



OCTOBER 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	58	46	52	-12	37	45	13	0				0.00	29.11	30.11	2.1	32	3.5	20	30	12	34	01		
02	64	40	52	-12	37	44	13	0				0.00	29.17	30.16	0.5	29	1.5	15	33	9	33	02		
03	72	39	56	-8	39	46	9	0				0.00	29.21	30.20	0.7	23	1.2	13	24	7	31	03		
04	77	43	60	-3	47	52	5	0				0.00	29.28	30.27			0.1	10	15	7	13	04		
05	81	50	66	3	50	56	0	1				0.00	29.28	30.25	0.9	07	1.2	13	06	9	06	05		
06	82	52	67	5	53	58	0	2				0.00	29.29	30.27	0.4	08	0.8	12	20	7	26	06		
07	81	53	67	5	56	59	0	2	FG+ FG BR			0.00	29.36	30.33	0.2	07	0.5	12	06	9	07	07		
08	78	52	65	4	51	56	0	0	FG+ BR			0.00	29.41	30.38	0.2	14	0.7	10	09	6	06	08		
09	72	53	63	2	52	56	2	0				0.00	29.34	30.30	0.4	04	0.7	13	07	9	07	09		
10	80	59	70*	9	55	60	0	5	RA			T	29.18	30.12	1.4	07	2.6	16	09	10	08	10		
11	66	59	63	3	59	60	2	0	RA BR			0.60	29.05	29.99	0.8	06	1.6	14	06	8	07	11		
12	71	59	65	5	57	60	0	0				0.00	28.90	29.85	0.3	08	0.3	8	08	6	06	12		
13	67	59	63	4	59	60	2	0	RA FG BR			0.44	28.71	29.65	2.5	22	3.1	21	27	12	27	13		
14	74	52	63	4	46	54	2	0	RA			T	28.83	29.81	3.4	25	4.4	37*	29	18*	26	14		
15	72	46	59	0	38	48	6	0				0.00	29.05	30.05	2.5	26	3.2	25	28	14	28	15		
16	78	42	60	2	45	52	5	0				0.00	29.12	30.08	1.8	21	2.3	20	20	14	20	16		
17	82*	53	68	10	54	59	0	3				0.00	28.97	29.91	2.0	23	2.5	15	20	9	20	17		
18	80	55	68	10	57	61	0	3	RA BR			0.83	28.77	29.69	1.0	24	1.6	26	28	14	28	18		
19	61	45	53	-4	47	49	12	0	RA BR			1.66	28.56	29.53	2.2	23	4.9	20	24	12	26	19		
20	54	44	49	-8	39	44	16	0	RA			0.01	28.84	29.86	4.4	23	5.8	24	25	14	22	20		
21	62	40	51	-5	38	45	14	0				0.00	29.13	30.13	1.0	26	1.8	15	19	9	21	21		
22	65	36	51	-5	38	43	14	0	FG+ BR			0.00	29.18	30.17	0.2	17	0.2	12	17	7	18	22		
23	68	37	53	-3	42	46	12	0	FG+ FG BR			0.00	29.14	30.13	0.2	09	0.2	8	14	6	25	23		
24	73	44	59	4	45	51	6	0				0.00	29.16	30.15	1.1	22	1.9	17	21	10	20	24		
25	75	43	59	4	45	51	6	0	FG+ FG BR			0.00	29.23	30.19	0.5	19	0.7	8	20	6	19	25		
26	75	47	61	6	48	54	4	0				0.00	29.07	30.02	2.3	22	3.1	22	19	14	20	26		
27	64	49	57	3	48	52	8	0	RA BR			0.04	28.95	29.93	1.4	28	3.4	17	35	10	33	27		
28	50	42	46	-8	43	44	19	0	RA BR			0.98	29.05	30.04	0.7	05	2.1	15	06	9	06	28		
29	57	35	46	-7	34	40	19	0	RA BR			0.03	29.15	30.16	0.8	04	1.8	18	36	10	34	29		
30	59	31*	45*	-8	32	38	20	0	FG+ BR			0.00	29.26	30.28	0.2	19	0.5	9	19	7	19	30		
31	60	36	48	-5	36	41	17	0	RA			T	29.24	30.24	0.5	23	1.2	10	22	8	19	31		

OCTOBER 2011
OAK RIDGE, TN

69.6		46.5		58.1		Σ	46.0		51.1		7.3		0.5		< MONTHLY AVERAGES		TOTALS >		4.59		29.10		30.07		0.7		24		1.9		< MONTHLY AVERAGES	
-1.5		0.8		-0.3			<-----DEPARTURE FROM NORMAL----->										1.57		SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3													
DEGREE DAYS										GREATEST 24-HR PRECIPITATION : 2.49 DATE : 18-19										SEA LEVEL PRESSURE				DATE		TIME						
MONTHLY					SEASON TO DATE					GREATEST 24-HR SNOWFALL :					DATE :					MAXIMUM :				30.46		08		0942				
TOTAL DEPARTURE					TOTAL DEPARTURE					GREATEST SNOW DEPTH :					DATE :					MINIMUM :				29.44		19		0453				
HEATING :		226		-4		238		-22		NUMBER OF		->		MAXIMUM TEMP >= 90 :		0		MINIMUM TEMP <= 32 :		1		PRECIPITATION >= 0.01 INCH :		8								
COOLING :		16		-7		1780		480		THUNDERSTORMS		:		0		HEAVY FOG		:		6		PRECIPITATION >= 0.10 INCH :		5								
																						SNOWFALL >= 1.0 INCH :										

