



DECEMBER 2012 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		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			
2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24		
01	65	40	53	10	42	46	12	0	BR			0.00	29.33	30.33	0.2	19	0.7	15	20	12	19	01		
02	69	43	56	13	46	51	9	0				0.00	29.31	30.28	2.1	22	3.1	21	21	13	21	02		
03	72*	47	60	18	47	53	5	0				0.00	29.28	30.25	1.8	22	2.2	17	21	13	18	03		
04	70	47	59	17	49	54	6	0	RA			0.01	29.25	30.21	1.8	23	3.0	24	21	15	21	04		
05	63	41	52	10	39	47	13	0	RA			0.01	29.24	30.22	2.3	05	3.5	15	06	10	06	05		
06	52	40	46	5	40	44	19	0	RA			0.03	29.18	30.17	0.1	07	0.1	6	08	5	06	06		
07	62	45	54	13	46	49	11	0				0.00	29.08	30.05	0.7	27	0.7	10	29	6	29	07		
08	69	54	62	21	51	55	3	0	RA			T	29.02	29.98	1.5	24	2.3	14	22	9	25	08		
09	68	59	64*	23	55	58	1	0	RA			T	29.03	29.97	1.4	22	2.3	22	21	14	21	09		
10	63	43	53	13	51	53	12	0	RA BR			1.39	28.82	29.78	1.3	20	2.8	18	29	12	29	10		
11	43	32	38	-2	28	33	27	0				0.00	29.09	30.13	1.2	04	2.4	10	05	7	05	11		
12	49	31	40	0	24	33	25	0				0.00	29.29	30.32	2.6	05	3.1	18	06	13	07	12		
13	54	28	41	1	29	35	24	0				0.00	29.35	30.37			0.3	9	06	6	05	13		
14	56	28	42	2	32	36	23	0	FG+ FZFG BR			0.00	29.33	30.35			0.0	6	08	3	13	14		
15	60	38	49	10	39	44	16	0	RA BR			0.21	29.15	30.13	0.8	24	1.2	16	23	10	21	15		
16	57	50	54	15	51	52	11	0	RA BR			0.91	28.97	29.93	0.9	22	2.0	16	20	10	16	16		
17	57	45	51	12	50	51	14	0	RA BR			0.45	28.78	29.74	0.9	23	1.3	25	28	17	29	17		
18	54	39	47	8	36	42	18	0				0.00	28.89	29.90	2.8	23	4.0	21	26	12	21	18		
19	62	35	49	10	37	42	16	0				0.00	29.05	30.06	0.4	19	1.4	13	22	8	23	19		
20	53	39	46	8	38	42	19	0	RA BR			1.37	28.84	29.80	4.4	24	5.1	38*	26	21*	26	20		
21	43	33	38	0	19	30	27	0	RA SN			T	28.95	30.00	8.1	25	9.2	30	25	17	26	21		
22	45	25	35	-3	16	28	30	0				0.00	29.25	30.29	1.0	21	1.6	13	26	9	26	22		
23	45	25*	35	-3	28	33	30	0	RA BR			0.17	29.14	30.15	0.6	26	1.1	12	25	8	26	23		
24	48	42	45	7	43	44	20	0	RA FG BR			0.83	28.95	29.94	1.0	22	1.9	12	10	9	08	24		
25	50	44	47	9	43	45	18	0	RA BR			0.37	29.02	29.99	3.0	06	4.2	17	04	10	05	25		
26	50	34	42	5	37	40	23	0	RA BR UP			0.65	28.66	29.67	3.8	25	8.2	29	23	17	22	26		
27	37	33	35	-2	26	31	30	0				0.00	29.11	30.15	1.0	33	3.0	16	27	12	26	27		
28	42	33	38	1	30	34	27	0	RA BR			0.08	29.08	30.06	1.9	06	2.0	12	07	9	06	28		
29	41	33	37	0	31	35	28	0	RA SN BR			0.10	28.94	30.00	3.5	26	6.3	25	27	16	27	29		
30	40	27	34*	-3	20	28	31	0				0.00	29.41	30.46	1.3	36	2.2	20	31	12	28	30		
31	43	26	35	-2	26	32	30	0	RA			T	29.33	30.33	1.1	27	1.3	12	26	8	27	31		
54.3		38.0	46.2	☼	37.1	41.9	18.6	0.0	< MONTHLY AVERAGES TOTALS >				6.58	29.10	30.10	0.9	25	2.7	< MONTHLY AVERAGES					
4.7		6.9	5.9		-----DEPARTURE FROM NORMAL ----->				1.72	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3														
DEGREE DAYS								GREATEST 24-HR PRECIPITATION : 1.39 DATE : 10				SEA LEVEL PRESSURE				DATE TIME								
MONTHLY								GREATEST 24-HR SNOWFALL :				MAXIMUM :				30.56 30 1053								
TOTAL DEPARTURE								GREATEST SNOW DEPTH :				MINIMUM :				29.44 26 0653								
SEASON TO DATE								NUMBER OF -> DAYS WITH				MAXIMUM TEMP >= 90 : 0				MINIMUM TEMP <= 32 : 8				PRECIPITATION >= 0.01 INCH: 14				
TOTAL DEPARTURE								THUNDERSTORMS : 0				MAXIMUM TEMP <= 32 : 0				MINIMUM TEMP <= 0 : 0				PRECIPITATION >= 0.10 INCH: 10				
HEATING : 578 -186 1358 -109												HEAVY FOG : 1				SNOWFALL >= 1.0 INCH :								
COOLING : 0 0 1738 256																								

