



NOVEMBER 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) 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		null00 LST 11	null00 LST 12	null00 LST 13	null00 LST 14	AVERAGE STATION 15	AVERAGE SEA LEVEL 16	RESULTANT SPEED 17	RES DIR 18	AVERAGE SPEED 19	MAXIMUM					
																			3-SEC		2-MIN			
01	65	35	50	-2	37	42	15	0	FG+ FG BR			0.00	29.31	30.32	0.1	05	0.1			6	09	01		
02	66	34	50	-2	37	43	15	0	FG+ FG BR			0.00	29.33	30.32	0.6	22	0.8	10	19	7	17	02		
03	60	40	50	-2	43	46	15	0	RA BR			0.77	29.05	30.01	0.6	22	1.6	12	26	8	27	03		
04	60	43	52	1	42	46	13	0	RA BR			0.03	29.06	30.08	1.1	04	2.5	22	03	15	06	04		
05	65	38	52	1	40	44	13	0	FG+ BR			0.00	29.26	30.27	0.4	04	1.3	10	03	8	07	05		
06	64	33	49	-2	38	43	16	0	BR			0.00	29.36	30.38	0.5	17	0.9	20	24	9	15	06		
07	70	38	54	4	43	47	11	0	FG+ BR			0.00	29.36	30.36			0.4	9	19	6	22	07		
08	71	40	56	6	45	49	9	0	FG+ FG BR			0.00	29.25	30.22	0.2	23	0.6	12	16	8	20	08		
09	64	43	54	4	49	51	11	0	RA FG+ BR			0.06	29.09	30.06	1.0	25	1.4	12	23	7	22	09		
10	56	39	48	-1	27	39	17	0				0.00	29.11	30.10	2.6	30	4.5	21	26	17	26	10		
11	53	28	41	-8	22	33	24	0				0.00	29.18	30.20	1.2	22	2.1	16	22	12	19	11		
12	63	31	47	-2	28	39	18	0				0.00	29.23	30.23	2.6	22	3.5	21	19	14	19	12		
13	66	46	56	8	38	48	9	0				0.00	29.11	30.08	3.1	21	4.5	32*	20	21*	21	13		
14	70	61	66	18	57	60	0	1	RA BR			0.03	29.05	29.99	4.8	22	6.1	25	21	17	20	14		
15	72	59	66*	18	61	62	0	1	RA BR			1.02	28.95	29.90	2.5	21	3.5	23	22	13	21	15		
16	67	53	60	12	55	57	5	0	RA FG+ BR			1.92	28.89	29.85	1.1	01	4.0	21	05	14	07	16		
17	52	30	41	-6	26	37	24	0	RA			0.05	29.18	30.23	2.4	34	4.1	21	36	12	31	17		
18	53	27*	40	-7	24	32	25	0				0.00	29.40	30.42	0.4	07	1.2	12	17	8	16	18		
19	63	32	48	1	35	43	17	0				0.00	29.31	30.31	1.7	23	2.7	16	21	10	21	19		
20	63	55	59	13	51	55	6	0	RA BR			0.08	29.28	30.26	2.4	26	3.2	15	27	10	25	20		
21	62	58	60	14	59	59	5	0	RA FG+ FG BR			0.89	29.26	30.22			0.0	8	17	6	06	21		
22	74*	56	65	19	59	60	0	0	RA FG+ FG BR			1.19	29.05	30.00	2.2	21	2.9	24	17	15	18	22		
23	60	40	50	5	44	48	15	0	RA			0.03	29.12	30.13	1.7	30	3.4	25	29	16	27	23		
24	62	34	48	3	37	41	17	0	FG+ BR			0.00	29.36	30.38	1.0	07	1.2	12	08	9	07	24		
25	62	33	48	3	36	40	17	0	FG+ FG BR			0.00	29.34	30.34	0.1	26	0.8	14	28	9	26	25		
26	65	38	52	8	44	48	13	0				0.00	29.24	30.22	0.2	19	0.2	10	16	8	19	26		
27	64	50	57	13	54	56	8	0	RA BR			1.67	29.00	29.95	1.9	21	2.3	23	22	14	19	27		
28	57	40	49	5	49	50	16	0	RA BR			3.13	28.80	29.77	0.9	19	5.0	24	22	15	21	28		
29	43	38	41	-3	34	37	24	0	RA			0.02	28.84	29.85	4.8	21	6.6	18	21	13	21	29		
30	44	30	37*	-6	31	35	28	0	RA BR			T	29.09	30.14	1.6	22	2.3	14	22	8	20	30		