HOURLY PRECIPITATION

(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
OCTOBER 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												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													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												14	0.00	0.00	
15													15												15	0.00	0.00	
16													16												16	0.00	0.00	
17													17												17	0.00	0.00	
18													18												18	0.00	0.00	
19													19												19	0.00	0.00	
20													20												20	0.00	0.00	
21													21												21	0.00	0.00	
22													22												22	0.00	0.00	
23													23												23	0.00	0.00	
24													24												24	0.00	0.00	
25													25												25	0.00	0.00	
26													26												26	0.00	0.00	
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												31	0.00	0.00	

* 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)	0.15	0.18	0.18	0.19	0.23	0.33	0.42	0.51	0.62	0.73	0.89	1.04
Ending Date	13	13	13	19	19	18	18	19	19	19	19	19
Ending Time (Hr/Min)	1321	1322	1322	0000	0005	2352	2352	0101	0117	0106	0117	0210

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 OCTOBER 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							10.00	10.00	
02							10.00	10.00	
03							10.00	10.00	
04							10.00	10.00	
05							7.00	10.00	
06							10.00	10.00	
07							0.25	10.00	
08							0.00	10.00	
09							10.00	10.00	
10							10.00	10.00	
11							3.00	10.00	
12							10.00	10.00	
13							1.75	10.00	
14							10.00	10.00	
15							10.00	10.00	
16							10.00	10.00	
17							9.00	10.00	
18							1.25	10.00	
19							1.75	10.00	
20							8.00	10.00	
21							10.00	10.00	
22							0.25	10.00	
23							0.25	10.00	
24							10.00	10.00	
25							0.00	10.00	
26							9.00	10.00	
27							6.00	10.00	
28							2.50	10.00	
29							9.00	10.00	
30							0.00	10.00	
31							8.00	10.00	
MONTHLY AVGS							6.35	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		
6			11				19		

