



# DECEMBER 2006 LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

OAK RIDGE, TN  
OAK RIDGE (KOQT)  
Lat:36° 1' N Long: 84° 14' W Elev (Ground) 910 Feet  
Time Zone : EASTERN WBAN: 53868 ISSN#: 0198-487X



Date 1	Temperature °F						Deg Days BASE 65°		WEATHER 10	SNOW/ICE ON GND(IN)		PRECIPITATION ON GND(IN)		PRESSURE (INCHES OF HG)		WIND SPEED = MPH DIR = TENS OF DEGREES								Date 24
	MAXIMUM 2	MINIMUM 3	AVERAGE 4	DEP FROM NORMAL 5	AVERAGE DEW PT 6	AVERAGE WET BULB 7	HEATING 8	COOLING 9		0700 LST	1300 LST	2400 LST	2400 LST	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			5-SEC		2-MIN			
20	21	22	23	24																				
01	70*	30	50	7	37	44	15	0	RA BR			0.18	28.97	29.98	7.1	23	8.6	39*	20	28*	22	01		
02	50	26	38	-5	25	33	27	0				0.00	29.36	30.40	3.3	05	3.8	13	07	12	07	02		
03	49	35	42	0	26	35	23	0				0.00	29.37	30.39	1.8	35	1.9	15	35	10	34	03		
04	37	21	29	-13	12	24	36	0				0.00	29.47	30.50	0.8	01	3.1	16	35	12	36	04		
05	47	22	35	-7	17	28	30	0				0.00	29.41	30.44	0.5	23	1.2	9	20	7	18	05		
06	55	24	40	-1	22	33	25	0				0.00	29.25	30.26	1.7	22	3.1	22	20	16	20	06		
07	43	19	31	-10	18	28	34	0	SN			T	29.31	30.38	4.0	33	6.1	24	29	17	35	07		
08	32	15	24*	-17	4	17	41	0				0.00	29.62	30.68	1.2	04	2.3	12	05	9	06	08		
09	44	14*	29	-12	13	23	36	0				0.00	29.56	30.61	0.2	19	0.6	8	05	7	05	09		
10	49	21	35	-5	19	28	30	0				0.00	29.52	30.55	0.1	09	0.3	6	04	5	21	10		
11	60	31	46	6	27	37	19	0				0.00	29.47	30.49	0.3	05	0.9	8	36	6	06	11		
12	66	31	49	9	37	42	16	0	RA BR			0.13	29.33	30.32	0.3	17	1.3	15	21	12	20	12		
13	61	42	52	12	47	49	13	0	RA FG+ FG BR			0.26	29.25	30.23			0.0	7	26	6	24	13		
14	60	38	49	9	42	45	16	0	FG+ FG BR			0.00	29.13	30.10	0.6	23	1.1	10	25	8	28	14		
15	63	35	49	10	40	44	16	0	BR			0.00	29.01	30.01	2.3	22	3.1	15	23	12	21	15		
16	65	32	49	10	37	41	16	0	FG+ FG BR			0.00	29.16	30.17	0.4	22	0.9	10	25	8	26	16		
17	67	33	50	11	38	43	15	0				0.00	29.26	30.26	0.3	25	0.8	12	27	8	27	17		
18	69	37	53	14	41	46	12	0	BR			0.00	29.31	30.31	0.7	23	1.3	9	20	7	21	18		
19	61	40	51	12	41	45	14	0	RA BR			T	29.35	30.36	1.9	05	2.3	14	04	10	06	19		
20	60	37	49	11	36	42	16	0				0.00	29.35	30.35	0.8	05	1.7	9	05	7	05	20		
21	56	47	52	14	45	48	13	0	RA BR			0.03	29.29	30.27	0.4	07	0.4	6	08	5	08	21		
22	57	50	54*	16	52	52	11	0	RA FG BR			1.02	29.02	29.98	0.4	02	1.7	13	28	10	08	22		
23	58	36	47	9	40	44	18	0	RA FG+ FG BR			T	29.08	30.09	1.0	19	1.5	12	21	10	21	23		
24	56	31	44	6	33	39	21	0	FG+ FZFG BR			0.00	29.21	30.20	2.2	04	2.8	14	05	12	06	24		
25	55	44	50	12	44	47	15	0	RA			0.15	28.80	29.73	1.7	04	4.6	20	24	14	22	25		
26	48	36	42	5	34	38	23	0	RA			0.03	28.84	29.88	4.5	24	6.3	22	27	16	26	26		
27	47	28	38	1	26	33	27	0				0.00	29.21	30.25			0.4	8	16	7	17	27		
28	55	28	42	5	29	34	23	0	BR			0.00	29.35	30.40			0.1	7	21	6	27	28		
29	57	28	43	6	32	36	22	0	BR			0.00	29.49	30.52	0.6	05	1.1	9	06	8	05	29		
30	59	36	48	11	40	45	17	0	RA			T	29.41	30.40	4.1	05	4.1	14	05	12	06	30		
31	59	47	53	16	48	50	12	0	RA BR			0.70	29.12	30.07	0.4	10	1.8	16	22	10	21	31		