61.9	40.7	51.3	☼	41.5	46.3	13.5	0.1	< MONTHLY AVERAGES TOTALS >				10.89	29.16	30.15	1.0	23	2.5	< MONTHLY AVERAGES			
2.9	4.3	3.6		-----DEPARTURE FROM NORMAL ----->								6.03	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3								

DEGREE DAYS				GREATEST 24-HR PRECIPITATION : 3.66 DATE : 27-28				SEA LEVEL PRESSURE									
MONTHLY				GREATEST 24-HR SNOWFALL :				DATE				TIME					
SEASON TO DATE				GREATEST SNOW DEPTH :				DATE				TIME					
TOTAL DEPARTURE		TOTAL DEPARTURE		NUMBER OF -> DAYS WITH		MAXIMUM TEMP >= 90 : 0		MINIMUM TEMP <= 32 : 6		PRECIPITATION >= 0.01 INCH : 14							
HEATING : 406		-112		644		-134		MAXIMUM TEMP <= 32 : 0		PRECIPITATION >= 0.10 INCH : 7							
COOLING : 2		1		1782		481		THUNDERSTORMS : 0		HEAVY FOG : 11				SNOWFALL >= 1.0 INCH :			

NOVEMBER 2011
OAK RIDGE, TN

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
NOVEMBER 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													01												01	0.00	0.00	
02													02												02	0.00	0.00	
03													03	0.02	0.05	0.28	0.19	0.16	0.07	T	T	T		T	T	03	0.77	0.77
04	T		T	0.03	T								04											T	T	04	0.03	0.03
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		T	0.01	0.02	0.03	T						09	0.06	0.06	
10													10												10	0.00	0.00	
11													11												11	0.00	0.00	
12													12												12	0.00	0.00	
13													13												13	0.00	0.00	
14													14				T		T	0.03					14	0.03	0.03	
15	T	0.05	0.24	0.01	0.09	0.36	T	T	T				15	T	T	0.03	0.05	0.03	T		0.03	0.09	0.04	15	1.02	1.02		
16	0.06	0.02	0.07	0.13	0.08	0.02	0.01	0.02	0.03	0.01		0.06	16	0.97	0.42	T		T	0.02	T				16	1.92	1.92		
17				0.01	0.04	T							17											17	0.05	0.05		
18													18											18	0.00	0.00		
19													19											19	0.00	0.00		
20													20			0.02	0.01	T				T	0.05	20	0.08	0.08		
21	T				T	0.01				0.34	0.17	0.13	21	0.05	0.03	0.08	0.06	0.02						21	0.89	0.89		
22													22			0.20	0.23	0.50	0.15	0.02	0.08	0.01		T	22	1.19	1.19	
23	0.03	T	T				T	T					23											23	0.03	0.03		
24													24											24	0.00	0.00		
25													25											25	0.00	0.00		
26													26											26	0.00	0.00		
27					T	T	T			T	0.03	0.16	0.11	0.10	0.17	0.12	0.17	0.11	0.04	0.03	0.08	0.15	0.09	0.18	0.13	27	1.67	1.67
28	0.12	0.22	0.19	0.26	0.13	0.29	0.16	0.16	0.14	0.13	0.10	0.08	28	0.10	0.09	0.13	0.17	0.22	0.16	0.14	0.12	0.02		28	3.13	3.13		
29										T	T	T	29	T	T		0.01	T	0.01	T				29	0.02	0.02		
30	T	T		T									30											30	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)	0.39	0.49	0.49	0.49	0.57	0.87	1.00	1.17	1.38	1.44	1.45	1.45
Ending Date	16	16	16	16	16	16	16	16	16	16	16	16
Ending Time (Hr/Min)	1211	1214	1214	1214	1234	1249	1303	1324	1338	1346	1346	1346

