MAY 2011
LOCAL CLIMATOLOGICAL DATA
NOAA, National Climatic Data Center

OAK RIDGE, TN
OAK RIDGE (KOQT)
Lat:36 ° 1 'N Long: 84 ° 14'W Elev (Ground) 913 Feet
Time Zone : EASTERN WBAN: 53868 ISSN#: 0198-487X

Date	Temperature °F MAXIMUM	MINIMUM	AVERAGE	DEP FROM NORMAL	AVERAGE DEW PT	AVERAGE WET BULB	Deg Days BASE 65° HEATING	COOLING	WEATHER	SNOW/ICE ON GND(IN) LST DEPTH	LST WATER-EQUIV	PRECIPITATION ON GND(IN) LST SNOW-FALL	LST WATER EQUIV	PRESSURE (INCHES OF HG) AVERAGE STATION	AVERAGE SEA LEVEL	WIND SPEED = MPH DIR = TENS OF DEGREES RESULTANT SPEED	RES DIR	AVERAGE SPEED	MAXIMUM 3-SEC SPEED	3-SEC DIR	MAXIMUM 2-MIN SPEED	2-MIN DIR	Date
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	77	59	68	7	55	60	0	3					0.00	29.13	30.09	2.7	21	3.2	18	16	13	17	01
02	80	59	70	8	58	63	0	5					0.00	29.15	30.09	2.3	22	4.0	20	19	14	20	02
03	75	47	61	-1	53	56	4	0	RA BR				1.42	29.11	30.08	2.8	22	4.2	30	22	18	21	03
04	59	41	50*	-12	39	44	15	0	FG BR				0.00	29.31	30.32	1.9	30	3.0	20	31	10	35	04
05	68	37*	53	-10	38	45	12	0	FG+ BR				0.00	29.29	30.26	0.2	32	1.8	14	22	9	07	05
06	70	45	58	-5	45	50	7	0					0.00	29.05	30.02	1.2	22	2.0	18	24	9	28	06
07	72	44	58	-5	49	54	7	0	RA FG BR				T	29.03	29.98	1.4	21	2.3	16	21	10	20	07
08	83	58	71	8	58	63	0	6					0.00	28.95	29.89	0.6	21	1.6	13	22	8	23	08
09	85	58	72	8	60	64	0	7	BR				0.00	29.00	29.93	1.0	18	1.3	10	16	7	18	09
10	88	62	75	11	64	68	0	10	BR HZ				0.00	28.97	29.91	0.6	21	1.5	17	19	10	19	10
11	89	62	76	12	63	67	0	11					0.00	29.01	29.94	1.0	19	2.4	15	19	10	20	11
12	89	63	76	11			0	11	FG BR				0.00								9	18	12
13	81	63	72	7			0	7	RA BR				0.37						29	26	16	27	13
14	75	60	68	3	59	62	0	3	RA BR				0.04	28.74	29.67	1.8	23	4.2	18	27	13	18	14
15	63	55	59	-6	50	54	6	0	RA				T	28.76	29.72	2.5	27	4.8	22	28	14	27	15
16	64	51	58	-8	47	52	7	0	RA				T	28.80		1.8	33	3.6	17	36	10	36	16
17	53	49	51	-15	42	47	14	0	RA				T	28.82	29.80	0.5	01	1.6	13	34	8	35	17
18	59	49	54	-12	47	50	11	0	RA				T	28.90	29.89	1.0	23	2.0	14	19	9	19	18
19	73	53	63	-3	52	57	2	0	BR				0.00	29.08	30.06	0.9	22	1.7	14	16	8	20	19
20	76	59	68	1	58	61	0	3	RA BR				0.02	29.12	30.08			0.3	8	22	6	21	20
21	87	57	72	5	59	64	0	7	FG+ BR				0.00	29.05	29.99	0.8	19	1.3	13	19	9	17	21
22	90	62	76	9	64	67	0	11	RA BR				0.02	29.05	29.99	0.5	22	1.2			6	23	22
23	86	62	74	6	63	67	0	9	FG+ FG BR				0.00	29.03	29.95	2.5	21	3.6	17	20	12	21	23
24	85	66	76	8	64	68	0	11	RA BR				0.02	28.98	29.91	1.7	21	2.7	24	20	14	21	24
25	90	64	77	9	60	66	0	12	FG+ FG BR				0.00	28.94	29.85	3.3	21	4.6	24	23	16	19	25
26	79	64	72	4	61	64	0	7	RA BR				0.25	28.87	29.83	2.2	21	3.7	40*	26	22*	26	26
27	80	63	72	3	61	64	0	7					0.00	28.94	29.88	1.6	25	2.4	17	27	10	26	27
28	85	57	71	2	59	64	0	6	FG+ BR				0.00	28.98	29.93	0.8	20	1.6	18	20	10	16	28
29	92	62	77	8	64	69	0	12					0.00	29.10	30.05	0.3	21	2.0	20	29	10	20	29
30	93	67	80	11	67	71	0	15	BR				0.00	29.22	30.15	0.3	13	1.2	12	14	8	13	30
31	95*	69	82*	12	70	74	0	17	BR HZ				0.00	29.26	30.19	0.3	36	1.4	13	36	8	35	31
	78.7	57.0	67.9	¤	56.2	60.5	2.7	5.8	< MONTHLY AVERAGES | TOTALS >				2.14	29.02	29.98	1.1	22	2.5	< MONTHLY AVERAGES				
	0.9	3.6	2.3		<---------- DEPARTURE FROM NORMAL ---------->								-2.99	SUNSHINE, CLOUD, & VISIBILITY TABLES ON PAGE 3									