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 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		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
SUNRISE: 0632						OCT 01						SUNSET: 1821						SUNRISE: 0637						OCT 07						SUNSET: 1812					
01	FEW	042			10.00		53	44	48	72	0	00	29.03	29.98	01	CLR	NC			9.00		BR	57	55	56	93	0	00	29.34	30.29					
04	CLR	NC			10.00		50	37	44	61	3	31	29.04	30.00	04	BKN	002			5.00		FG	54	52	53	93	0	00	29.36	30.31					
07	CLR	NC			10.00		47	35	42	63	6	VR	29.09	30.06	07	VV	002			0.25			53	53	53	100	0	00	29.41	30.37					
10	SCT	042			10.00		52	33	43	49	5	VR	29.14	30.12	10	CLR	NC			10.00			66	58	61	76	0	00	29.44	30.40					
13	FEW	047			10.00		57	34	46	42	9	32	29.15	30.12	13	CLR	NC			10.00			77	57	65	50	5	07	29.39	30.34					
16	OVC	044			10.00		54	36	46	51	5	33	29.18	30.16	16	CLR	NC			10.00			81	55	65	41	5	VR	29.34	30.29					
19	OVC	044			10.00		52	39	46	61	0	00	29.19	30.18	19	CLR	NC			10.00			69	60	64	73	0	00	29.34	30.31					
22	OVC	046			10.00		51	42	47	71	0	00	29.19	30.17	22	CLR	NC			10.00			61	57	59	87	0	00	29.38	30.34					
SUNRISE: 0633						OCT 02						SUNSET: 1820						SUNRISE: 0638						OCT 08						SUNSET: 1811					
01	CLR	NC			10.00		46	41	44	83	0	00	29.17	30.15	01	CLR	NC			9.00			57	55	56	93	0	00	29.39	30.35					
04	CLR	NC			10.00		41	39	40	93	0	00	29.17	30.16	04	VV	001			0.25		FG	55	54	54	96	0	00	29.42	30.37					
07	CLR	NC			10.00		40	37	39	89	0	00	29.19	30.19	07	VV	001			0.00		FG	53	52	52	96	0	00	29.47	30.44					
10	FEW	030			10.00		52	37	45	57	0	00	29.22	30.21	10	CLR	NC			10.00			65	53	58	65	3	VR	29.49	30.45					
13	CLR	NC			10.00		58	33	46	39	3	26	29.18	30.16	13	CLR	NC			10.00			73	48	59	41	6	14	29.44	30.40					
16	CLR	NC			10.00		63	30	48	29	6	28	29.14	30.12	16	CLR	NC			10.00			77	45	59	32	0	00	29.38	30.34					
19	CLR	NC			10.00		55	37	46	51	0	00	29.16	30.15	19	CLR	NC			10.00			65	53	58	65	0	00	29.36	30.33					
22	CLR	NC			10.00		47	40	44	77	0	00	29.18	30.16	22	CLR	NC			10.00			57	52	54	83	0	00	29.38	30.35					
SUNRISE: 0633						OCT 03						SUNSET: 1818						SUNRISE: 0638						OCT 09						SUNSET: 1810					
01	CLR	NC			10.00		42	39	41	89	0	00	29.19	30.17	01	CLR	NC			10.00			54	51	52	90	0	00	29.38	30.34					
04	CLR	NC			10.00		41	37	39	86	0	00	29.18	30.16	04	CLR	NC			10.00			53	50	51	90	0	00	29.36	30.32					
07	CLR	NC			10.00		39	37	38	93	0	00	29.22	30.22	07	CLR	NC			10.00			54	50	52	86	0	00	29.39	30.36					
10	CLR	NC			10.00		57	39	48	51	0	00	29.24	30.23	10	CLR	NC			10.00			65	49	56	56	3	06	29.40	30.37					
13	CLR	NC			10.00		66	36	51	33	5	21	29.22	30.20	13	CLR	NC			10.00			67	51	58	57	3	35	29.36	30.32					
16	CLR	NC			10.00		72	35	53	26	3	01	29.18	30.16	16	CLR	NC			10.00			71	53	61	53	0	00	29.29	30.25					
19	CLR	NC			10.00		59	42	50	54	0	00	29.22	30.21	19	CLR	NC			10.00			64	56	59	75	0	00	29.28	30.25					
22	CLR	NC			10.00		50	43	47	77	0	00	29.26	30.24	22	CLR	NC			10.00			61	56	58	84	0	00	29.28	30.24					
SUNRISE: 0634						OCT 04						SUNSET: 1817						SUNRISE: 0639						OCT 10						SUNSET: 1808					
01	CLR	NC			10.00		47	43	45	86	0	00	29.27	30.24	01	CLR	NC			10.00			59	55	57	87	0	00	29.25	30.21					
04	CLR	NC			10.00		44	41	43	89	0	00	29.27	30.24	04	CLR	NC			10.00			60	54	57	81	0	00	29.22	30.17					
07	CLR	NC			10.00		44	41	43	89	0	00	29.32	30.31	07	CLR	NC			10.00			60	53	56	78	0	00	29.23	30.19					
10	CLR	NC			10.00		60	47	53	62	0	00	29.35	30.33	10	CLR	NC			10.00			69	54	60	59	6	05	29.24	30.20					
13	CLR	NC			10.00		73	46	58	38	3	VR	29.31	30.27	13	CLR	NC			10.00			75	55	63	50	6	07	29.17	30.12					
16	CLR	NC			10.00		77	47	60	35	0	00	29.26	30.22	16	FEW	080			10.00			78	52	63	40	7	05	29.12	30.06					
19	CLR	NC			10.00		64	53	58	68	0	00	29.26	30.24	19	CLR	NC			10.00			71	56	62	59	0	00	29.10	30.05					
22	CLR	NC			10.00		56	52	54	87	0	00	29.29	30.27	22	OVC	070			10.00			68	54	60	61	3	16	29.13	30.07					
SUNRISE: 0635						OCT 05						SUNSET: 1815						SUNRISE: 0640						OCT 11						SUNSET: 1807					
01	CLR	NC			10.00		53	50	51	90	0	00	29.30	30.26	01	OVC	070			10.00		-RA	64	57	60	78	0	00	29.10	30.03					
04	CLR	NC			7.00		51	49	50	93	0	00	29.30	30.26	04	OVC	070			10.00			62	57	59	84	3	05	29.07	30.01					
07	CLR	NC			9.00		51	49	50	93	0	00	29.33	30.31	07	OVC	095			7.00		-RA	60	58	59	93	0	00	29.09	30.03					
10	CLR	NC			10.00		65	51	57	61	7	06	29.34	30.31	10	OVC	120			10.00			63	58	60	84	5	06	29.08	30.02					
13	CLR	NC			10.00		75	51	61	43	0	00	29.30	30.26	13	OVC	110			10.00		-RA	66	59	62	78	0	00	29.04	29.98					
16	CLR	NC			10.00		79	47	61	32	6	08	29.24	30.19	16	OVC	110			6.00		-RA BR	64	61	62	90	0	00	29.00	29.95					
19	CLR	NC			10.00		67	53	59	61	0	00	29.24	30.21	19	OVC	075			3.00		+RA BR	61	60	60	97	3	06	29.00	29.95					
22	CLR	NC			10.00		57	52	54	83	0	00	29.27	30.23	22	OVC	018			10.00			61	58	59	90	0	00	29.01	29.96					
SUNRISE: 0636						OCT 06						SUNSET: 1814						SUNRISE: 0641						OCT 12						SUNSET: 1806					
01	CLR	NC			10.00		54	51	52	90	0	00	29.27	30.23	01	OVC	016			10.00			59	57	58	93	0	00	28.96	29.91					
04	CLR	NC			10.00		54	52	53	93	3	06	29.28	30.24	04	OVC	014			10.00			59	56	57	90	3	10	28.94	29.89					
07	CLR	NC			10.00		53	50	51	90	0	00	29.32	30.29	07	OVC	013			10.00			59	56	57	90	0	00	28.96	29.91					
10	CLR	NC			10.00		68	50	58	53	5	05	29.35	30.31	10	OVC	011			10.00			60	56	58	87	0	00	28.96	29.91					
13	CLR	NC			10.00		77	53	63	43	3	VR	29.31	30.26	13	BKN	019			10.00			67	57	61	70	0	00	28.89	29.84					
16	CLR	NC			10.00		82	53	65	37	0	00	29.27	30.22	16	OVC	032			10.00			69	58	62	68	5	07	28.84	29.79					
19	CLR	NC			10.00		68	59	63	73	0	00	29.29	30.26	19	OVC	034			10.00			67	58	62	73	0	00	28.84	29.79					
22	CLR	NC			10.00		60	56	58	87	0	00	29.33	30.29	22	OVC	038			10.00			64	60	62	87	0	00	28.84	29.79					