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 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							0.00	10.00	
02							0.00	10.00	
03							1.25	10.00	
04							6.00	10.00	
05							0.25	10.00	
06							4.00	10.00	
07							0.00	10.00	
08							0.00	10.00	
09							2.00	10.00	
10							10.00	10.00	
11							10.00	10.00	
12							10.00	10.00	
13							10.00	10.00	
14							8.00	10.00	
15							1.75	10.00	
16							1.00	10.00	
17							7.00	10.00	
18							10.00	10.00	
19							10.00	10.00	
20							4.00	10.00	
21							0.25	10.00	
22							0.50	10.00	
23							7.00	10.00	
24							0.25	10.00	
25							0.00	10.00	
26							10.00	10.00	
27							1.50	10.00	
28							1.25	10.00	
29							9.00	10.00	
30							5.00	10.00	
MONTHLY AVGS							4.33	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		
8			15				11		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

NOVEMBER 2011 KOQT

WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)		HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		VISIBILITY (MILES)	WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)					
			Observation Time (LST)	Eff Cld Amt Oktas			DRY BULB	DEW POINT	WET BULB		RELATIVE HUMIDITY (PCT)	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: 0659 NOV 01 SUNSET: 1742													SUNRISE: 0705 NOV 07 SUNSET: 1736																
01	CLR	NC			8.00		37	34	36	89	0 00	29.28	30.28	01	CLR	NC			10.00		41	38	40	89	0 00	29.39	30.38		
04	VV	001			0.25	FG	35	34	35	96	0 00	29.30	30.29	04	VV	001			0.25	FG	39	38	39	96	0 00	29.40	30.39		
07	VV	001			0.25	FG	37	36	37	96	3 05	29.34	30.34	07	VV	001			0.25	FG	38	38	38	100	0 00	29.42	30.42		
10	OVC	002			1.50	BR	41	41	41	100	0 00	29.40	30.40	10	CLR	NC			10.00		48	45	47	89	0 00	29.45	30.45		
13	CLR	NC			10.00		61	40	51	46	0 00	29.34	30.33	13	CLR	NC			10.00		66	44	54	45	0 00	29.37	30.35		
16	CLR	NC			10.00		64	32	49	30	0 00	29.30	30.29	16	CLR	NC			10.00		68	46	56	45	3 VR	29.31	30.29		
19	CLR	NC			10.00		50	39	45	66	0 00	29.31	30.32	19	CLR	NC			10.00		56	48	52	75	0 00	29.31	30.30		
22	CLR	NC			10.00		42	37	40	83	0 00	29.33	30.34	22	CLR	NC			10.00		49	45	47	86	0 00	29.31	30.30		
SUNRISE: 0700 NOV 02 SUNSET: 1741													SUNRISE: 0706 NOV 08 SUNSET: 1735																
01	CLR	NC			10.00		38	35	37	89	0 00	29.34	30.32	01	CLR	NC			10.00		44	42	43	93	0 00	29.29	30.27		
04	OVC	001			1.75	BR	35	34	35	96	0 00	29.36	30.35	04	VV	001			0.75	BR	41	40	41	96	0 00	29.29	30.27		
07	VV	001			0.25	FG	36	35	36	96	0 00	29.41	30.41	07	VV	001			0.25	FG	41	40	41	96	0 00	29.31	30.30		
10	FEW	001			10.00		44	42	43	93	0 00	29.42	30.42	10	BKN	002			10.00		49	48	48	96	0 00	29.31	30.30		
13	CLR	NC			10.00		62	38	50	41	0 00	29.34	30.33	13	CLR	NC			10.00		67	47	56	49	0 00	29.24	30.22		
16	CLR	NC			10.00		65	34	50	32	6 22	29.27	30.26	16	CLR	NC			10.00		70	46	57	42	0 00	29.17	30.15		
19	CLR	NC			10.00		51	41	46	69	0 00	29.25	30.25	19	CLR	NC			10.00		57	48	52	72	0 00	29.17	30.16		
22	CLR	NC			10.00		45	39	42	80	0 00	29.25	30.25	22	CLR	NC			10.00		50	46	48	86	0 00	29.17	30.15		
SUNRISE: 0701 NOV 03 SUNSET: 1740													SUNRISE: 0707 NOV 09 SUNSET: 1734																
01	CLR	NC			10.00		43	38	41	83	3 21	29.21	30.19	01	CLR	NC			10.00		46	44	45	93	0 00	29.15	30.13		
04	CLR	NC			10.00		43	37	40	79	3 22	29.18	30.16	04	CLR	NC			10.00		45	42	44	89	0 00	29.13	30.10		
