



DECEMBER 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 #: -

DECEMBER 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	47	27	37	-6	26	33	28	0	RA				T	29.04	30.05	2.8	27	4.3	24	28	17	29	01																										
02	45	28	37	-6	18	29	28	0					0.00	29.20	30.21	0.8	26	2.5	14	29	9	29	02																										
03	41	27	34	-8	30	33	31	0	RA BR				0.21	29.07	30.08	0.3	15	1.5	17	28	12	27	03																										
04	53	38	46	4	40	43	19	0	RA BR				0.33	29.00	30.00	1.4	05	5.9	25	29	18	31	04																										
05	41	31	36	-6	29	34	29	0					0.00	29.08	30.09	3.9	03	4.8	14	35	10	35	05																										
06	43	26	35	-6	22	29	30	0					0.00	29.27	30.30	0.8	21	2.2	14	19	10	17	06																										
07	46	21	34	-7	20	29	31	0	BR				0.00	29.50	30.53	3.3	04	3.7	14	06	12	05	07																										
08	46	34	40	-1	29	36	25	0	RA BR				0.54	29.35	30.36	0.1	25	5.0	25	27	16	20	08																										
09	42	25	34	-7	20	28	31	0	RA				T	29.36	30.38	1.8	27	3.5	20	27	14	26	09																										
10	48	21	35	-5	20	29	30	0					0.00	29.08	30.11	2.7	23	4.1	21	22	15	22	10																										
11	42	34	38	-2	26	34	27	0					0.00	28.94	29.94	2.7	23	5.7	20	27	14	25	11																										
12	47	36	42	2	31	36	23	0	RA				0.02	28.96	29.96	1.2	25	4.3	16	28	12	28	12																										
13	44	29	37	-3	23	31	28	0					0.00	29.23	30.24	2.0	02	3.6	13	35	9	36	13																										
14	41	31	36	-4	27	33	29	0	RA BR				0.06	29.19	30.20	0.1	11	.4	6	12	6	12	14																										
15	42	33	38	-1	35	37	27	0	RA BR				0.92	28.89	29.89	0.5	34	5.1	15	26	10	26	15																										
16	42	28	35	-4	26	31	30	0	BR				0.00	29.12	30.14	1.8	23	2.8	20	26	13	24	16																										
17	46	32	39	0	26	33	26	0					0.00	29.43	30.45	2.3	05	2.8	13	05	9	04	17																										
18	53	29	41	2	26	35	24	0					0.00	29.43	30.44	1.0	05	1.3	12	05	9	04	18																										
19	41	24	33	-6	22	28	32	0					0.00	29.43	30.45	2.1	02	3.5	14	35	12	35	19																										
20	39	20	30	-8	10	23	35	0					0.00	29.36	30.40	2.8	05	3.7	12	06	9	06	20																										
21	40	16	28*	-10	14	23	37	0					0.00	29.34		0.3	06	.3	9	23	7	19	21																										
22	46	16*	31	-7	18	25	34	0	FG+ FZFG BR				0.00	29.32	30.36	0.2	17	.6	9	18	7	21	22																										
23	51	21	36	-2	23	30	29	0					0.00	29.16	30.18	2.1	24	3.4	14	20	9	25	23																										
24	54	26	40	2	30	36	25	0	RA BR				0.20	28.94	29.94	1.1	24	1.4	14	22	9	23	24																										
25	46	38	42	4	40	41	23	0	RA BR				0.48	28.65	29.63	1.9	26	3.9	21	28	15	28	25																										
26	41	36	39	2	31	36	26	0	RA				T	29.01	30.01	4.7	25	7.0	20	28	14	27	26																										
27	53	30	42	5	32	37	23	0					0.00	29.04	30.05	0.8	26	1.7	10	28	7	19	27																										
28	63*	39	51*	14	42	45	14	0	RA BR				0.11	28.67	29.65	1.4	21	3.0	33*	29	18*	27	28																										
29	48	38	43	6	34	38	22	0					0.00	28.79	29.77	2.5	26	4.5	15	28	12	27	29																										
30	43	35	39	2	33	36	26	0	RA BR				0.02	28.94	29.94	1.6	05	2.0	10	04	9	05	30																										
31	50	34	42	5	34	38	23	0	RA FG+ BR				0.01	28.95	29.94	2.7	22	3.5	17	19	14	21	31																										
45.9										29.1		37.5		■ ■		27.0		33.2		27.3		0.0		< MONTHLY AVERAGES		TOTALS-->		2.90		29.12		0.5		28		3.3		<- MONTHLY AVERAGES											
-3.1				-.7		-1.9		■ ■		<-----DEPARTURE FROM NORMAL----->										-2.52		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3																											
DEGREE DAYS										GREATEST 24-HR PRECIPITATION: 0.98 DATE: 14-15										SEA LEVEL PRESSURE DATE TIME																													
MONTHLY TOTAL DEPARTURE										GREATEST 24-HR SNOWFALL: DATE: DATE:										MAXIMUM : 30.60 07 1053																													
SEASON TO DATE TOTAL DEPARTURE										GREATEST SNOW DEPTH: DATE: DATE:										MINIMUM : 29.43 28 1553																													
HEATING: 845 58 1471 -94										NUMBER OF DAYS WITH →										MAXIMUM TEMP ≥ 90: 0										MINIMUM TEMP ≤ 32: 20										PRECIPITATION ≥ 0.01 INCH : 11									
COOLING: 0 0 1627 326																				MAXIMUM TEMP ≤ 32 : 0										MINIMUM TEMP ≤ 0 : 0										PRECIPITATION ≥ 0.10 INCH : 7									
																				THUNDERSTORMS : 0										HEAVY FOG : 2										SNOWFALL ≥ 1.0 INCH :									