55.3			32.1			43.7			☼	32.3			38.5			21.0		0.0		< MONTHLY AVERAGES   TOTALS >				2.50		29.26		30.27		0.2		32		2.2		< MONTHLY AVERAGES			
6.3			2.3			4.3				<----- DEPARTURE FROM NORMAL ----->												-2.92		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3															
<b>DEGREE DAYS</b>										GREATEST 24-HR PRECIPITATION : 1.02 DATE : 22										SEA LEVEL PRESSURE				DATE TIME															
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :					DATE :					MAXIMUM :				30.75 08 1053															
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :					DATE :					MINIMUM :				29.58 25 1731															
HEATING :		652		-135		1447		-118		NUMBER OF		->		MAXIMUM TEMP >= 90 :		0		MINIMUM TEMP <= 32 :		16		PRECIPITATION >= 0.01 INCH :		8															
COOLING :		0		0		1519		218		DAYS WITH		THUNDERSTORMS		:		0		HEAVY FOG		:		PRECIPITATION >= 0.10 INCH :		6															
																						SNOWFALL >= 1.0 INCH :																	

DECEMBER 2006  
OAK RIDGE, TN

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
DECEMBER 2006

WBAN # 53868

Date	FOR HOUR (LST) ENDING AT												Date	FOR HOUR (LST) ENDING AT												Date	Sum of Hourly Data	2400 LST Water Equiv.
	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			0.02	0.02	0.03	T	0.11	T					01												01	0.18	0.18	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07			T	T	T	T	T	T			07	T	T		
08													08											08	0.00	0.00		
09													09											09	0.00	0.00		
10													10											10	0.00	0.00		
11													11											11	0.00	0.00		
12													12						T	0.03	0.03	0.05	0.01	0.01	12	0.13	0.13	
13	0.07	0.18	0.01	T	T	T	T	T				13												13	0.26	0.26		
14												14												14	0.00	0.00		
15												15												15	0.00	0.00		
16												16												16	0.00	0.00		
17												17												17	0.00	0.00		
18												18												18	0.00	0.00		
19												19												19	T	T		
20												20												20	0.00	0.00		
21												21												21	0.03	0.03		
22												22	0.02	0.02	0.02									22	1.02	1.02		
23	T											23												23	T	T		
24												24												24	0.00	0.00		
25	T	0.01	T	0.02	T	T	0.01	0.01				25	0.04	0.03	T	T	T							25	0.15	0.15		
26												26	0.01	T	0.01	T	T							26	0.03	0.03		
27												27												27	0.00	0.00		
28												28												28	0.00	0.00		
29												29												29	0.00	0.00		
30												30												30	T	T		
31												31	0.14	0.02	0.09	T			0.03	0.31	0.01			31	0.70	0.70		

\* Indicates sum of Hourly and Daily disagree.

### MAXIMUM SHORT DURATION PRECIPITATION (See Note)

Time Period (Minutes)	5	10	15	20	30	45	60	80	100	120	150	180
Precipitation (Inches)	0.08	0.13	0.17	0.20	0.23	0.26	0.31	0.34	0.36	0.38	0.42	0.48
Ending Date	31	22	31	22	22	22	31	31	22	22	22	22
Ending Time (Hr/Min)	1852	1045	1852	1048	1051	1059	1852	1852	1126	1126	1059	1051

Note : The hourly and daily precipitation totals are printed in the last 2 columns and hi-lighted in red when they disagree. 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.

Date and time are not entered for TRACE amounts.

# 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		
DESCRIPTOR	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	
PR Partial	RA Rain	PY Spray	SQ Squalls
SH Shower(s)	SG Snow Grains	SA Sand	SS Sandstorm
TS Thunderstorm	SN Snow	VA Volcanic Ash	GL Glaze
VC In the Vicinity	UP Unkown Precipitation		

Intensity (as indicated on pages 4 to 6):  
'+' = Heavy    '' = Moderate    '-' = Light

# OAK RIDGE, TN DECEMBER 2006

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:

Station Augmentation-OAK RIDGE ATDD COOP  
Lat/Lon:36.00278/-84.24861 Elevation:905FT  
Distance:1.5 MI Dir:SW  
Augmented Elements:Temp,Precip,Snow  
Equipment:Pcpn-Model TRP525M, Temp Vaisala HMP35C,  
Snow Board, Snow Stick

Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
	TOTAL MINUTES	PERCENT POSSIBLE	SR-SS		MN-MN		MINIMUM	MAXIMUM	
			Sky Cover	Satellite	Sky Cover	Satellite			
01							7.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							10.00	10.00	
07							1.50	10.00	
08							10.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							5.00	10.00	
13							0.25	10.00	
14							0.25	10.00	
15							5.00	10.00	
16							0.25	10.00	
17							7.00	10.00	
18							6.00	10.00	
19							5.00	10.00	
20							10.00	10.00	
21							6.00	10.00	
22							1.25	10.00	
23							0.25	10.00	
24							0.25	10.00	
25							4.00	10.00	
26							7.00	10.00	
27							7.00	10.00	
28							6.00	10.00	
29							1.75	10.00	
30							9.00	10.00	
31							1.50	10.00	
MONTHLY AVGS							5.85	10.00	
<b>SUNSHINE (Minutes)</b>									
Total :					Possible :				
Percent Possible :									
<b>NUMBER OF DAYS WITH :</b>									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
<b>MINIMUM VISIBILITY (MILES)</b>									
<= .25		<= 3.0			>= 7.0				
5		9			15				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