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 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		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
SUNRISE: 0642						OCT 13						SUNSET: 1804						SUNRISE: 0647						OCT 19						SUNSET: 1756					
01	OVC	034			10.00		63	59	61	87	0	00	28.80	29.74	01	OVC	037			2.00	+RA	BR	61	60	60	97	3	06	28.57	29.49					
04	OVC	011			4.00	BR	61	59	60	93	0	00	28.76	29.69	04	OVC	070			1.75	+RA	BR	56	54	55	93	0	00	28.51	29.44					
07	OVC	004			2.50	BR	61	60	60	97	0	00	28.73	29.66	07	OVC	046			4.00	-RA	BR	51	49	50	93	0	00	28.51	29.46					
10	OVC	015			10.00		64	60	62	87	9	21	28.70	29.64	10	OVC	021			5.00	-RA	BR	48	46	47	93	7	26	28.52	29.47					
13	OVC	075			10.00	-RA	65	61	63	87	6	19	28.64	29.58	13	OVC	021			10.00			48	43	46	83	9	25	28.54	29.50					
16	OVC	095			10.00		64	59	61	84	5	25	28.65	29.58	16	OVC	025			5.00	-RA	BR	46	43	45	89	6	23	28.59	29.55					
19	OVC	095			10.00		61	58	59	90	0	00	28.70	29.64	19	OVC	043			10.00			46	43	45	89	5	21	28.64	29.61					
22	OVC	080			10.00		60	57	58	90	3	22	28.73	29.67	22	OVC	028			10.00	-RA		46	42	44	86	6	VR	28.67	29.65					
SUNRISE: 0643						OCT 14						SUNSET: 1803						SUNRISE: 0648						OCT 20						SUNSET: 1755					
01	OVC	075			10.00		59	56	57	90	3	22	28.76	29.70	01	OVC	026			10.00			45	40	43	83	8	21	28.70	29.67					
04	CLR	NC			10.00		57	53	55	87	0	00	28.78	29.73	04	OVC	037			10.00			45	38	42	77	6	VR	28.73	29.71					
07	CLR	NC			10.00		54	51	52	90	0	00	28.83	29.79	07	OVC	027			10.00	-RA		44	39	42	83	6	VR	28.78	29.76					
10	CLR	NC			10.00		63	51	56	65	8	21	28.88	29.83	10	OVC	028			10.00			45	39	42	80	7	VR	28.86	29.85					
13	CLR	NC			10.00		72	39	55	30	13	28	28.86	29.80	13	OVC	042			10.00			51	40	46	66	10	25	28.89	29.87					
16	CLR	NC			10.00		73	34	53	24	14	26	28.84	29.78	16	OVC	055			10.00			53	38	46	57	7	22	28.92	29.90					
19	CLR	NC			10.00		63	40	51	43	0	00	28.89	29.85	19	OVC	055			10.00			50	39	45	66	3	22	29.00	29.98					
22	CLR	NC			10.00		55	44	49	67	3	25	28.94	29.90	22	OVC	055			10.00			47	42	45	83	0	00	29.07	30.05					
SUNRISE: 0644						OCT 15						SUNSET: 1802						SUNRISE: 0649						OCT 21						SUNSET: 1754					
01	CLR	NC			10.00		52	45	48	77	0	00	28.97	29.92	01	OVC	055			10.00			47	41	44	80	0	00	29.10	30.08					
04	CLR	NC			10.00		52	44	48	74	0	00	29.03	29.98	04	OVC	050			10.00			47	43	45	86	0	00	29.10	30.09					
07	CLR	NC			10.00		46	43	45	89	0	00	29.08	30.05	07	OVC	050			10.00			47	42	45	83	0	00	29.14	30.13					
10	CLR	NC			10.00		61	39	50	44	5	26	29.12	30.08	10	CLR	NC			10.00			55	35	46	47	5	26	29.18	30.16					
13	CLR	NC			10.00		69	33	51	26	8	24	29.09	30.04	13	CLR	NC			10.00			59	35	48	41	3	23	29.15	30.13					
16	CLR	NC			10.00		70	26	50	19	9	25	29.08	30.04	16	CLR	NC			10.00			60	34	48	38	3	VR	29.13	30.11					
19	CLR	NC			10.00		61	33	48	35	0	00	29.10	30.08	19	CLR	NC			10.00			50	39	45	66	0	00	29.16	30.15					
