



NOVEMBER 2009 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			
01	61	41	51	-1	39	44	14	0				0.00	29.15	30.15	1.7	05	2.9	22	06	13	05	01		
02	66	37	52	0	39	45	13	0				0.00	29.20	30.19	0.3	14	1.2	12	07	9	08	02		
03	65	39	52	0	38	44	13	0	FG BR			0.00	29.26	30.27	1.7	06	1.8	14	08	9	08	03		
04	64	32	48	-3	36	43	17	0				0.00	29.28	30.28	0.3	24	1.1	14	25	9	26	04		
05	63	37	50	-1	35	42	15	0				0.00	29.34	30.35	0.5	21	1.1	10	17	8	26	05		
06	64	32	48	-3	33	40	17	0	FG+ FG BR			0.00	29.35	30.34	0.3	07	0.7	10	05	7	05	06		
07	70	38	54	4	37	46	11	0				0.00	29.26	30.24	3.1	23	4.2	16	21	12	20	07		
08	73	38	56	6	41	47	9	0				0.00	29.31	30.30	0.1	07	0.1	6	17	5	18	08		
09	65	42	54	4	44	49	11	0				0.00	29.36	30.35	0.1	07	0.1	7	10	5	09	09		
10	55	51	53	4	51	52	12	0	RA			1.28	29.25	30.22	3.4	04	3.7	18	05	10	04	10		
11	61	52	57	8	47	51	8	0	RA			0.05	29.08	30.06	4.0	03	6.4	23	01	14	36	11		
12	63	44	54	5	39	46	11	0				0.00	29.05	30.01	3.6	06	5.0	16	06	13	06	12		
13	68	40	54	6	43	47	11	0	HZ			0.00	28.98	29.95	0.7	05	1.5	14	05	10	04	13		
14	73*	40	57	9	45	49	8	0	FG+ FG BR			0.00	29.00	29.98	0.3	22	0.3	7	20	5	22	14		
15	72	41	57*	9	43	48	8	0	FG+ FG BR			0.00	29.05	30.04	0.2	13	0.2	7	03	5	35	15		
16	70	38	54	6	42	47	11	0	FG+ FG BR			0.00	29.05	30.02	0.5	25	0.8	12	22	8	26	16		
17	62	43	53	6	48	51	12	0	RA BR			0.02	28.98	29.96	0.3	08	0.3	9	26	6	25	17		
18	56	48	52	5	47	48	13	0	RA BR			0.53	29.07	30.06	1.5	21	2.1	13	22	8	19	18		
19	57	39	48	1	39	44	17	0				0.00	29.20	30.20	0.9	23	1.5	14	23	9	20	19		
20	61	35	48	2	39	43	17	0	FG+ BR			0.00	29.23	30.23	1.2	06	1.4	14	06	10	07	20		
21	63	39	51	5	40	45	14	0	BR			0.00	29.17	30.16	1.1	04	1.5	12	03	7	04	21		
22	51	40	46	0	43	45	19	0	RA BR			0.12	29.13	30.13	0.9	08	1.1	8	05	6	06	22		
23	57	48	53	8	47	50	12	0	BR			0.00	29.16	30.15	0.1	7	0.1	7	24	5	05	23		
24	57	46	52	7	48	50	13	0				0.00	29.15	30.12	0.8	23	1.2	8	22	6	21	24		
25	61	45	53	8	42	47	12	0	RA BR			T	29.05	30.02	3.4	22	3.8	22	20	15	20	25		
26	52	34	43*	-1	31	38	22	0				0.00	29.01	30.01	3.6	27	4.4	25	28	16*	26	26		
27	52	35	44	0	26	37	21	0				0.00	29.07	30.07	3.5	24	5.2	21	26	15	25	27		
28	60	29*	45	1	30	38	20	0				0.00	29.10	30.11	1.0	22	1.5	12	21	9	21	28		
29	61	35	48	4	37	43	17	0	RA			T	29.05	30.03	1.6	22	2.5	16	19	12	20	29		
30	56	33	45	2	43	45	20	0	RA FG+ BR			0.62	28.97	29.97	1.2	35	2.3	25*	35	15	36	30		