DECEMBER 2012
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
DECEMBER 2012

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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03												03	0.00	0.00	
04													04			T	0.01	T							04	0.01	0.01	
05		T	T	0.01		T	T						05												05	0.01	0.01	
06							T	0.02				T	06	T	T	T	0.01	T							06	0.03	0.03	
07													07												07	0.00	0.00	
08							T						08												08	T	T	
09								T					09												09	T	T	
10				0.02	0.13	0.31	0.34	0.09	0.10	0.09	0.01	10	0.05	0.04	0.01	0.08	0.02	T	0.01		T			10	1.39	1.39		
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15											T	15							T		0.01	0.09	0.11	15	0.21	0.21		
16	0.04	T		0.01	0.30	0.17	0.11	0.08	0.04	0.03	0.03	0.05	16	0.01	T	T		T	T	0.01	0.03			16	0.91	0.91		
17							0.01	T	T		0.04	0.05	17	0.06	0.03	0.04	0.03	T				0.19		17	0.45	0.45		
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20							0.07	0.11	0.22	0.13	0.07	0.19	20	0.19	0.17	0.21	0.01						T	20	1.37	1.37		
21	T	T		T	T	T	T						21												21	T	T	
22													22												22	0.00	0.00	
23													23			T	T	0.01	0.01	0.06	T			23	0.17	0.17		
24	0.08	0.05	0.06	0.03	0.04	0.04	0.17	0.05	0.18	0.11	0.01	T	24		0.01									24	0.83	0.83		
25													25								T	0.03	0.14	0.20	25	0.37	0.37	
26	0.03	0.07	0.15	0.05	0.11		T	0.23	T	T	T		26	T	0.01	T	T	T		T				26	0.65	0.65		
27													27												27	0.00	0.00	
28													28				T		0.01	0.01		T	0.06	T	28	0.08	0.08	
29			0.04	0.04	0.01		T	T		T			29		T	T	T	0.01	T			T		29	0.10	0.10		
30													30												30	0.00	0.00	
31													31								T	T	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)	0.20	0.23	0.26	0.27	0.34	0.39	0.40	0.44	0.46	0.65	0.78	0.82
Ending Date	10	10	10	10	10	10	10	10	10	10	10	10
Ending Time (Hr/Min)	0508	0508	0516	0516	0701	0516	0516	0543	0642	0701	0701	0730

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 1981-2010

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 2012

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							3.00	10.00	
02							6.00	10.00	
03							10.00	10.00	
04							9.00	10.00	
05							10.00	10.00	
06							9.00	10.00	
07							10.00	10.00	
08							10.00	10.00	
09							7.00	10.00	
10							1.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							0.00	10.00	
15							3.00	10.00	
16							1.50	10.00	
17							1.50	10.00	
18							7.00	10.00	
19							10.00	10.00	
20							1.25	10.00	
21							9.00	10.00	
22							10.00	10.00	
23							4.00	10.00	
24							0.50	10.00	
25							0.50	10.00	
26							4.00	10.00	
27							10.00	10.00	
28							5.00	10.00	
29							4.00	10.00	
30							10.00	10.00	
31							8.00	10.00	
MONTHLY AVGS							6.27	10.00	
SUNSHINE (Minutes)									
Total : 0					Possible :				
Percent Possible :									
NUMBER OF DAYS WITH :									
SKY CONDITION									
Clear		Partly CLDY			Cloudy			Missing	
MINIMUM VISIBILITY (MILES)									
<= .25		<= 3.0			>= 7.0				
1		9			17				