22	CLR	NC			10.00		51	40	46	66	0	00	29.14	30.12	22	CLR	NC			10.00			43	39	41	86	0	00	29.19	30.18					
SUNRISE: 0644						OCT 16						SUNSET: 1800						SUNRISE: 0650						OCT 22						SUNSET: 1753					
01	CLR	NC			10.00		46	40	43	80	0	00	29.16	30.14	01	CLR	NC			10.00			39	36	38	89	0	00	29.18	30.17					
04	CLR	NC			10.00		45	41	43	86	0	00	29.15	30.12	04	BKN	001			1.25	BR		37	35	36	93	0	00	29.19	30.18					
07	CLR	NC			10.00		43	40	42	89	0	00	29.19	30.17	07	VV	002			0.25	FG		38	37	38	96	0	00	29.23	30.23					
10	CLR	NC			10.00		61	44	52	54	0	00	29.19	30.17	10	CLR	NC			10.00			44	42	43	93	0	00	29.24	30.24					
13	CLR	NC			10.00		74	42	57	32	5	VR	29.12	30.08	13	CLR	NC			10.00			61	37	49	41	0	00	29.18	30.16					
16	CLR	NC			10.00		78	45	60	31	8	20	29.04	29.99	16	CLR	NC			10.00			63	36	50	37	0	00	29.14	30.12					
19	CLR	NC			10.00		66	51	58	59	0	00	29.02	29.99	19	CLR	NC			10.00			51	43	47	74	0	00	29.14	30.14					
22	CLR	NC			10.00		59	51	55	75	3	22	29.04	30.00	22	CLR	NC			10.00			44	40	42	86	0	00	29.16	30.16					
SUNRISE: 0645						OCT 17						SUNSET: 1759						SUNRISE: 0651						OCT 23						SUNSET: 1752					
01	CLR	NC			10.00		59	51	55	75	6	21	29.03	29.97	01	CLR	NC			10.00			41	38	40	89	0	00	29.13	30.12					
04	CLR	NC			10.00		54	50	52	86	0	00	29.03	29.97	04	FEW	001			7.00			38	37	38	96	0	00	29.13	30.12					
07	CLR	NC			10.00		55	51	53	86	3	23	29.03	29.98	07	VV	001			0.25	FG		39	38	39	96	0	00	29.18	30.17					
10	CLR	NC			10.00		68	52	59	57	5	26	29.02	29.97	10	BKN	002			8.00			45	44	45	96	0	00	29.21	30.21					
13	CLR	NC			9.00		79	54	64	42	8	26	28.95	29.88	13	CLR	NC			10.00			64	41	52	43	0	00	29.14	30.11					
16	CLR	NC			10.00		81	56	66	42	8	20	28.89	29.83	16	CLR	NC			10.00			66	38	52	36	5	09	29.10	30.09					
19	CLR	NC			10.00		70	59	63	68	0	00	28.90	29.85	19	CLR	NC			10.00			57	47	52	69	0	00	29.13	30.11					
22	CLR	NC			10.00		63	58	60	84	0	00	28.90	29.84	22	CLR	NC			10.00			54	48	51	80	0	00	29.15	30.13					
SUNRISE: 0646						OCT 18						SUNSET: 1758						SUNRISE: 0652						OCT 24						SUNSET: 1750					
01	CLR	NC			10.00		61	57	59	87	0	00	28.87	29.81	01	OVC	110			10.00			53	48	50	83	0	00	29.14	30.11					
04	CLR	NC			10.00		59	56	57	90	0	00	28.86	29.79	04	CLR	NC			10.00			48	45	47	89	0	00	29.14	30.11					
07	CLR	NC			5.00	BR	55	53	54	93	0	00	28.86	29.81	07	CLR	NC			10.00			44	42	43	93	0	00	29.18	30.16					
10	CLR	NC			10.00		70	57	62	64	0	00	28.84	29.78	10	CLR	NC			10.00			60	45	52	58	3	VR	29.21	30.18					
13	FEW	055			10.00		78	55	64	45	5	26	28.77	29.69	13	CLR	NC			10.00			71	43	56	37	5	VR	29.16	30.13					
16	CLR	NC			10.00		78	56	65	47	6	20	28.68	29.61	16	CLR	NC			10.00			72	44	57	37	8	21	29.13	30.09					
19	FEW	120			10.00		67	60	63	78	0	00	28.63	29.57	19	CLR	NC			10.00			66	46	55	49	0	00	29.18	30.16					
22	OVC	065			3.00	RA BR	62	59	60	90	7	29	28.63	29.56	22	CLR	NC			10.00			54	48	51	80	0	00	29.23	30.20					