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN

DECEMBER 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			T	
02													02												02				0.00
03													03	0.03	0.11	0.02	T	T							03				0.21
04	0.06	0.01		0.26								T	04								0.01	T	T	04				0.33	
05													05											05				0.00	
06													06											06				0.00	
07													07											07				0.00	
08													08				T	0.03	0.05	0.04	0.07	0.09	0.14	0.07	0.05	08			0.54
09	T												09											09				T	
10													10											10				0.00	
11													11											11				0.00	
12													12											12				0.02	
13													13											13				0.00	
14													14											14				0.06	
15	0.02	0.04	0.02	0.02	0.06	0.09	0.08	0.14	0.19	0.09	0.07	0.06	15	0.02	0.02	T								15				0.92	
16													16											16				0.00	
17													17											17				0.00	
18													18											18				0.00	
19													19											19				0.00	
20													20											20				0.00	
21													21											21				0.00	
22													22											22				0.00	
23													23											23				0.00	
24													24											24				0.20	
25	T	0.01	0.02	0.08	0.03	T	0.04	0.04	0.03	0.10	0.01	T	25	0.03	0.01	0.01	0.01	0.05	0.01		T		0.06	0.08	0.04	0.02	T	T	0.48
26	T	T	T	T	T	T							26											26				T	
27													27											27				0.00	
28													28						0.09	T				28				0.11	
29													29											29				0.00	
30													30											30				0.02	
31	0.01												31											31				0.01	

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 DECEMBER 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							10.00	10.00	
02							10.00	10.00	
03							2.00	10.00	
04							3.00	10.00	
05							9.00	10.00	
06							8.00	10.00	
07							5.00	10.00	
08							3.00	10.00	
09							10.00	10.00	
10							7.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							5.00	10.00	
15							1.50	10.00	
16							.75	10.00	
17							10.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							10.00	10.00	
21							10.00	10.00	
22							<.25	10.00	
23							10.00	10.00	
24							2.00	10.00	
25							1.25	10.00	
26							10.00	10.00	
27							7.00	10.00	
28							2.50	10.00	
29							10.00	10.00	
30							5.00	10.00	
31							.25	10.00	
MONTHLY AVGS							6.53	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									
2 10 18									