MAY 2011
OAK RIDGE, TN

DEGREE DAYS

	MONTHLY TOTAL	MONTHLY DEPARTURE	SEASON TO DATE TOTAL	SEASON TO DATE DEPARTURE
HEATING :	85	5	3677	-310
COOLING :	180	85	257	141

GREATEST 24-HR PRECIPITATION : 1.42 DATE : 03
GREATEST 24-HR SNOWFALL : DATE :
GREATEST SNOW DEPTH : DATE :

SEA LEVEL PRESSURE	DATE	TIME
MAXIMUM :	04	2253
MIMIMUM :	14	1553

NUMBER OF -> DAYS WITH

MAXIMUM TEMP >= 90 :	5	MINIMUM TEMP <= 32 :	0
MAXIMUM TEMP <= 32 :	0	MINIMUM TEMP <= 0 :	0
THUNDERSTORMS :	0	HEAVY FOG :	5

PRECIPITATION >= 0.01 INCH:	7
PRECIPITATION >= 0.10 INCH:	3
SNOWFALL >= 1.0 INCH :	

HOURLY PRECIPITATION
(WATER EQUIVALENT IN INCHES)

OAK RIDGE, TN (KOQT)
MAY 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					T	T					T	T	03	0.13	0.38	0.17	0.14	0.07	0.23	0.12	0.18	T				03	1.42	1.42
04													04													04	0.00	0.00
05													05													05	0.00	0.00
06													06													06	0.00	0.00
07													07									T	T	T		07	T	T
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		0.27	0.05	0.03	0.02	T							13	0.37	0.37
14							0.01	T					14		T	0.03	T									14	0.04	0.04
15											T		15							T						15	T	T
16													16													16	0.00*	T
17													17					T	T			T	T		T	17	T	T
18					T	T							18													18	T	T
19													19													19	0.00	0.00
20		T	T		T	T		T	0.02	T	T		20													20	0.02	0.02
21													21													21	0.00	0.00
22													22					0.02	T							22	0.02	0.02
23													23													23	0.00	0.00
24						0.02	T						24													24	0.02	0.02
25													25													25	0.00	0.00
26				T						T	T	0.05	26				T		0.01	0.06	0.01	0.11	0.01			26	0.25	0.25
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)												
Ending Date												
Ending Time (Hr/Min)												

Date and time are not entered for TRACE amounts.

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.

REFERENCE NOTES & SUPPLEMENTAL SUMMARIES

*** = Extreme for the month (last occurence 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
MAY 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:

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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
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Date	SUNSHINE		CLOUDINESS (OKTAS)				VISIBILITY (MILES)		RESERVED
			SR-SS		MN-MN				
	TOTAL MINUTES	PERCENT POSSIBLE	Sky Cover	Satellite	Sky Cover	Satellite	MINIMUM	MAXIMUM	
01							10.00	10.00	
02							10.00	10.00	
03							1.00	10.00	
04							0.50	10.00	
05							0.25	10.00	
06							10.00	10.00	
07							0.50	10.00	
08							9.00	10.00	
09							2.50	10.00	
10							0.75	10.00	
11							5.00	10.00	
12							0.75	10.00	
13							4.00	10.00	
14							2.50	10.00	
15							10.00	10.00	
16							5.00	10.00	
17							8.00	10.00	
18							7.00	10.00	
19							5.00	10.00	
20							4.00	10.00	
21							0.00	10.00	
22							4.00	10.00	
23							0.25	10.00	
24							4.00	10.00	
25							0.25	10.00	
26							2.50	10.00	
27							9.00	10.00	
28							0.25	10.00	
29							7.00	10.00	
30							3.00	10.00	
31							3.00	10.00	
MONTHLY AVGS							4.16	10.00	

SUNSHINE (Minutes)

Total : 0 **Possible :**
Percent Possible :

NUMBER OF DAYS WITH :

SKY CONDITION

Clear	Partly CLDY	Cloudy	Missing

MINIMUM VISIBILTY (MILES)