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

OCTOBER 2011

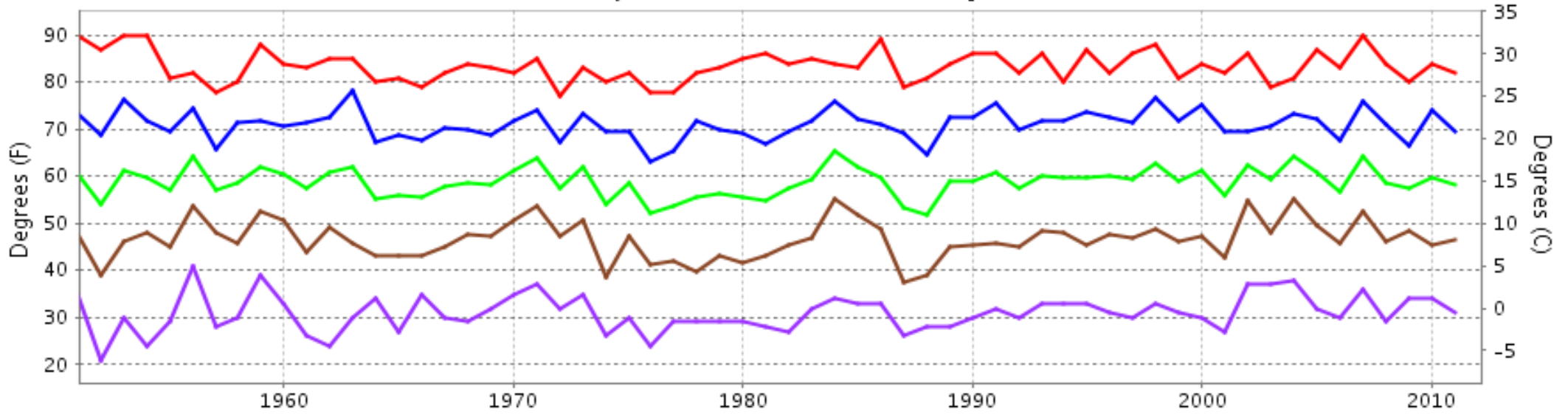
KOQT

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)																					
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL																		
SUNRISE: 0653						OCT 25						SUNSET: 1749																			
01	CLR	NC			10.00			49	46	48	89	0	00	29.24	30.21	01	CLR	NC			10.00			53	47	50	80	0	00	29.13	30.09
04	BKN	001			7.00			45	42	44	89	0	00	29.26	30.23	04	CLR	NC			10.00			51	46	48	83	0	00	29.14	30.10
07	VV	001			0.25	FG		43	42	43	96	0	00	29.30	30.27	07	CLR	NC			9.00			47	44	46	89	0	00	29.13	30.10
10	CLR	NC			10.00			57	50	53	78	5	VR	29.30	30.27	10	FEW	060			10.00			62	48	54	60	7	25	29.13	30.09
13	CLR	NC			10.00			71	44	56	38	0	00	29.22	30.19	13	CLR	NC			10.00			73	48	59	41	8	21	29.05	30.00
16	CLR	NC			10.00			75	41	57	30	3	17	29.15	30.12	16	CLR	NC			10.00			74	48	59	40	6	VR	28.98	29.93
19	CLR	NC			10.00			63	47	54	56	0	00	29.15	30.13	19	CLR	NC			10.00			68	47	56	47	3	VR	28.98	29.95
22	CLR	NC			10.00			56	47	51	72	0	00	29.16	30.13	22	CLR	NC			10.00			57	47	52	69	0	00	28.99	29.94
SUNRISE: 0654						OCT 26						SUNSET: 1748																			
01	CLR	NC			10.00			53	47	50	80	0	00	29.13	30.09	01	CLR	NC			10.00			53	46	48	83	0	00	29.14	30.10
04	CLR	NC			10.00			51	46	48	83	0	00	29.14	30.10	04	CLR	NC			10.00			47	44	46	89	0	00	29.13	30.10
07	CLR	NC			9.00			47	44	46	89	0	00	29.13	30.10	07	CLR	NC			10.00			62	48	54	60	7	25	29.13	30.09
10	FEW	060			10.00			62	48	54	60	7	25	29.13	30.09	10	FEW	060			10.00			73	48	59	41	8	21	29.05	30.00
13	CLR	NC			10.00			73	48	59	41	8	21	29.05	30.00	13	CLR	NC			10.00			74	48	59	40	6	VR	28.98	29.93
16	CLR	NC			10.00			74	48	59	40	6	VR	28.98	29.93	16	CLR	NC			10.00			68	47	56	47	3	VR	28.98	29.95
19	CLR	NC			10.00			68	47	56	47	3	VR	28.98	29.95	19	CLR	NC			10.00			57	47	52	69	0	00	28.99	29.94
22	CLR	NC			10.00			57	47	52	69	0	00	28.99	29.94	22	CLR	NC			10.00			57	47	52	69	0	00	28.99	29.94
SUNRISE: 0654						OCT 27						SUNSET: 1747																			
01	CLR	NC			10.00			53	46	49	77	0	00	28.96	29.91	01	CLR	NC			10.00			53	46	49	77	0	00	28.96	29.91
04	CLR	NC			10.00			53	47	50	80	0	00	28.94	29.89	04	CLR	NC			10.00			56	48	52	75	3	23	28.93	29.88
07	OVC	050			10.00			56	48	52	75	3	23	28.93	29.88	07	OVC	055			10.00			59	49	54	70	0	00	28.95	29.91
10	OVC	055			10.00			59	49	54	70	0	00	28.95	29.91	10	OVC	038			10.00			63	51	56	65	5	VR	28.92	29.88
13	OVC	038			10.00			63	51	56	65	5	VR	28.92	29.88	13	OVC	028			10.00			61	51	55	70	8	33	28.95	29.91
16	OVC	028			10.00			61	51	55	70	8	33	28.95	29.91	16	OVC	047			10.00			56	46	51	69	5	VR	29.02	29.99
19	OVC	047			10.00			56	46	51	69	5	VR	29.02	29.99	19	OVC	046			10.00			50	47	48	90	5	VR	29.09	30.05