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2012 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)	DRY BULB	DEW POINT
SUNRISE: 0729 DEC 01						SUNSET: 1723						SUNRISE: 0734 DEC 07						SUNSET: 1723											
01	OVC	042			8.00	BR	44	40	42	86	0	00	29.32	30.31	01	OVC	044			10.00		47	44	46	89	0	00	29.13	30.11
04	BKN	044			8.00		41	38	40	89	0	00	29.33	30.32	04	BKN	100			10.00		46	42	44	86	0	00	29.13	30.11
07	OVC	044			5.00		41	39	40	93	0	00	29.38	30.38	07	OVC	040			10.00		46	42	44	86	0	00	29.13	30.11
10	CLR	NC			10.00		48	42	45	80	0	00	29.41	30.41	10	OVC	025			10.00		50	44	47	80	0	00	29.13	30.11
13	CLR	NC			10.00		62	44	53	52	3	VR	29.34	30.32	13	OVC	065			10.00		57	46	51	67	3	24	29.06	30.04
16	CLR	NC			10.00		64	46	54	52	5	VR	29.30	30.28	16	CLR	NC			10.00		61	48	54	63	3	28	29.00	29.97
19	CLR	NC			10.00		52	45	48	77	0	00	29.30	30.30	19	OVC	080			10.00		55	49	52	80	0	00	29.01	29.98
22	CLR	NC			9.00		47	42	45	83	0	00	29.31	30.31	22	OVC	031			10.00		56	49	52	78	0	00	29.03	30.00
SUNRISE: 0730 DEC 02						SUNSET: 1723						SUNRISE: 0735 DEC 08						SUNSET: 1723											
01	CLR	NC			6.00	BR	45	41	43	86	0	00	29.33	30.32	01	OVC	033			10.00		57	49	53	75	3	26	29.03	29.99
04	CLR	NC			10.00		45	42	44	89	0	00	29.33	30.31	04	OVC	032			10.00		55	49	52	80	0	00	29.01	29.97
07	CLR	NC			10.00		47	42	45	83	0	00	29.34	30.33	07	OVC	033			10.00		55	49	52	80	0	00	29.04	30.00
10	BKN	050			10.00		58	48	53	70	6	23	29.36	30.34	10	OVC	020			10.00		57	49	53	75	0	00	29.06	30.02
13	CLR	NC			10.00		66	50	57	57	6	VR	29.29	30.27	13	BKN	031			10.00		66	52	58	61	7	26	29.00	29.95
16	FEW	049			10.00		69	48	57	47	7	23	29.25	30.22	16	CLR	NC			10.00		67	52	58	59	6	25	28.98	29.93
19	CLR	NC			10.00		63	48	55	58	0	00	29.26	30.24	19	OVC	095			10.00		64	54	58	70	3	22	29.02	29.97
22	OVC	100			10.00		55	47	51	75	0	00	29.28	30.25	22	OVC	042			10.00		60	54	57	81	3	VR	29.05	30.00
SUNRISE: 0731 DEC 03						SUNSET: 1723						SUNRISE: 0736 DEC 09						SUNSET: 1723											
01	OVC	090			10.00		58	48	53	70	0	00	29.29	30.25	01	OVC	010			10.00		59	55	57	87	0	00	29.05	30.00
04	OVC	095			10.00		54	48	51	80	0	00	29.30	30.27	04	OVC	011			10.00		59	56	57	90	0	00	29.06	30.01
07	CLR	NC			10.00		47	44	46	89	0	00	29.31	30.29	07	OVC	021			10.00		59	56	57	90	0	00	29.07	30.02
10	SCT	090			10.00		60	48	54	65	5	VR	29.34	30.31	10	OVC	025			10.00		61	57	59	87	0	00	29.08	30.03
13	CLR	NC			10.00		69	49	58	49	7	22	29.28	30.24	13	OVC	025			10.00		65	57	60	75	7	20	29.03	29.98
16	CLR	NC			10.00		70	48	58	46	7	23	29.23	30.19	16	OVC	050			10.00		67	55	60	66	5	VR	29.00	29.95
19	CLR	NC			10.00		64	48	55	56	3	25	29.25	30.22	19	OVC	046			10.00		66	54	59	65	6	21	28.99	29.94