62.0			39.7			50.9			☼	40.4		45.5		13.9		0.0		< MONTHLY AVERAGES TOTALS >				2.62		29.15		30.13		0.1		30		2.0		< MONTHLY AVERAGES			
3.0			3.3			3.2				-----DEPARTURE FROM NORMAL -----												-2.24		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 1.33 DATE : 10-11										SEA LEVEL PRESSURE				DATE TIME													
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :					DATE :					MAXIMUM :				30.43 09 0904													
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :					DATE :					MINIMUM :				29.85 30 0853													
HEATING :		418		-100		664		-114		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 :		0		MINIMUM TEMP <= 32 :		3		PRECIPITATION >= 0.01 INCH :		6		PRECIPITATION >= 0.10 INCH :		4		SNOWFALL >= 1.0 INCH :									
COOLING :		0		-1		1424		123		THUNDERSTORMS :		0		HEAVY FOG :		6																					

NOVEMBER 2009
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
NOVEMBER 2009

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												04	0.00	0.00	
05													05												05	0.00	0.00	
06													06												06	0.00	0.00	
07													07												07	0.00	0.00	
08													08												08	0.00	0.00	
09													09												09	0.00	0.00	
10						T	T	T	0.02	0.07	0.07	0.06	10	0.07	0.07	0.11	0.08	0.11	0.11	0.13	0.08	0.06	0.08	0.08	0.08	10	1.28	1.28
11	0.03	0.02	T										11												11	0.05	0.05	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.02	0.02	
18	0.07	0.02	0.16	0.02		0.14	0.06	0.06	T			T	18	T	T									18	0.53	0.53		
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22	0.06	0.05	T	T	0.01							22	0.12	0.12	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25	T	T											25												25	T	T	
26													26												26	0.00	0.00	
27													27												27	0.00	0.00	
28													28												28	0.00	0.00	
29													29												29	T	T	
30				T	0.22	0.09	0.10	0.05	0.04	0.05	0.04	0.02	30	0.01			T	T							30	0.62	0.62	

* 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	0.14	0.16	0.19	0.21	0.24	0.27	0.30	0.32	0.37	0.42
Ending Date	30	30	30	30	30	30	30	30	30	30	30	30
Ending Time (Hr/Min)	0415	0417	0420	0425	0435	0450	0507	0521	0543	0602	0632	0703

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 NOVEMBER 2009

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							10.00	10.00	
02							10.00	10.00	
03							0.75	10.00	
04							10.00	10.00	
05							10.00	10.00	
06							0.25	10.00	
07							10.00	10.00	
08									
09									
10									
11									
12									
13							10.00	10.00	
14							0.25	10.00	
15							0.25	10.00	
16							0.25	10.00	
17							4.00	10.00	
18							1.75	10.00	
19							10.00	10.00	
20							0.00	10.00	
21							6.00	10.00	
22							5.00	10.00	
23							5.00	10.00	
24							9.00	10.00	
25							5.00	10.00	
26							10.00	10.00	
27							10.00	10.00	
28							10.00	10.00	
29							10.00	10.00	
30							0.25	10.00	
MONTHLY AVGS									
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		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