<= .25	<= 3.0	>= 7.0
5	15	9

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

MAY 2011 **KOQT** **WBAN # 53868**

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0545 MAY 01 SUNSET: 1923								
01	BKN	080			10.00		62	54	57	75	3	23	29.09	30.03
04	CLR	NC			10.00		61	53	57	75	0	00	29.09	30.03
07	BKN	100			10.00		59	55	57	87	0	00	29.13	30.07
10	BKN	080			10.00		68	53	59	59	0	00	29.24	30.20
13	CLR	NC			10.00		70	54	61	57	10	16	29.17	30.12
16	CLR	NC			10.00		75	55	63	50	6	24	29.10	30.05
19	CLR	NC			10.00		73	57	63	57	3	21	29.13	30.08
22	CLR	NC			10.00		64	58	60	81	0	00	29.13	30.07
						SUNRISE: 0544 MAY 02 SUNSET: 1924								
01	CLR	NC			10.00		60	55	57	84	0	00	29.13	30.08
04	CLR	NC			10.00		60	55	57	84	3	23	29.15	30.10
07	BKN	075			10.00		65	57	60	75	3	23	29.22	30.16
10	OVC	030			10.00		71	60	64	68	5	26	29.22	30.17
13	BKN	040			10.00		78	61	67	56	9	22	29.17	30.12
16	CLR	NC			10.00		80	61	68	52	3	VR	29.13	30.07
19	CLR	NC			10.00		77	58	65	52	5	20	29.10	30.05
22	CLR	NC			10.00		72	57	63	59	3	21	29.10	30.04
						SUNRISE: 0543 MAY 03 SUNSET: 1925								
01	BKN	080			10.00		71	58	63	64	0	00	29.09	30.01
04	OVC	075			10.00		69	59	63	71	0	00	29.05	29.98
07	BKN	080			10.00		70	58	63	66	7	20	29.05	29.98
10	OVC	070			10.00		73	59	64	62	10	21	29.06	29.99
13	OVC	043			2.00	RA BR	57	54	55	90	0	00	29.12	30.07
16	OVC	006			1.75	RA BR	51	49	50	93	3	22	29.20	30.17
19	OVC	090			5.00	-RA BR	49	46	48	89	3	36	29.21	30.18
22	CLR	NC			10.00		48	44	46	86	0	00	29.28	30.24
						SUNRISE: 0542 MAY 04 SUNSET: 1926								
01	OVC	003			5.00	BR	47	45	46	93	0	00	29.27	30.25
04	OVC	004			2.50	BR	45	44	45	96	0	00	29.27	30.27
07	VV	002			0.50	FG	43	42	43	96	6	26	29.29	30.29
10	BKN	047			10.00		52	42	47	69	7	22	29.31	30.30
13	CLR	NC			10.00		56	32	45	40	9	31	29.34	30.32
16	CLR	NC			10.00		59	33	47	38	9	32	29.35	30.34
19	SCT	050			10.00		52	34	44	50	3	02	29.37	30.36
22	CLR	NC			10.00		43	38	41	83	0	00	29.40	30.40
						SUNRISE: 0541 MAY 05 SUNSET: 1927								
01	CLR	NC			8.00		40	37	39	89	0	00	29.40	30.39
04	SCT	002			4.00	BR	38	36	37	93	0	00	29.39	30.38
07	VV	001			0.25	FG	39	38	39	96	3	07	29.40	30.40
10	CLR	NC			10.00		54	40	47	59	3	VR	29.36	30.36
13	CLR	NC			10.00		62	38	50	41	0	00	29.28	30.27
16	CLR	NC			10.00		66	33	50	29	6	25	29.18	30.16
19	CLR	NC			10.00		64	34	50	33	3	23	29.13	30.11
22	CLR	NC			9.00		51	43	47	74	0	00	29.14	30.12
						SUNRISE: 0540 MAY 06 SUNSET: 1927								
01	CLR	NC			10.00		47	42	45	83	0	00	29.10	30.07
04	OVC	065			10.00		47	43	45	86	0	00	29.07	30.03
07	BKN	110			10.00		49	45	47	86	0	00	29.08	30.04
10	OVC	100			10.00		57	45	51	64	3	21	29.09	30.06
13	FEW	065			10.00		66	44	54	45	6	VR	29.05	30.01
16	SCT	085			10.00		67	44	55	44	3	28	29.01	29.97
19	FEW	085			10.00		67	43	54	42	0	00	29.00	29.96
22	CLR	NC			10.00		53	48	50	83	0	00	29.05	30.02