07	CLR	NC			10.00		41	37	39	86	3 19	29.13	30.11	07	BKN	001			2.00	BR	43	41	42	93	0 00	29.13	30.11		
10	OVC	047			10.00		52	39	46	61	0 00	29.10	30.09	10	BKN	055			10.00		56	50	53	80	0 00	29.13	30.10		
13	OVC	043			5.00	RA	55	46	50	72	0 00	28.97	29.95	13	OVC	055			10.00		64	50	56	61	3 25	29.06	30.03		
16	OVC	026			1.75	RA BR	52	50	51	93	5 07	28.90	29.88	16	OVC	029			3.00	-RA BR	60	57	58	90	5 29	29.03	30.00		
19	OVC	011			6.00	BR	52	50	51	93	0 00	28.91	29.89	19	OVC	010			8.00		59	57	58	93	0 00	29.05	30.03		
22	OVC	023			10.00		49	45	47	86	3 VR	28.93	29.91	22	CLR	NC			10.00		54	50	52	86	0 00	29.08	30.04		
SUNRISE: 0702 NOV 04 SUNSET: 1739													SUNRISE: 0708 NOV 10 SUNSET: 1733																
01	OVC	028			10.00		46	41	44	83	0 00	28.95	29.92	01	BKN	048			10.00		49	40	45	71	6 35	29.10	30.08		
04	OVC	045			6.00	-RA BR	44	42	43	93	0 00	28.97	29.95	04	OVC	031			10.00		46	35	41	66	3 VR	29.13	30.10		
07	OVC	021			10.00		44	42	43	93	0 00	29.04	30.02	07	OVC	033			10.00		45	32	39	60	5 34	29.15	30.13		
10	OVC	017			10.00		48	43	46	83	0 00	29.09	30.07	10	CLR	NC			10.00		47	32	41	56	3 34	29.15	30.14		
13	FEW	029			10.00		58	44	51	60	9 05	29.09	30.07	13	CLR	NC			10.00		53	24	41	32	5 VR	29.10	30.09		
16	CLR	NC			10.00		57	42	49	57	7 01	29.13	30.11	16	CLR	NC			10.00		54	22	41	29	11 26	29.05	30.03		
19	CLR	NC			10.00		52	41	47	66	5 02	29.18	30.17	19	FEW	070			10.00		48	20	37	33	5 VR	29.10	30.09		
22	CLR	NC			10.00		47	41	44	80	0 00	29.22	30.22	22	CLR	NC			10.00		43	14	33	31	5 VR	29.16	30.16		
SUNRISE: 0703 NOV 05 SUNSET: 1738													SUNRISE: 0709 NOV 11 SUNSET: 1733																
01	CLR	NC			4.00	BR	42	39	41	89	0 00	29.21	30.20	01	CLR	NC			10.00		36	20	30	52	0 00	29.16	30.16		
04	CLR	NC			4.00	BR	38	36	37	93	0 00	29.23	30.22	04	CLR	NC			10.00		30	23	28	75	0 00	29.16	30.17		
07	VV	002			0.25	FG	39	38	39	96	3 09	29.29	30.28	07	CLR	NC			10.00		29	23	27	78	0 00	29.21	30.22		
10	CLR	NC			10.00		50	43	47	77	6 VR	29.34	30.33	10	CLR	NC			10.00		41	23	34	49	3 20	29.24	30.25		
13	CLR	NC			10.00		60	41	50	50	3 VR	29.30	30.28	13	CLR	NC			10.00		50	19	38	29	7 VR	29.19	30.19		
16	CLR	NC			10.00		65	38	52	37	0 00	29.24	30.23	16	CLR	NC			10.00		52	17	39	25	5 24	29.17	30.18		
19	CLR	NC			10.00		50	42	46	74	0 00	29.26	30.26	19	CLR	NC			10.00		46	21	36	37	0 00	29.17	30.19		
22	CLR	NC			9.00		44	39	42	83	0 00	29.28	30.28	22	CLR	NC			10.00		40	24	34	53	0 00	29.21	30.21		
SUNRISE: 0704 NOV 06 SUNSET: 1737													SUNRISE: 0710 NOV 12 SUNSET: 1732																
01	CLR	NC			6.00	BR	40	37	39	89	0 00	29.32	30.30	01	CLR	NC			10.00		36	25	32	64	0 00	29.21	30.21		
04	CLR	NC			7.00		36	34	35	92	0 00	29.35	30.34	04	CLR	NC			10.00		34	26	31	73	0 00	29.23	30.23		
07	CLR	NC			8.00		34	31	33	89	0 00	29.42	30.42	07	CLR	NC			10.00		31	25	29	78	0 00	29.27	30.28		
10	CLR	NC			10.00		50	36	44	59	0 00	29.47	30.47	10	CLR	NC			10.00		47	28	39	48	5 VR	29.30	30.30		
13	CLR	NC			10.00		60	37	49	43	6 19	29.41	30.40	13	CLR	NC			10.00		61	31	47	32	6 VR	29.24	30.23		
16	CLR	NC			10.00		63	40	51	43	3 14	29.34	30.33	16	CLR	NC			10.00		60	29	46	31	7 20	29.21	30.21		
19	CLR	NC			10.00		52	43	48	72	0 00	29.35	30.35	19	CLR	NC			10.00		56	28	44	34	6 24	29.21	30.21		
22	CLR	NC			10.00		45	40	43	83	0 00	29.39	30.38	22	CLR	NC			10.00		53	31	43	43	5 25	29.20	30.19		