22	OVC	046			10.00	-RA		50	47	48	90	5	VR	29.09	30.05	22	OVC	046			10.00			50	47	48	90	5	VR	29.09	30.05
SUNRISE: 0655						OCT 28						SUNSET: 1746																			
01	OVC	048			10.00			49	43	46	80	5	VR	29.07	30.04	01	OVC	048			10.00			49	43	46	80	5	VR	29.07	30.04
04	OVC	024			10.00			49	43	46	80	6	VR	29.05	30.02	04	OVC	024			10.00			49	43	46	80	6	VR	29.05	30.02
07	OVC	065			10.00	-RA		48	42	45	80	0	00	29.06	30.03	07	OVC	065			10.00			48	42	45	80	0	00	29.06	30.03
10	OVC	075			2.50	RA BR		45	43	44	93	3	VR	29.08	30.06	10	OVC	075			2.50	RA BR		45	43	44	93	3	VR	29.08	30.06
13	OVC	038			4.00	RA BR		46	44	45	93	3	06	29.04	30.02	13	OVC	038			4.00	RA BR		46	44	45	93	3	06	29.04	30.02
16	OVC	070			2.50	RA BR		47	45	46	93	0	00	29.01	29.99	16	OVC	070			2.50	RA BR		47	45	46	93	0	00	29.01	29.99
19	OVC	037			10.00			44	42	43	93	0	00	29.06	30.04	19	OVC	037			10.00			44	42	43	93	0	00	29.06	30.04
22	OVC	025			6.00	BR		42	40	41	93	0	00	29.08	30.07	22	OVC	025			6.00	BR		42	40	41	93	0	00	29.08	30.07
SUNRISE: 0656						OCT 29						SUNSET: 1745																			
01	OVC	031			10.00	-RA		41	39	40	93	0	00	29.09	30.08	01	OVC	031			10.00			41	39	40	93	0	00	29.09	30.08
04	SCT	070			10.00			40	36	38	86	0	00	29.12	30.11	04	SCT	070			10.00			40	36	38	86	0	00	29.12	30.11
07	CLR	NC			10.00			40	33	37	76	5	33	29.16	30.16	07	CLR	NC			10.00			40	33	37	76	5	33	29.16	30.16
10	CLR	NC			10.00			45	36	41	71	7	05	29.17	30.17	10	CLR	NC			10.00			45	36	41	71	7	05	29.17	30.17
13	BKN	060			10.00			53	32	44	45	6	VR	29.17	30.16	13	BKN	060			10.00			53	32	44	45	6	VR	29.17	30.16
16	CLR	NC			10.00			56	28	44	34	3	VR	29.15	30.14	16	CLR	NC			10.00			56	28	44	34	3	VR	29.15	30.14
19	CLR	NC			10.00			45	34	40	65	0	00	29.18	30.19	19	CLR	NC			10.00			45	34	40	65	0	00	29.18	30.19
22	CLR	NC			10.00			38	34	36	86	0	00	29.21	30.22	22	CLR	NC			10.00			38	34	36	86	0	00	29.21	30.22
SUNRISE: 0657						OCT 30						SUNSET: 1744																			
01	FEW	001			5.00	BR		35	32	34	89	0	00	29.23	30.23	01	FEW	001			5.00	BR		35	32	34	89	0	00	29.23	30.23
04	VV	001			0.25	FG		32	31	32	96	0	00	29.25	30.25	04	VV	001			0.25	FG		32	31	32	96	0	00	29.25	30.25
07	VV	001			0.25	FG		32	32	32	100	0	00	29.31	30.32	07	VV	001			0.25	FG		32	32	32	100	0	00	29.31	30.32
10	SCT	002			6.00	BR		39	38	39	96	0	00	29.36	30.37	10	SCT	002			6.00	BR		39	38	39	96	0	00	29.36	30.37
13	CLR	NC			10.00			57	30	45	36	3	VR	29.30	30.29	13	CLR	NC			10.00			57	30	45	36	3	VR	29.30	30.29
16	CLR	NC			10.00			59	23	44	25	5	19	29.22	30.22	16	CLR	NC			10.00			59	23	44	25	5	19	29.22	30.22
19	CLR	NC			10.00			46	35	41	66	0	00	29.24	30.25	19	CLR	NC			10.00			46	35	41	66	0	00	29.24	30.25
22	CLR	NC			10.00			41	35	38	79	0	00	29.26	30.27	22	CLR	NC			10.00			41	35	38	79	0	00	29.26	30.27