DECEMBER 2006 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)				STATION	SEA LEVEL		DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL			
																									Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)
<b>SUNRISE: 0728 DEC 01</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0734 DEC 07</b>						<b>SUNSET: 1722</b>									
01	BKN	110			10.00	68	58	62	71	9	20	28.84	29.79	01	CLR	NC			10.00	39	23	33	53	5	22	29.18	30.18
04	OVC	045			7.00	67	60	63	78	7	22	28.76	29.68	04	CLR	NC			10.00	40	21	33	47	5	VR	29.20	30.19
07	OVC	070			10.00	63	57	59	81	17	22	28.74	29.68	07	CLR	NC			10.00	31	23	28	72	0	00	29.24	30.24
10	BKN	040			10.00	50	35	43	57	18	25	28.95	29.92	10	CLR	NC			10.00	40	26	35	57	10	27	29.30	30.30
13	BKN	038			10.00	45	28	38	51	11	25	29.07	30.03	13	OVC	050			10.00	39	25	34	57	10	30	29.33	30.34
16	CLR	NC			10.00	41	24	34	51	10	25	29.15	30.13	16	OVC	065			1.50	30	23	28	75	13	35	29.42	30.44
19	CLR	NC			10.00	38	24	33	57	5	VR	29.24	30.22	19	BKN	046			10.00	26	9	21	48	14	35	29.52	30.57
22	CLR	NC			10.00	34	25	31	70	0	00	29.28	30.29	22	CLR	NC			10.00	21	3	17	45	10	01	29.59	30.63
<b>SUNRISE: 0729 DEC 02</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0734 DEC 08</b>						<b>SUNSET: 1722</b>									
01	CLR	NC			10.00	29	24	27	82	0	00	29.31	30.33	01	CLR	NC			10.00	18	2	14	49	5	01	29.62	30.67
04	CLR	NC			10.00	27	24	26	88	0	00	29.35	30.37	04	CLR	NC			10.00	17	1	13	49	3	03	29.62	30.68
07	CLR	NC			10.00	28	23	26	82	0	00	29.37	30.40	07	CLR	NC			10.00	16	2	13	54	6	04	29.66	30.72
10	CLR	NC			10.00	37	26	33	65	6	VR	29.44	30.46	10	CLR	NC			10.00	20	3	16	47	5	VR	29.67	30.74
13	CLR	NC			10.00	45	26	37	47	11	07	29.39	30.41	13	CLR	NC			10.00	27	3	21	35	5	18	29.65	30.71
16	CLR	NC			10.00	48	23	38	37	8	04	29.37	30.38	16	CLR	NC			10.00	32	3	24	29	3	32	29.59	30.65
19	CLR	NC			10.00	44	26	37	49	5	05	29.38	30.40	19	CLR	NC			10.00	26	7	21	44	0	00	29.57	30.64
22	CLR	NC			10.00	43	26	36	51	5	07	29.38	30.40	22	CLR	NC			10.00	20	9	17	62	0	00	29.58	30.65
<b>SUNRISE: 0730 DEC 03</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0735 DEC 09</b>						<b>SUNSET: 1722</b>									
01	CLR	NC			10.00	39	27	34	62	0	00	29.38	30.39	01	CLR	NC			10.00	19	11	17	71	0	00	29.59	30.65
04	CLR	NC			10.00	37	28	33	70	0	00	29.37	30.37	04	CLR	NC			10.00	17	11	15	77	0	00	29.59	30.65
07	CLR	NC			10.00	36	29	33	76	0	00	29.38	30.39	07	CLR	NC			10.00	15	9	14	77	0	00	29.59	30.65
10	CLR	NC			10.00	38	27	34	65	0	00	29.42	30.43	10	CLR	NC			10.00	24	17	22	75	3	12	29.61	30.67
13	CLR	NC			10.00	44	28	37	53	0	00	29.36	30.37	13	CLR	NC			10.00	37	11	29	34	5	29	29.55	30.60
16	CLR	NC			10.00	49	29	41	46	0	00	29.34	30.34	16	CLR	NC			10.00	44	9	33	24	3	17	29.50	30.54
19	CLR	NC			10.00	43	21	35	42	7	34	29.37	30.39	19	CLR	NC			10.00	33	14	27	46	0	00	29.52	30.56