OBSERVATIONS AT 3-HOURLY INTERVALS

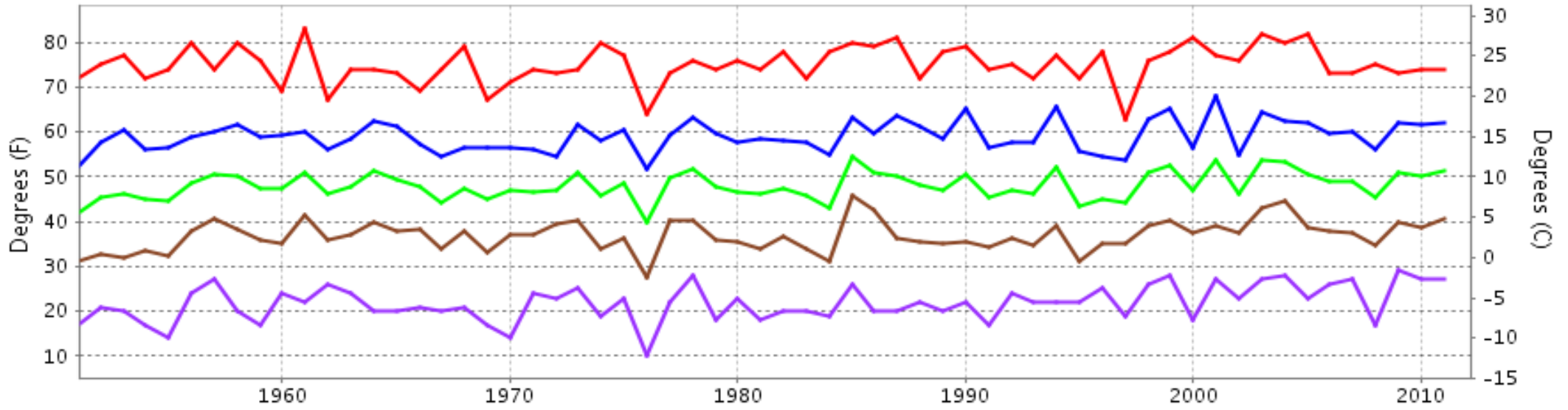
OAK RIDGE, TN

NOVEMBER 2011 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			10.00	51	31	42	46	3	25	29.19	30.17	01	CLR	NC			10.00	32	28	30	85	0	00	29.34	30.35			
04	CLR	NC			10.00	49	29	41	46	3	23	29.17	30.14	04	OVC	041			10.00	37	27	33	67	3	VR	29.35	30.35			
07	SCT	070			10.00	47	29	39	50	0	00	29.17	30.15	07	OVC	045			10.00	41	30	37	65	0	00	29.36	30.37			
10	OVC	038			10.00	53	27	42	37	5	25	29.18	30.16	10	BKN	055			10.00	47	28	39	48	0	00	29.38	30.39			
13	BKN	055			10.00	64	43	53	47	13	20	29.07	30.03	13	FEW	045			10.00	56	33	45	42	0	00	29.31	30.32			
16	CLR	NC			10.00	66	44	54	45	6	VR	29.04	30.00	16	CLR	NC			10.00	62	41	51	46	8	19	29.23	30.22			
19	OVC	050			10.00	64	45	54	50	8	19	29.06	30.02	19	OVC	060			10.00	57	43	50	60	0	00	29.26	30.25			
22	OVC	043			10.00	64	48	55	56	5	VR	29.08	30.04	22	BKN	060			10.00	58	45	51	62	5	26	29.28	30.26			
SUNRISE: 0712 NOV 14						SUNSET: 1730						SUNRISE: 0718 NOV 20						SUNSET: 1727												
01	OVC	033			10.00	61	50	55	67	0	00	29.08	30.03	01	OVC	033			10.00	57	45	51	64	5	24	29.27	30.25			
04	OVC	031			10.00	65	54	59	68	5	21	29.06	30.01	04	BKN	060			10.00	56	44	50	64	3	22	29.30	30.27			
07	OVC	027			10.00	64	55	59	73	6	VR	29.08	30.03	07	OVC	026			10.00	56	45	50	67	0	00	29.30	30.27			
10	OVC	029			10.00	65	56	60	73	10	21	29.09	30.04	10	OVC	020			10.00	59	47	53	65	3	VR	29.33	30.30			
13	OVC	023			10.00	67	57	61	70	9	21	29.04	29.99	13	FEW	017			10.00	62	53	57	73	6	26	29.29	30.25			
16	OVC	070			10.00	68	59	63	73	10	20	28.99	29.93	16	OVC	100			5.00	-RA	BR	60	56	58	87	3	VR	29.28	30.25	
19	OVC	018			8.00	63	61	62	93	3	26	29.01	29.96	19	OVC	046			8.00	60	57	58	90	0	00	29.26	30.24			
22	OVC	024			10.00	63	60	61	90	3	23	28.99	29.94	22	OVC	021			9.00	61	57	59	87	6	26	29.27	30.24			
