



# JANUARY 2011 LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

OAK RIDGE, TN  
OAK RIDGE (KOQT)  
Lat:36° 1' N Long: 84° 14' W Elev (Ground) 913 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		LST 11	LST 12	LST 13	LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
																			SPEED 20	DIR 21	SPEED 22	DIR 23		
01	57	46	52*	15	50	51	13	0	RA BR			2.56	29.05	30.03	0.5	22	1.2	14	26	9	26	01		
02	46	27	37	0	24	32	28	0	RA			T	29.21	30.25	0.9	33	1.6	17	33	10	32	02		
03	43	20	32	-5	17	26	33	0				0.00	29.31	30.33	0.3	08	0.6	8	14	6	01	03		
04	51	24	38	1	23	32	27	0				0.00	29.13	30.14	1.4	22	2.2	15	21	10	21	04		
05	39	24	32	-5	27	30	33	0	RA SN FG BR UP			0.21	29.00	30.00	0.2	07	0.3	6	04	5	06	05		
06	43	32	38	2	30	34	27	0	SN BR UP			T	28.79	29.79	1.9	22	2.7	15	26	10	21	06		
07	40	34	37	1	31	34	28	0	RA SN BR UP			0.11	28.58	29.56	1.7	24	3.4	20	29	10	29	07		
08	35	16	26	-10	16	24	39	0	SN FZFG BR			0.04	28.75	29.83	4.4	28	6.8	26	27	17*	30	08		
09	31	13	22*	-14	9	18	43	0				0.00	29.25	30.33	4.2	04	4.9	20	06	14	06	09		
10	32	24	28	-8	24	27	37	0	SN FZFG BR			0.18	29.22	30.26	3.9	05	4.5	17	04	12	06	10		
11	35	26	31	-5	27	30	34	0	RA SN BR UP			0.06	29.16	30.20	4.4	24	6.0	28*	29	15	26	11		
12	30	21	26	-10	15	22	39	0	SN BR			T	29.34	30.42	2.6	26	4.7	23	27	14	26	12		
13	30	19	25	-11	14	20	40	0	SN HZ			T	29.52	30.58	0.3	34	1.1	13	08	8	08	13		
14	37	13*	25	-11	15	22	40	0	BR			0.00	29.43	30.48	0.5	20	0.5	8	19	6	18	14		
15	47	23	35	-1	19	29	30	0				0.00	29.26	30.27	1.7	23	2.7	16	23	10	23	15		
16	49	29	39	3	26	33	26	0				0.00	29.15	30.17	0.7	21	1.0	8	21	6	20	16		
17	47	29	38	2	32	36	27	0	BR HZ			0.00	29.03	30.02	0.5	08	0.6	7	06	6	07	17		
18	42	35	39	3	37	39	26	0	RA BR HZ			0.27	28.88	29.88	0.3	24	0.5	8	22	6	22	18		
19	45	36	41	5	34	37	24	0	RA BR			T	29.00	30.03	2.7	25	4.1	20	26	12	28	19		
20	45	31	38	1	29	33	27	0	RA SN			T	29.03	30.03	2.1	26	3.5	24	29	14	29	20		
21	36	23	30	-7	9	23	35	0				0.00	29.05	30.07	1.2	02	3.6	14	36	9	36	21		
22	41	22	32	-5	8	23	33	0				0.00	29.00	30.03	0.6	31	1.5	15	27	9	28	22		
23	42	22	32	-5	20	27	33	0				0.00	29.16	30.21	0.3	11	0.7	9	06	7	07	23		
24	54	30	42	5	25	35	23	0	SN			T	29.21	30.23	1.7	23	2.2	20	19	13	19	24		
25	47	36	42	5	34	38	23	0	RA BR			0.11	29.10	30.05	1.7	05	2.6	15	06	12	06	25		
26	43	29	36	-1	33	36	29	0	RA SN BR UP HZ			0.45	28.87	29.91	3.4	25	4.0	16	26	12	26	26		
27	44	29	37	0	25	31	28	0				0.00	29.06	30.07	2.1	21	3.0	13	19	9	18	27		
28	51	30	41	4	27	35	24	0				0.00	28.93	29.95	1.0	24	2.4	15	25	10	26	28		
29	64	26	45	8	30	37	20	0				0.00	29.03	30.03	3.0	24	3.2	17	26	12	26	29		
30	68*	31	50	12	37	43	15	0				0.00	29.08	30.08	1.0	23	1.9	16	26	12	19	30		
31	58	43	51	13	42	47	14	0	RA			T	29.15	30.13	1.1	22	1.5	16	22	9	23	31		
44.3		27.2	35.8	Σ	25.5	31.7	29.0	0.0	< MONTHLY AVERAGES   TOTALS >				3.99	29.09	30.10	0.8	25	2.6	< MONTHLY AVERAGES					
-1.6	0.0	-0.8	<-----DEPARTURE FROM NORMAL----->						-1.14	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
<b>DEGREE DAYS</b>									GREATEST 24-HR PRECIPITATION : 2.56 DATE : 01				SEA LEVEL PRESSURE				DATE TIME							
MONTHLY									GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.68 13 1104							
TOTAL DEPARTURE									GREATEST SNOW DEPTH :				MINIMUM :				29.42 07 1453							
SEASON TO DATE									NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 25				PRECIPITATION >= 0.01 INCH: 9			
HEATING : 898 16 2485 38									THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 4				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 7			
COOLING : 0 0 0 0													HEAVY FOG : 0				SNOWFALL >= 1.0 INCH :							