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0539 MAY 07 SUNSET: 1928								
01	CLR	NC			10.00		48	45	47	89	0	00	29.06	30.03
04	FEW	003			4.00	BR	46	44	45	93	0	00	29.07	30.03
07	VV	001			0.50	FG	45	44	45	96	0	00	29.08	30.04
10	CLR	NC			10.00		64	49	56	58	3	VR	29.07	30.03
13	CLR	NC			10.00		71	47	58	43	5	VR	29.05	30.01
16	BKN	055			10.00		71	51	60	49	7	21	28.98	29.94
19	OVC	090			10.00		70	52	60	53	5	VR	28.94	29.90
22	OVC	060			10.00	-RA	63	57	60	81	0	00	28.98	29.93
						SUNRISE: 0538 MAY 08 SUNSET: 1929								
01	BKN	090			9.00		60	58	59	93	0	00	28.97	29.91
04	SCT	090			10.00		60	56	58	87	0	00	28.95	29.89
07	CLR	NC			10.00		61	56	58	84	3	23	28.97	29.91
10	CLR	NC			10.00		74	59	65	60	5	VR	28.98	29.92
13	OVC	070			10.00		78	60	67	54	3	VR	28.94	29.88
16	BKN	090			10.00		80	58	66	47	0	00	28.92	29.85
19	BKN	085			10.00		79	59	66	50	0	00	28.93	29.87
22	CLR	NC			10.00		67	61	63	81	0	00	28.98	29.91
						SUNRISE: 0537 MAY 09 SUNSET: 1930								
01	CLR	NC			9.00		62	58	60	87	0	00	28.99	29.93
04	BKN	055			5.00	BR	59	57	58	93	0	00	29.01	29.95
07	CLR	NC			4.00	BR	60	57	58	90	0	00	29.06	30.00
10	CLR	NC			10.00		72	56	62	57	3	VR	29.06	30.00
13	CLR	NC			10.00		82	62	69	51	5	17	29.01	29.94
16	FEW	060			10.00		83	59	68	44	0	00	28.97	29.90
19	BKN	075			10.00		81	63	69	54	0	00	28.95	29.89
22	CLR	NC			8.00		71	64	67	79	0	00	28.94	29.88
						SUNRISE: 0536 MAY 10 SUNSET: 1931								
01	CLR	NC			4.00	BR	66	63	64	90	0	00	28.98	29.91
04	SCT	002			2.50	BR	63	61	62	93	0	00	28.98	29.91
07	FEW	046			2.00	BR	64	61	62	90	0	00	29.04	29.97
10	FEW	042			8.00		77	65	69	67	0	00	29.04	29.97
13	FEW	042			10.00		85	64	71	49	0	00	28.98	29.91
16	FEW	049			10.00		88	65	73	47	5	VR	28.94	29.86
19	CLR	NC			10.00		84	67	73	57	3	VR	28.92	29.85
22	CLR	NC			10.00		75	68	70	79	0	00	28.96	29.89
						SUNRISE: 0535 MAY 11 SUNSET: 1932								
01	SCT	050			5.00	BR	69	67	68	93	0	00	28.99	29.91
04	CLR	NC			10.00		65	60	62	84	0	00	29.00	29.92
07	CLR	NC			10.00		65	58	61	78	0	00	29.08	30.01
10	CLR	NC			10.00		76	60	66	58	5	VR	29.06	29.98
13	CLR	NC			10.00		85	65	72	51	6	21	29.02	29.94
16	CLR	NC			10.00		88	63	71	43	3	VR	28.98	29.90
19	CLR	NC			10.00		84	66	72	55	3	20	28.98	29.91
22	CLR	NC			10.00		74	67	69	79	0	00	29.02	29.95
						SUNRISE: 0534 MAY 12 SUNSET: 1932								
01	CLR	NC			7.00		68	66	67	93	0	00	29.03	29.95
04	CLR	NC			6.00	BR	67	65	66	93	0	00	29.02	29.94
07	OVC	002			0.75	BR	64	63	63	97	0	00	29.05	29.98
10	SCT	048			10.00		78	65	70	64	5	26	29.07	29.99
13	CLR	NC			10.00		87	63	71	45	6	18	29.02	29.94
16														
19														
22														