NOVEMBER 2009 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	WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL	DRY BULB	DEW POINT
SUNRISE: 0659						NOV 01						SUNSET: 1742						SUNRISE: 0705						NOV 07						SUNSET: 1736					
01	CLR	NC			10.00		42	41	42	96	0	00	29.12	30.10	01	CLR	NC			10.00		39	35	37	86	0	00	29.27	30.26						
04	CLR	NC			10.00		41	39	40	93	0	00	29.12	30.11	04	CLR	NC			10.00		43	34	39	71	6	22	29.28	30.26						
07	CLR	NC			10.00		44	37	41	77	3	02	29.16	30.15	07	CLR	NC			10.00		42	36	39	79	5	21	29.31	30.31						
10	CLR	NC			10.00		51	41	46	69	5	VR	29.17	30.16	10	CLR	NC			10.00		54	39	47	57	5	VR	29.32	30.31						
13	CLR	NC			10.00		58	40	49	51	6	VR	29.15	30.14	13	CLR	NC			10.00		64	40	52	42	9	25	29.24	30.22						
16	CLR	NC			10.00		60	37	49	43	6	VR	29.14	30.13	16	CLR	NC			10.00		70	37	53	30	6	22	29.19	30.17						
19	CLR	NC			10.00		51	38	45	61	0	00	29.18	30.17	19	CLR	NC			10.00		62	36	49	38	3	24	29.20	30.19						
22	CLR	NC			10.00		45	40	43	83	0	00	29.20	30.19	22	CLR	NC			10.00		57	37	47	47	3	24	29.24	30.21						
SUNRISE: 0700						NOV 02						SUNSET: 1741						SUNRISE: 0706						NOV 08						SUNSET: 1735					
01	CLR	NC			10.00		42	39	41	89	0	00	29.17	30.16	01	CLR	NC			10.00		46	39	43	77	0	00	29.27	30.25						
04	CLR	NC			10.00		39	37	38	93	0	00	29.18	30.17	04	CLR	NC			10.00		42	38	40	86	0	00	29.31	30.28						
07	CLR	NC			10.00		37	35	36	93	0	00	29.22	30.22	07	CLR	NC			10.00		40	36	38	86	0	00	29.34	30.33						
10	CLR	NC			10.00		51	42	47	71	3	VR	29.24	30.23	10	CLR	NC			10.00		56	42	49	60	0	00	29.38	30.36						
13	CLR	NC			10.00		63	39	51	41	3	VR	29.20	30.18	13	CLR	NC			10.00		68	42	54	39	0	00	29.32	30.30						
16	CLR	NC			10.00		65	38	51	37	3	17	29.17	30.15	16	CLR	NC			10.00		73	36	54	26	0	00	29.27	30.24						
19	CLR	NC			10.00		53	44	49	72	0	00	29.19	30.19	19	CLR	NC			10.00		57	44	50	62	0	00	29.31	30.29						
22	CLR	NC			10.00		46	42	44	86	0	00	29.21	30.20	22	CLR	NC			10.00		48	43	46	83	0	00	29.34	30.32						
SUNRISE: 0701						NOV 03						SUNSET: 1740						SUNRISE: 0707						NOV 09						SUNSET: 1734					
01	CLR	NC			10.00		43	41	42	93	0	00	29.22	30.21	01	CLR	NC			10.00		46	42	44	86	0	00	29.35	30.32						
04	FEW	001			9.00	BR	41	40	41	96	0	00	29.23	30.21	04	CLR	NC			10.00		45	43	44	93	0	00	29.36	30.33						
07	OVC	008			0.75	BR	39	39	39	100	0	00	29.28	30.27	07	CLR	NC			10.00		43	42	43	96	0	00	29.40	30.39						
10	SCT	100			10.00		53	46	49	77	0	00	29.32	30.31	10	CLR	NC			10.00		52	46	49	80	0	00	29.42	30.41						
13	FEW	110			10.00		63	41	52	45	3	08	29.29	30.27	13	CLR	NC			10.00		60	42	51	52	0	00	29.38	30.36						
16	CLR	NC			10.00		63	31	48	30	7	06	29.27	30.25	16	CLR	NC			10.00		64	44	54	48	0	00	29.34	30.32						
19	CLR	NC			10.00		51	33	43	50	0	00	29.29	30.29	19	CLR	NC			10.00		58	47	52	67	0	00	29.35	30.33						