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 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: 0729 DEC 01					SUNSET: 1723					SUNRISE: 0734 DEC 07					SUNSET: 1723														
01	CLR	NC		10.00	30	26	29	85	0	00	29.07	30.08	01	CLR	NC		10.00	25	21	24	85	0	00	29.40	30.43				
04	CLR	NC		10.00	31	25	29	79	0	00	29.08	30.09	04	CLR	NC		10.00	23	19	22	85	0	00	29.45	30.47				
07	BKN	110		10.00	30	26	29	85	0	00	29.07	30.08	07	CLR	NC		7.00	22	18	21	85	0	00	29.49	30.53				
10	SCT	NC		10.00	37	29	34	73	6	25	29.06	30.07	10	CLR	NC		10.00	32	25	29	75	7	05	29.55	30.60				
13	OVC	050		10.00	41	27	35	57	3	VR	28.96	29.97	13	CLR	NC		10.00	44	21	35	40	6	01	29.51	30.54				
16	SCT	NC		10.00	46	28	39	50	8	27	28.94	29.94	16	FEW	NC		10.00	45	19	35	35	7	04	29.48	30.52				
19	BKN	050		10.00	42	22	34	45	8	28	29.06	30.07	19	OVC	120		10.00	41	21	34	45	6	04	29.51	30.55				
22	OVC	046		10.00	39	23	33	53	5	VR	29.09	30.11	22	CLR	NC		10.00	38	20	32	48	6	05	29.52	30.55				
SUNRISE: 0730 DEC 02					SUNSET: 1723					SUNRISE: 0735 DEC 08					SUNSET: 1723														
01	OVC	035		10.00	36	23	31	59	7	27	29.11	30.12	01	OVC	120		10.00	36	22	31	57	5	04	29.51	30.53				
04	CLR	NC		10.00	32	20	28	61	0	00	29.16	30.17	04	BKN	120		10.00	38	21	32	51	6	05	29.49	30.50				
07	CLR	NC		10.00	28	18	25	66	5	21	29.23	30.25	07	BKN	120		10.00	34	22	30	61	3	04	29.45	30.46				
10	CLR	NC		10.00	32	16	27	52	3	VR	29.29	30.31	10	BKN	100		10.00	42	22	34	45	6	VR	29.45	30.47				
13	CLR	NC		10.00	39	14	31	36	3	VR	29.20	30.22	13	OVC	055		10.00	45	25	37	46	3	VR	29.33	30.33				
16	CLR	NC		10.00	44	13	33	28	0	00	29.17	30.18	16	OVC	044		10.00	-RA	43	31	38	63	0	00	29.21	30.22			
19	CLR	NC		10.00	36	17	29	46	0	00	29.19	30.22	19	OVC	010		3.00	RA BR	42	40	41	92	7	VR	29.19	30.20			
22	CLR	NC		10.00	31	22	28	69	0	00	29.19	30.22	22	OVC	012		6.00	RA BR	43	41	42	93	14	22	29.24	30.24			
SUNRISE: 0731 DEC 03					SUNSET: 1723					SUNRISE: 0736 DEC 09					SUNSET: 1723														
01	CLR	NC		10.00	28	22	26	78	0	00	29.17	30.19	01	OVC	015		10.00	42	38	40	85	10	26	29.25	30.25				
04	CLR	NC		10.00	31	24	28	76	0	00	29.16	30.18	04	CLR	NC		10.00	32	24	29	73	7	23	29.35	30.36				
07	OVC	085		10.00	32	25	29	75	3	08	29.16	30.18	07	CLR	NC		10.00	28	20	25	72	3	22	29.40	30.42				
10	OVC	060		10.00	36	26	32	67	3	06	29.13	30.16	10	CLR	NC		10.00	32	13	26	45	8	36	29.44	30.45				
13	OVC	032		4.00	RA	36	31	34	82	3	VR	29.08	30.11	13	CLR	NC		10.00	34	16	28	48	3	VR	29.38	30.40			
16	OVC	011		10.00	37	34	36	89	0	00	29.01	30.02	16	CLR	NC		10.00	38	15	30	39	0	00	29.35	30.37				
19	OVC	015		2.50	BR	37	35	36	93	0	00	29.00	30.01	19	CLR	NC		10.00	32	20	28	61	0	00	29.36	30.40			