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN

MAY 2011 **KOQT** **WBAN # 53868**

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0533 MAY 13 SUNSET: 1933								
01														
04														
07														
10														
13							78	62	68	58	15	26	28.86	
16	OVC	110			4.00	-RA BR	68	66	67	93	0	00	28.85	
19	OVC	012			10.00		67	64	65	90	5	VR	28.80	
22	CLR	NC			4.00	BR	64	63	63	97	0	00	28.81	
						SUNRISE: 0532 MAY 14 SUNSET: 1934								
01	OVC	100			8.00		64	62	63	93	0	00	28.81	29.74
04	OVC	100			4.00	BR	64	62	63	93	0	00	28.74	29.68
07	OVC	090			2.50	-RA BR	64	62	63	93	0	00	28.74	29.69
10	OVC	031			10.00		65	61	63	87	7	18	28.74	29.69
13	BKN	060			10.00		67	57	61	70	5	VR	28.73	29.66
16	CLR	NC			10.00		74	59	65	60	5	VR	28.67	29.59
19	OVC	085			10.00		66	55	60	68	8	26	28.71	29.64
22	OVC	070			10.00		62	53	57	73	6	26	28.76	29.70
						SUNRISE: 0532 MAY 15 SUNSET: 1935								
01	OVC	028			10.00		60	53	56	78	6	24	28.76	29.70
04	BKN	034			10.00		58	51	54	78	3	VR	28.73	29.67
07	BKN	080			10.00		57	49	53	75	8	25	28.76	29.70
10	OVC	039			10.00		59	50	54	72	6	VR	28.77	29.72
13	OVC	055			10.00		61	48	54	63	5	VR	28.77	29.72
16	OVC	031			10.00		60	49	54	67	9	27	28.77	29.72
19	OVC	023			10.00		57	50	53	78	0	00	28.79	29.75
22	OVC	032			10.00		56	49	52	78	0	00	28.81	29.77
						SUNRISE: 0531 MAY 16 SUNSET: 1936								
01	OVC	060			10.00		55	49	52	80	5	VR	28.77	29.73
04	OVC	027			10.00		54	49	51	83	3	26	28.74	29.70
07	OVC	055			10.00		55	49	52	80	0	00	28.77	29.72
10	OVC	034			10.00		58	50	54	75	0	00	28.79	29.75
13					10.00		63	49	55	60	5	35	28.78	
16	OVC	080			10.00		59	47	53	65	9	33	28.80	
19	OVC	065			10.00		55	45	50	69	5	34	28.85	
22	OVC	036			10.00		52	43	48	72	3	VR	28.88	
						SUNRISE: 0530 MAY 17 SUNSET: 1936								
01	OVC	031			10.00		51	41	46	69	3	VR	28.84	29.80
04	OVC	033			10.00		50	40	45	69	3	05	28.81	29.78
07	OVC	037			10.00		50	41	46	71	0	00	28.81	29.78
10	OVC	029			10.00		52	41	47	66	3	01	28.82	29.80
13	OVC	028			10.00		53	42	48	66	0	00	28.82	29.79
16	OVC	022			10.00		51	43	47	74	0	00	28.83	29.81
19	OVC	031			10.00		50	45	48	83	0	00	28.84	29.81
22	OVC	027			10.00		49	46	47	89	0	00	28.84	29.82
						SUNRISE: 0529 MAY 18 SUNSET: 1937								
01	OVC	027			7.00		49	47	48	93	0	00	28.85	29.82
04	OVC	024			10.00		49	46	47	89	0	00	28.82	29.79
07	OVC	009			10.00		50	46	48	86	0	00	28.87	29.85
10	OVC	018			10.00		53	46	49	77	5	21	28.90	29.88
13	OVC	022			10.00		55	46	50	72	5	VR	28.94	29.91
16	OVC	024			10.00		57	47	52	69	3	VR	28.95	29.92
19	OVC	031			10.00		57	48	52	72	5	26	28.98	29.94
22	OVC	043			9.00		56	49	52	78	0	00	29.00	29.97

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0529 MAY 19 SUNSET: 1938								
01	OVC	041			8.00		55	50	52	83	0	00	29.02	29.99
04	SCT	045			8.00		54	50	52	86	0	00	29.03	29.99
07	CLR	NC			7.00		56	50	53	80	0	00	29.09	30.05
10	OVC	045			10.00		65	51	57	61	0	00	29.13	30.09
13	OVC	050			10.00		70	52	60	53	5	VR	29.13	30.08
16	CLR	NC			10.00		72	52	60	50	5	16	29.12	30.06
19	CLR	NC			10.00		69	53	60	57	0	00	29.12	30.06
22	CLR	NC			10.00		61	55	58	81	0	00	29.13	30.08
						SUNRISE: 0528 MAY 20 SUNSET: 1939								
01	OVC	100			10.00		61	56	58	84	0	00	29.13	30.07
04	OVC	085			8.00		61	56	58	84	0	00	29.13	30.08
07	OVC	060			6.00	BR	60	57	58	90	0	00	29.15	30.11
10	OVC	075			6.00	BR	64	60	62	87	0	00	29.18	30.14
13	BKN	120			10.00		71	57	63	61	0	00	29.13	30.09
16	OVC	110			10.00		74	58	64	58	3	VR	29.10	30.05
19	SCT	100			10.00		72	58	64	62	0	00	29.09	30.03
22	SCT	110			9.00		64	60	62	87	0	00	29.10	30.06
						SUNRISE: 0527 MAY 21 SUNSET: 1940								
01	CLR	NC			5.00	BR	61	58	59	90	0	00	29.07	30.01
04	CLR	NC			5.00	BR	58	56	57	93	0	00	29.08	30.03
07	VV	001			0.25	FG	58	58	58	100	0	00	29.10	30.06
10	CLR	NC			10.00		73	61	66	66	0	00	29.10	30.04
13	CLR	NC			10.00		82	60	68	47	0	00	29.06	30.00
16	CLR	NC			10.00		86	59	69	40	0	00	29.01	29.94
19	CLR	NC			10.00		83	59	68	44	3	21	29.00	29.93
22	CLR	NC			10.00		71	63	66	76	0	00	29.04	29.97
						SUNRISE: 0527 MAY 22 SUNSET: 1940								
01	FEW	065			9.00		66	62	64	87	0	00	29.04	29.97
04	FEW	048			8.00		64	61	62	90	0	00	29.05	29.98
07	CLR	NC			7.00		66	62	64	87	0	00	29.10	30.03
10	CLR	NC			10.00		80	64	70	58	0	00	29.10	30.03
13	SCT	045			10.00		87	66	73	50	0	00	29.06	29.98
16	SCT	095			10.00		83	64	71	53	3	29	29.04	29.97
19	CLR	NC			10.00		72	66	68	82	0	00	29.03	29.97
22	SCT	002			5.00	BR	66	64	65	93	0	00	29.04	29.97
						SUNRISE: 0526 MAY 23 SUNSET: 1941								
01	CLR	NC			6.00	BR	64	62	63	93	0	00	29.04	29.96
04	VV	001			0.25	FG	62	61	61	97	0	00	29.00	29.93
07	SCT	060			8.00		65	62	63	90	3	19	29.08	30.02
10	CLR	NC			10.00		76	61	67	60	9	20	29.07	30.01
13	CLR	NC			10.00		82	62	69	51	8	23	29.04	29.97
16	BKN	045			10.00		84	65	71	53	8	21	28.99	29.92
19	CLR	NC			10.00		82	65	71	56	3	VR	28.96	29.89
22	CLR	NC			10.00		76	64	68	67	3	22	29.03	29.95
						SUNRISE: 0525 MAY 24 SUNSET: 1942								
01	CLR	NC			10.00		73	63	67	71	0	00	28.98	29.90
04	CLR	NC			10.00		70	63	66	79	0	00	28.99	29.91
07	SCT	075			5.00	BR	69	66	67	90	0	00	29.01	29.93
10	OVC	035			10.00		78	66	70	67	0	00	29.01	29.93
13	SCT	050			10.00		81	66	71	60	8	21	28.99	29.91
16	CLR	NC			10.00		85	61	69	45	8	22	28.94	29.86
19	OVC	085			10.00		72	63	66	73	6	07	28.97	29.91
22	CLR	NC			10.00		68	64	65	87	0	00	28.99	29.92