22	CLR	NC			10.00		43	36	40	76	0	00	29.32	30.32	22	CLR	NC			10.00		54	48	51	80	0	00	29.35	30.33						
SUNRISE: 0702						NOV 04						SUNSET: 1739						SUNRISE: 0708						NOV 10						SUNSET: 1733					
01	CLR	NC			10.00		38	34	36	86	0	00	29.31	30.30	01	CLR	NC			10.00		53	46	49	77	0	00	29.31	30.28						
04	CLR	NC			10.00		35	33	34	92	0	00	29.31	30.30	04	BKN	100			10.00		52	47	49	83	0	00	29.30	30.27						
07	CLR	NC			10.00		33	31	32	92	0	00	29.34	30.34	07	OVC	070			10.00		52	48	50	86	0	00	29.29	30.27						
10	CLR	NC			10.00		47	36	42	66	0	00	29.34	30.34	10	OVC	070			10.00		52	51	51	96	0	00	29.35	30.33						
13	BKN	065			10.00		62	34	49	35	6	VR	29.27	30.26	13	OVC	020			10.00		53	52	52	96	7	06	29.23	30.22						
16	CLR	NC			10.00		64	35	50	34	3	VR	29.23	30.22	16	OVC	030			10.00		54	53	53	96	6	06	29.19	30.17						
19	CLR	NC			10.00		52	43	48	72	0	00	29.24	30.24	19	OVC	085			10.00		55	54	54	96	6	04	29.19	30.17						
22	CLR	NC			10.00		50	42	46	74	0	00	29.27	30.26	22	OVC	060			10.00		54	53	53	96	8	04	29.15	30.13						
SUNRISE: 0703						NOV 05						SUNSET: 1738						SUNRISE: 0709						NOV 11						SUNSET: 1733					
01	CLR	NC			10.00		43	40	42	89	0	00	29.28	30.27	01	OVC	095			10.00		54	53	53	96	8	04	29.09	30.06						
04	CLR	NC			10.00		40	38	39	93	0	00	29.32	30.31	04	OVC	022			10.00		55	52	53	90	5	05	29.07	30.03						
07	CLR	NC			10.00		38	36	37	93	3	11	29.37	30.37	07	CLR	NC			10.00		54	49	51	83	5	03	29.08	30.04						
10	CLR	NC			10.00		52	36	45	55	0	00	29.43	30.42	10	CLR	NC			10.00		57	49	53	75	6	VR	29.10	30.07						
13	CLR	NC			10.00		59	31	46	35	0	00	29.39	30.38	13	OVC	040			10.00		60	47	53	62	11	36	29.08	30.04						
16	CLR	NC			10.00		62	29	47	29	3	21	29.34	30.32	16	OVC	037			10.00		58	45	51	62	7	03	29.09	30.05						
19	CLR	NC			10.00		50	34	43	54	0	00	29.35	30.35	19	OVC	060			10.00		57	44	50	62	3	VR	29.10	30.08						
22	CLR	NC			10.00		41	35	38	79	0	00	29.38	30.37	22	OVC	055			10.00		54	42	48	64	5	04	29.12	30.09						
SUNRISE: 0704						NOV 06						SUNSET: 1737						SUNRISE: 0710						NOV 12						SUNSET: 1732					
01	CLR	NC			10.00		38	34	36	86	0	00	29.38	30.37	01	BKN	045			10.00		53	39	46	59	5	04	29.07	30.03						
04	CLR	NC			10.00		34	32	33	92	0	00	29.39	30.39	04	BKN	041			10.00		50	39	45	66	5	06	29.07	30.04						
07	VV	001			1.00	BR	32	32	32	100	0	00	29.40	30.41	07	CLR	NC			10.00		47	38	43	71	3	05	29.08	30.06						
10	CLR	NC			10.00		47	39	43	74	5	VR	29.41	30.42	10	CLR	NC			10.00		53	40	47	62	7	VR	29.09	30.06						
13	CLR	NC			10.00		59	33	47	38	3	07	29.35	30.34	13	CLR	NC			10.00		60	41	50	50	5	VR	29.03	29.99						
16	CLR	NC			10.00		63	27	47	26	0	00	29.28	30.27	16	CLR	NC			10.00		62	40	51	45	11	06	28.99	29.96						
19	CLR	NC			10.00		51	36	44	57	0	00	29.29	30.29	19	CLR	NC			10.00		55	38	47	53	5	36	29.02	30.00						
22	CLR	NC			10.00		41	35	38	79	0	00	29.28	30.28	22	CLR	NC			10.00		49	38	44	66	0	00	29.02	29.99						