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE		WEATHER	TEMPERATURE °F			WIND SPEED (MPH) DIRECTION Tens of Deg	PRESSURE (INCHES, HG)																					
			Observation Time (LST)	Eff Cl'd Amt Oktas		VISIBILITY (MILES)	DRY BULB	DEW POINT		WET BULB	RELATIVE HUMIDITY (PCT)	STATION	SEA LEVEL																		
SUNRISE: 0658						OCT 31						SUNSET: 1743																			
01	CLR	NC			10.00			39	35	37	86	0	00	29.26	30.26	01	CLR	NC			10.00			39	35	37	86	0	00	29.26	30.26
04	CLR	NC			10.00			38	34	36																					

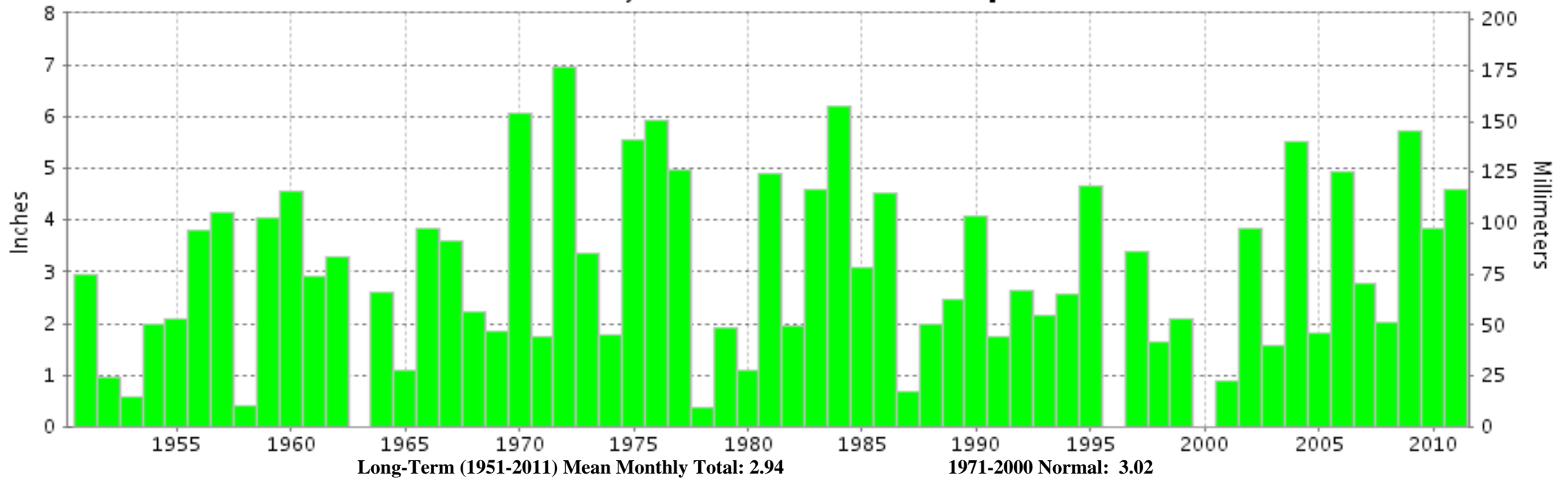
OAK RIDGE, TN OCTOBER Temperatures



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

Long-Term (1951-2011) Mean: 58.8
1971-2000 Normal: 58.4

OAK RIDGE, TN OCTOBER Precipitation



Long-Term (1951-2011) Mean Monthly Total: 2.94

1971-2000 Normal: 3.02



OCTOBER 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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