OBSERVATIONS AT 3-HOURLY INTERVALS

OAK RIDGE, TN
MAY 2011 KOQT WBAN # 53868

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0525 MAY 25 SUNSET: 1943								
01	CLR	NC			10.00		66	64	65	93	0	00	29.00	29.93
04	OVC	002			1.25	BR	65	63	64	93	0	00	29.00	29.92
07	VV	002			0.25	FG	64	63	63	97	3	09	29.01	29.95
10	CLR	NC			10.00		78	65	70	64	3	25	28.98	29.91
13	CLR	NC			10.00		86	57	68	37	11	20	28.94	29.86
16	CLR	NC			10.00		89	56	68	33	8	23	28.88	29.80
19	CLR	NC			10.00		86	55	67	35	6	20	28.83	29.75
22	CLR	NC			10.00		80	56	65	44	3	20	28.84	29.76
						SUNRISE: 0524 MAY 26 SUNSET: 1943								
01	SCT	065			10.00		76	59	65	56	0	00	28.85	29.77
04	OVC	095			10.00	-RA	67	58	62	73	5	VR	28.94	29.85
07	CLR	NC			10.00		66	59	62	78	0	00	28.88	29.81
10	OVC	070			10.00		70	58	63	66	6	VR	28.93	29.86
13	BKN	041			10.00		72	63	66	73	0	00	28.89	29.82
16	FEW	027			10.00		73	66	68	79	7	18	28.84	29.78
19	OVC	095			2.50	-RA BR	69	65	66	87	0	00	28.89	29.83
22	OVC	032			10.00		65	61	63	87	3	26	28.92	29.86
						SUNRISE: 0524 MAY 27 SUNSET: 1944								
01	OVC	050			10.00		65	62	63	90	0	00	28.93	29.87
04	OVC	007			10.00		64	62	63	93	0	00	28.93	29.87
07	OVC	007			10.00		65	61	63	87	3	26	28.97	29.91
10	OVC	030			10.00		70	61	64	73	0	00	28.98	29.92
13	SCT	065			10.00		77	61	67	58	7	28	28.95	29.88
16	BKN	070			10.00		78	59	66	52	7	28	28.90	29.83
19	CLR	NC			10.00		76	61	67	60	0	00	28.93	29.87
22	CLR	NC			10.00		66	61	63	84	0	00	28.98	29.92
						SUNRISE: 0523 MAY 28 SUNSET: 1945								
01	CLR	NC			8.00		62	59	60	90	0	00	28.94	29.87
04	CLR	NC			8.00		59	56	57	90	0	00	28.97	29.91
07	VV	002			0.25	FG	58	57	57	97	0	00	29.03	29.97
10	CLR	NC			10.00		71	61	65	71	0	00	29.03	29.97
13	CLR	NC			10.00		82	60	68	47	7	21	29.01	29.94
16	CLR	NC			10.00		84	57	67	40	7	20	28.97	29.90
19	CLR	NC			10.00		81	58	67	46	0	00	28.97	29.91
22	CLR	NC			10.00		70	62	65	76	0	00	29.02	29.96
						SUNRISE: 0523 MAY 29 SUNSET: 1946								
01	CLR	NC			10.00		66	61	63	84	0	00	29.04	29.97
04	CLR	NC			10.00		65	61	63	87	0	00	29.07	30.00
07	CLR	NC			8.00		65	61	63	87	0	00	29.13	30.06
10	CLR	NC			10.00		80	63	69	56	0	00	29.14	30.08
13	CLR	NC			10.00		88	65	73	47	8	21	29.13	30.06
16	CLR	NC			10.00		91	62	72	38	5	VR	29.12	30.04
19	CLR	NC			10.00		88	66	73	48	0	00	29.13	30.06
22	CLR	NC			9.00		76	69	71	79	0	00	29.16	30.09
						SUNRISE: 0523 MAY 30 SUNSET: 1946								
01	CLR	NC			5.00	BR	71	68	69	90	0	00	29.18	30.10
04	CLR	NC			5.00	BR	70	67	68	90	0	00	29.17	30.10
07	CLR	NC			4.00	BR	70	66	67	87	0	00	29.24	30.16
10	CLR	NC			10.00		84	67	73	57	3	VR	29.28	30.20
13	CLR	NC			10.00		91	67	75	45	3	VR	29.26	30.19
16	CLR	NC			10.00		93	65	74	40	0	00	29.22	30.14
19	CLR	NC			10.00		89	67	74	48	0	00	29.21	30.14
22	CLR	NC			9.00		78	70	73	77	0	00	29.25	30.17