**JANUARY 2011**  
**OAK RIDGE, TN**

# HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)  
JANUARY 2011

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	0.05	T	0.13	0.23	0.22	0.31	0.43	0.49	0.35	0.16	T	0.03	01	T	0.03	0.07	0.02	0.02							01	2.56	2.56	
02	T												02												02	T	T	
03													03												03	0.00	0.00	
04													04												04	0.00	0.00	
05													05			0.02	0.04	0.09	0.03	T	0.01			T	T	0.02	0.21	0.21
06	T	T	T										06												06	T	T	
07				T	T								07	0.02	0.01	0.03	0.03	T	T	0.01				T	T	0.11	0.11	
08	T			T	0.02	T	T	T	0.02				08												08	0.04	0.04	
09													09												09	0.00	0.00	
10			0.03	0.02	0.04	0.03	0.02	T	0.01				10		0.01	0.01	T			0.01	T			10	0.18	0.18		
11						T	0.01	T	T	T	0.01	T	11		0.01	T	0.01	0.01	T	T	T	T	T	11	0.06	0.06		
12	T	T	T	T	T		T	T	T	T	T		12											12	T	T		
13													13											13	T	T		
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										T	0.01	0.02	18	0.07	0.06	0.04	0.02	0.01	0.02	0.01			T	T	0.01	0.27	0.27	
19	T	T											19											19	T	T		
20													20										T	T	T	T	T	
21													21											21	0.00	0.00		
22													22											22	0.00	0.00		
23													23											23	0.00	0.00		
24			T										24											24	T	T		
25								T					25	T	0.01			T	0.02	0.01	0.01	T	0.03	T	0.02	0.11	0.11	
26	0.08	0.03	0.09	0.07	0.02	0.04	0.10	0.02	T				26	T	T									26	0.45	0.45		
27													27											27	0.00	0.00		
28													28											28	0.00	0.00		
29													29											29	0.00	0.00		
30													30											30	0.00	0.00		
31													31		T									31	T	T		

\* 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)												
Ending Date												
Ending Time (Hr/Min)												

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 JANUARY 2011

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							0.75	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							0.50	10.00	
06							1.75	10.00	
07							5.00	10.00	
08							0.50	10.00	
09							10.00	10.00	
10							0.50	10.00	
11							1.00	10.00	
12							3.00	10.00	
13							6.00	10.00	
14							0.75	10.00	
15							7.00	10.00	
16							9.00	10.00	
17							6.00	10.00	
18							1.00	10.00	
19							1.25	10.00	
20							7.00	10.00	
21							10.00	10.00	
22							10.00	10.00	
23							10.00	10.00	
24							9.00	10.00	
25							6.00	10.00	
26							2.50	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							10.00	10.00	
31							10.00	10.00	
MONTHLY AVGS							6.08	10.00	
<b>SUNSHINE (Minutes)</b>									
Total : 0					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				
0		11			16				