22	OVC	014		5.00	BR	38	36	37	93	5	VR	28.93	29.93	22	CLR	NC		10.00	28	20	25	72	0	00	29.31	30.34			
SUNRISE: 0732 DEC 04					SUNSET: 1723					SUNRISE: 0737 DEC 10					SUNSET: 1723														
01	OVC	021		3.00	RA BR	42	39	41	89	7	20	28.86	29.85	01	CLR	NC		10.00	24	20	23	84	0	00	29.28	30.32			
04	OVC	015		10.00	49	46	47	90	7	VR	28.88	29.86	04	CLR	NC		10.00	22	18	21	85	0	00	29.23	30.26				
07	OVC	014		9.00	47	45	46	93	3	22	28.93	29.92	07	CLR	NC		9.00	21	17	20	85	0	00	29.20	30.24				
10	CLR	NC		10.00	52	47	49	83	5	21	29.00	29.98	10	CLR	NC		10.00	29	23	27	78	0	00	29.16	30.19				
13	FEW	NC		10.00	52	43	48	72	5	30	29.01	30.00	13	CLR	NC		10.00	44	25	36	47	10	24	29.04	30.05				
16	OVC	020		10.00	48	40	44	74	9	05	29.05	30.03	16	CLR	NC		10.00	48	15	36	27	8	23	28.96	29.97				
19	OVC	090		10.00	41	35	38	79	8	05	29.10	30.10	19	CLR	NC		10.00	42	18	33	38	7	23	28.96	29.98				
22	OVC	090		10.00	38	32	36	79	6	06	29.12	30.11	22	CLR	NC		10.00	36	21	31	55	6	22	28.96	29.98				
SUNRISE: 0733 DEC 05					SUNSET: 1723					SUNRISE: 0738 DEC 11					SUNSET: 1723														
01	OVC	085		10.00	38	31	35	76	9	05	29.07	30.06	01	OVC	047		10.00	36	24	32	62	6	21	28.95	29.95				
04	OVC	019		10.00	38	32	36	79	5	05	29.09	30.09	04	OVC	065		10.00	35	25	31	67	3	24	28.92	29.91				
07	OVC	017		10.00	38	32	35	79	5	05	29.08	30.08	07	OVC	033		10.00	36	26	32	67	6	24	28.94	29.93				
10	OVC	017		9.00	39	32	36	76	6	05	29.07	30.07	10	OVC	037		10.00	37	28	34	70	8	21	28.97	29.97				
13	OVC	019		10.00	39	31	36	73	6	06	29.03	30.03	13	OVC	043		10.00	42	25	35	51	7	VR	28.94	29.94				
16	BKN	040		10.00	39	29	35	67	7	34	29.03	30.03	16	OVC	046		10.00	42	26	36	53	7	VR	28.93	29.93				
19	OVC	033		10.00	35	25	31	67	5	01	29.09	30.11	19	OVC	049		10.00	41	25	35	53	6	VR	28.96	29.96				
22	SCT	NC		10.00	31	23	28	72	0	00	29.17	30.19	22	OVC	055		10.00	40	27	35	60	0	00	28.96	29.96				
SUNRISE: 0734 DEC 06					SUNSET: 1723					SUNRISE: 0738 DEC 12					SUNSET: 1723														
01	OVC	027		10.00	29	22	27	75	0	00	29.18	30.20	01	OVC	085		10.00	38	28	34	68	0	00	28.93	29.92				
04	OVC	024		9.00	27	23	26	85	0	00	29.19	30.22	04	OVC	065		10.00	37	32	35	82	0	00	28.89	29.88				
07	OVC	022		10.00	26	21	24	81	0	00	29.23	30.26	07	OVC	085		10.00	37	32	35	82	5	22	28.86	29.86				
10	CLR	NC		10.00	30	21	27	69	6	VR	29.31	30.34	10	OVC	080		10.00	41	32	37	70	6	VR	28.90	29.90				
13	CLR	NC		10.00	40	22	33	49	7	20	29.28	30.30	13	OVC	042		10.00	46	32	40	58	5	VR	28.89	29.88				
16	CLR	NC		10.00	42	20	34	41	6	VR	29.27	30.29	16	OVC	038		10.00	-RA	44	32	39	63	6	VR	28.97	29.96			
19	CLR	NC		10.00	34	23	30	64	0	00	29.30	30.34	19	OVC	030		10.00	-RA	39	35	37	86	0	00	29.07	30.08			