22	SCT	060			10.00		55	46	50	72	0	00	29.25	30.23	22	SCT	048			10.00		63	53	57	70	0	00	28.96	29.91
SUNRISE: 0731 DEC 04						SUNSET: 1723						SUNRISE: 0736 DEC 10						SUNSET: 1723											
01	CLR	NC			10.00		49	44	47	83	0	00	29.27	30.24	01	OVC	048			9.00		60	53	56	78	0	00	28.90	29.85
04	OVC	048			10.00		49	45	47	86	0	00	29.26	30.23	04	OVC	035			8.00	-RA	61	54	57	78	5	25	28.82	29.77
07	BKN	100			10.00		53	48	50	83	0	00	29.28	30.25	07	OVC	046			1.00	+RA BR	57	56	56	96	3	VR	28.83	29.78
10	OVC	100			10.00		62	49	55	63	6	VR	29.31	30.27	10	OVC	080			4.00	RA BR	58	55	56	90	5	18	28.84	29.79
13	OVC	080			10.00		65	50	57	59	5	26	29.25	30.23	13	OVC	025			4.00	-RA BR	57	55	56	93	5	23	28.77	29.72
16	OVC	090			10.00	-RA	68	48	57	49	5	VR	29.20	30.17	16	OVC	014			1.75	-RA BR	58	56	57	93	3	19	28.71	29.66
19	OVC	075			10.00		65	51	57	61	0	00	29.22	30.19	19	OVC	029			10.00	-RA	48	42	45	80	6	VR	28.79	29.76
22	OVC	100			10.00		64	51	57	63	6	21	29.21	30.17	22	OVC	025			10.00		44	37	41	77	0	00	28.92	29.90
SUNRISE: 0732 DEC 05						SUNSET: 1723						SUNRISE: 0737 DEC 11						SUNSET: 1723											
01	OVC	050			10.00		62	54	57	75	5	VR	29.20	30.16	01	OVC	035			10.00		42	32	38	68	0	00	28.97	29.95
04	OVC	070			10.00		59	57	58	93	0	00	29.19	30.16	04	OVC	029			10.00		38	32	36	79	3	33	29.01	29.99
07	OVC	090			10.00		53	42	48	66	6	04	29.26	30.23	07	OVC	021			10.00		35	29	33	79	3	02	29.07	30.06
10	OVC	070			10.00		53	34	44	49	6	05	29.32	30.29	10	OVC	019			10.00		36	28	33	73	0	00	29.15	30.16
13	FEW	080			10.00		59	35	48	41	6	07	29.28	30.25	13	OVC	023			10.00		38	28	34	67	3	07	29.13	30.14
16	CLR	NC			10.00		61	31	47	32	3	09	29.23	30.20	16	FEW	029			10.00		39	26	34	60	5	VR	29.15	30.16
19	CLR	NC			10.00		52	32	43	47	3	06	29.24	30.22	19	CLR	NC			10.00		34	25	31	70	0	00	29.21	30.22
22	CLR	NC			10.00		44	33	39	65	0	00	29.23	30.22	22	CLR	NC			10.00		33	26	30	75	0	00	29.22	30.24
SUNRISE: 0733 DEC 06						SUNSET: 1723						SUNRISE: 0738 DEC 12						SUNSET: 1723											
01	CLR	NC			10.00		41	34	38	76	3	07	29.20	30.18	01	CLR	NC			10.00		33	27	31	79	0	00	29.26	30.28
04	OVC	060			10.00		44	35	40	71	0	00	29.19	30.17	04	CLR	NC			10.00		33	26	30	75	0	00	29.27	30.29
07	OVC	055			10.00	-RA	46	36	42	68	0	00	29.20	30.19	07	CLR	NC			10.00		32	25	29	75	0	00	29.32	30.35
10	OVC	040			10.00		46	39	43	77	0	00	29.22	30.22	10	CLR	NC			10.00		36	23	31	59	8	04	29.35	30.37
13	OVC	060			10.00		50	39	45	66	0	00	29.18	30.17	13	CLR	NC			10.00		45	24	37	44	9	07	29.30	30.31
16	OVC	055			10.00		51	44	48	77	0	00	29.15	30.15	16	CLR	NC			10.00		47	20	37	34	5	01	29.29	30.30
19	OVC	070			10.00		50	45	48	83	0	00	29.15	30.14	19	CLR	NC			10.00		43	24	36	47	0	00	29.32	30.33
22	BKN	045			10.00		48	44	46	86	0	00	29.14	30.14	22	CLR	NC			10.00		38	24	33	57	3	03	29.32	30.34