22	CLR	NC			10.00	38	24	33	57	8	36	29.42	30.44	22	CLR	NC			10.00	27	15	23	61	0	00	29.52	30.57
<b>SUNRISE: 0731 DEC 04</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0736 DEC 10</b>						<b>SUNSET: 1722</b>									
01	CLR	NC			10.00	32	17	27	54	6	VR	29.45	30.47	01	CLR	NC			10.00	25	17	23	72	0	00	29.52	30.56
04	CLR	NC			10.00	25	13	21	60	3	VR	29.49	30.51	04	CLR	NC			10.00	22	17	20	81	0	00	29.53	30.57
07	CLR	NC			10.00	21	12	18	68	0	00	29.52	30.55	07	CLR	NC			10.00	22	17	20	81	0	00	29.56	30.61
10	CLR	NC			10.00	26	12	22	55	3	VR	29.53	30.57	10	CLR	NC			10.00	31	24	29	75	5	05	29.58	30.63
13	CLR	NC			10.00	33	12	26	42	0	00	29.49	30.53	13	CLR	NC			10.00	44	15	34	31	3	21	29.52	30.55
16	CLR	NC			10.00	37	12	29	36	6	VR	29.43	30.46	16	CLR	NC			10.00	48	15	36	27	0	00	29.49	30.51
19	CLR	NC			10.00	32	9	25	38	3	23	29.42	30.46	19	CLR	NC			10.00	35	20	30	54	0	00	29.48	30.51
22	CLR	NC			10.00	29	12	24	49	0	00	29.43	30.47	22	FEW	120			10.00	33	22	29	64	0	00	29.48	30.51
<b>SUNRISE: 0732 DEC 05</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0737 DEC 11</b>						<b>SUNSET: 1723</b>									
01	CLR	NC			10.00	27	14	23	58	3	27	29.44	30.47	01	CLR	NC			10.00	35	24	31	64	0	00	29.47	30.48
04	CLR	NC			10.00	27	13	23	55	0	00	29.44	30.47	04	OVC	110			10.00	34	25	31	70	0	00	29.49	30.50
07	CLR	NC			10.00	22	15	20	74	0	00	29.46	30.49	07	BKN	110			10.00	33	25	30	72	0	00	29.52	30.54
10	CLR	NC			10.00	34	14	28	44	3	22	29.47	30.50	10	CLR	NC			10.00	42	26	36	53	3	04	29.53	30.56
13	CLR	NC			10.00	43	17	34	35	3	VR	29.43	30.45	13	CLR	NC			10.00	56	20	42	25	3	VR	29.49	30.48
16	CLR	NC			10.00	47	18	36	31	0	00	29.37	30.39	16	CLR	NC			10.00	59	31	46	35	0	00	29.43	30.43
19	CLR	NC			10.00	37	21	31	52	0	00	29.38	30.41	19	CLR	NC			10.00	46	33	40	61	0	00	29.44	30.45
22	CLR	NC			10.00	31	21	28	66	0	00	29.37	30.40	22	CLR	NC			10.00	38	31	35	76	3	06	29.45	30.46
<b>SUNRISE: 0733 DEC 06</b>						<b>SUNSET: 1722</b>						<b>SUNRISE: 0737 DEC 12</b>						<b>SUNSET: 1723</b>									
01	CLR	NC			10.00	28	22	26	78	0	00	29.33	30.35	01	CLR	NC			10.00	34	30	32	85	0	00	29.42	30.42
04	CLR	NC			10.00	27	23	26	85	0	00	29.31	30.32	04	CLR	NC			10.00	32	29	31	89	0	00	29.40	30.40
07	CLR	NC			10.00	25	21	24	85	0	00	29.30	30.32	07	CLR	NC			9.00	31	29	30	92	0	00	29.40	30.41
10	CLR	NC			10.00	36	27	33	70	5	22	29.31	30.33	10	BKN	045			10.00	43	36	40	76	3	06	29.41	30.41
13	FEW	110			10.00	51	26	41	38	7	VR	29.22	30.23	13	SCT	050			10.00	59	37	48	44	0	00	29.30	30.29
16	OVC	095			10.00	53	21	40	29	7	VR	29.15	30.16	16	OVC	055			10.00	63	41	52	45	0	00	29.21	30.21
19	OVC	065			10.00	51	20	39	29	6	VR	29.16	30.18	19	OVC	070			10.00	57	43	50	60	5	30	29.21	30.21
22	CLR	NC			10.00	45	23	36	42	3	23	29.19	30.20	22	OVC	050			5.00	52	50	51	93	0	00	29.27	30.27