22	CLR	NC		10.00	30	22	27	72	0	00	29.36	30.39	22	OVC	036		10.00	39	29	35	67	0	00	29.11	30.12				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 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: 0739 DEC 13 SUNSET: 1724																													
01	BKN	038	10.00		36	25	32	64	7	36	29.15	30.15	01	CLR	NC	10.00		32	26	30	79	0	00	29.41	30.42				
04	OVC	036	10.00		34	23	30	64	6	36	29.18	30.19	04	CLR	NC	10.00		32	23	29	69	0	00	29.41	30.41				
07	OVC	034	10.00		33	21	29	61	7	36	29.23	30.25	07	CLR	NC	10.00		29	22	27	75	0	00	29.43	30.45				
10	CLR	NC	10.00		36	21	31	55	0	00	29.28	30.29	10	OVC	065	10.00		33	23	29	67	3	07	29.48	30.51				
13	OVC	041	10.00		41	23	34	49	7	VR	29.24	30.25	13	FEW	NC	10.00		41	23	34	49	6	VR	29.44	30.45				
16	CLR	NC	10.00		43	21	35	42	3	VR	29.22	30.23	16	CLR	NC	10.00		38	21	32	51	9	36	29.41	30.43				
19	CLR	NC	10.00		35	23	31	61	0	00	29.23	30.26	19	CLR	NC	10.00		29	19	26	66	5	04	29.43	30.46				
22	CLR	NC	10.00		30	23	28	75	0	00	29.23	30.26	22	CLR	NC	10.00		25	18	23	75	3	07	29.45	30.48				
SUNRISE: 0740 DEC 14 SUNSET: 1724																													
01	CLR	NC	10.00		31	25	29	79	3	05	29.19	30.22	01	CLR	NC	10.00		23	18	21	81	3	05	29.41	30.44				
04	CLR	NC	10.00		32	25	29	75	0	00	29.23	30.25	04	CLR	NC	10.00		22	12	19	66	5	03	29.39	30.42				
07	OVC	110	10.00		33	26	30	75	0	00	29.25	30.27	07	CLR	NC	10.00		21	9	18	59	3	05	29.39	30.44				
10	BKN	095	10.00		36	25	32	64	0	00	29.25	30.27	10	CLR	NC	10.00		27	10	22	49	7	06	29.43	30.47				
13	OVC	050	10.00	-RA	40	26	35	58	3	17	29.21	30.23	13	CLR	NC	10.00		35	6	27	29	3	VR	29.35	30.39				
16	OVC	050	10.00		41	26	35	55	0	00	29.15	30.16	16	CLR	NC	10.00		38	6	28	26	5	VR	29.31	30.34				
19	OVC	041	10.00		40	30	36	68	0	00	29.10	30.12	19	CLR	NC	10.00		30	10	24	43	5	05	29.32	30.36				
22	OVC	047	10.00		40	29	35	65	0	00	29.08	30.10	22	CLR	NC	10.00		27	12	23	53	0	00	29.32	30.36				
SUNRISE: 0740 DEC 15 SUNSET: 1724																													
01	OVC	042	5.00	-RA BR	36	34	35	93	3	05	29.07	30.07	01	CLR	NC	10.00		21	14	19	74	0	00	29.33	30.37				
04	OVC	043	5.00	-RA BR	35	33	34	93	6	04	28.96	29.96	04	CLR	NC	10.00		19	13	17	77	0	00	29.33	30.37				
07	OVC	049	4.00	RA BR	36	34	35	93	7	05	28.87	29.87	07	CLR	NC	10.00		17	12	16	80	0	00	29.35	30.40				
10	OVC	021	4.00	-RA BR	38	37	38	97	0	00	28.83	29.82	10	CLR	NC	10.00													
13	OVC	007	7.00	-RA	41	38	40	89	7	VR	28.79	29.79	13	CLR	NC	10.00		35	12	28	38	7	VR	29.33					
16	OVC	009	10.00		41	39	40	93	6	22	28.79	29.79	16	CLR	NC	10.00		39	14	31	36	0	00	29.30					
19	OVC	020	10.00		42	37	40	82	8	27	28.87	29.86	19	CLR	NC	10.00		29	17	25	61	0	00	29.33					