OBSERVATIONS AT 3-HOURLY INTERVALS

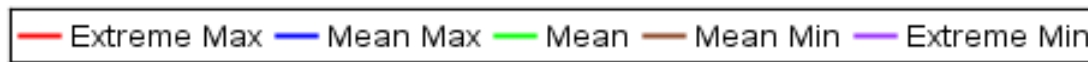
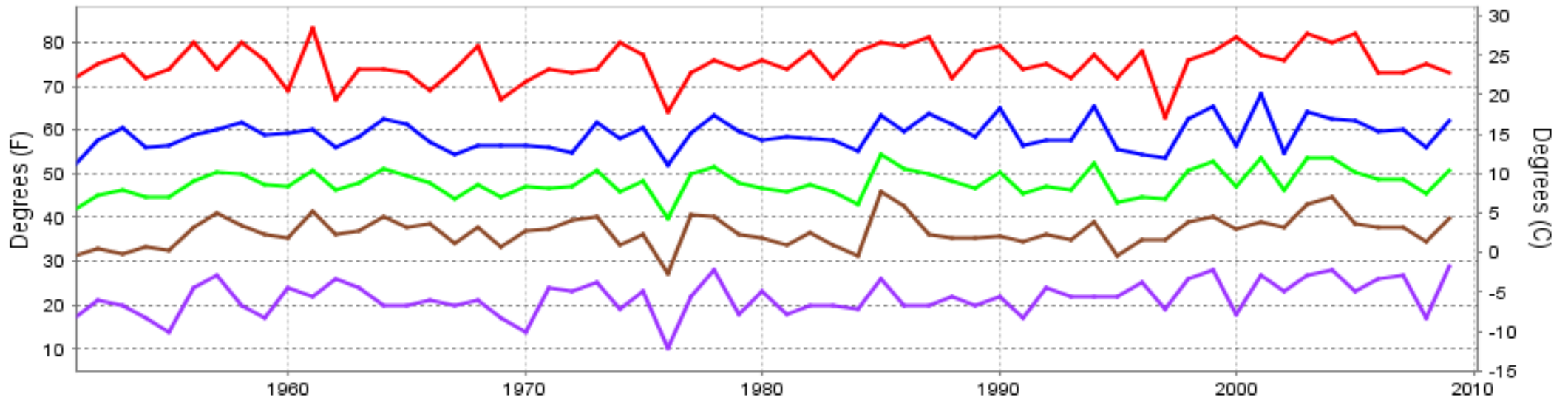
OAK RIDGE, TN