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

DECEMBER 2006

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg				STATION	SEA LEVEL		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0738						DEC 13						SUNSET: 1723																	
01	OVC	037			2.50	RA BR	51	49	50	93	0	00	29.27	30.25	01	CLR	NC			7.00	BR	44	41	43	89	0	00	29.32	30.29
04	OVC	025			3.00	BR	50	49	49	96	0	00	29.27	30.24	04	CLR	NC			6.00	BR	42	39	41	89	0	00	29.32	30.30
07	OVC	017			2.50	BR	50	48	49	93	0	00	29.28	30.26	07	OVC	090			6.00	BR	42	39	41	89	3	12	29.35	30.35
10	OVC	010			2.50	BR	50	48	49	93	0	00	29.30	30.29	10	OVC	060			6.00	BR	49	45	47	86	0	00	29.40	30.40
13	OVC	020			3.00	BR	54	51	52	90	0	00	29.25	30.24	13	OVC	024			10.00		57	48	52	72	7	06	29.38	30.36
16	CLR	NC			10.00		60	49	54	67	0	00	29.21	30.18	16	CLR	NC			10.00		57	41	49	55	8	05	29.37	30.36
19	CLR	NC			7.00		49	47	48	93	0	00	29.21	30.19	19	CLR	NC			10.00		50	38	44	64	5	05	29.38	30.38
22	SCT	001			4.00	BR	43	41	42	93	0	00	29.20	30.20	22	CLR	NC			10.00		46	34	41	63	0	00	29.40	30.39
SUNRISE: 0739						DEC 14						SUNSET: 1723																	
01	OVC	005			0.25	FG	42	41	42	96	0	00	29.19	30.19	01	CLR	NC			10.00		41	33	38	73	3	06	29.38	30.37
04	OVC	006			0.25	FG	40	39	40	96	0	00	29.18	30.16	04	CLR	NC			10.00		38	33	36	82	3	VR	29.37	30.36
07	OVC	006			0.25	FG	38	37	38	96	0	00	29.17	30.17	07	CLR	NC			10.00		38	33	36	82	0	00	29.38	30.38
10	VV	001			0.25	FG	41	40	41	96	0	00	29.19	30.19	10	CLR	NC			10.00		45	33	40	63	3	VR	29.41	30.41
13	BKN	034			10.00		54	46	50	75	0	00	29.13	30.11	13	CLR	NC			10.00		56	36	47	47	5	27	29.34	30.33
16	CLR	NC			10.00		60	46	53	60	3	VR	29.04	30.02	16	CLR	NC			10.00		60	39	50	46	0	00	29.30	30.29
19	CLR	NC			9.00		49	44	47	83	3	21	29.04	30.03	19	CLR	NC			10.00		52	40	46	64	0	00	29.32	30.32
22	CLR	NC			10.00		49	44	47	83	3	VR	29.04	30.03	22	CLR	NC			10.00		49	41	45	74	0	00	29.33	30.33
SUNRISE: 0739						DEC 15						SUNSET: 1724																	
01	CLR	NC			6.00	BR	42	40	41	93	5	22	29.02	30.01	01	FEW	120			10.00		49	41	45	74	0	00	29.34	30.32
04	CLR	NC			5.00	BR	40	38	39	93	5	25	29.02	29.99	04	BKN	120			10.00		48	41	45	77	0	00	29.31	30.29
07	CLR	NC			5.00	BR	36	34	35	92	0	00	29.01	30.01	07	OVC	095			10.00	-RA	47	43	45	86	0	00	29.31	30.29
10	CLR	NC			10.00		48	42	45	80	6	22	29.03	30.01	10	BKN	050			8.00		49	45	47	86	0	00	29.35	30.35
13	CLR	NC			10.00		58	45	51	62	10	21	28.98	29.95	13	BKN	100			10.00		53	46	49	77	3	08	29.29	30.27
16	CLR	NC			10.00		63	43	53	48	6	VR	28.97	29.95	16	OVC	090			10.00		55	46	50	72	0	00	29.26	30.24
19	CLR	NC			10.00		54	43	49	67	0	00	29.05	30.04	19	OVC	050			9.00		51	47	49	86	0	00	29.26	30.25
22	CLR	NC			10.00		47	40	44	77	0	00	29.10	30.08	22	BKN	050			7.00		50	48	49	93	0	00	29.21	30.19
SUNRISE: 0740						DEC 16						SUNSET: 1724																	
01	CLR	NC			10.00		41	37	39	86	0	00	29.10	30.09	01	OVC	100			8.00		50	48	49	93	0	00	29.14	30.12
04	CLR	NC			8.00		36	33	35	89	0	00	29.13	30.12	04	BKN	120			7.00		50	47	48	90	0	00	29.09	30.06
07	CLR	NC			8.00		33	31	32	92	0	00	29.18	30.18	07	OVC	043			2.50	RA BR	50	49	49	96	0	00	29.05	30.03
10	OVC	001			0.75	BR	39	38	39	96	0	00	29.22	30.22	10	OVC	004			2.50	RA BR	52	50	51	93	0	00	29.03	30.00
13	CLR	NC			10.00		57	42	49	57	3	20	29.17	30.16	13	OVC	019			10.00	-RA	56	54	55	93	5	35	28.95	29.92
16	CLR	NC			10.00		65	37	51	36	5	VR	29.15	30.14	16	OVC	014			10.00		57	55	56	93	0	00	28.94	29.91
19	CLR	NC			10.00		50	40	45	69	0	00	29.18	30.18	19	OVC	011			4.00	-RA BR	57	55	56	93	0	00	28.97	29.94
22	CLR	NC			10.00		42	38	40	86	0	00	29.22	30.22	22	OVC	004			6.00	BR	57	55	56	93	3	VR	28.98	29.95
SUNRISE: 0741						DEC 17						SUNSET: 1724																	
01	CLR	NC			9.00		39	35	37	86	0	00	29.23	30.23	01	OVC	039			10.00		53	49	51	86	3	24	28.99	29.96
04	CLR	NC			9.00		36	33	35	89	0	00	29.25	30.24	04	FEW	070			10.00		48	45	47	89	0	00	29.03	30.01
07	CLR	NC			7.00		35	32	34	89	0	00	29.28	30.28	07	VV	001			1.00	BR	42	40	41	93	0	00	29.08	30.06
10	CLR	NC			10.00		47	40	44	77	0	00	29.33	30.33	10	FEW	001			10.00		47	45	46	93	0	00	29.14	30.12
13	CLR	NC			10.00		62	41	51	46	0	00	29.28	30.27	13	SCT	033			10.00		55	40	48	57	5	16	29.12	30.09
16	CLR	NC			10.00		67	41	54	39	0	00	29.24	30.22	16	FEW	038			10.00		56	38	47	51	9	20	29.12	30.10
19	CLR	NC			10.00		53	43	48	69	0	00	29.26	30.27	19	CLR	NC			10.00		47	38	43	71	3	22	29.16	30.16
22	CLR	NC			10.00		45	40	43	83	0	00	29.29	30.28	22	CLR	NC			10.00		39	36	38	89	0	00	29.16	30.16
SUNRISE: 0741						DEC 18						SUNSET: 1725																	
01	CLR	NC			8.00		41	38	40	89	0	00	29.27	30.26	01	CLR	NC			10.00		35	32	34	89	0	00	29.20	30.20
04	CLR	NC			8.00		39	37	38	93	0	00	29.30	30.28	04	OVC	006			0.25	FZFG	31	30	31	96	0	00	29.25	30.25
07	CLR	NC			6.00	BR	38	35	37	89	0	00	29.34	30.34	07	OVC	006			0.25	FZFG	31	30	31	96	0	00	29.26	30.27
10	CLR	NC			9.00		47	41	44	80	0	00	29.39	30.38	10	CLR	NC			7.00		39	37	38	93	6	VR	29.28	30.29
13	CLR	NC			10.00		65	44	54	47	3	VR	29.33	30.31	13	CLR	NC			10.00		52	35	44	53	8	04	29.21	30.21
16	CLR	NC			10.00		69	44	56	41	6	20	29.29	30.28	16	CLR	NC			10.00		55	35	46	47	6	03	29.15	30.15
19	CLR	NC			10.00		56	46	51	69	0	00	29.31	30.31	19	CLR	NC			10.00		50	33	42	52	6	04	29.17	30.17
22	CLR	NC			9.00		47	43	45	86	0	00	29.33	30.32	22	CLR	NC			10.00		48	34	42	59	0	00	29.14	30.14