HOUR (LST)	SKY COVER	CEILING 100's of FT.	SATELLITE Observation Time (LST)	SATELLITE Eff Cld Amt Oktas	VISIBILITY (MILES)	WEATHER	TEMPERATURE °F DRY BULB	TEMPERATURE °F DEW POINT	TEMPERATURE °F WET BULB	RELATIVE HUMIDITY (PCT)	WIND SPEED (MPH)	WIND DIRECTION Tens of Deg	PRESSURE (INCHES, HG) STATION	PRESSURE (INCHES, HG) SEA LEVEL
						SUNRISE: 0522 MAY 31 SUNSET: 1947								
01	CLR	NC			7.00		73	69	70	87	0	00	29.24	30.16
04	CLR	NC			5.00	BR	71	68	69	90	0	00	29.24	30.16
07	SCT	003			4.00	BR	72	68	69	87	0	00	29.29	30.22
10	CLR	NC			8.00		86	68	74	55	7	23	29.31	30.24
13	BKN	055			10.00		90	71	77	54	3	02	29.31	30.23
16	CLR	NC			10.00		94	70	77	46	3	VR	29.25	30.17
19	CLR	NC			9.00		89	70	76	54	3	36	29.24	30.16
22	CLR	NC			7.00		79	73	75	82	0	00	29.27	30.19

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

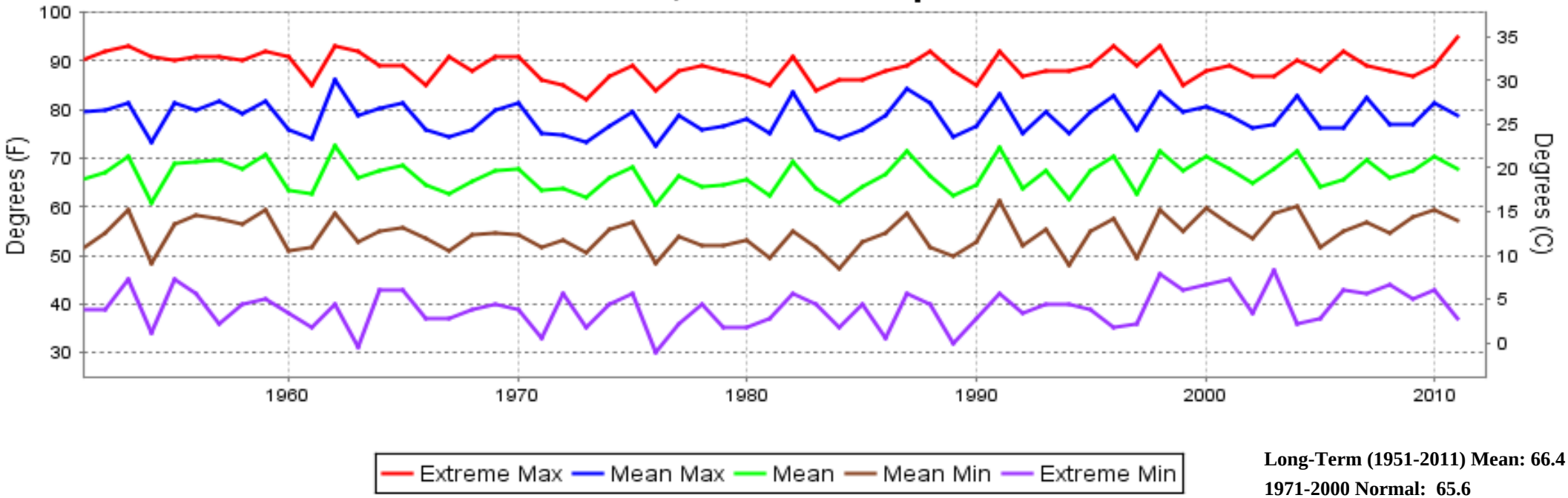
Ceiling is reported in hundreds of feet above ground level for clouds at or below 12,000 feet. NC = No Ceiling detected.