NOVEMBER 2009 KOQT

WBAN # 53868

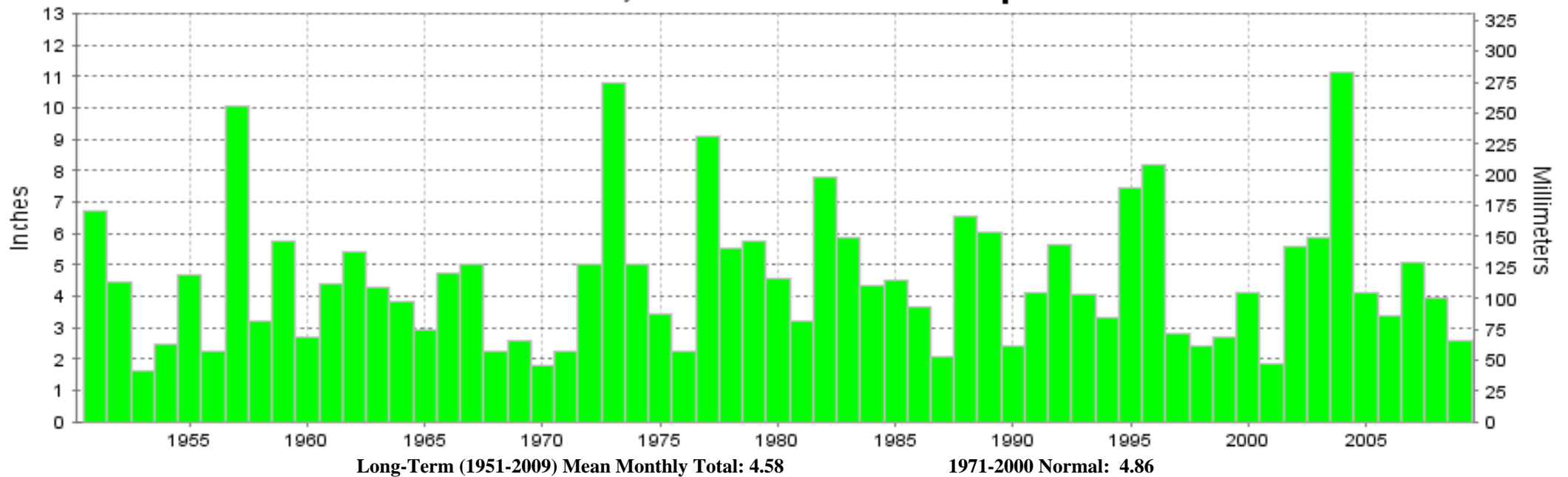
HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND		PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT	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: 0711 NOV 13						SUNSET: 1731						SUNRISE: 0717 NOV 19						SUNSET: 1727											
01	CLR	NC				42	38	40	86	0	00	29.01	29.98	01	OVC	030			10.00		48	41	45	77	3	22	29.16	30.14	
04	CLR	NC				42	38	40	86	0	00	28.99	29.96	04	OVC	030			10.00		47	38	43	71	3	VR	29.17	30.15	
07	CLR	NC				40	38	39	93	0	00	29.01	29.99	07	OVC	032			10.00		47	39	43	74	0	00	29.21	30.20	
10	CLR	NC				54	41	48	62	5	VR	29.03	30.00	10	OVC	034			10.00		49	38	44	66	0	00	29.25	30.24	
13	CLR	NC				63	45	53	52	7	07	28.97	29.93	13	CLR	NC			10.00		55	39	47	55	5	VR	29.21	30.19	
16	CLR	NC			10.00	68	46	56	45	5	VR	28.93	29.90	16	CLR	NC			10.00		56	39	48	53	0	00	29.18	30.16	
19	CLR	NC			10.00	54	48	51	80	0	00	28.95	29.93	19	CLR	NC			10.00		48	40	44	74	0	00	29.22	30.22	
22	CLR	NC			10.00	50	46	48	86	0	00	28.96	29.93	22	CLR	NC			10.00		41	39	40	93	0	00	29.23	30.23	
SUNRISE: 0712 NOV 14						SUNSET: 1730						SUNRISE: 0718 NOV 20						SUNSET: 1727											
01	CLR	NC			10.00	45	44	45	96	0	00	28.96	29.93	01	CLR	NC			10.00		38	36	37	93	0	00	29.24	30.24	
04	CLR	NC			10.00	43	42	43	96	0	00	28.97	29.93	04	VV	002			0.25	FG	35	35	35	100	0	00	29.25	30.25	
07	OVC	008			1.00	40	40	40	100	0	00	29.01	30.00	07	VV	001			0.25	FG	38	38	38	100	0	00	29.27	30.27	
10	CLR	NC			10.00	50	48	49	93	0	00	29.05	30.02	10	OVC	001			6.00	BR	42	42	42	100	3	10	29.29	30.29	
13	CLR	NC			10.00	69	48	57	47	0	00	29.01	29.98	13	CLR	NC			10.00		59	40	50	50	8	04	29.22	30.21	
16	CLR	NC			10.00	71	47	58	43	3	22	28.98	29.94	16	CLR	NC			10.00		60	39	50	46	5	05	29.17	30.16	
19	CLR	NC			10.00	56	48	52	75	0	00	29.01	29.99	19	CLR	NC			10.00		50	42	46	74	0	00	29.20	30.20	
22	CLR	NC			10.00	50	46	48	86	0	00	29.02	30.00	22	CLR	NC			10.00		43	39	41	86	0	00	29.20	30.20	
SUNRISE: 0713 NOV 15						SUNSET: 1730						SUNRISE: 0719 NOV 21						SUNSET: 1726											
01	CLR	NC			10.00	47	45	46	93	0	00	29.02	29.98	01	CLR	NC			9.00		42	40	41	93	0	00	29.18	30.17	
04	CLR	NC			10.00	44	43	44	96	0	00	29.06	30.02	04	CLR	NC			9.00		39	38	39	96	0	00	29.18	30.17	
07	VV	001			0.75	42	42	42	100	0	00	29.10	30.09	07	CLR	NC			9.00		42	40	41	93	3	06	29.19	30.19	
10	CLR	NC			10.00	50	49	49	96	0	00	29.13	30.11	10	CLR	NC			10.00		51	43	47	74	5	06	29.21	30.21	
13	CLR	NC			10.00	68	45	56	44	5	13	29.07	30.03	13	CLR	NC			10.00		60	39	50	46	0	00	29.16	30.14	
16	CLR	NC			10.00	71	38	54	30	0	00	29.04	30.00	16	CLR	NC			10.00		61	38	50	43	3	VR	29.13	30.11	
19	CLR	NC			10.00	55	44	49	67	0	00	29.06	30.04	19	CLR	NC			10.00		50	40	45	69	0	00	29.15	30.14	
22	CLR	NC			10.00	48	43	46	83	0	00	29.09	30.07	22	CLR	NC			10.00		47	41	44	80	0	00	29.16	30.15	
SUNRISE: 0714 NOV 16						SUNSET: 1729						SUNRISE: 0720 NOV 22						SUNSET: 1726											