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

DECEMBER 2006 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)							
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL				
														WEATHER			
<b>SUNRISE: 0745</b>						<b>DEC 25</b>						<b>SUNSET: 1728</b>					
01	OVC	090			10.00	-RA	47	37	42	68	0	00	29.07	30.04			
04	OVC	055			10.00	-RA	45	40	43	83	7	04	28.97	29.94			
07	OVC	075			10.00		45	41	43	86	7	04	28.88	29.86			
10	OVC	060			10.00		48	42	45	80	10	04	28.79	29.77			
13	OVC	046			4.00	-RA	52	46	49	80	5	06	28.64	29.60			
16	OVC	030			10.00		52	49	50	90	0	00	28.62	29.58			
19	OVC	055			10.00	-RA	52	49	50	90	5	24	28.64	29.60			
22	OVC	085			10.00		51	45	48	80	6	VR	28.63	29.59			
<b>SUNRISE: 0745</b>						<b>DEC 26</b>						<b>SUNSET: 1729</b>					
01	OVC	070			10.00		47	39	43	74	9	22	28.66	29.62			
04	OVC	023			10.00		46	38	42	74	9	22	28.68	29.64			
07	OVC	024			10.00		40	33	37	76	6	26	28.77	29.76			
10	OVC	033			10.00		40	32	37	73	6	VR	28.86	29.85			
13	OVC	034			10.00	-RA	40	35	38	82	5	24	28.90	29.89			
16	OVC	039			10.00		39	33	36	79	9	25	28.95	29.94			
19	OVC	070			10.00		38	32	36	79	7	27	29.04	30.04			
22	OVC	029			10.00	-RA	36	32	34	85	0	00	29.10	30.11			
<b>SUNRISE: 0745</b>						<b>DEC 27</b>						<b>SUNSET: 1729</b>					
01	OVC	034			10.00		36	29	33	76	3	VR	29.13	30.13			
04	OVC	032			10.00		36	27	33	70	0	00	29.17	30.18			
07	CLR	NC			10.00		30	26	29	85	0	00	29.23	30.26			
10	CLR	NC			10.00		36	26	32	67	0	00	29.27	30.29			
13	CLR	NC			10.00		43	24	36	47	3	VR	29.24	30.25			
16	CLR	NC			10.00		47	23	38	39	0	00	29.23	30.23			
19	CLR	NC			10.00		38	27	34	65	0	00	29.26	30.29			
22	CLR	NC			10.00		33	27	31	79	0	00	29.29	30.31			
<b>SUNRISE: 0746</b>						<b>DEC 28</b>						<b>SUNSET: 1730</b>					
01	CLR	NC			10.00		32	27	30	82	0	00	29.30	30.32			
04	CLR	NC			9.00		30	27	29	89	0	00	29.32	30.33			
07	CLR	NC			8.00		29	26	28	89	0	00	29.36	30.38			
10	CLR	NC			10.00		36	31	34	82	0	00	29.43	30.45			
13	CLR	NC			10.00		49	30	41	48	3	VR	29.38	30.39			
16	CLR	NC			10.00		54	28	43	37	0	00	29.36	30.36			
19	CLR	NC			10.00		43	31	38	63	0	00	29.39	30.42			
22	CLR	NC			10.00		36	30	34	79	0	00	29.45	30.47			
<b>SUNRISE: 0746</b>						<b>DEC 29</b>						<b>SUNSET: 1731</b>					
01	CLR	NC			10.00		32	28	30	85	0	00	29.47	30.48			
04	CLR	NC			9.00		30	26	29	85	0	00	29.49	30.50			
07	CLR	NC			7.00		28	26	27	92	0	00	29.52	30.55			
10	OVC	045			10.00		37	33	35	86	5	VR	29.59	30.62			
13	OVC	049			10.00		52	33	44	49	5	05	29.53	30.55			
16	OVC	050			10.00		56	35	46	45	3	06	29.49	30.49			
19	CLR	NC			10.00		45	37	41	74	0	00	29.48	30.50			
22	CLR	NC			10.00		39	34	37	82	0	00	29.48	30.49			
<b>SUNRISE: 0746</b>						<b>DEC 30</b>						<b>SUNSET: 1732</b>					
01	CLR	NC			9.00		37	34	36	89	3	07	29.46	30.46			
04	OVC	060			10.00		40	37	39	89	3	07	29.45	30.45			
07	OVC	060			10.00		43	38	41	83	0	00	29.44	30.44			
10	BKN	070			10.00		49	38	44	66	6	04	29.48	30.48			
13	OVC	065			10.00		55	39	47	55	8	05	29.42	30.42			
16	OVC	047			10.00		59	42	50	54	6	05	29.37	30.36			
19	OVC	060			10.00		57	42	50	57	7	04	29.34	30.32			
22	OVC	033			10.00		55	44	49	67	3	04	29.33	30.32			

