25	28.89	29.89	22	OVC	040						10.00		42	35	39	76	0	00	29.27	30.27
SUNRISE: 0742										JAN 26				SUNSET: 1758				3-HOURLY OBSERVATION NOTES																	
										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.																									
01	OVC	085						10.00		39	26	34	60	0	00	28.87	29.85																		
04	OVC	040						5.00	BR	38	37	38	97	0	00	28.83	29.82																		
07	BKN	075						5.00	BR	40	38	39	93	3	20	28.82	29.81																		
10	OVC	075						10.00		47	39	43	74	3	VR	28.85	29.83																		
13	OVC	026						10.00		55	45	50	69	8	23	28.85	29.83																		
16	CLR	NC						10.00		61	41	51	48	8	24	28.85	29.83																		
19	CLR	NC						10.00		53	35	45	51	6	34	28.96	29.94																		
22	CLR	NC						9.00		39	30	35	70	9	34	29.08	30.08																		
SUNRISE: 0741										JAN 27				SUNSET: 1759																					
01	OVC	026						10.00		38	29	34	70	6	02	29.14	30.13																		
04	OVC	028						10.00		36	29	33	76	6	VR	29.18	30.16																		
07	OVC	027						10.00		35	24	31	64	8	03	29.25	30.25																		
10	OVC	033						10.00		34	23	30	64	8	02	29.35	30.37																		
13	CLR	NC						10.00		42	21	34	43	12	02	29.36	30.37																		
16	CLR	NC						10.00		44	17	34	34	9	04	29.36	30.37																		
19	CLR	NC						10.00		37	15	30	41	5	03	29.42	30.44																		
22	CLR	NC						10.00		34	15	28	46	12	05	29.45	30.47																		
SUNRISE: 0740										JAN 28				SUNSET: 1760																					
01	CLR	NC						10.00		33	13	27	43	9	05	29.46	30.48																		
04	CLR	NC						10.00		32	13	26	45	9	05	29.49	30.52																		
07	CLR	NC						10.00		31	13	25	47	5	VR	29.51	30.55																		
10	CLR	NC						10.00		34	13	27	42	6	03	29.54	30.58																		
13	CLR	NC						10.00		42	15	33	33	0	00	29.49	30.52																		
16	CLR	NC						10.00		44	16	34	32	5	VR	29.45	30.47																		
19	OVC	110						10.00		42	15	33	33	0	00	29.45	30.46																		
22	OVC	050						10.00		40	19	32	43	3	05	29.43	30.45																		
SUNRISE: 0740										JAN 29				SUNSET: 1801																					
01	OVC	055						10.00	-RA	37	24	32	60	0	00	29.41	30.42																		
04	OVC	070						9.00	-RA	33	30	32	89	0	00	29.37	30.38																		
07	OVC	046						10.00		31	28	30	89	7	05	29.34	30.36																		
10	OVC	010						4.00	-FZRA BR	32	30	31	92	0	00	29.31	30.32																		
13	OVC	015						4.00	-RA BR	33	32	33	96	0	00	29.26	30.28																		
16	OVC	004						3.00	-RA BR	34	32	33	92	0	00	29.19	30.22																		
19	OVC	008						10.00		34	33	34	97	0	00	29.17	30.20																		
22	OVC	007						2.50	-RA BR	34	33	34	97	3	22	29.15	30.17																		
SUNRISE: 0739										JAN 30				SUNSET: 1802																					
01	OVC	003						5.00	-RA BR	35	34	35	96	0	00	29.14	30.16																		
04	OVC	003						3.00	BR	36	34	35	93	5	VR	29.11	30.13																		
07	OVC	003						3.00	BR	36	35	36	97	0	00	29.13	30.14																		
10	OVC	005						4.00	BR	37	36	37	96	0	00	29.16	30.17																		
13	OVC	015						10.00		40	35	38	83	3	06	29.15	30.16																		
16	OVC	018						10.00		41	35	38	79	3	36	29.15	30.16																		
19	OVC	015						10.00		38	34	36	86	5	04	29.17	30.19																		
22	OVC	019						10.00		37	33	35	86	5	04	29.20	30.22																		

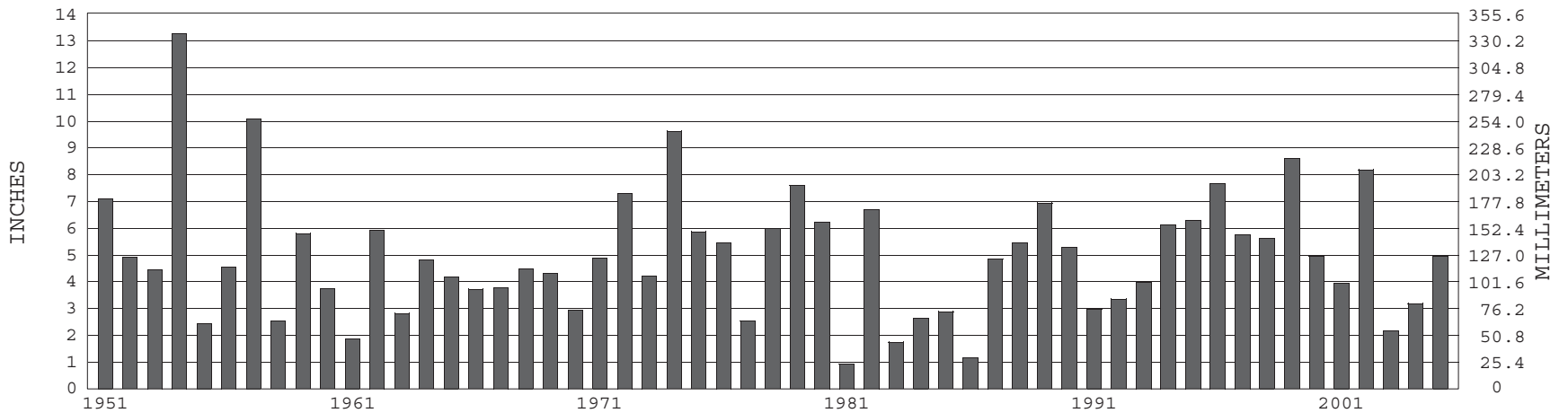
### OAK RIDGE, TN JANUARY TEMPERATURES



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

Long-Term (1951-2005) Mean: 36.9      1971-2000 Normal: 36.6

### OAK RIDGE, TN JANUARY PRECIPITATION



Long-Term (1951-2005) Mean Monthly Total: 4.98

1971-2000 Normal: 5.13



JANUARY 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.*

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