SUNRISE: 0713 NOV 15						SUNSET: 1730						SUNRISE: 0719 NOV 21						SUNSET: 1726												
01	OVC	018			10.00	65	60	62	84	3	VR	28.98	29.92	01	OVC	007			5.00	BR	60	58	59	93	0	00	29.26	30.23		
04	OVC	012			10.00	-RA	65	63	64	93	9	21	28.95	29.89	04	OVC	003			2.50	BR	60	59	59	97	0	00	29.26	30.23	
07	OVC	009			10.00	64	62	63	93	0	00	28.96	29.91	07	OVC	003			1.50	BR	60	59	59	97	0	00	29.29	30.25		
10	OVC	013			10.00	67	63	65	87	6	21	29.00	29.94	10	OVC	048			0.25	+RA	FG	61	60	60	97	0	00	29.31	30.28	
13	OVC	045			10.00	-RA	70	62	65	76	6	21	28.94	29.88	13	OVC	095			10.00	-RA	61	60	60	97	0	00	29.27	30.24	
16	OVC	008			2.00	-RA	59	58	58	97	0	00	28.93	29.88	16	OVC	100			4.00	RA	BR	61	59	60	93	0	00	29.25	30.22
19	OVC	014			10.00	59	58	58	97	0	00	28.96	29.91	19	OVC	120			7.00	60	59	59	97	0	00	29.21	30.18			
22	OVC	095			6.00	-RA	60	59	59	97	0	00	28.94	29.89	22	OVC	024			0.50	FG	59	58	58	97	0	00	29.20	30.16	
SUNRISE: 0714 NOV 16						SUNSET: 1729						SUNRISE: 0720 NOV 22						SUNSET: 1726												
01	OVC	021			9.00	-RA	64	63	63	97	3	21	28.92	29.86	01	OVC	034			0.50	FG	57	57	57	100	0	00	29.16	30.13	
04	OVC	009			3.00	RA	62	61	61	97	0	00	28.87	29.83	04	OVC	050			1.00	BR	57	56	56	96	0	00	29.14	30.11	
07	OVC	015			10.00	-RA	62	61	61	97	3	20	28.87	29.83	07	OVC	050			3.00	BR	57	56	56	96	0	00	29.13	30.09	
10	OVC	013			9.00	64	62	63	93	0	00	28.84	29.79	10	OVC	055			9.00	60	58	59	93	0	00	29.13	30.09			
13	OVC	039			1.00	+RA	56	55	55	96	6	05	28.80	29.76	13	BKN	045			10.00	71	59	64	66	10	19	29.01	29.96		
16	OVC	046			10.00	56	51	53	83	5	36	28.88	29.83	16	OVC	027			1.00	RA	BR	64	62	63	93	3	27	28.94	29.89	
19	OVC	065			10.00	53	49	51	86	5	VR	28.95	29.91	19	OVC	009			10.00	-RA	63	61	62	93	6	21	28.93	29.88		
22	OVC	065			10.00	54	46	50	75	8	01	29.00	29.96	22	OVC	060			10.00	61	59	60	93	7	22	28.95	29.90			