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)							
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL				
														WEATHER			
<b>SUNRISE: 0747</b>						<b>DEC 31</b>						<b>SUNSET: 1732</b>					
01	CLR	NC			10.00		49	44	47	83	0	00	29.28	30.26			
04	CLR	NC			10.00		49	43	46	80	0	00	29.23	30.21			
07	CLR	NC			10.00		49	45	47	86	3	08	29.16	30.14			
10	OVC	048			5.00	-RA BR	50	47	48	90	0	00	29.16	30.14			
13	OVC	033			2.00	RA BR	52	51	51	96	0	00	29.09	30.06			
16	OVC	039			4.00	BR	55	53	54	93	0	00	28.98	29.96			
19	OVC	027			1.50	RA BR	57	56	56	96	5	17	28.97	29.94			
22	BKN	065			10.00		57	47	52	69	5	VR	29.01	29.98			

## 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, W = Vertical Visibility = 8/8

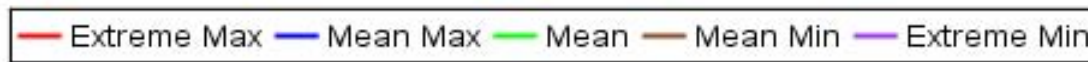
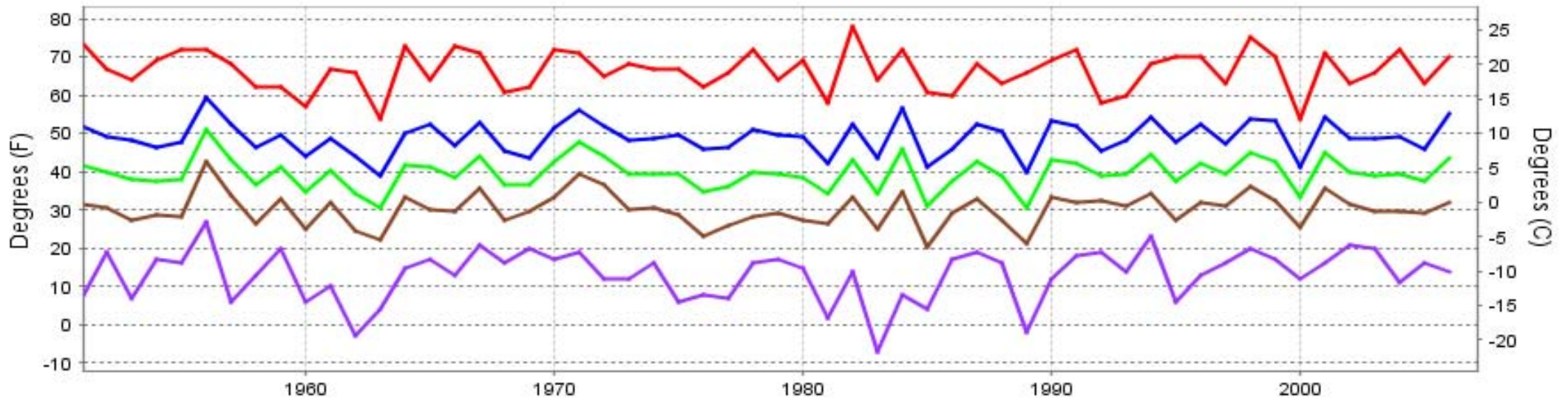
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

& = Original observation contained additional weather elements. See page 3 for additional notes.