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2012 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)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL				
																											Observation Time (LST)	Eff Cld Amt Oktas	VISIBILITY (MILES)	DRY BULB
SUNRISE: 0739 DEC 13						SUNSET: 1724						SUNRISE: 0742 DEC 19						SUNSET: 1726												
01	CLR	NC			10.00							01	CLR	NC			10.00						43	33	39	68	5	VR	29.01	29.99
04	CLR	NC			10.00							04	CLR	NC			10.00						38	33	36	82	0	00	29.05	30.03
07	CLR	NC			10.00							07	CLR	NC			10.00						36	32	34	85	0	00	29.08	30.08
10	CLR	NC			10.00							10	CLR	NC			10.00						47	35	42	63	0	00	29.13	30.12
13	CLR	NC			10.00							13	CLR	NC			10.00						58	38	48	48	5	VR	29.09	30.06
16	CLR	NC			10.00							16	CLR	NC			10.00						62	40	51	45	0	00	29.07	30.04
19	CLR	NC			10.00							19	CLR	NC			10.00						50	42	46	74	0	00	29.08	30.07
22	CLR	NC			10.00							22	CLR	NC			10.00						45	41	43	86	0	00	29.10	30.09
SUNRISE: 0739 DEC 14						SUNSET: 1724						SUNRISE: 0743 DEC 20						SUNSET: 1726												
01	CLR	NC			10.00							01	CLR	NC			10.00						42	39	41	89	0	00	29.05	30.02
04	BKN	002			4.00	BR						04	CLR	NC			9.00						40	37	39	89	0	00	29.00	29.97
07	VV	001			0.25	FZFG						07	OVC	085			4.00	-RA	BR				43	41	42	93	3	21	28.90	29.88
10	VV	002			0.25	FG						10	OVC	050			4.00	-RA	BR				47	45	46	93	0	00	28.85	29.83
13	CLR	NC			10.00							13	OVC	014			1.25	RA	BR				47	46	47	96	0	00	28.69	29.67
16	CLR	NC			10.00							16	OVC	060			10.00						52	49	50	90	8	21	28.63	29.60
19	CLR	NC			10.00							19	OVC	049			10.00						45	29	38	54	14	26	28.77	29.75
22	CLR	NC			10.00							22	OVC	039			10.00						40	25	34	55	11	26	28.83	29.82
SUNRISE: 0740 DEC 15						SUNSET: 1724						SUNRISE: 0744 DEC 21						SUNSET: 1726												
01	CLR	NC			10.00							01	OVC	033			10.00						39	26	34	60	13	24	28.83	29.82
04	CLR	NC			10.00							04	OVC	035			9.00	-SN					35	22	30	59	11	25	28.88	29.87
07	CLR	NC			10.00							07	OVC	037			10.00						34	20	29	57	14	27	28.90	29.90
10	BKN	100			10.00							10	OVC	033			10.00						33	20	28	59	7	25	28.99	29.99
13	OVC	100			10.00							13	BKN	055			10.00						39	19	32	45	8	26	29.00	30.00
16	FEW	085			10.00							16	BKN	060			10.00						42	18	33	38	11	26	29.01	30.01
19	OVC	070			10.00							19	CLR	NC			10.00						37	18	30	46	5	VR	29.10	30.11
22	OVC	050			9.00	-RA						22	CLR	NC			10.00						34	13	27	42	8	25	29.18	30.20
SUNRISE: 0741 DEC 16						SUNSET: 1724						SUNRISE: 0744 DEC 22						SUNSET: 1727												
01	OVC	008			10.00							01	CLR	NC			10.00						31	13	25	47	0	00	29.20	30.22
04	OVC	013			6.00	-RA BR						04	CLR	NC			10.00						29	13	24	51	0	00	29.24	30.26
07	OVC	008			5.00	-RA BR						07	CLR	NC			10.00						25	15	22	66	0	00	29.30	30.33
10	OVC	008			4.00	-RA BR						10	CLR	NC			10.00						31	16	26	54	3	22	29.35	30.37
13	OVC	012			7.00							13	CLR	NC			10.00						38	15	30	39	0	00	29.27	30.29
16	BKN	120			10.00							16	CLR	NC			10.00						45	15	34	30	5	20	29.24	30.26
19	OVC	016			10.00	-RA						19	CLR	NC			10.00						36	20	30	52	0	00	29.25	30.28
22	SCT	120			10.00							22	CLR	NC			10.00						30	21	27	69	0	00	29.23	30.26
SUNRISE: 0741 DEC 17						SUNSET: 1725						SUNRISE: 0745 DEC 23						SUNSET: 1727												
01	CLR	NC			10.00							01	CLR	NC			10.00						28	20	25	72	0	00	29.19	30.22
04	BKN	010			10.00							04	CLR	NC			10.00						26	20	24	78	0	00	29.20	30.22
07	OVC	010			10.00	-RA						07	CLR	NC			10.00						26	21	24	81	0	00	29.19	30.22
10	OVC	021			10.00							10	CLR	NC			10.00						33	23	29	67	0	00	29.19	30.21
13	OVC	005			1.50	-RA BR						13	OVC	055			10.00						45	24	37	44	5	26	29.12	30.13
16	OVC	009			7.00	-RA						16	OVC	070			10.00	-RA					44	29	38	56	0	00	29.09	30.09
19	OVC	013			10.00							19	OVC	025			5.00	-RA BR					40	37	39	89	0	00	29.09	30.10
22	BKN	090			10.00							22	OVC	043			8.00						43	40	42	89	0	00	29.08	30.08
SUNRISE: 0742 DEC 18						SUNSET: 1725						SUNRISE: 0745 DEC 24						SUNSET: 1728												
01	OVC	050			7.00							01	OVC	028			4.00	-RA BR					42	39	41	89	5	26	29.04	30.03
04	CLR	NC			10.00							04	OVC	014			7.00	-RA					42	40	41	93	3	25	28.99	29.98
07	OVC	045			10.00							07	OVC	019			3.00	-RA BR					42	40	41	93	0	00	28.93	29.92
10	BKN	040			10.00							10	OVC	022			5.00	-RA BR					43	41	42	93	8	06	28.86	29.85
13	CLR	NC			10.00							13	OVC	008			5.00	BR					46	43	45	89	0	00	28.89	29.88
16	CLR	NC			10.00							16	OVC	006			9.00						48	46	47	93	3	21	28.88	29.86
19	CLR	NC			10.00							19	OVC	002			1.25	BR					48	47	47	96	3	25	28.95	29.94
22	CLR	NC			10.00							22	VV	002			0.50	FG					46	45	46	96	5	20	29.01	29.99