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2011

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		Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)		DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	
																												WEATHER
<b>SUNRISE: 0747</b>						<b>JAN 01</b>						<b>SUNSET: 1734</b>																
01	OVC	090			2.50	-RA BR	50	49	49	96	0 00	29.10	30.08	01	OVC	041			10.00			39	26	34	60	6 23	28.70	29.68
04	OVC	032			1.00	+RA BR	51	50	50	96	3 VR	29.05	30.02	04	OVC	075			9.00			36	30	34	79	5 VR	28.67	29.65
07														07	OVC	085			10.00			35	30	33	82	0 00	28.61	29.60
10	OVC	007			1.00	RA BR	53	52	52	96	0 00	29.05	30.02	10	OVC	055			10.00			36	31	34	82	5 VR	28.58	29.57
13	OVC	036			4.00	-RA BR	56	54	55	93	3 10	28.97	29.94	13	OVC	036			7.00	-RA		37	34	36	89	3 VR	28.47	29.46
16	OVC	012			2.00	-RA BR	56	54	55	93	8 26	29.00	29.97	16	OVC	036			6.00	-RA BR		38	36	37	93	0 00	28.45	29.44
19	OVC	029			10.00		50	47	48	90	0 00	29.07	30.05	19	OVC	044			10.00			37	32	35	82	6 VR	28.55	29.54
22	OVC	013			10.00	-RA	48	45	47	89	0 00	29.12	30.10	22	OVC	043			10.00			35	30	33	82	0 00	28.59	29.58
<b>SUNRISE: 0748</b>						<b>JAN 02</b>						<b>SUNSET: 1734</b>																
01	OVC	028			10.00		44	41	43	89	0 00	29.13	30.12	01	OVC	047			10.00			35	28	32	76	5 26	28.59	29.59
04	OVC	024			10.00		40	30	36	68	0 00	29.16	30.15	04	OVC	047			7.00	-SN		32	26	30	79	7 VR	28.60	29.59
07	OVC	022			10.00		36	28	33	73	0 00	29.18	30.19	07	OVC	031			8.00	-SN		32	26	30	79	7 VR	28.61	29.61
10	CLR	NC			10.00		36	28	33	73	0 00	29.23	30.23	10	BKN	065			9.00			30	17	26	58	9 27	28.73	29.73
13	CLR	NC			10.00		43	26	36	51	3 VR	29.24	30.24	13	BKN	041			10.00			27	12	22	53	11 28	28.79	29.80
16	CLR	NC			10.00		42	14	32	32	5 VR	29.28	30.28	16	OVC	044			10.00			25	9	20	51	8 26	28.91	29.93
19	CLR	NC			10.00		33	15	27	48	0 00	29.31	30.32	19	OVC	042			10.00			22	7	18	52	6 35	29.03	30.05
22	CLR	NC			10.00		29	18	25	63	0 00	29.33	30.36	22	OVC	038			10.00			19	4	15	52	7 34	29.10	30.14
<b>SUNRISE: 0748</b>						<b>JAN 03</b>						<b>SUNSET: 1735</b>																
01	CLR	NC			10.00		25	19	23	78	0 00	29.34	30.36	01	CLR	NC			10.00			16	6	14	64	0 00	29.13	30.18
04	CLR	NC			10.00		22	18	21	85	0 00	29.33	30.36	04	CLR	NC			10.00			14	7	12	74	0 00	29.20	30.26
07	CLR	NC			10.00		20	16	19	84	0 00	29.36	30.40	07	CLR	NC			10.00			14	6	12	70	0 00	29.26	30.32
10	CLR	NC			10.00		29	21	26	72	3 08	29.38	30.41	10	CLR	NC			10.00			20	9	17	62	6 06	29.34	30.40
13	CLR	NC			10.00		39	16	31	39	3 08	29.32	30.35	13	CLR	NC			10.00			26	9	21	48	7 36	29.31	30.36
16	CLR	NC			10.00		43	13	33	29	3 VR	29.25	30.27	16	CLR	NC			10.00			29	11	24	47	8 06	29.29	30.34
19	CLR	NC			10.00		32	19	28	59	0 00	29.24	30.28	19	CLR	NC			10.00			28	11	23	49	6 05	29.32	30.37