## SUMMARY BY HOUR

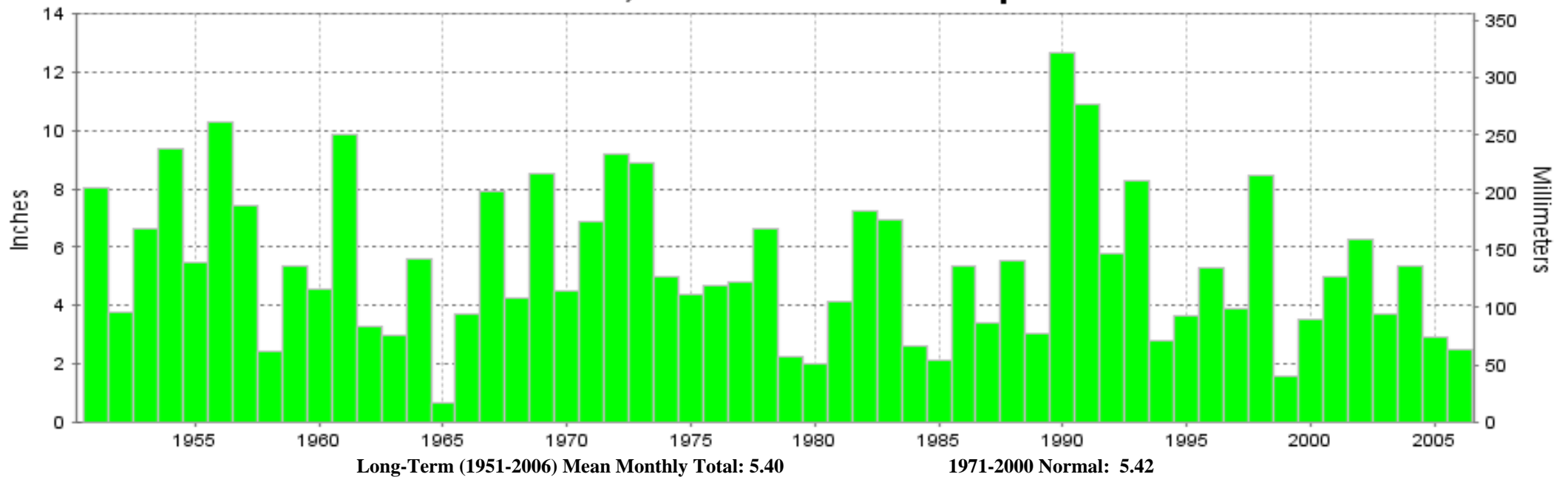
HOUR (LST)	AVERAGES										RESULTANT WIND (MPH)	
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			39	32	36	78	29.27	30.27	9.02	2	1	26
02			38	32	36	79	29.27	30.26	8.94	2	0	24
03			38	31	35	80	29.27	30.27	8.74	2	1	26
04			37	31	35	81	29.27	30.27	8.44	1	1	26
05			36	31	34	82	29.26	30.27	7.69	1	1	10
06			36	31	34	83	29.27	30.27	8.02	2	1	11
07			35	31	33	84	29.28	30.29	7.82	1	0	25
08			35	30	33	84	29.30	30.31	7.35	1	1	26
09			37	32	35	82	29.31	30.31	7.52	2	1	26
10			41	33	38	75	29.32	30.33	8.42	3	1	26
11			45	33	40	65	29.32	30.32	9.00	3	2	09
12			48	33	42	60	29.30	30.30	9.32	3	0	25
13			50	33	43	56	29.27	30.27	9.32	4	0	21
14			52	33	44	52	29.25	30.25	9.65	4	1	26
15			53	33	44	50	29.24	30.24	9.53	4	1	26
16			53	33	44	50	29.24	30.24	9.53	4	0	26
17			51	33	43	52	29.25	30.25	9.58	2	0	20
18			48	33	42	59	29.25	30.26	9.65	1	1	25
19			46	33	41	64	29.26	30.27	9.37	3	1	26
20			44	33	40	68	29.27	30.28	9.31	2	1	25
21			42	33	39	71	29.28	30.28	9.39	2	0	25
22			41	33	38	73	29.28	30.29	9.39	2	1	10
23			40	32	37	75	29.28	30.28	9.34	1	1	26
24			39	32	36	77	29.28	30.28	9.20	1	3	27

## OAK RIDGE, TN DECEMBER Temperatures



Long-Term (1951-2006) Mean: 39.6  
1971-2000 Normal: 39.4

## OAK RIDGE, TN DECEMBER Precipitation



Long-Term (1951-2006) Mean Monthly Total: 5.40

1971-2000 Normal: 5.42





**DECEMBER 2006  
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.*

*Thomas R. Karl*  
**DIRECTOR**

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