22	CLR	NC	10.00		37	31	35	79	5	22	28.95	29.95	22	CLR	NC	10.00		25	17	23	72	0	00	29.36					
SUNRISE: 0741 DEC 16 SUNSET: 1725																													
01	CLR	NC	5.00	BR	31	29	30	92	0	00	28.96	29.97	01	CLR	NC	10.00		22	17	20	82	0	00	29.35	30.39				
04	SCT	NC	5.00	BR	28	26	27	92	0	00	28.98	29.99	04	CLR	NC	10.00		19	15	18	85	0	00	29.37	30.40				
07	SCT	NC	3.00	BR	30	28	29	92	0	00	29.01	30.02	07	CLR	NC	10.00		18	13	17	81	0	00	29.37	30.42				
10	CLR	NC	10.00		36	29	33	76	7	VR	29.10	30.12	10	CLR	NC	7.00		25	22	24	88	0	00	29.40	30.45				
13	FEW	NC	10.00		41	23	34	49	8	26	29.11	30.13	13	CLR	NC	10.00		40	19	32	43	3	VR	29.31	30.34				
16	CLR	NC	10.00		42	22	34	45	7	VR	29.16	30.17	16	CLR	NC	10.00		46	18	36	33	5	17	29.26	30.29				
19	CLR	NC	10.00		35	25	31	67	0	00	29.22	30.25	19	CLR	NC	10.00		34	20	29	56	0	00	29.28	30.32				
22	CLR	NC	10.00		34	25	31	70	0	00	29.28	30.30	22	CLR	NC	10.00		28	20	25	72	0	00	29.24	30.28				
SUNRISE: 0742 DEC 17 SUNSET: 1725																													
01	CLR	NC	10.00		34	26	31	73	0	00	29.34	30.36	01	CLR	NC	10.00		24	18	22	77	0	00	29.22	30.24				
04	BKN	100	10.00		33	27	31	78	0	00	29.39	30.41	04	CLR	NC	10.00		22	17	20	82	0	00	29.23	30.25				
07	BKN	100	10.00		32	28	31	85	0	00	29.44	30.46	07	CLR	NC	10.00		24	19	22	81	5	24	29.22	30.26				
10	CLR	NC	10.00		36	28	33	73	5	04	29.47	30.50	10	CLR	NC	10.00		32	23	29	69	5	VR	29.24	30.27				
13	CLR	NC	10.00		42	25	35	51	8	04	29.45	30.47	13	CLR	NC	10.00		46	26	38	46	7	21	29.14	30.16				
16	CLR	NC	10.00		44	24	36	45	8	08	29.43	30.44	16	CLR	NC	10.00		50	25	40	38	7	20	29.08	30.10				
19	CLR	NC	10.00		40	25	34	55	0	00	29.45	30.48	19	CLR	NC	10.00		42	25	35	51	3	25	29.09	30.11				
22	CLR	NC	10.00		38	26	33	62	0	00	29.45	30.47	22	CLR	NC	10.00		35	25	31	67	0	00	29.08	30.10				
SUNRISE: 0742 DEC 18 SUNSET: 1725																													
01	OVC	110	10.00		37	28	34	70	0	00	29.43	30.44	01	CLR	NC	10.00		30	25	28	82	6	22	29.05	30.05				
04	CLR	NC	10.00		36	30	34	79	3	04	29.43	30.44	04	CLR	NC	9.00		28	23	26	81	0	00	29.05	30.05				
07	CLR	NC	10.00		30	26	29	85	0	00	29.45	30.47	07	CLR	NC	7.00		29	25	28	85	0	00	29.05	30.06				
10	CLR	NC	10.00		40	26	35	58	3	VR	29.48	30.51	10	CLR	NC	7.00		36	28	33	73	0	00	29.03	30.04				
13	CLR	NC	10.00		50	25	40	38	5	VR	29.42	30.42	13	FEW	NC	10.00		49	27	40	43	3	25	28.90	29.90				
16	CLR	NC	10.00		51	20	39	29	0	00	29.39	30.40	16	BKN	038	10.00		52	32	43	47	0	00	28.86	29.86				
19	CLR	NC	10.00		43	29	37	58	0	00	29.42	30.43	19	OVC	040	10.00	-RA	46	37	42	71	3	25	28.83	29.83				
22	CLR	NC	10.00		41	26	35	55	0	00	29.41	30.42	22	OVC	033	2.50	-RA BR	42	41	42	96	0	00	28.81	29.81				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