22	CLR	NC			10.00		27	19	24	72	0 00	29.22	30.26	22	CLR	NC			10.00			27	13	23	55	6 05	29.31	30.36
<b>SUNRISE: 0748</b>						<b>JAN 04</b>						<b>SUNSET: 1736</b>																
01	CLR	NC			10.00		25	20	23	81	0 00	29.19	30.22	01	OVC	090			10.00			27	12	23	53	7 06	29.27	30.31
04	BKN	085			10.00		30	20	27	66	0 00	29.17	30.18	04	OVC	034			2.50	-SN BR		24	21	23	88	0 00	29.28	30.32
07	SCT	100			10.00		31	21	28	66	0 00	29.16	30.18	07	OVC	026			1.50	-SN BR		24	21	23	88	7 04	29.25	30.29
10	OVC	055			10.00		35	24	31	64	5 20	29.16	30.19	10	OVC	065			8.00	-SN		27	22	25	81	7 05	29.27	30.31
13	FEW	050			10.00		43	24	36	47	6 26	29.12	30.13	13	OVC	045			10.00			30	24	28	78	6 05	29.19	30.23
16	CLR	NC			10.00		51	23	40	33	0 00	29.07	30.06	16	OVC	040			4.00	BR		30	26	29	85	6 04	29.18	30.22
19	CLR	NC			10.00		41	26	35	55	0 00	29.09	30.10	19	OVC	036			9.00			31	28	30	89	5 05	29.19	30.22
22	CLR	NC			10.00		33	26	30	75	0 00	29.10	30.13	22	OVC	022			10.00			32	29	31	89	0 00	29.18	30.21
<b>SUNRISE: 0748</b>						<b>JAN 05</b>						<b>SUNSET: 1737</b>																
01	CLR	NC			10.00		28	24	27	85	0 00	29.10	30.11	01	OVC	019			10.00			32	29	31	89	0 00	29.17	30.20
04	CLR	NC			10.00		26	23	25	88	0 00	29.08	30.08	04	OVC	015			6.00	BR		32	30	31	92	0 00	29.15	30.18
07	CLR	NC			10.00		26	23	25	88	0 00	29.07	30.09	07	OVC	005			2.50	BR		32	30	31	92	3 21	29.16	30.19
10	SCT	050			10.00		31	27	30	85	0 00	29.06	30.07	10	OVC	017			1.50	-SN BR		32	30	31	92	9 21	29.17	30.20
13	OVC	045			10.00		37	27	33	67	0 00	28.97	29.98	13	OVC	009			10.00			34	31	33	89	10 22	29.12	30.14
16	OVC	023			1.00	-SN BR	33	31	32	92	3 11	28.93	29.95	16	OVC	041			10.00			34	31	33	89	6 VR	29.13	30.15
19	OVC	031			3.00	BR	33	31	32	92	0 00	28.90	29.91	19	OVC	050			10.00			31	20	27	64	10 27	29.19	30.22
22	OVC	021			3.00	UP BR	33	31	32	92	0 00	28.86	29.88	22	OVC	055			10.00			29	16	25	58	7 VR	29.23	30.26
<b>SUNRISE: 0748</b>						<b>JAN 06</b>						<b>SUNSET: 1738</b>																
01	OVC	021			2.50	-SN BR	33	32	33	96	0 00	28.85	29.85	01	OVC	055			3.00	-SN		26	19	24	75	7 26	29.25	30.28
04	BKN	080			3.00	BR	33	32	33	96	0 00	28.85	29.87	04	OVC	042			7.00	-SN		25	16	22	69	6 VR	29.29	30.32
07	OVC	005			10.00		33	31	32	92	0 00	28.83	29.85	07	OVC	036			4.00	-SN		23	16	21	74	0 00	29.31	30.35
10	BKN	012			10.00		32	29	31	89	6 19	28.85	29.86	10	OVC	037			7.00	-SN		22	14	20	71	8 26	29.38	30.42
13	BKN	016			10.00		36	30	34	79	6 22	28.79	29.80	13	OVC	034			10.00			27	15	23	61	6 VR	29.38	30.42
16	BKN	050			10.00		41	30	36	65	5 21	28.74	29.74	16	OVC	034			10.00			29	17	25	61	8 26	29.41	30.45
19	BKN	095			10.00		40	27	35	60	6 23	28.73	29.72	19	OVC	031			10.00			24	13	21	63	6 27	29.47	30.51
22	OVC	049			10.00		40	27	35	60	5 VR	28.73	29.72	22	OVC	026			10.00			23	13	20	65	0 00	29.50	30.56