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

DECEMBER 2012 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0745 DEC 25						SUNSET: 1729								
01	VV	002			0.50	FG	46	45	46	96	0	00	29.02	30.00
04	VV	002			1.00	BR	44	43	44	96	0	00	29.04	30.03
07	OVC	002			4.00	BR	44	43	44	96	6	05	29.07	30.05
10	OVC	006			8.00		45	42	44	89	6	VR	29.07	30.06
13	OVC	017			10.00		49	43	46	80	5	VR	29.05	30.03
16	OVC	017			10.00		49	43	46	80	7	05	29.00	29.98
19	BKN	015			10.00		46	42	44	86	6	04	28.95	29.93
22	OVC	070			6.00	-RA BR	46	43	45	89	7	VR	28.87	29.85
SUNRISE: 0746 DEC 26						SUNSET: 1729								
01	OVC	065			6.00	-RA BR	46	44	45	93	10	06	28.77	29.74
04	OVC	055			10.00	-RA	48	46	47	93	8	05	28.58	29.55
07	OVC	060			10.00	-RA	48	45	47	89	0	00	28.47	29.44
10	OVC	047			10.00		50	46	48	86	7	21	28.52	29.49
13	OVC	041			10.00		46	37	42	71	11	24	28.58	29.56
16	OVC	038			10.00		39	29	35	67	9	24	28.70	29.68
19	OVC	035			10.00		36	27	33	70	9	25	28.84	29.83
22	OVC	028			10.00		34	28	32	79	13	26	28.96	29.95
SUNRISE: 0746 DEC 27						SUNSET: 1730								
01	OVC	013			10.00		33	28	31	82	7	26	29.03	30.02
04	OVC	015			10.00		33	27	31	79	6	26	29.09	30.10
07	OVC	025			10.00		34	26	31	73	0	00	29.13	30.14
10	OVC	020			10.00		34	26	31	73	6	33	29.16	30.18
13	OVC	022			10.00		35	25	31	67	0	00	29.14	30.16
16	OVC	022			10.00		36	26	32	67	3	07	29.15	30.17
19	OVC	022			10.00		35	26	32	70	0	00	29.17	30.19
22	OVC	020			10.00		34	26	31	73	3	05	29.16	30.18
SUNRISE: 0746 DEC 28						SUNSET: 1731								
01	OVC	018			10.00		34	26	31	73	5	04	29.15	30.17
04	OVC	016			10.00		33	26	30	75	7	06	29.13	30.15
07	OVC	016			10.00		33	27	31	79	5	05	29.13	30.14
10	OVC	090			10.00		36	28	33	73	0	00	29.15	30.17
13	OVC	110			10.00		40	29	36	65	0	00	29.10	30.10
16	OVC	070			10.00		41	30	36	65	0	00	29.00	30.01
19	OVC	080			10.00	-RA	39	33	36	79	6	09	28.97	29.98
22	OVC	044			9.00	-RA	39	34	37	82	0	00	28.90	29.90
SUNRISE: 0747 DEC 29						SUNSET: 1731								
01	OVC	040			6.00	BR	39	37	38	93	0	00	28.78	29.78
04	OVC	015			6.00	-RA BR	40	38	39	93	6	VR	28.82	29.82
07	OVC	010			7.00	-RA	41	38	40	89	6	VR	28.83	29.83
10	OVC	035			10.00		39	32	36	76	8	28	28.94	29.94
13	OVC	020			10.00		37	30	34	76	7	VR	28.99	29.99
16	OVC	024			10.00		35	29	33	79	7	26	29.05	30.05
19	OVC	050			10.00		34	27	31	76	5	26	29.14	30.16
22	OVC	036			10.00		34	24	30	67	6	VR	29.22	30.23
SUNRISE: 0747 DEC 30						SUNSET: 1732								
01	OVC	032			10.00		32	21	28	64	3	30	29.29	30.31
04	OVC	028			10.00		31	20	27	64	0	00	29.37	30.40
07	CLR	NC			10.00		27	16	24	63	5	36	29.44	30.47
10	OVC	028			10.00		31	19	27	61	3	06	29.50	30.53
13	CLR	NC			10.00		36	19	30	50	3	VR	29.48	30.51
16	CLR	NC			10.00		39	19	32	45	0	00	29.46	30.48
19	CLR	NC			10.00		33	22	29	64	0	00	29.46	30.49
22	CLR	NC			10.00		28	23	26	82	0	00	29.43	30.47