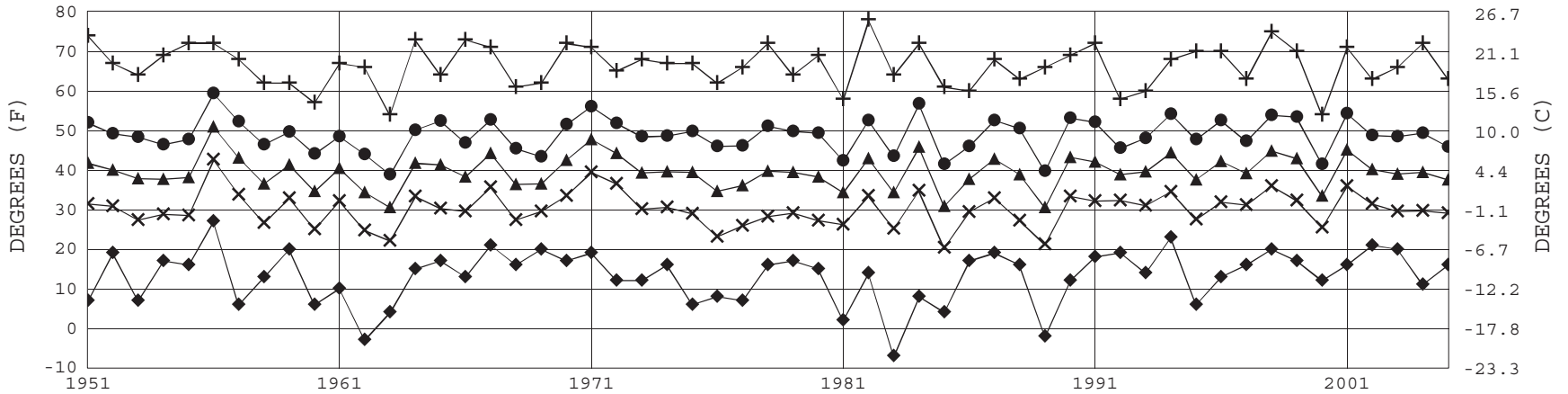
DECEMBER 2005

OQT

WBAN # 53868

HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SATELLITE		WEATHER	TEMPERATURE °F			RELATIVE HUMIDITY (PCT)	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	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	SPEED (MPH)	DIRECTION TENS OF DEG
				SUNRISE: 0746		DEC 25		SUNSET: 1729								SUNRISE: 0747		DEC 31		SUNSET: 1733							
01	OVC	043		7.00	-RA	41	39	40	93	3	03	28.72	29.71	01	OVC	049		4.00	BR	39	37	38	93	0	00	28.83	29.82
04	OVC	016		3.00	RA BR	41	40	41	96	0	00	28.67	29.64	04	VV	001		0.75	BR	38	36	37	93	0	00	28.82	29.82
07	OVC	014		3.00	-RA BR	42	40	41	92	0	00	28.61	29.59	07	CLR	NC		6.00	BR	38	36	37	93	6	21	28.91	29.91
10	OVC	007		2.00	-RA BR	42	41	42	96	0	00	28.62	29.60	10	CLR	NC		10.00		42	36	39	79	5	VR	29.00	30.00
13	OVC	005		6.00	BR	45	43	44	93	5	VR	28.59	29.57	13	CLR	NC		10.00		49	35	43	59	9	23	28.96	29.95
16	OVC	010		7.00	-RA	46	43	45	89	7	22	28.61	29.59	16	CLR	NC		10.00		50	31	42	48	8	22	28.96	29.95
19	OVC	065		10.00		44	41	43	89	6	22	28.66	29.64	19	CLR	NC		10.00		43	31	38	63	0	00	28.99	29.99
22	OVC	060		10.00		41	33	38	74	10	26	28.73	29.72	22	CLR	NC		10.00		36	31	34	82	0	00	29.02	30.02
				SUNRISE: 0746		DEC 26		SUNSET: 1730				3-HOURLY OBSERVATION NOTES															
01	OVC	039		10.00	-RA	37	32	35	82	12	27	28.80	29.79	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	100		10.00	-RA	37	32	35	82	14	27	28.85	29.85	Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet.													
07	BKN	100		10.00		37	32	35	82	8	25	28.92	29.92	NC= No ceiling detected.													
10	OVC	034		10.00		39	34	37	82	8	23	29.02	30.02	& = Original observation contained additional weather elements.													
13	OVC	028		10.00		41	31	37	67	6	VR	29.04	30.04	See page 3 for additional notes.													
16	OVC	025		10.00		40	31	36	70	6	26	29.08	30.08														
19	OVC	025		10.00		39	30	35	70	5	25	29.10	30.11														
22	OVC	021		10.00		37	30	34	76	5	25	29.11	30.12														
				SUNRISE: 0746		DEC 27		SUNSET: 1730				SUMMARY BY HOUR															
01	OVC	019		10.00		36	29	33	76	5	24	29.10	30.11	AVERAGES													
04	OVC	017		10.00		35	29	33	78	0	00	29.12	30.13	RESULTANT WIND (MPH)													
07	BKN	015		10.00		32	28	31	85	0	00	29.13	30.15	HOUR (LST)													
10	CLR	NC		10.00		37	31	35	79	0	00	29.15	30.16	CEILOMETER													
13	CLR	NC		10.00		47	33	41	59	3	VR	29.07	30.06	EFF CLD AMT													
16	SCT	NC		10.00		52	35	44	53	3	35	28.97	29.96	DRY BULB													
19	CLR	NC		10.00		43	36	40	76	0	00	28.93	29.93	DEW POINT													
22	CLR	NC		10.00		38	34	36	86	3	VR	28.91	29.91	WET BULB													
				SUNRISE: 0746		DEC 28		SUNSET: 1731				RELATIVE HUMIDITY															
01	CLR	NC		10.00		43	37	40	80	0	00	28.87	29.86	PRESSURE (INCHES, HG)													
04	BKN	060		10.00		41	37	39	86	0	00	28.82	29.81	STATION													
07	OVC	025		10.00		43	39	41	86	0	00	28.77	29.76	SEA LEVEL													
10	OVC	011		3.00	-RA BR	44	42	43	93	0	00	28.75	29.74	VISIBILITY (MILES)													
13	OVC	031		5.00	BR	49	46	47	90	0	00	28.63	29.60	WIND SPEED (MPH)													
16	BKN	090		10.00		61	48	54	63	13	18	28.47	29.43	SPEED													
19	CLR	NC		2.50	BR	48	47	47	96	3	13	28.55	29.52	DIRECTION													
22	OVC	050		10.00		50	40	45	68	5	VR	28.59	29.57														
				SUNRISE: 0747		DEC 29		SUNSET: 1732																			
01	OVC	034		10.00		47	41	44	80	5	VR	28.59	29.56														
04	OVC	042		10.00		43	37	40	80	7	26	28.64	29.60														
07	OVC	024		10.00		40	34	37	79	6	VR	28.69	29.67														
10	OVC	020		10.00		40	33	37	77	7	26	28.77	29.75														
13	OVC	019		10.00		40	32	37	73	6	VR	28.79	29.78														
16	OVC	023		10.00		40	33	37	77	7	26	28.86	29.85														
19	OVC	026		10.00		39	32	36	76	0	00	28.92	29.92														
22	OVC	033		10.00		39	32	36	76	0	00	28.93	29.93														
				SUNRISE: 0747		DEC 30		SUNSET: 1732																			
01	OVC	017		10.00		37	33	35	86	0	00	28.97	29.96														
04	OVC	017		10.00		37	32	35	82	6	05	28.97	29.97														
07	OVC	015		10.00		37	31	35	79	8	05	28.97	29.98														
10	OVC	013		10.00		38	32	35	79	0	00	29.03	30.03														
13	OVC	015		10.00		40	33	37	77	5	06	28.97	29.97														
16	CLR	NC		10.00		43	34	39	71	3	VR	28.91	29.91														
19	CLR	NC		10.00		38	34	36	86	0	00	28.87	29.87														
22	OVC	060		6.00	-RA BR	38	35	37	89	0	00	28.87	29.87														