SUNRISE: 0715 NOV 17						SUNSET: 1728						SUNRISE: 0721 NOV 23						SUNSET: 1725												
01	OVC	032			10.00	51	45	48	80	5	04	29.01	29.98	01	OVC	009			10.00	60	58	59	93	5	VR	28.93	29.87			
04	OVC	060			7.00	-RA	44	40	42	86	5	34	29.07	30.04	04	SCT	026			10.00	56	51	53	83	8	27	28.96	29.91		
07	OVC	060			10.00	42	36	39	79	0	00	29.13	30.11	07	OVC	027			7.00	-RA	50	46	48	86	0	00	29.08	30.05		
10	CLR	NC			10.00	43	27	37	53	5	VR	29.25	30.24	10	OVC	026			10.00	51	42	47	71	5	30	29.19	30.16			
13	CLR	NC			10.00	47	18	36	31	7	VR	29.26	30.25	13	OVC	034			10.00	52	42	47	69	6	VR	29.21	30.18			
16	CLR	NC			10.00	49	13	36	23	6	30	29.28	30.28	16	BKN	037			10.00	57	40	49	53	5	34	29.20	30.18			
19	CLR	NC			10.00	42	14	32	32	6	36	29.36	30.37	19	CLR	NC			10.00	51	40	46	66	3	34	29.27	30.26			
22	CLR	NC			10.00	34	20	29	57	0	00	29.40	30.42	22	CLR	NC			10.00	42	40	41	93	0	00	29.32	30.32			
SUNRISE: 0716 NOV 18						SUNSET: 1728						SUNRISE: 0722 NOV 24						SUNSET: 1725												
01	CLR	NC			10.00	30	24	28	78	0	00	29.42	30.43	01	CLR	NC			8.00	39	37	38	93	0	00	29.34	30.33			
04	CLR	NC			10.00	28	24	27	85	0	00	29.43	30.45	04	CLR	NC			6.00	BR	36	34	35	92	0	00	29.37	30.37		
07	CLR	NC			10.00	27	25	26	92	0	00	29.47	30.49	07	VV	001			1.00	BR	34	32	33	92	0	00	29.39	30.39		
10	CLR	NC			10.00	39	27	34	62	3	VR	29.49	30.51	10	FEW	004			9.00	42	40	41	93	3	VR	29.42	30.42			
13	CLR	NC			10.00	48	14	36	25	0	00	29.41	30.42	13	CLR	NC			10.00	56	37	47	49	3	07	29.39	30.38			
16	CLR	NC			10.00	52	18	39	26	0	00	29.34	30.35	16	CLR	NC			10.00	60	36	48	41	0	00	29.36	30.35			
19	CLR	NC			10.00	41	29	36	62	0	00	29.33	30.35	19	CLR	NC			10.00	47	39	43	74	0	00	29.38	30.39			
22	CLR	NC			10.00	35	28	32	76	0	00	29.34	30.36	22	CLR	NC			10.00	40	36	38	86	0	00	29.39	30.40			