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)			
			Observation Time (LST)	Eff Clد Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY (PCT)	SPEED (MPH)	DIRECTION Tens of Deg	STATION	SEA LEVEL
SUNRISE: 0747 DEC 31						SUNSET: 1733								
01	CLR	NC			9.00		27	23	26	85	0	00	29.40	30.43
04	CLR	NC			9.00		27	23	26	85	0	00	29.39	30.42
07	CLR	NC			9.00		28	24	27	85	0	00	29.41	30.44
10	CLR	NC			9.00		33	27	31	79	0	00	29.38	30.41
13	BKN	095			10.00		41	24	34	51	7	26	29.31	30.33
16	OVC	085			10.00		42	24	35	49	3	VR	29.26	30.28
19	FEW	060			10.00		40	27	35	60	0	00	29.21	30.24
22	OVC	110			10.00	-RA	39	30	35	70	0	00	29.18	30.20

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.

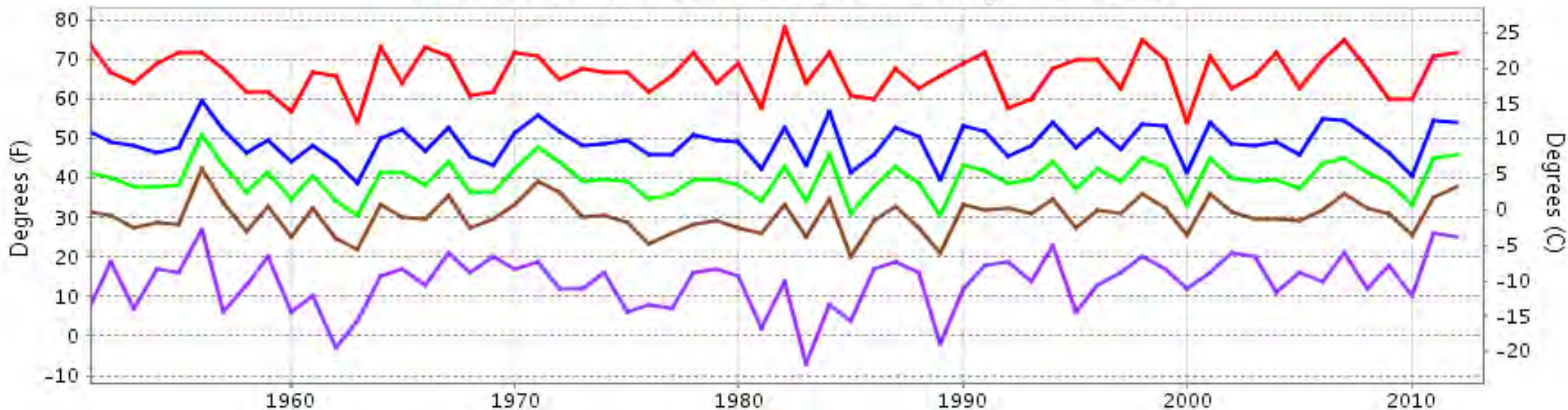
& = Original observation contained additional weather elements.