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2011

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			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	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: 1744																													
01	BKN	031			10.00		21	11	18	65	0	00	29.50	30.55	01	OVC	002			2.50	-RA BR	42	41	42	96	3	21	28.89	29.88
04	OVC	027			10.00		21	11	18	65	5	VR	29.52	30.57	04	OVC	002			2.00	BR	42	42	42	100	5	VR	28.90	29.89
07	OVC	025			10.00		21	12	18	68	0	00	29.55	30.60	07	OVC	024			10.00		42	36	39	79	6	26	28.94	29.93
10	OVC	027			6.00	HZ	22	14	20	71	0	00	29.62	30.67	10	OVC	024			10.00		41	34	38	76	6	24	29.04	30.03
13	OVC	025			10.00		26	15	23	63	0	00	29.55	30.61	13	BKN	036			10.00		43	32	38	65	7	VR	29.06	30.05
16	CLR	NC			10.00		29	16	25	58	5	VR	29.50	30.55	16	OVC	032			10.00		41	30	36	65	7	VR	29.09	30.09
19	CLR	NC			10.00		25	14	22	63	0	00	29.49	30.55	19	OVC	030			10.00		37	29	34	73	5	25	29.13	30.14
22	CLR	NC			10.00		20	14	18	77	0	00	29.48	30.54	22	OVC	026			10.00		36	29	33	76	0	00	29.15	30.16
SUNRISE: 0747      JAN 14      SUNSET: 1745																													
01	CLR	NC			8.00		19	15	18	84	0	00	29.47	30.51	01	OVC	026			10.00		36	29	33	76	3	04	29.13	30.14
04	CLR	NC			8.00		16	12	15	84	0	00	29.47	30.52	04	BKN	024			10.00		33	28	31	82	0	00	29.13	30.13
07	FEW	003			8.00		13	9	12	84	0	00	29.46	30.52	07	CLR	NC			8.00		31	28	30	89	0	00	29.12	30.13
10	CLR	NC			6.00	BR	20	17	19	88	0	00	29.49	30.55	10	CLR	NC			9.00		35	30	33	82	0	00	29.09	30.09
13	CLR	NC			10.00		31	18	27	59	0	00	29.44	30.48	13	CLR	NC			10.00		42	30	37	63	0	00	28.97	29.96
16	CLR	NC			10.00		36	15	29	42	5	19	29.39	30.43	16	FEW	029			10.00		44	33	39	65	9	24	28.90	29.89
19	CLR	NC			10.00		31	16	26	54	0	00	29.39	30.44	19	OVC	031			10.00		37	30	34	76	7	25	28.93	29.94
22	CLR	NC			8.00		27	19	24	72	0	00	29.38	30.42	22	OVC	075			10.00		34	28	32	79	3	22	28.98	29.98
SUNRISE: 0747      JAN 15      SUNSET: 1746																													
01	CLR	NC			9.00		27	18	24	69	0	00	29.34	30.37	01	OVC	043			10.00		32	20	28	61	5	29	29.02	30.03
04	CLR	NC			10.00		27	18	24	69	0	00	29.31	30.34	04	CLR	NC			10.00		26	19	24	75	0	00	29.05	30.06
07	SCT	045			8.00		25	19	23	78	0	00	29.31	30.35	07	CLR	NC			10.00		24	16	22	71	3	VR	29.07	30.09
10	CLR	NC			10.00		31	19	27	61	3	24	29.30	30.33	10	BKN	031			10.00		26	14	22	60	3	22	29.10	30.12
13	CLR	NC			10.00		42	15	33	33	7	25	29.23	30.25	13	CLR	NC			10.00		33	4	25	29	5	01	29.07	30.08
16	CLR	NC			10.00		46	22	37	39	5	VR	29.16	30.18	16	CLR	NC			10.00		33	1	24	25	0	00	29.03	30.04
19	CLR	NC			10.00		40	20	33	45	5	26	29.16	30.19	19	CLR	NC			10.00		29	2	22	31	5	05	29.05	30.07
22	CLR	NC			10.00		32	22	28	67	0	00	29.18	30.20	22	BKN	120			10.00		26	5	20	40	3	04	29.03	30.06
SUNRISE: 0746      JAN 16      SUNSET: 1747																													
01	BKN	090			10.00		34	23	30	64	3	22	29.18	30.19	01	CLR	NC			10.00		23	5	18	46	7	06	29.01	30.04
04	BKN	110			10.00		32	23	29	69	0	00	29.18	30.19	04	OVC	090			10.00		22	5	18	48	0	00	29.01	30.03
07	CLR	NC			10.00		31	23	28	72	0	00	29.18	30.19	07	OVC	080			10.00		23	5	18	46	0	00	28.99	30.01
10	OVC	100			10.00		34	25	31	70	0	00	29.22	30.24	10	CLR	NC			10.00		26	5	20	40	0	00	29.01	30.04
13	CLR	NC			10.00		46	29	39	52	3	20	29.14	30.14	13	CLR	NC			10.00		35	4	26	27	0	00	28.99	30.01
16	CLR	NC			10.00		48	29	40	48	0	00	29.13	30.13	16	FEW	065			10.00		40	9	30	28	0	00	28.97	29.99
19	CLR	NC			10.00		39	30	35	70	0	00	29.14	30.16	19	CLR	NC			10.00		34	13	27	42	3	25	29.03	30.06
22	CLR	NC			10.00		33	28	31	82	0	00	29.13	30.15	22	CLR	NC			10.00		27	16	24	63	0	00	29.05	30.07
SUNRISE: 0746      JAN 17      SUNSET: 1748																													
01	CLR	NC			9.00		31	27	30	85	0	00	29.13	30.13	01	CLR	NC			10.00		26	16	23	66	0	00	29.08	30.09
04	SCT	110			8.00		32	29	31	89	0	00	29.10	30.11	04	BKN	039			10.00		23	17	21	78	0	00	29.13	30.16
07	OVC	100			7.00		34	30	32	85	3	09	29.08	30.09	07	BKN	110			10.00		25	18	23	75	0	00	29.19	30.22
10	OVC	095			8.00		38	32	36	79	0	00	29.09	30.10	10	CLR	NC			10.00		32	19	28	59	3	06	29.20	30.24
13	OVC	120			10.00		45	32	39	60	0	00	29.01	30.01	13	CLR	NC			10.00		39	20	32	46	0	00	29.20	30.22
16	OVC	100			10.00		47	33	41	58	0	00	28.95	29.95	16	CLR	NC			10.00		40	20	33	45	3	VR	29.18	30.20
19	OVC	110			10.00		44	33	39	65	0	00	28.94	29.94	19	CLR	NC			10.00		35	21	30	57	0	00	29.21	30.24
22	OVC	095			10.00		40	34	37	79	0	00	28.94	29.94	22	CLR	NC			10.00		31	23	28	72	0	00	29.24	30.27
SUNRISE: 0746      JAN 18      SUNSET: 1749																													
01	OVC	035			10.00		37	33	35	86	0	00	28.91	29.91	01	OVC	080			10.00		32	24	29	72	0	00	29.24	30.26
04	OVC	031			10.00		37	33	35	86	0	00	28.89	29.88	04	OVC	110			10.00		31	27	30	85	0	00	29.24	30.25
07	OVC	035			10.00		38	34	36	86	0	00	28.89	29.89	07	OVC	100			10.00		30	26	29	85	0	00	29.24	30.26
10	OVC	055			6.00	HZ	42	37	40	83	0	00	28.91	29.91	10	OVC	100			10.00		35	27	32	73	0	00	29.27	30.29
13	OVC	011			1.75	-RA BR	41	39	40	93	0	00	28.88	29.87	13	CLR	NC			10.00		51	25	40	36	11	22	29.22	30.22
16	OVC	006			3.00	-RA BR	42	40	41	93	0	00	28.86	29.85	16	FEW	080			10.00		51	23	40	33	8	22	29.16	30.16
19	OVC	008			4.00	BR	42	40	41	93	0	00	28.86	29.86	19	OVC	090			10.00		48	24	38	39	0	00	29.18	30.19
22	OVC	002			1.50	BR	42	41	42	96	0	00	28.88	29.87	22	OVC	080			10.00		47	24	38	41	0	00	29.20	30.21