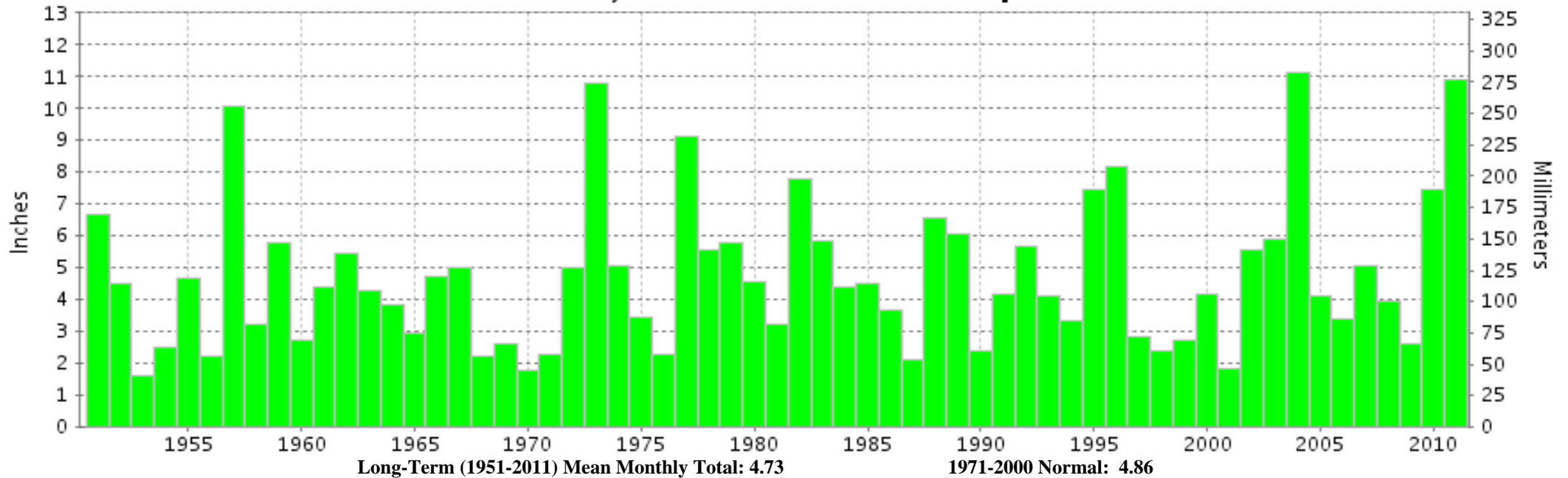
OAK RIDGE, TN NOVEMBER Temperatures



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

Long-Term (1951-2011) Mean: 48.0
1971-2000 Normal: 47.7

OAK RIDGE, TN NOVEMBER Precipitation



Long-Term (1951-2011) Mean Monthly Total: 4.73

1971-2000 Normal: 4.86



NOVEMBER 2011
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

I certify that this is an official publication of the National Oceanic and Atmospheric Administration (NOAA). It is compiled using information from weather observing sites operated by NOAA-National Weather Service / Department Of Transportation-Federal Aviation Administration and received at the National Climatic Data Center (NCDC), Asheville, North Carolina 28801.


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