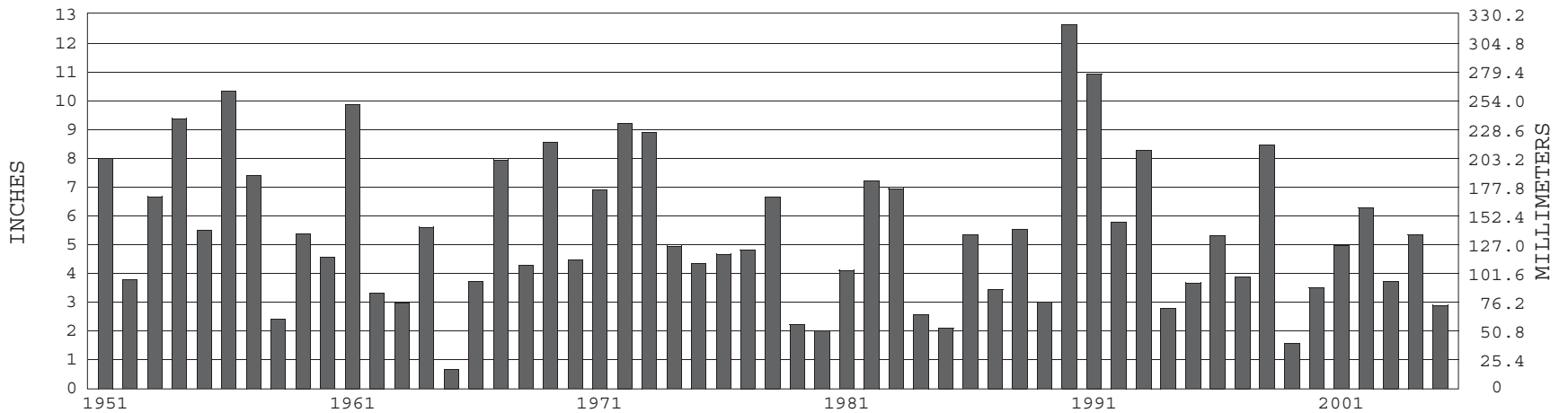
OAK RIDGE, TN DECEMBER TEMPERATURES



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

Long-Term (1951-2005) Mean: 39.5 1971-2000 Normal: 39.4

OAK RIDGE, TN DECEMBER PRECIPITATION



Long-Term (1951-2005) Mean Monthly Total: 5.45

1971-2000 Normal: 5.42



DECEMBER 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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