# OBSERVATIONS AT 3-HOURLY INTERVALS

# OAK RIDGE, TN

JANUARY 2011

KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<b>SUNRISE: 0742      JAN 25      SUNSET: 1756</b>														
01	CLR	NC				36	26	32	67	0	00	29.19	30.19	
04	OVC	055				38	29	34	70	0	00	29.18	30.18	
07	OVC	060				39	29	35	67	0	00	29.18	30.18	
10	OVC	044			-RA	41	34	38	76	0	00	29.17	30.17	
13	OVC	060			-RA	42	35	39	76	3	VR	29.12	30.12	
16	OVC	075				45	34	40	65	3	VR	28.98	29.98	
19	OVC	048			-RA BR	42	38	40	86	6	06	28.91	29.91	
22	OVC	039				42	39	41	89	3	03	28.86	29.85	
<b>SUNRISE: 0742      JAN 26      SUNSET: 1757</b>														
01	OVC	047			-RA BR	42	41	42	96	0	00	28.79	29.78	
04	OVC	041			-RA BR	42	41	42	96	0	00	28.76	29.74	
07	OVC	037			-RA	41	39	40	93	5	26	28.74	29.73	
10	OVC	055				37	33	35	86	6	27	28.81	29.81	
13	OVC	026			-SN BR	35	33	34	92	3	21	28.91	29.91	
16	OVC	024				37	31	35	79	10	26	28.99	29.98	
19	OVC	023				34	29	32	82	6	24	29.07	30.07	
22	OVC	023				32	25	29	75	6	VR	29.12	30.13	
<b>SUNRISE: 0741      JAN 27      SUNSET: 1758</b>														
01	OVC	025				29	24	27	82	5	27	29.12	30.14	
04	OVC	021				29	23	27	78	3	25	29.12	30.14	
07	OVC	023				29	22	27	75	0	00	29.13	30.16	
10	OVC	019				30	21	27	69	5	26	29.14	30.16	
13	CLR	NC				38	25	33	60	5	16	29.06	30.07	
16	CLR	NC				43	27	37	53	5	22	28.98	29.99	
19	CLR	NC				41	29	36	62	0	00	28.96	29.96	
22	CLR	NC				34	30	32	85	0	00	28.95	29.97	
<b>SUNRISE: 0741      JAN 28      SUNSET: 1759</b>														
01	OVC	085				36	29	33	76	3	22	28.91	29.91	
04	FEW	100				35	30	33	82	0	00	28.87	29.87	
07	FEW	100				34	30	32	85	0	00	28.88	29.88	
10	CLR	NC				42	31	37	65	6	VR	28.94	29.94	
13	SCT	038				49	31	41	50	9	21	28.94	29.93	
16	CLR	NC				50	24	39	36	5	VR	28.96	29.95	
19	CLR	NC				43	22	35	43	0	00	29.02	30.02	
22	CLR	NC				32	24	29	72	0	00	29.06	30.06	
<b>SUNRISE: 0740      JAN 29      SUNSET: 1800</b>														
01	BKN	100				29	24	27	82	0	00	29.03	30.03	
04	CLR	NC				29	24	27	82	0	00	29.04	30.04	
07	CLR	NC				28	23	26	82	3	23	29.04	30.05	
10	CLR	NC				41	28	36	60	3	VR	29.05	30.06	
13	CLR	NC				54	33	44	45	8	24	29.00	30.00	
16	CLR	NC				63	35	49	35	8	25	28.98	29.97	
19	CLR	NC				54	36	46	51	0	00	29.04	30.04	
22	CLR	NC				41	34	38	76	0	00	29.06	30.06	
<b>SUNRISE: 0739      JAN 30      SUNSET: 1801</b>														
01	CLR	NC				37	33	35	86	0	00	29.07	30.06	
04	CLR	NC				33	30	32	89	0	00	29.08	30.06	
07	CLR	NC				32	29	31	89	0	00	29.10	30.10	
10	CLR	NC				45	36	41	71	0	00	29.14	30.14	
13	CLR	NC				63	40	51	43	5	26	29.10	30.07	
16	BKN	060				66	42	53	42	6	VR	29.06	30.03	
19	CLR	NC				58	43	50	58	0	00	29.10	30.08	
22	SCT	055				49	42	46	77	0	00	29.13	30.11	