01	CLR	NC			10.00	43	41	42	93	0	00	29.09	30.05	01	CLR	NC			10.00		44	40	42	86	0	00	29.15	30.14	
04	SCT	001			3.00	40	39	40	96	0	00	29.08	30.04	04	CLR	NC			9.00		42	41	42	96	0	00	29.13	30.11	
07	OVC	008			0.25	38	38	38	100	0	00	29.09	30.08	07	CLR	NC			10.00		44	39	42	83	3	11	29.14	30.13	
10	FEW	001			10.00	48	46	47	93	0	00	29.10	30.08	10	CLR	NC			10.00		48	41	45	77	0	00	29.19	30.18	
13	CLR	NC			10.00	66	48	56	52	3	VR	29.03	29.99	13	OVC	075			5.00	RA BR	48	44	46	86	0	00	29.15	30.15	
16	CLR	NC			10.00	69	41	54	36	5	25	28.99	29.96	16	OVC	075			10.00	-RA	50	46	48	86	0	00	29.10	30.09	
19	CLR	NC			10.00	56	44	50	64	0	00	29.02	30.00	19	OVC	050			8.00		49	47	48	93	0	00	29.10	30.10	
22	CLR	NC			10.00	49	44	47	83	0	00	29.03	30.01	22	OVC	050			6.00	BR	49	48	48	96	0	00	29.13	30.11	
SUNRISE: 0715 NOV 17						SUNSET: 1728						SUNRISE: 0721 NOV 23						SUNSET: 1725											
01	BKN	110			10.00	50	45	48	83	0	00	29.00	29.96	01	OVC	038			5.00	BR	49	48	48	96	0	00	29.13	30.12	
04	CLR	NC			10.00	45	43	44	93	0	00	28.98	29.95	04	OVC	036			8.00		49	47	48	93	0	00	29.14	30.13	
07	BKN	110			10.00	44	42	43	93	0	00	29.00	29.98	07	OVC	036			10.00		49	47	48	93	0	00	29.17	30.16	
10	SCT	100			10.00	52	47	49	83	0	00	29.02	30.00	10	OVC	080			10.00		51	46	48	83	3	VR	29.19	30.18	
13	OVC	065			10.00	62	49	55	63	0	00	28.97	29.94	13	OVC	037			10.00		55	46	50	72	0	00	29.17	30.15	
16	OVC	055			10.00	60	52	56	75	3	09	28.96	29.93	16	OVC	031			10.00		56	47	51	72	0	00	29.16	30.14	
19	OVC	100			10.00	58	52	55	81	0	00	28.99	29.96	19	OVC	035			10.00		55	49	52	80	0	00	29.18	30.16	
22	OVC	080			7.00	55	53	54	93	0	00	29.01	29.98	22	OVC	037			10.00		54	49	51	83	0	00	29.18	30.16	
SUNRISE: 0716 NOV 18						SUNSET: 1728						SUNRISE: 0722 NOV 24						SUNSET: 1725											
01	OVC	037			1.75	55	55	55	100	0	00	29.03	29.99	01	OVC	050			10.00		52	49	50	90	0	00	29.18	30.16	
04	OVC	015			10.00	49	47	48	93	3	VR	29.04	30.01	04	OVC	055			10.00		51	49	50	93	0	00	29.18	30.16	
07	OVC	046			9.00	48	47	47	96	5	19	29.06	30.03	07	OVC	025			10.00		50	49	49	96	0	00	29.18	30.16	
10	OVC	043			10.00	49	47	48	93	5	21	29.12	30.10	10	OVC	046			10.00		54	49	51	83	0	00	29.21	30.19	
13	OVC	043			10.00	50	47	48	90	0	00	29.09	30.06	13	OVC	044			10.00		57	48	52	72	5	24	29.14	30.12	
16	OVC	060			10.00	53	48	50	83	0	00	29.07	30.04	16	OVC	046			10.00		56	47	51	72	3	VR	29.09	30.06	
19	BKN	023			8.00	50	48	49	93	0	00	29.10	30.09	19	FEW	043			10.00		52	47	49	83	0	00	29.09	30.07	
22	OVC	032			10.00	50	44	47	80	6	19	29.14	30.12	22	CLR	NC			9.00		47	45	46	93	0	00	29.10	30.08	

OAK RIDGE, TN NOVEMBER Temperatures



Long-Term (1951-2009) Mean: 47.9
1971-2000 Normal: 47.7

OAK RIDGE, TN NOVEMBER Precipitation



Long-Term (1951-2009) Mean Monthly Total: 4.58

1971-2000 Normal: 4.86



NOVEMBER 2009
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA NOAA, National Climatic Data Center

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