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			43	37	40	80	29.11	30.09	8.89	2	2	28
02			43	37	40	81	29.10	30.09	8.93	2	4	27
03			42	37	40	81	29.11	30.10	8.65	2	1	29
04			42	37	40	82	29.11	30.09	8.94	2	2	28
05			42	36	40	82	29.10	30.09	8.78	2	1	28
06			42	36	39	82	29.11	30.10	8.65	3	1	28
07			41	36	39	83	29.12	30.11	8.33	2	1	28
08			41	36	39	83	29.13	30.12	8.12	2	1	30
09			43	37	40	80	29.14	30.13	8.11	2	1	29
10			45	37	42	75	29.15	30.14	8.85	3	1	28
11			47	37	43	69	29.15	30.14	8.86	4	3	27
12			49	37	44	66	29.13	30.12	9.27	4	3	27
13			51	38	45	63	29.10	30.09	8.99	4	3	27
14			52	38	45	61	29.08	30.07	9.17	4	3	27
15			52	37	46	59	29.07	30.06	9.27	5	2	27
16			53	38	46	60	29.07	30.06	9.60	4	3	27
17			52	38	45	61	29.08	30.07	9.61	4	2	27
18			49	38	44	67	29.08	30.08	9.87	3	1	28
19			47	38	43	70	29.10	30.09	9.56	2	2	28
20			46	37	42	74	29.10	30.10	9.44	2	3	28
21			45	37	42	74	29.10	30.10	9.58	2	3	28
22			44	37	41	76	29.11	30.10	9.40	2	4	27
23			44	37	41	78	29.11	30.10	8.96	2	2	28
24			43	37	41	79	29.11	30.10	8.92	2	4	28

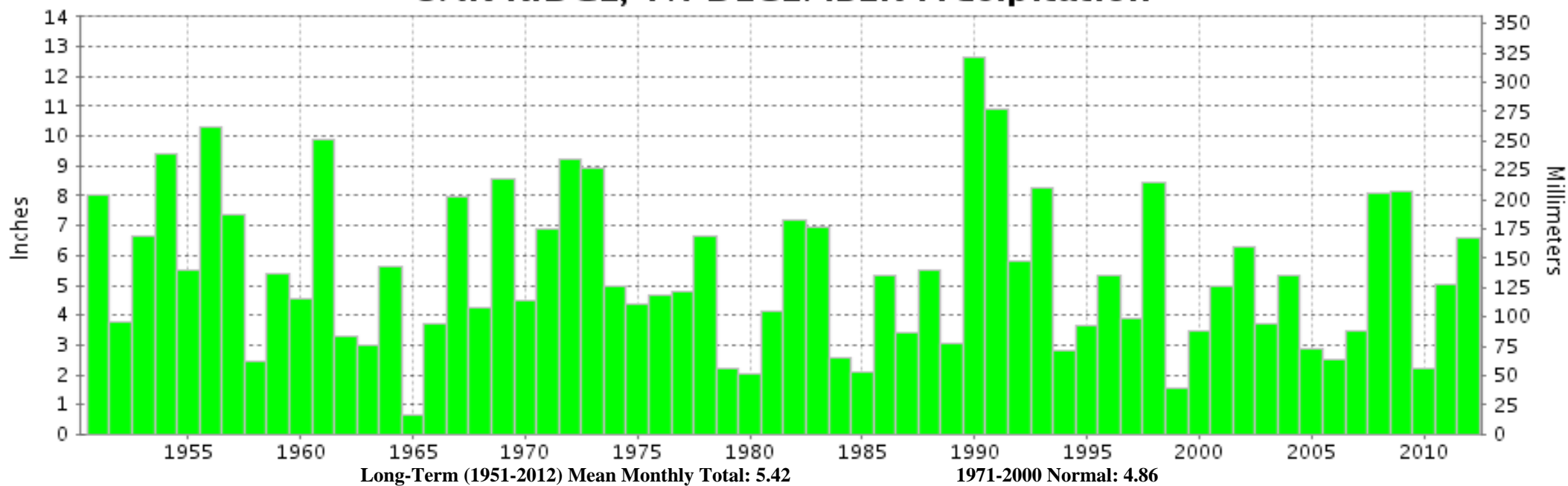
OAK RIDGE, TN DECEMBER Temperatures



— Extreme Max — Mean Max — Mean — Mean Min — Extreme Min

Long-Term (1951-2012) Mean: 39.8
1971-2000 Normal: 40.3

OAK RIDGE, TN DECEMBER Precipitation





**DECEMBER 2012
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.

A handwritten signature in black ink, appearing to read "Thomas R. Karl".

DIRECTOR

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We welcome your questions or comments, please contact us at:
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151 Patton Avenue
Asheville, NC 28801-5001