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
<b>SUNRISE: 0738      JAN 31      SUNSET: 1802</b>														
01	CLR	NC				45	40	43	83	0	00	29.13	30.11	
04	OVC	032				48	39	44	71	0	00	29.14	30.12	
07	OVC	060				47	38	43	71	0	00	29.17	30.15	
10	OVC	034				49	39	44	69	0	00	29.20	30.19	
13	OVC	022				56	41	49	57	0	00	29.16	30.15	
16	OVC	023				58	45	51	62	0	00	29.12	30.09	
19	OVC	043				56	47	51	72	0	00	29.13	30.11	
22	OVC	055				55	44	49	67	8	22	29.14	30.12	

## 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

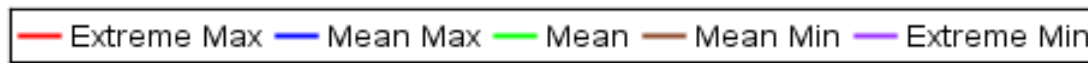
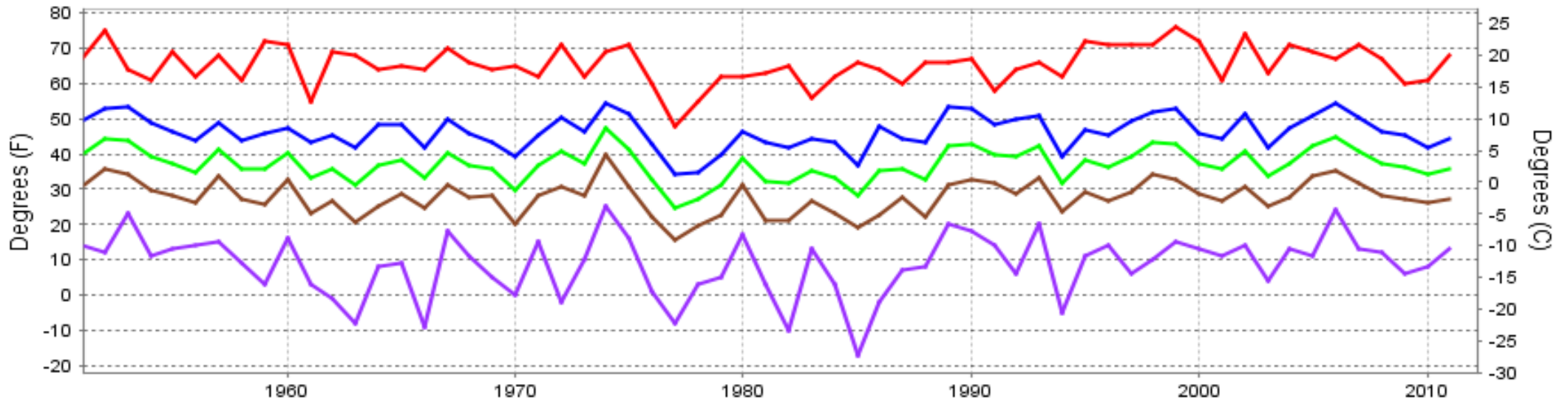
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