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

SUMMARY BY HOUR

HOUR (LST)	AVERAGES CEILOMETER	EFF CLD AMT	DRY BULB	DEW POINT	WET BULB	RELATIVE HUMIDITY	PRESSURE (Inches, HG) STATION	PRESSURE (Inches, HG) SEA LEVEL	VISIBILITY (Miles)	WIND SPEED (MPH)	RESULTANT WIND (MPH) SPEED	RESULTANT WIND (MPH) DIRECTION
01			61	56	59	85	29.02	29.96	8.33	1	xx	xx
02			61	56	58	85	29.01	29.96	8.08	1	xx	xx
03			60	56	58	86	29.01	29.95	7.63	1	xx	xx
04			60	55	57	87	29.02	29.96	7.22	1	xx	xx
05			59	55	57	88	29.02	29.97	6.51	1	xx	xx
06			59	55	57	88	29.04	29.98	5.92	1	2	17
07			60	56	58	87	29.05	30.00	6.01	1	2	24
08			63	57	59	82	29.06	30.01	7.83	2	3	23
09			67	57	61	72	29.06	30.01	9.37	2	4	24
10			69	57	62	65	29.06	30.01	9.73	3	3	25
11			71	57	63	61	29.06	30.00	10.00	5	3	26
12			73	57	63	57	29.05	29.99	10.00	5	3	25
13			75	57	64	55	29.03	29.99	9.73	5	3	26
14			75	56	64	53	29.02	29.97	9.71	5	2	25
15			76	56	64	53	29.01	29.96	9.59	5	3	26
16			75	56	64	53	29.00	29.95	9.53	5	4	26
17			75	56	63	54	29.00	29.95	9.73	5	3	26
18			74	56	63	56	28.99	29.95	9.53	4	2	25
19			72	56	63	60	29.00	29.96	9.55	2	1	24
20			69	57	62	68	29.01	29.96	9.83	2	3	21
21			66	58	61	75	29.02	29.98	9.67	1	2	17
22			65	58	60	79	29.03	29.99	9.30	1	3	23
23			63	57	60	82	29.03	29.99	9.13	1	3	23
24			63	57	60	84	29.03	29.98	8.67	1	xx	xx

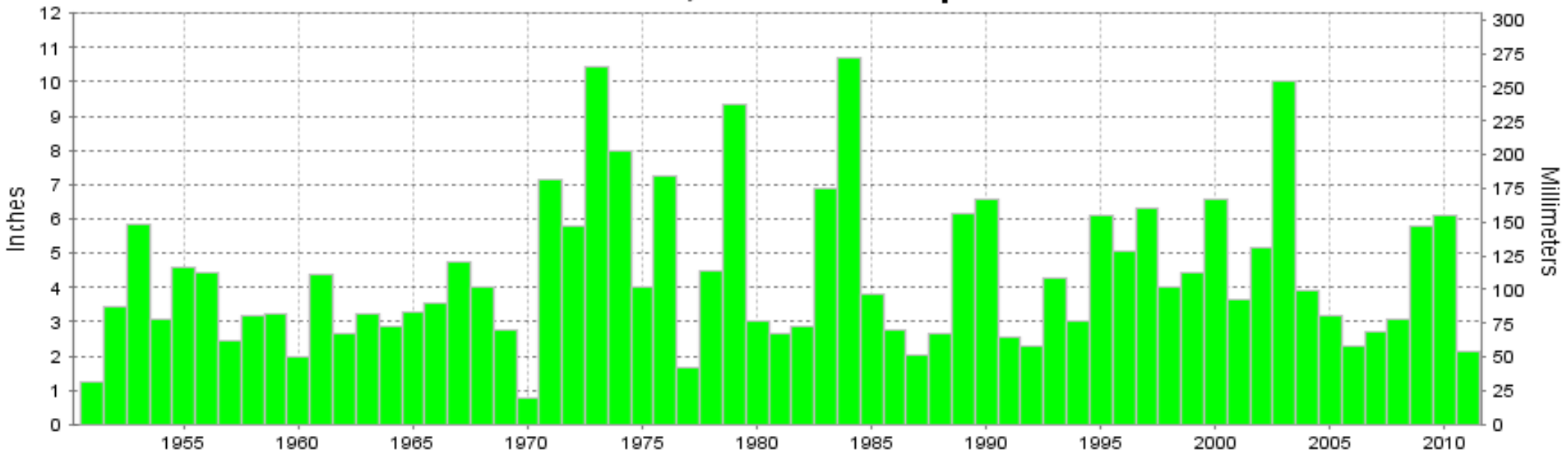
OAK RIDGE, TN MAY Temperatures



Long-Term (1951-2011) Mean: 66.4

1971-2000 Normal: 65.6

OAK RIDGE, TN MAY Precipitation



Long-Term (1951-2011) Mean Monthly Total: 4.37 **1971-2000 Normal: 5.14**

Published By: National Climatic Data Center

MAY 2011
OAK RIDGE, TN

LOCAL CLIMATOLOGICAL DATA

NOAA, National Climatic Data Center

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