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

## SUMMARY BY HOUR

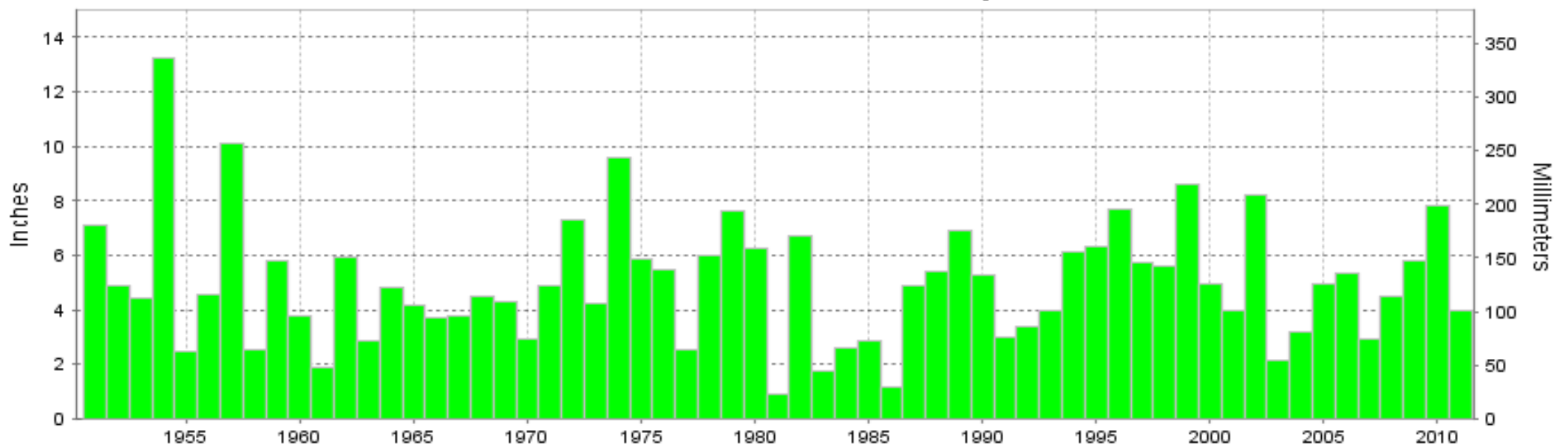
HOUR (LST)	AVERAGES								RESULTANT WIND (MPH)			
	CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG)		VISIBILITY (Miles)	WIND SPEED (MPH)	SPEED	DIRECTION
							STATION	SEA LEVEL				
01			32	25	30	77	29.10	30.11	8.76	2	2	24
02			32	25	30	78	29.09	30.10	8.66	1	1	22
03			31	25	29	78	29.10	30.11	8.29	1	2	23
04			31	25	29	80	29.10	30.11	8.31	1	xx	xx
05			31	25	29	81	29.09	30.10	8.21	1	2	23
06			31	25	29	80	29.09	30.11	8.65	2	1	22
07			30	24	28	79	29.10	30.12	8.80	1	2	22
08			30	25	28	80	29.11	30.13	8.66	2	2	25
09			32	25	29	78	29.12	30.14	8.35	1	2	24
10			34	26	31	73	29.13	30.14	8.76	3	2	25
11			37	26	33	67	29.13	30.14	9.48	4	2	25
12			39	26	34	62	29.11	30.13	9.50	4	2	25
13			40	26	35	59	29.09	30.10	9.31	4	3	26
14			42	26	36	57	29.07	30.08	9.13	4	3	26
15			42	26	36	55	29.06	30.07	8.86	5	4	26
16			42	26	36	56	29.07	30.07	8.90	4	3	26
17			41	25	35	56	29.07	30.08	9.05	5	3	26
18			40	25	34	59	29.08	30.09	9.35	3	2	25
19			38	26	33	63	29.09	30.11	9.35	3	2	25
20			36	26	32	67	29.10	30.11	9.34	2	1	24
21			35	26	32	71	29.10	30.12	9.42	2	1	23
22			34	26	31	72	29.10	30.12	9.44	2	1	19
23			33	26	31	74	29.10	30.12	9.29	2	2	24
24			33	25	30	75	29.10	30.11	8.77	2	1	22

## OAK RIDGE, TN JANUARY Temperatures



Long-Term (1951-2011) Mean: 37.1  
 1971-2000 Normal: 36.6

## OAK RIDGE, TN JANUARY Precipitation



Long-Term (1951-2011) Mean Monthly Total: 4.99

1971-2000 Normal: 5.13



JANUARY 2011  
OAK RIDGE, TN

## LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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